AN EVALUATION OF SKILL DEVELOPMENT PROGRAMMES AND ITS IMPACT ON EMPLOYMENT AND SELF-EMPLOYMENT: A STUDY WITH REFERENCE TO STATE OF GOA

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In

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To

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By

ANTHONY PHILIP D'SOUZA
ASSOCIATE PROFESSOR
DEPARTMENT OF COMMERCE
FR. AGNEL COLLEGE OF ARTS AND COMMERCE
PILAR GOA.

UNDER THE GUIDANCE OF

Dr. B. RAMESH
PROFESSOR
EX-DEAN& HEAD
DEPARTMENT OF COMMERCE
FACULTY OF COMMERCE& MANAGEMENT STUDIES
GOA UNIVERSITY.

JANUARY 2018

DECLARATION

I Anthony P. D'Souza, hereby declare that the thesis titled, "An evaluation of Skill Development Programmes and its impact on employment and Self-Employment: A study with reference to State of Goa" submitted to the Goa University, Goa, for the award of the Degree of Doctor of Philosophy is the outcome of original and independent research work undertaken by me during the period 2013 to 2018. This study is carried out under the guidance of Prof. B. Ramesh, Ex-Dean & Head, Professor, Department of Commerce, Goa University. It has not been previously formed the basis for the award of any degree, diploma, or certificate of this University. I other university any have acknowledged all the sources used by me in the preparation of this thesis.

Date: Mr. Anthony P. D'Souza

Place: Goa University (Research Scholar)

CERTIFICATE

This is to certify that the thesis titled, "An Evaluation of Skill Development Programmes and its impact on Employment and Self-Employment: A study with reference to State of Goa" for the award of PhD degree in Commerce, is the bonafide record of the original work done by Mr. Anthony P. D'Souza, during the period of study under my guidance. This thesis has not formed the basis for the award of any degree, diploma, certificate, associateship, fellowship or similar title to the candidates of this University or any other University.

Date: Prof. B. Ramesh

Place: Goa University. Guide

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LIST OF ABBREVIATIONS

SR.NO.	ABBREVIATIONS	FULL FORM
1.	AA	Accountancy and Auditing
2.	AET	Auto Engineering Technology
3.	AGRIT	Agriculture Training
4.	AM	Automobile
5.	ApprT	Apprenticeship Training
6.	ARM	Air Condition/Refrigerator Mechanic
7.	BA	Business Application
8.	BTCN	Beautician
9.	CA	Computer Application
10.	CGDM	Commercial Garments Designing and Making
11.	CNC	Computer Numerical Control Operator
12.	COPA	Computer Operating Programming Assistant
13.	CRM	Catering & Restaurant Management
14.	CT	Computer Techniques
15.	DM	Diesel Mechanic
16.	DTPO	Desktop Operator
17.	Е	Excellent
18.	EAC	Entrepreneurship Awareness Camp
19.	ED	Entrepreneurship Development
20.	EDP	Entrepreneurship Development Programmes
21.	ELTR	Electrician
22.	EM	Electronic Mechanic
23.	F&B	Food and Beverages
24.	FTR	Fitter
25.	G	Good
26.	GHRSDC	Goa Human Resource Skill Development Corporation
27.	НС	Healthcare
28.	HM	Hotel Management
29.	HN	Home Nursing
30.	HRDFS	Human Resource Development Foundation Society

31.	HSSC	Higher Secondary School Certificate
32.	ISR	Insurance
33.	IT	Information Technology
34.	ITI	Industrial Training Institutes
35.	L&MS	Large and Medium Scale
36.	LA	Lab Assistant
37.	MCA	Master of computer Application
38.	MFS	Master of Financial Services
39.	MREEA	Maintenance and Repair of Electrical and Electronic
		Appliances
40.	NSQF	National Skill Qualification Framework
41.	OITSG	Other Initiatives taken by State Government.
42.	OSS	Office Secretaryship Stenography
43.	P	Poor
44.	PAASA	Programming Assistant and Systems Administration
45.	PLBR	Plumber
46.	RAC	Refrigerator and Air Condition
47.	S	Satisfied
48.	SDP	Skill Development Programmes
49.	SG	Security Guards
50.	SSC	Secondary School Certificate
51.	SSI	Scale Industries
52.	ST	Stockman Training
53.	T&E	Tailoring &Embroidery
54.	T&FP	Tailoring & Food Processing
55.	TEDP	Technology Based Entrepreneurship Development
		program
56.	TrCPC	Training Cum Production Centre
57.	TUP	Technology Upgradation Programmes
58.	UNID	University Department
59.	Voc	Vocational
60.	WLDR	Welder

PUBLICATIONS

- 1. Skill Development and on the Job Performance: An Evaluation of Perception of Selected Industries in Goa (2014), Published in International Journal of Management and Economics, Vol. I, No. 11, Jan-March, 2014, pp. 14-20.
- 2. Training and its impact on Performance and Productivity: An Employers' Perception (2014), Published in International Journal of Business, Management and Social Sciences, Vol. IV, Issue 4(II), December 2014, pp.52-57.
- Apprenticeship Training and Nurturing of Manpower in Goa: An Empirical Study (2017), Published in Scholars World, International Refereed Multidisciplinary Journal of Contemporary Research, Special Issue, February 2017, pp. 190-196, ISSN No. 2319-5789.
- 4. Impact of Skill Development Programmes on Employment and Self-Employment: A study of Past Students in the State of Goa (2017), Published in Vidhyawarta, International Multilingual Research Journal, Vol-04, Issue-33, September 2017, pp. 41-48, ISSN No. 2394-5303.

1.1 Background of the Study

A systematic Western type of formal education started in the 1940s but for the general masses it began only after 1951, when people took the initiative to build schools in their communities. Formal education was institutionalized chronologically from the pre-primary to tertiary level through structured educational systems. The Higher Secondary Education Board was established for the purpose of preparing students for the world of work, especially for meeting middle-level manpower requirements in different fields, and of preparing students for a general higher education in various professional disciplines.

Literacy and basic education are becoming effective tools to help people in solving problems that they face in their daily life and assist them to live in harmony with their rapidly changing environment. People today need to realize that they can use education to seek vocational skills to improve the quality of life to attain happiness, which is based on each individual's personal experiences. Complete happiness can be achieved when there is no physical or emotional conflict between the persons which plays an important role and enables the individuals to create their own harmony between themselves and today's rapidly changing surroundings. Hence, education results in changing both individual lives as well as that of the entire community.

Non-Formal Education first appears in countries where not everybody has access to the formal education system. It was a community-based program, attractive for the underprivileged groups in terms of accessibility, duration, curriculum and teaching-learning environment. In the countries where everybody has access to the formal education system, NFE is rather a complementary education scheme alongside of the formal system.

The development of manpower is a key concept and challenging task before concern authority through proper education system and training activities in the current scenario. The developing economy does not require only human employees but skilled and trained employees in the various sectors by way of new skills and the training curriculum. This requires a new syllabus, new trainers who can teach new skills and the infrastructure where people can be trained. The demand for specific skills is very high, and it is often not met by the educational institutes due to lack of training institutes, training facilities, education policy or it can be due of availability of trained trainers to train required skills. For instance, in spite of the boom in the construction sector, simple skills like water-proofing, fencing, or scaffolding has shortage of supply.

1.2 Skill Development Programmes in India

Skills and knowledge are the dynamic forces for the growth of economy and social development of the country. Those Countries having higher and better levels of skills can cope-up more effectively to the challenges and opportunities of work. As India moves progressively towards becoming a 'knowledge economy' it becomes increasingly important that the country should focus on advancement of skills and these skills have to be relevant to the emerging economic environment. In order to achieve the twin targets of economic growth and inclusive development, India's Gross Domestic Product has to grow consistently at 8% to 9% per annum. This requires significant progress in several areas, including infrastructure development, agricultural growth coupled with productivity improvements, financial sector growth, a healthy business environment, ably supported by a skilled workforce.

The agriculture sector accounts for about 20% of the economy. The secondary and tertiary sectors account for about 25% and 55% respectively. For the economy to grow at 8% to 9%, it is required that the secondary and tertiary sectors grow at 10% to 11%, assuming that agriculture grows at 4%. In such a scenario, it is obvious that a large portion of the workforce would migrate from the primary sector (agriculture) to the secondary and tertiary sectors. However, the skill sets that are required in the manufacturing and service sectors are quite different from those in the agriculture sector. This implies that there is/will be a large skill gap when such a migration occurs, as evidenced by a shrinking employment in the agriculture sector. This scenario necessitates skill development in the workforce.

The demand for employment in India in the year 2007 is estimated to grow to 360 million. Most of this demand will be for youth equipped with technical and soft skills. It will require training in flexible and varied skills like Critical thinking, Teamwork, Multilingual abilities and Customer orientedness. However, according to the Planning Commission, there are 460 million in the workforce, 60% of whom are between the ages 15 to 35, it may be a good news but the reality is unemployability because they are trained in civil service type of jobs which are characterized by rote learning, a hierarchical structure, a focus on one skill, one language, a rigid and inflexible attitude. The numbers say that a billion plus population with unemployment at 9.1% i.e. 42 million people and by 2010 it will grow to 63 million people. The number of college graduates is expected to rise by 2020 in-between 7.5 million to 10 million annually and in the same period about 10 million new jobs will be created. Although it looks like a

perfect demand-supply balance, 80% of the manpower will be unemployed which is quite an irony. The labour force participation is as low as 460 million of a 1 billion population. Organized employment has been stagnant at 30 million for thirty years (22 million in Public Sector, 8 million in Private Sector). Given that 269 million people are below the poverty line, even the majority of those employed can barely sustain themselves.

In the eleventh five year plan, 19.29 percent of the plan outlay was allocated to the education sector. Today the Indian education system is one of the largest in the world after China and USA. There has been an exponential increase in three indicators of higher education viz., the number of educational institutions, teachers and students. The number of universities increased 19 fold from 25 in 1950 to 467 in 2010; number of colleges increased 37 fold from 700 in 1950 to 25951 in 2010; teacher strength of 700 in 1950 increased to 5.88 lakh with an estimated student enrolment of 136 lakhs students in 2010. There are 1500 research institutions in the country doing research in varied spheres like science and technology, economics, and developmental issues. Every year India produces more than 200,000 engineering graduates, 300,000 post graduates from non engineering colleges, 2,100,000 other graduates and 9,000 doctorates (PhD). There are 5114 vocational schools (ITI's), covering 98 vocations. The duration of these courses is between 1 and half to 3 year. The eligibility for entry is between classes 8th to 12th The ITIs position at present is a very sad story. 1893 vocational schools are run by the government with 4 lakh students and 3218 ITI's are run by the private sector and have 3.46 lakh students.

Skill development and entrepreneurship efforts across the country have been highly fragmented so far. As compared to developed countries, where the percentage of skilled employees is between 60% to 90% of the total workforce, India records as low as 5% of workforce (20-24 years) with formal vocational skills. There is a need for speedy reorganization of the ecosystem of skill development and entrepreneurship promotion in the country to suit the needs of the industry and enable decent quality of life to its population. Today, more than 20 Ministries/Departments run 70 plus schemes for skill development in the country. The various ministries of central government engaged in skill development programmes are Ministry of Agriculture, Ministry of Food Processing, Ministry of Health and Family Welfare, Ministry of Heavy Industries and Public Enterprises, Ministry of Human Resource Development, Ministry of Information Technology, Ministry of Labour, Ministry of Rural Development, Ministry of MSME, Ministry of Khadi and Village Industries, Ministry of

Social Justice and Empowerment, Ministry of Textile, Ministry of Tourism, Ministry of Tribal Welfare, Ministry of Urban Development and Poverty Alleviation, Ministry of HUDCO (construction), Under Department of Women and Child. However, there are gaps in the capacity and quality of training infrastructure as well as outputs, insufficient focus on workforce aspirations, lack of certification and common standards and a pointed lack of focus on the unorganized sector.

Recognizing the need of skill development, skill development programmes were started in 2009 and to coordinate the efforts of all concerned stakeholders in the field of Skill Development and Entrepreneurship, Government of India has notified the formation of the Department of Skill Development and Entrepreneurship on 31st July, 2014 which subsequently led to the creation of the Ministry of Skill Development and Entrepreneurship on 10th November, 2014. The Ministry has strategized a road map to significantly scale up Entrepreneurship Development initiatives across the country. The aim is to build a robust ecosystem for entrepreneurship through advocacy and promotion, providing access to entrepreneurship content, pedagogy and best practices delivered through ICT based e-content facilitated by local faculty and incubator network.

1.3 Skill development scenario in Goa

Goa is known as one of the best tourist destination in the World as well as place for good education. The programs offered by colleges in Goa are undergraduate, post graduate, PhD as well as diploma courses. Both technical and general courses are offered by the colleges with subjects like social science, life science and environment, management studies, engineering and architecture, fine art, music, language, natural science, commerce law, education and medicine. For higher education, colleges in Goa are affiliated to Goa University, which is the only university in this state formed under Goa University Act 1984. There are a total of 53 colleges in the state which are administered by private agencies as well as by the Government. Technical education is run by government through Directorate of Technical education which also includes participation of government as well as private bodies.

There are various institutions involved in skill development programmes but the policy is not properly implemented in the state of Goa. The Dexter report 2013 on skill development in Goa shows that in manufacturing sector there is a high demand for skilled employees in the area like degree and diploma in electric and electronics, mechanic, etc. So also in semi-skilled the demand is for fitter, electrician, electronic

mechanic, machine operator, and helpers in under unskilled category. The availability of trained youth is low in case of semi-skilled and unskilled category such as grinder, programmer, machinist, motor vehicle mechanic, painter, machinist, turner, diesel and generator mechanic, draughtsmen, plastic process operator, storekeeper and helper as unskilled labour. The youth aspiration is high in case of semi-skilled worker in the areas like electrician, electronics, welder, plumber, programmer, machinist, mechanic, etc.

In the service sector there is demand for skill worker in the areas of hospitality and tourism as room attendants, captain, bartenders, chef, stewards, etc. In the transport and logistics demand is for drivers, floor supervisors, etc. whereas, in the real estate masons, helpers, fitters are badly needed. In the household sector demand is for plumber, electrician, etc. The supply of trained youth is low in the areas like captains, bartenders, spa therapist, floor supervisors, masons, plumbers, floor salesmen, backhand assistants, etc. But still the youth aspiration is high in case of captains, receptionist, bartenders, chef, stewards, computer operators, Tele-Callers, and floor sales. The development of manpower is a key concept and challenging task before concern authority through proper education system and training activities in the current scenario. The developing economy does not require only human employees but skilled and trained employees in the various sectors. The demand for skilled labour is very high at national and international market. The Government of India has taken a mission of skill development of 500 million by 2022 for which 1000 crores are allocated in the 2013 as well as 2014 annual budget. Out of this 500 million, National Skill Development Corporation (NSDC) was suppose to train 150 million; Ministry of Labour 100 million, MHRD 50 million and the rest 230 million would be trained by 18 ministries, departments and various other organizations.

Skill is the backbone of employment and self- employment in the study area. The study area is a small state having peculiar background, farma based industries, fast moving goods, consumer industries, etc. which requires different type of skills to provide jobs. In a pilot study it has been observed that there is a skill gap between jobs and job aspirants. Here is the demand and supply side estimation for the year 2012-2017 and 2017-2022 as per Dextor's Report submitted to Government of Goa in the year 2013 for the study conducted on skill development in the state of Goa. The total demand for all the skill levels in all the three sectors Agriculture, Manufacturing and Service is 6290, 12163 and 21194 for the year 2012-2017 and for the period 2017-2022 the total estimated demand for skilled workers is 6944, 15658 and 26714 respectively.

1.4 Problem of the Study

Literacy in India is the key for socio-economic progress although there is a high literacy rate in Indian grew from 12% in 1947 to 74.04% (India) and 87% Goa (2011) which is greater than six to seven fold improvement respectively, the level is well below the world average literacy rate of 84% of other nations, India currently has the largest illiterate population.

It is important that there is a need to impart not only formal education to the students enrolled in the higher secondary graduate and post-graduate level but also to include skill development training programmes to choose their career in the form of employment and self-employment. The industries that have employed employees required to be re-trained to upgrade their present skill for better productivity and efficiency at the work place.

In India 12 million people are expected to join the workforce every year, and the existing skill development capacity of about 3.4 million, it is thus required to enhance the skilling and technical education capacity to about 15 million. The unemployment, dropouts and lack of skilled labours are important aspect in our society. In some of the sectors where the requirement of skill is very high but no Ministries are involved in development skills for instance the construction sector, consumer and retailing sector, IT services, finance sector etc. Even though drop-out rates in Goa shows a decreasing trend, the greatest concern is that on an average 40-50 % students are drop-out till they reach from primary level to graduation level. The rate of skilled workforce of India is only 3.5% which is very low as compared to other countries in the world. Students pass out of the colleges as standardized graduates with no solid employable skills and only 10 % of the fresh graduates and 25 % of engineering and MBA graduates are capable of getting employed with employability skills. Thousands of students who ultimately graduate from the formal educational system are unskilled.

Therefore, this research will be explorative in nature. Very little research studies have been undertaken on the topic and therefore attempts will be made to probe into these issues. The researcher has focused on a. required skills, b. available skills, c. skill gap analysis, d. evaluation of skill development programmes, e. skill development programmes and its impact on employment and self employment, etc. The researcher has focused on training providers, students, training topics, training trades, etc. basic variables for investigating impact of skill development programmes on employability and self employability in the state of Goa.

1.5 Objectives of the Study

The topic "An evaluation of Skill Development Programmes and its impact on Employment and Self-employment: A study with reference to State of Goa" was carried out with the purpose of following objectives:

- 1. To evaluate the various components and the present scenario of Skill Development Programmes in the state of Goa.
- 2. To find the perspectives of Institutional Heads for Skill Development Programmes conducted in the state of Goa.
- 3. To study the attitude of On-going students towards Facilities available and Curriculum in the state of Goa.
- 4. To assess the contribution of Skill Development Programmes conducted by various skill training institutes and its impact on Employment and Self-employment in Goa.
- 5. To identifying the gap between Human Resource Requirements by industries and the Availability of Human Resources in the state of Goa.
- 6. To compare the perceptions of different stakeholders regarding Skill Development Programmes in the state of Goa.

1.6 Hypothesis

For the purpose of finding out the answers to each objective, information was collected on various aspects from different stakeholders and a set of separate hypothesis and subhypothesis were formulated to test the validity of the data collected whereas no hypothesis was framed for the first objective. Further main hypothesis and subhypotheses were analyzed with the help of various statements and tested with the help of statistical tools.

HO: Perspectives of Institutional Heads for Skill Development Programmes is favourable.

H0: Attitude of On-going students towards Facilities available and Curriculum is satisfactory.

H0: Impact of Skill Development Programmes on Employment and Self-employment is insignificant.

H0: Requirement of Human Resources to the Availability of Manpower is adequate.

H0: Perceptions of different stakeholders regarding Skill Development Programmes is not significant.

A brief overview of the above hypothesis which is being tested with the help of various statement and statistical tools is shown in the following table 1.1 below;

Table 1.1: Table showing the hypotheses and its various aspect of testing

#	Aspects of Skill development Programmes Tested based on the Objectives	Gender Locality (M / F) (U / R)	District (N / S)	Taluka (12)	Stream (10)	
1	Opinions of Institutional Heads	(171 / I / J (U / K)	(11/3)	(14)	(10)	
1	1) Students acquire enough job skills after the completion of the course. 2) Training/internship provided is sufficient for them to place on the job. 3) Confident that the trained students are competent to take up the job. 4) Curriculum framed by the concern authority is relevant to the job required by the industries. 5) Changes in course should be made to meet the expectation of the employer. 6) Need to proper implementation of skill development mission in the state. 7) Skill development courses are better than general courses to get jobs. 8) Skill courses has very much scope in the present employment field. 9) Students with skill courses are more competent than the general stream.	The second objective is being tested based on institutional heads categorized into five groups such as Gender, Locality, District, Talukas and Streams with the help of ten aspects of skill development programmes. The statistical tool used were percentage, mean, independent sample t-test and one way ANOVA to test the statements.				
#	10) Trained students get job soon after completion of course. Aspects of facilities available and curriculum tested based on the Objective	Gender District	Folulzac	Stream	Trades	
	•	(M/F) (N/S)	(12)	(10)	(41)	
2	Attitude of ongoing students					
	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course	The third objectiongoing studen groups such as Streams, and Tra aspects of fourriculum. The percentage, mear and one way AN	ts categ Gender, des with acilities statistica , indepen	orized in District, the help available al tool undert san	Talukas, of twelve ble and sed were apple t test	
	12) Overall Curriculum of the course					
#	Aspects of impact on employment and self-employment	Streams (10)	Tra (4)		Reasons (4)	
3	Status of Past students 1) Self- Employment and Job Employment	The fourth object				
	Self-Employment (Full time/part time) Job-Employment (Full time/Part time)	on past students categorized into thre groups such as Streams, trades and Reason for joining with the help of three aspects to check impact on employment. The statistical tool used were cross tabulation ANOVA, Coefficient test, Multinomia Logistic Regression test, Chi-square test and Post hoc test to test the statements.			aspects to nt. The abulation, altinomial uare test	
#	Aspects of requirement and Availability of human resource	Skills (4)		Qualifi (10		
4	Gap between Requirement and availability	Ì				
	1) Specialized skills 2) Highly Skilled 3) Semi Skilled 4) Minimally Skilled 5) NSQF certificate Holders 6) Vocational certificate Holders 7) PG Degree holders 8) ITI Certificate holder 9) Diploma Holders 10) HRDFS Technical Students 11) EDP Trainees 12) Security Guards 13) Tailoring and Embroidery trainees 14) Apprentices	The fifth objective is being tested based of industrialists categorized into two groups such as skills and qualifications with the help of fourteen aspects (four skills and tequalifications) to check the requirement an availability of human resource in the industries. The statistical tool used were group statistics and independent sample test to test the statements.				
#	Aspects of perceptions concern to skill development programmes	All Respondents	2			
5	Perceptions of stakeholders 1) Introduction of skill development programmes 2) Reason for failure 3) Responsibility of failure	The sixth objecti all stakeholders group with the check the pe development pre tool used were ANOVA and P statements.	ve is bein categoriz help of erception ogramme cross tab	three a towar towar es. The oulation,	one single spects to ds skill statistical one way	

The results of the above hypothesis testing are given in the succeeding chapters.

1.7 Research Methodology

This research will be explorative in nature. Hardly any research studies have been undertaken on this topic and therefore attempts will be made to probe into these issues. The researcher has studied the "An Evaluation of Skill Development Programmes and its impact on Employment and Self Employment: A Study with reference to State of Goa" Research methodology is divided into five sections i.e. Section I contains Data Sources, Section II is on Period of the Study, Section III is on sampling method, Section IV Sample Selection and collection, Section V is on Statistical tools, techniques and models used for testing hypothesis in the study.

1.7.1 Data Sources and Data Collection

The data required for the study was collected from primary as well as secondary sources as there was a scope for both types of data in the study. The primary data was collected on multistage random sampling method from various Institutional Heads, Present Students, Past students and Industrialist through a structured questionnaire and face to face interview. The secondary sources include books, journals, handbooks, newspapers, circulars, bulletins, working papers, reports, websites and Government departments.

1.7.2 Scope of the Study

The time frame chosen for the study was limited to the state of Goa for a period of 5 years. The present study is based on last 5 years out of which 4 years are considered as the past years i.e. 2011-12, 2012-13, 2013-14 and 2014-15 whereas 2015-16 is taken as present year for the purpose of analysis. A sample of Educational institutions, students and training industries was selected from High schools, Higher Secondary Schools, Post graduation institutues offering one term internship, Industrial Training Institutes, Human Resource Development Foundation Society, Agnel Entrepreneurship Development Programmes, Training cum Production Centre, Industrial units, Incubation Centre and Government Departments in Goa. An attempt was made to collect equal number of sample from institutions, trades, districts, talukas and gender wise sample was collected to analyze, evaluate and find impact of skill development programmes on employment and self-employment in the state of Goa.

1.7.3 Sampling Method

The various statistical methods are used to select sample are Salant and Dillman, Taro Yahman, Raosoft, Wald method for the binomial distribution, etc. are used by the researchers across the world. Among the four different methods the researcher used Priscilla Salant and Don A. Dillman method to determine the sample size for the study. A brief description of the methods is as follows;

1.7.3.1 Priscilla Salant and Don A. Dillman method

Table 1.2 Priscilla Salant and Don A. Dillman

Split-□□	± 3% Sai	npling error	± 5% Samp	ling error	± 10% Sampling error		
Population	50/50 split	80/20 split	50/50 split	80/20 split	50/50 split	80/20 split	
100	92	87	80	71	49	38	
250	203	183	152	124	70	49	
750	441	358	254	185	85	57	
1,000	516	406	278	198	88	58	
5,000	880	601	357	234	94	61	
10,000	964	639	370	240	95	61	
25,000	1,023	665	378	234	96	61	
100,000	1,056	678	383	245	96	61	
1,000,000	1,066	682	384	246	96	61	
100,000,000	1,067	683	384	246	96	61	

The above table is used to select sample size. A "50/50" split means the population is relatively varied. An "80/20" split means the population is less varied; most people have a certain characteristic, a few do not. Unless the split is known, it is best to be conservative.

1.7.3.2 Taro Yahman method

The formula used to calculate sample size is as follows;

$$n = N / 1 + N(e)^2$$

Whereby N= Total Population

e= Sampling Error

1.7.3.3 Raosoft method

The sample size calculation is done by using a simple calculator by using Raosoft calculation method as;

$$x = Z(^{c}/_{100})^{2}r(100-r)$$

$$n = {^{Nx}/_{((N-1)E}}^{2}_{+x})$$

$$E = Sqrt[^{(N-n)x}/_{n(N-1)}]$$

The sample size can also be calculated by entered data as per request of the software like Margin of Error, level of confidence, population size and response distribution which automatically calculate sample size required for the study.

1.7.4 Sample Size

In this study the researcher has covered 2 districts, 12 talukas, 81 institutes, 503 present students, 624 past students and 72 industries and start-up companies. The researcher has used appropriate methodology for the sample selection, data collection, data analysis and interpretation. The researcher has interacted with students, trainers, government officials, industrial people, HR managers, head of the institutes, etc. A survey method was used to collect data from the various stakeholders through a structured close ended questionnaire to conduct analysis. The sample size is calculated based on Salant and Dillman at 10% error 50/50 split i.e. upto 250 population = 70 (70/235*100=30%). A sample was collected more than the required sample (11) for the study. The summary of data selected and collected is given below in table 1.3;

1.7.4.1 Selection of Institutional Heads

Table 1.3 Summary of Head of the Institution/Department

Sr. No	Institutions/ Industries	Total No. of Institutes in the State	Actual No. of Institutions engaged in skill Dev. Prog.	Total No. of institutions selected for study	No. of institutes collected	Excess (+) Deficit (-)
1	High Schools	395	75	21	24	+3
2	HSS/ Vocational studies	105	49	14	16	+2
3	University Departments	03	03	01	01	
4	ITI's	14	14	05	06	+1
5	HRDFS Technical Institutes	53	53	16	18	+2
6	EDP	01	01	01	02	+1
7	GHRSDC	01	01	01	01	
8	Training Cum Production	25	25	06	07	+1
9	Apprenticeship Training/Start-up	06	06	02	2	-
10	Other Initiatives by State	08	08	03	04	+1
	Government					
	TOTAL	611	235	70 (30%)	81	+11

(Source: Government departments)

1.7.4.2 Selection of Students

The students were selected from 10 different streams as ongoing and past students which are shown in the below tables. The NSQF trades were started in the year 2014-15 with 15 trades in the Government School only and only four trades namely IT, Healthcare, Automobile and Retail were introduced for Xth Std. A total of 1200 students were enrolled for 2014-15 and 2015-16 which were considered as total population for the study. The table 1.4 below shows the classification of the students;

Table 1.4 Classification of NSQF Students (trade wise) in HS

Sr.N	Names of Skill Courses/		No. of Studer		TO	TAL	
0	Trades	201	14-15	201	5-16		
		IX	X	IX	X	IX	X
1	IT/ITES	270	141	262	137	532	278
2	Healthcare	582	456	00	00	582	456
3	Automobile	105	45	467	276	572	321
4	Retail	61	42	198	103	259	145
5	Media and Entertainment	68				68	
6	Agriculture	174				174	
7	Physical Education	89		47		136	
8	Construction	44		49		93	
9	Telecommunication	45		39		84	
10	Travel and Tourism	178		31		209	
11	Apparel	38		82		120	
12	Logistics	46		75		121	
13	BFSI			32		32	
14	Beauty and Wellness			23		23	
15	Automotive	28	-	31	-	59	-
	TOTAL	1728	*684	1336	*516	3064	*1200

(Source: Department of Education)

The vocational courses in Higher Secondary Schools were started before 2011-12. A total of 13172 students were enrolled from 17 trades for the last 5 years (2011-12 to 2015-16) and they have been considered as total population for the study. The table 1.5 below shows the classification of the students;

Table 1.5 Classification of Vocational Students (trade wise) in HSS

Sr.	Names of Skill Courses/ Trades			No. of stude	nts		Total
No		11-12	12-13	13-14	14-15	15-16	
1	Catering and Restaurant Management	564	513	455	617	600	2749
2	Hare Care Assistant	47	49	53	111	88	348
3	Office Secretary ship Stenography	469	451	425	494	384	2223
	Auto Engg. Technology	209	200	188	206	200	1003
5	Commercial Garments Designing and Making	294	296	254	310	304	1458
6	*Insurance	95	91	73	111	89	459
7	*Accountancy and Auditing	215	174	186	191	172	938
8	*Computer technique	279	231	221	258	227	1216
9	Bakery and Confectionary	78	64	66	73	74	355
10	MREEA	197	161	202	224	220	1004
11	Travel and Tourism	57	51	44	72	42	266
12	*Agriculture					20	20
13	Horticulture	57	32	55	87	68	299
14	Floriculture				13		13
15	Electronic Technology	128	99	123	159	135	644
16	Industrial management	14	22	11	13	15	75
17	Marketing and Salesmanship	33	18	18	12	21	102
TOT	AL	2736	2452	2374	2951	2659	13172

(Source: Department of Education)

The University departments offering one term internship were only considered for the study. A total number of 750 students were enrolled from 3 Departments for last 5 years (2011-12 to 2015-16) were taken as a total population for the study. The table 1.6 below shows the classification of the students;

Table 1.6 Classification of University Students

Sr.No	Names of Trades		No. of	Students Er	ırolled		TOT
		11-12	12-13	13-14	14-15	15-16	
1	MCA	30	29	60	59	60	238
2	MFS	25	40	41	42	61	209
3	MBA	61	63	60	60	59	303
TOTAL		116	132	161	161	180	750

(Source: Goa University)

The ITI offering various skills were considered for the study. A total number of 16624 students were enrolled from 32 trades for last 5 years (2011-12 to 2015-16) were taken as a total population for the study. The table 1.7 below shows the classification of the students;

Table 1.7 Classification of ITI Students under Craftsmen Training

Sr.	Name of Trades			Students E		0	Total
No		11-12	12-13	13-14	14-15	15-16	
1	Electrician	381	370	341	342	391	1825
2	COPA	325	328	326	318	327	1624
3	Plumber	253	271	252	281	289	1346
4	Sewing Technology	148	143	150	136	143	720
5	COE Fabrication BBBT	163	158	81	56		458
6	COE Fabrication & Fitting	23	56	30	20	21	150
7	Welder	169	177	160	160	186	852
8	Fitter	185	189	182	197	213	966
9	Mechanic Motor Vehicle (Petrol)	158	169	149	157	165	798
10	IT and Electronic System Maintenance/Desktop	46	61	56	46	56	265
11	Electronic Mechanic	139	148	127	144	146	704
12	Secretarial Practice	20	17	15	21	17	90
13	Diesel Mechanic	237	291	256	241	278*	1302
14	Hair and Skin Care	51	66	52	48	51	268
15	Turner	20	24	24	32	41	141
16	Hospitality mgt (BBBT) (Food Production, Front office	257	247	225	222	258	1209
	management, F&B, House keeping)						
17	Instruments mechanic	45	40	40	45	45	215
18	Draughtsman mechanical	16	16	16	16	16	80
19	Draughtsman civil	40	40	40	40	44	204
20	Stenography and Secretarial assistant	20	20	20	20	20	100
21	Wireman	15	16	16	16	18	81
22	Repair and Maintenance (Domestic appliances)	32	30	30	32	32	156
23	Repair and Maintenance (HT and LT)	30	30	30	30	34	154
24	DTPO	47	43	54	48	55	247
25	COE (automobile –BBBT)	220	196	194	170	209	989
26	Mechanic (Refrigerator and Air condition	50	64	86	80	96	376
27	Steward	14	11	16	18	25	84
28	Data Entry Operator	29	28	25	26		108
29	IT(Hardware repairer, Web designing, Computer Networking,)	194	183	168	136	120	801
30	Software testing/AOCP					29	29
31	RAC	35	29	31	24	48	167
32	Carpenter	20	25	25	20	25	115
TOT	AL	3382	3486	3217	3142	3398	16624
		/0		irectorat	60 (· .	

(Source: Directorate of Craftsmen Training)

The HRDFS offers 41 skill trades which were considered for the study. A total number of 5429 students were enrolled for the last 5 years (2011-12 to 2015-16) were taken as a total population for the study. The table 1.8 below shows the classification of the students;

Table 1.8 Classification of HRDFS students

Sr.	Names of Trades	11-12	12-13	13-14	14-15	15-16	TOT
No 1	Computer Application	130	174	218	260	154	936
2	Business Application	92	100	141	144	96	573
3	Desk top Publishing /Printing Technology	48	28	73	43	40	232
4	Computer Hardware and Networking	21	32	47	16	9	125
_	Engineering		32	.,	10		123
5	Turner	8	7	11	13	17	56
6	Plumber	9	4	8	10	18	49
7	*Home Nursing	113	120	98	169	140	640
8	Electrician	20	41	41	21	24	147
9	Advanced Refrigeration and Air conditioning	33	53	41	37	51	215
10	Computer Operator and Programmed Assistant	72	69	86	64	27	318
11	Hotel/Restaurant Mananagement. and Catering	43	61	52	49	51	256
	Technology						
12	Tailoring	29	33	41	53	15	171
13	Automobile	14	59	44	41	49	207
14	Beautician	10	14	15	23	11	73
15	Fitter	10					10
16	Diploma in Medical Laboratory Technology	08	21	10	15	18	72
17	Diploma in ECG technology	3	02	3	6	6	20
18	Diploma in X-ray Technology		8	3	15	8	34
19	Diploma in CT Scan /Ultrasound Technology	2	2	1	1		6
20	Diploma in Hospital Mgt. Technology		4	1			5
21	Diploma in Operation Theatre Technology	2		6	4	3	15
22	Diploma in Renal Dialysis Technology	6	6		4		16
23	Diploma in Nursing Assistant Technology			8	5	1	14
24	Diploma In Ophthalmic Technician				10	6	16
25	Diploma in Medico-Lab Technician				20	10	30
26	Electrician		20			24	44
27	Fashion Designing		9	3			12
28	Food and Beverage Service	17	45	60	61	32	215
29	Food Production	31	27	47	52	49	207
30	Travel and Tourism Mgt.	20	30	13	10	32	105
31	Maintenance construction mining and Road	51	50	16			117
	Equipments			10	2.5		
32	Front office/Office Mgt.	7	8	12	26	32	85
33	House Keeping	2	8	14	20	7	51
34	Bakery		17	14	21	12	64
35	Travel and Tourism Mgt.	20	19	10	10	22	81
36	Networking and Hardware		5				5
37	Bartender		16				16
38	Certificate in Montessori Teaching		24	50	48	41	167
39	HMCT			12	7		19
40	Web Designing/Film animation			5			4
41	COPA				1		1 7420
TOT	AL	822	1116	1204	1282	1005	5429

(Source: Directorate of Craftsmen Training)

The EDP offers 6 trades which were considered for the study. A total number of 751 students were enrolled for last 5 years (2011-12 to 2015-16) which were taken as a total population for the study. The courses with 4 weeks (SDP), 3 weeks (TUP), 3 days (EAC) 10 days (EDP) and 6 weeks (TEDP) are only considered for the study. The table 1.9 below shows the classification of the EDP students;

Table 1.9 Classification of trainees under Agnel EDP Institute, Verna

Sr	Programme	Funded by			Enrolment	for the ye	ar	
No			11-12	12-13	13-14	14-15	15-16	TOTAL
1	Entrepreneurship Awareness Camp	Directorate of Industries trade and Commerce Govt. of Goa	24	38	33	56	56	207
2	Entrepreneurship Development Programme		21	22	27	36	26	132
3	Technology Based Entrepreneurship Development programm		23	28	25	25	25	126
4	Technology Upgradation Programme		36	24	25	27	21	133
5	Skill development Programme		-	13	-	21	16	50
6	Entrepreneurship Awareness Camp (EDP)	PMEGP	16	28		25	34	103
TOTA	ıL .		120	153	110	190	178	751`

(Source: Agnel Entrepreneurship Development Institute, Verna)

The GHRSDC offers 2 trades out of which one trade was considered for the study. A total number of 1787 trainees were enrolled for last 2 years (2014-15 and 2015-16) which were taken as the total population for the study since the training was started only from 2014-15. The table 1.10 below shows the classification of the trainees;

Table 1.10 Classification of Trainees under GHRSDC

Sr.	Types of Training	Place of Training		No. of	Trainees		TOTAL
No			14	I-15	1	5-16	
			Male	Female	Male	Female	
1	Security Guards Batch-I	Police Training School Valpoi	403				403
2	Security Guards Batch-II	Police Training School Valpoi	367	101			468
3	Security Guards	Police Training School Valpoi		104			104
4	Security Guards	Police Training School Valpoi	11	18			29
5	Security Guards	Indianeye , Belgaum	286		378	119	783
6	TOTAL		1067	223	378	119	1787

(Source: Directorate of skill Development and Entrepreneurship)

The TrCPC offers 3 trade which were considered for the study. A total number of 3919 trainees were enrolled for last 5 years (2011-12 to 2015-16) were taken as a total population for the study. The table 1.11 below shows the classification of the trainees;

Table 1.11 Classification of trainees under Training cum Production Centre.

Sr.	Names of Trades		No. of Trainees							
No		2011	2012	2013	2014	2015	TOTAL			
1	Tailoring and Embroidery	1365	1593	540	113	285	3896			
2	Powerloom					13	13			
3	Handloom Weaving					10	10			
TOT	TOTAL		1593	540	113	308	3919			

(Source: Directorate of Craftsmen Training)

The Apprenticeship training offers 39 trades which were considered for the study. A total of 1486 trainees were enrolled for last 5 years (2011-12 to 2015-16) which were taken as a total population for the study. The table 1.12 below shows the classification of the trainees;

Table 1.12 Classification of Apprentices/Trainees (trade wise)

Sr.	Name of the Trades	No. of Trainees/Apprentices					
No		11-12	12-13	13-14	14-15	15-16	TOTAL
1	Fitter	26	35	35	30	52	178
2	Turner	-	-	1	-	-	1
3	Machinist	9	5	4	4	14	36
4	*Welder	3	7	6	16	1	33
5	Mechanic Diesel	3	2	10	3	4	22
6	Mechanic Motor Vehicle	2	10	5	6	11	34
7	*Electrician	23	27	53	30	43	176
8	Instrument Mechanic	7	3	11	4	9	34
9	Mechanic (RA C)	9	8	16	15	16	64
10	*Broiler Attendant	-	1	4	2	3	10
11	*Laboratory Assistant	26	15	24	27	37	129
12	Attendant Operator (Chemical)	9	2	2	-	-	13
13	Mechanic Electronics	7	24	22	15	16	84
14	Plumber	-	2	-	-	1	3
15	*Food Production	28	31	33	38	27	157
16	*Steward	32	31	39	46	46	194
17	*House Keeping	19	7	11	10	13	60
18	Draughtsman (Civil)	-	1	-	-	2	3
19	Draughtsman (Mechanical)	-	-	-	-	1	1
20	Carpenter	-	_	_	-	_	_
21	IT and ESM	-	6	4	9	6	25
22	Lineman/Wireman	-	1	1	-	2	4
23	Marine Diesel Engine Mechanic	-	-	-	-	-	-
24	Auto Electrician	-	-	-	-	2	2
25	Front Office Assistant / Receptionist	6	3	5	9	2	25
26	Health Slimming Assistant	-	-	-	-	-	-
27	PAASA	10	5	19	5	21	60
28	Desk Top Publishing Operator	-	2	-	3	-	5
29	Beautician	-	-	-	-	-	-
30	Mechanic Tractor	-	-	-	-	-	-
31	CNC Operator	8	4	5	9	2	28
32	*PLC System operator	10	1	16	8	9	44
33	CAD/CAM Operator	-	-	-	-	-	-
34	Mech. Automobile (Advance Petrol Engine)	3		-	-	3	6
35	Mech. Automobile (Advance Diesel Engine)	1	2	3	-	5	11
36	COPA	1	21	-	-	1	23
37	Mech. Denting, painting and Welding	-	-	3	6	-	9
38	Bakery and Confectionery	-	-	1	-	1	2
39	Tig/Mig Welder	-	-	2	5	3	10
TOTA		242	256	335	300	353	1486

(Source: Directorate of Craftsmen Training (Apprenticeship)

The various Government departments are involved in offering OITSG out of which six departments were considered for the study who are involved in skill development programmes. A total of 2083 trainees were enrolled for last 5 years (2011-12 to 2015-16) were taken as a total population for the study. The table 1.13 below shows the classification of the trainees;

Table No. 1.13 Classification of trainees under other initiatives taken by the Government

Sr.	Names of Trades	No. of Trainees					
No		11-12	12-13	13-14	14-15	15-16	TOTAL
1	Dir. of Agriculture		257	582		265	1104
2	Dir. of Fisheries	82	96	82	132	120	512
3	Dir. of Tourism				10		10
4	Dir. of Animal Husbandry	24	39	31	20	28	142
5	Dir. of IT	03	05	02	03	03	16
6	Dir. of Urban Development		40	40	80	139	299
Tota	l	109	437	737	245	555	2083

(Source: Directorate of Agriculture, Fisheries, Tourism, Animal Husbandry, IT and Urban Development)

From the data cited above, table 1.14 shows the summary of ongoing students collected for the study based on ten streams. The required sample size is 370 (5000 to 10,000 population) based on Salant and Dillman method at 5% error 50/50 split (370/9898*100 = 3.74%). But, the actual sample collected was 503 which is more than the required sample.

Table 1.14 Summary of Ongoing Students collected (Stream wise)

Sr.No	Institutions/ Industries	Actual No. of Present students	No. of present Students selected	No. of present students collected	Excess (+) Deficit (-)
1	Sch	516	21	45	+24
2	VS	2659	100	125	+25
3	UNID	180	8	35	+27
4	ITI's	3398	127	130	+3
5	HRDFS	1005	39	56	+17
6	*EDP	178	7	12	+5
7	GHRSDC	497	19	21	+2
8	TrCPC	308	12	21	+9
9	ApprT	353	16	28	+12
10	OITSG	555	21	30	+9
TOT	AL STUDENTS	9898	370 (3.74%)	503	+133

The below table 1.15 shows the summary of Ongoing students collected for the study based on 41 trades from 10 different streams.

Table 1.15 Summary of Ongoing Students Collected (Trade Wise)

Sr.No	Institutions/ Industries	No. of present students collected
1	HS (NSQF)	•
I	IT	16
II	Automobile	24
III	Retail	05
	Total	45
2	HSSC (VS)	
I	CRM	11
II	OSS	15
III	Auto Engineering Technology	19
IV	Commercial Garments	18
V	Insurance	12
VI	Auditing and Accounting	10
VII	Computer Techniques	20
VIII	MREEDA	20
V 111	Total	125
3	UNID	123
I	MCA	24
II	MFS	11
- 11	Total	35
4	ITI's	33
I	Electrician	08
II	COPA	18
III	Plumber	24
IV	Welder	16
V		
	Fitter	23
VI	Diesel Mechanic	20
VII	Hospitality Management	17
VIII	Electronics	04
-	Total	130
5	HRDFS	10
I	Computer Application	10
II	Business Application	10
III	DTPO	10
IV	Home Nursing	10
V	Air condition	09
VI	Beautician	07
	Total	56
6	EDP	12
_		
7	GHRSDC	21
8	TrCPC	21
_		
9	APPRENTICESHIP TRAINING	
I	Welder	3
II	Fitter	5
III	Diesel Mechanic	3
IV	Electrician	6
V	Lab Assistant	2
VI	Electronic Mechanic	3
VII	Plumber	2
VIII	CNC Operator	4
	Total	28
10	OITSG	
I	Agriculture	10
II	Animal Husbandry	10
III	Urban development	10
	Total	30
	Grand Total (1-10)	503

The table 1.16 shows the summary of Past students collected for the study based on 10 streams. The required sample size is 383 from (25,000 to 1,00,000 population) based on Salant and Dillman at 5% error 50/50 split is 383 (383/37553*100 =1.02%.). But, the actual sample collected was 624 which is more than the required sample.

Table 1.16 Summary of Past Students Collected (Stream wise)

Sr.No	Institutions/	Actual No. of Past	No. of past Students	No. of past	Excess (+)
	Industries	students (4 years)	selected	students collected	Deficit (—)
1	Sch	684	7	33	+26
2	VS	10513	107	173	+66
3	UNID	570	6	25	+19
4	ITI's	13227	134	157	+23
5	HRDFS	4424	45	67	+22
6	*EDP	573	6	8	+2
7	GHRSDC	1290	13	25	+12
8	TrCPC	3611	37	38	+1
9	ApprT	1133	12	38	+26
10	*OITSG	1528	16	60	+44
TOTAL	1	37553	383(1.02%)	624	+241

The below table 1.17 shows the summary of Past students collected for the study based on 43 trades from 10 different streams.

Table 1.17 Summary of past students (course wise)

Sr.No	Institutions/ Industries	No. of present students collected
1	HS (NSQF)	
I	IT	12
II	Healthcare	08
II	Automobile	08
III	Retail	05
	Total	33
2	HSSC (VS)	
I	CRM	16
II	OSS	36
III	Auto Engineering Technology	16
IV	Commercial Garments	12
V	Insurance	36
VI	Auditing and Accounting	10
VII	Marketing and Salesmanship	07
VIII	Computer Techniques	28
IX	Travel and Tourism	12
	Total	173
3	UNID	
I	MFS	11
II	MCA	14
	Total	25
4	ITI's	
I	Electrician	17
II	COPA	11
III	Plumber	40
IV	Welder (COE)	12
V	Fitter	15
VI	Diesel Mechanic	14
VII	Hotel management	32
VIII	Electronics	16
	Total	157
<u> </u>		

5	HRDFS	
I	Computer Application	10
II	Business Application	13
III	DTPO	17
IV	Home Nursing	10
V	Air condition/refrigerator	09
VI	Beautician	08
	Total	67
6	EDP	08
7	GHRSDC	25
8	TrCPC	38
9	APPRENTICESHIP TRAINING	
I	Diesel Mechanic	2
II	Welder	4
III	Electrician	5
IV	Lab Assistant	7
V	CNC Operator	9
VI	PLC Operator	5
VII	Hotel Management	4
VIII	Fitter	2
	Total	38
10	OITSG	
I	Agriculture	20
II	Animal Husbandry	20
III	Urban development	20
	Total	60
	Grand Total (1-10)	624

1.7.4.3 Selection of Training Industries

Industrial units and Start-up companies engaged in training were selected for the study for last 5 years from the state of Goa. Dexter's Report 2013 shows that there are **7,813** units in the State of Goa which consist of **4754** units (i.e. 4,654 (SSI) and 100 (L&MS) units) are located in North Goa District and **3059** units (i.e. 2967 (SSI) and 92 (L&MS) units) are located in South Goa. Only few industries are identified by the Directorate of Craftsmen training that offers apprenticeship training in the state of Goa. The below table 1.18 shows taluka wise industries offering apprenticeship training;

Table 1.18 Classification of Industries under Apprenticeship training

Sr.No.	Taluka	No. of Institute under Apprenticeship No. of industrial units		
		Training in the state	Apprenticeship training in the state	
1	Pernem	0	0	
2	Bardez	18	18	
3	Tiswadi	14	14	
4	Bicholim	9	9	
5	Sattari	1	1	
6	Ponda	13	13	
Total N	orth	55	55	
7	Salcete	32	32	
8	Quepem	1	1	
9	Mormugao	6	6	
10	Sanguem	0	0	
11	Dharbandora	0	0	
12	Canacona	1	1	
Total So	outh	40	40	
TOTAL		95	95 (100%)	

The below table 1.19 shows taluka wise Start-up Companies engaged in skill training programmes;

Table No. 1.19 Classification of Start-up Companies

Sr. No.	Taluka	No. of Start-Up Companies in the state	No. of Start-Up Companies offer Training	
Total North		00	0 (0%)	
1	GITIC	17	17	
2	CIBA	46	46	
3	MANOVIKAS	07	07	
4	BITS	09	09	
5	GEMS	0	0	
Total South		79	79	
TOTAL		79	79	

(Source: Incubation Centres)

Only those industries which accept apprentices for training in their units under Apprenticeship training through Directorate of Craftsmen Training were only considered for the study. Out of 95 industrial units 40 units (i.e. 42%) were selected for the study from north and south district of Goa for last 5 years. So also start-up companies from different incubation training centers were selected for the study. There are 5 incubation centres in Goa namely GITIC, CIBA, MANOVIKAS, BITS Pillani and GEMS. Out of the 5 Incubators 3 centres were selected and the sample respondents were collected from those incubations centres to serve the purpose namely GITIC, CIBA and MANOVIKAS.

1.7.4.4 Summary of Industries Collected (Appenticeship and Start-Up Companies)

The below table 1.20 shows the summary of Industries and Start-up Companies selected for the study based on Salant and Dillman method at 10% error, 50/50 split which is upto 250 population the sample size can be considered as 70, (70/174*100=40%).

Table No. 1.20 Selection of sample respondents (Industrialist/Start-up companies)

Sr. No (1)	Industries (2)	Actual No. of Industries located (3)	Actual No. of Industries involved in training (4)	Total No. of Industries Selected (5)	No. of industries collected (6)	Access (+) Deficit (—)
11	Industries	901	95	38	40	+2
12	Start-ups	79	79	32	32	
Total Units		980	174	70 (40%)	72	+2

1.8 Secondary Data

The secondary data was collected from books, magazines, reports, government departments, Websites, Educational institutions, various government Directorates, etc.

1.9 Significance of the study

- 1. The study will help to identify the number of educational institutions practicing skill development programmes in Goa and accordingly implement required courses in the institution.
- 2. It will help the educational departments to take suitable measures to introduce necessary programmes for the students at various levels to control drop-out rates.
- 3. The study will help the various training institutes and directorates to introduce different types of skill development courses in the state.
- 4. It will help various stakeholders, industries and sectors to impart training for their employees to upgrade their skills and to improve their productivity.

1.10 Statistical Tools and Techniques

The data collected was analyzed by using suitable statistical technique such as Descriptive statistics, Cross tabulation, Independent Sample t-test, ANOVA test, Multinomial Logistic Regression, Pearson's Coefficients, Chi-square test, Post Hoc test, etc. The statistical package used to analyze the data was SPSS.

1.11 Limitations of the Study

- The data of students was collected from 10 different streams of imparting skills in Goa from high school level to university. The uneducated trainees from TrCPC, OITSG and other streams were considered for the study so the questionnaire was made as simple as possible to their level of understanding and at the same time to serve the purpose of study.
- 2. Some of the students could not fill the questionnaire properly whereby those questionnaires were discarded and not included in the statistical data.
- 3. HR mangers of industries were reluctant to provide required information as they took long time to supply required information through questionnaire and even some managers refused to give information.
- 4. The study is limited to only 10 streams, 41 trades for ongoing students and 43 trades for past students.

1.12 Chapterization Scheme

Chapter I: Introduction

The first chapter "Introduction" deals with overall introduction of skill development at national and at the state level. It consist of background, skill development status in India, skill development scenario in the state of Goa, problem of the study, Objectives, Hypothesis, Sample size, Research methodology, research techniques for data analysis and limitations of the study.

Chapter II: Literature Review

The second chapter covers review of literature in this regard. The chapter covers reviews from research articles, journals, books, M.Phil dissertations, PhD Thesis and internet sources.

Chapter III: Skill development programmes: An overview

The third chapter covers different skill development programmes undertaken in a sample area. It includes the basics of skill development in the sample area as well as in India. It is just an overview and present status of skill Development programmes based on institutions, trades and enrolment of students in the state of Goa.

Chapter IV: Perspectives of Institutional Heads for Skill Development Programmes in the State.

The fourth chapter covers different skill development programmes undertaken in a sample area. It includes information about skill providers and training institutions are covered in this chapter. It also includes the detailed profile of skill development programmes and data of HODs divided the basis of gender, locality, district, talukas and streams. The collected data is tested with the help of various statistical tools.

Chapter V: Attitude of ongoing students towards facilities available and curriculum.

The fifth chapter includes the attitude of ongoing students towards facilities available and curriculum framed by the respective authority for skill development programmes in the state of Goa. It covers the opinions given by the ongoing students regarding skill development programmes based on gender, district, talukas, streams and trades in Goa.

Chapter VI: Skill Development Programmes and its impact on Employment and self Employment.

The sixth chapter covers the different skill development programmes and its impact on employment and self- employment. It covers the views of past students regarding skill development programmes and its impact on the status of past students.

Chapter VII: Gap of human resources and perceptions of skill development programmes.

This chapter deals with the perception of industrialists, HR executives towards skill gap and also all stakeholders including institutional heads, present students, past students and industrialist regarding skill development programmes in the state of Goa.

Chapter VIII: Summary, Findings, Conclusion and Suggestions.

This chapter has covered Major findings of the study, Conclusion, policy alternatives and Recommendations for future Study and suggestive models for the better functioning of skill development programmes.

1.13 Conclusion:

This chapter has been set into parts i.e. introduction and research methodology. The researcher has made the chapterization scheme to go through the various aspects of the Skill Development Programmes and to find impact on employment and self employment. For the study of skill development programmes the researcher has used various criteria to evaluate the impact on employment and self employment i.e. HOD, Present Students, Past students and Industrialists. Accordingly the researcher has collected the views from the HOD, Present Students, Past students and Industrialists. As per the scope of the study, the study has restricted up to the state of Goa only. In this chapter, researcher has concentrated on the research methodology of the present study and explained in detail about the objectives, scope of the study, problems to be studied and limitation of the study. It is also explains the total population for the present study and the methods used for sampling purpose. Researcher has also explained the methods used for collection of primary and secondary data by using various statistical tools for the purpose of analyzing the data.

2.1 Introduction:

The growing need for skilled manpower and self- reliant through proper educational system is very much necessary for the development of the country. To tackle such issue a variety of research and training activities have been carried out at International, National to tackle various problems and to find solution for the problem. After going through the various articles and papers published at national and international journals, the researcher could collect some relevant information on the present research topic entitled "An evaluation of Skill Development Programmes and its impact on Employment and Self-Employment: A study with reference to state of Goa". The present study on skill development programmes is different from other research for which an attempt is made to examine the different aspects of the studies conducted on skill development programmes for the benefit of the students, institutions, educational authority and society for the overall development of economy. A review of various available literatures on education, employment, self-employment, vocational and skill development were necessary and helpful to find the limitation of the previous studies conducted by the researchers. Such a good review and research will give strong indications to future introduction and implementation of skill policies at central and state level to the Ministry of Skill Development. The collected information has been organized and summarized under subtitles like education, employment, self-employment and skill development.

2.2 Review:

The various available items of literature are reviewed below;

2.2.1 Education:

1. Abelmann (2001), Levy and Murnane (2001), state that the curriculum of Indian educational system, particularly at the secondary level, represents a vision of what India wishes to be through vocational training in the Higher Secondary Schools. Secondary education is where they prepare students both for higher education as well as for world of work. The study concludes that Secondary School Curriculum today in many countries including India, by both adults and young people share a feeling that the secondary education curriculum is profoundly inadequate and doesn't meet the expectations of the employers and the industrialist at the work place. It is need to implement proper system of skill education especially at secondary level as well as at other levels of education to prepare youth ready for work.

2. Vir (1988), mention that the educational system was based on Hindu and Buddhist philosophy but Education was not vocational in character. In Hindu Varna system, vocations such as metal-works, leather crafts and tailoring work were considered as the work of low caste people. Sanskrit education was based on the Veda and Hindu classics for proficiency in Sanskrit grammar, literature, astronomy, while Buddhist monastery schools (Gombas) placed emphasis on the practice of rituals, meditation and a high proficiency in mathematics. Sanskrit schools (Pathasala) were opened for the higher caste Hindus, whereas Buddhist Gombas were more liberal and open to all.

2.2.2 Self-Employment:

- 3. Cheng (1997), Accumulated human capital in self-employment or reduced job satisfaction in employment may lead some to switch out of self-employment into regular employment and then back again to self-employment. He also argued that having a self-employed father was the overriding predictor for entering self-employment in 20th century Japan.
- 4. Cheng (1997), Blanchflower (2000), learnt that education (knowledge) can be a determinant for career switches. Research on the relationship between self-employment and education has produced ambiguous results and also differ for men and women. The study concludes that less education may limit job choices in employment, whereas more education increases options as well as salary levels in employment. More education may be associated with greater success in self-employment, especially in high technology entrepreneurial sectors or professions such as law, medicine, or consultancy.
- 5. Jess Diamond and Ulrike Schaede (2013), observed that the most persistent findings in the previous studies is that switching across job categories remains limited. While Japan's labour market remains very sticky, in some sense there is perhaps more switching than one might have thought. They were likely to enter self-employment in bad economic times, and they were older. These results may favour the 'push' notion of an involuntary entry into self-employment due to limited options. Growing up in a household where the father was self-employed greatly increased the likelihood for the son to be self-employed.

6. Robinson and Sexton (1994), Lazear (2004): propose that a 'jack-of-all-trades' makes for a more successful entrepreneur, and generalized human capital formation is the recommended strategy. Such generalized knowledge can be acquired not just through education but also through past experience, either in self-employment or through rotations while in regular employment.

2.2.3 Vocational Training Programmes:

- 7. Anton Nivorozhkin (2005), the study discusses about government sponsored vocational training programmes and retraining to improve skills on the job. The study found that Government sponsored vocational training does not necessarily imply that training programmes are effective policy tools, as the data does not allow the calculation of any general equilibrium effects. The study concludes that re-training programmes may take time; hence it may appear that those who were not trained obtained a job faster. Once the technical and work organizational aspects of the production process are translated into a range of skills, it is possible to scale the skills according to basic, intermediate and advanced skills.
- **8.** *Berger et al.* (2001), the study was conducted to find the effect of on-the-job training on wages earned by the workers. The study concluded that on-the-job training increased wages by 35.5%, considerably more than found here, perhaps because of differences in the construction of the samples and different periods studied.
- 9. Berger et al. (2001), investigated the effect of vocational training and retraining in Russia by using the Russian Longitudinal Monitoring Survey (RLMS) database. The construction of the dataset did not permit the authors to conduct a separate analysis for unemployed individuals, nor did the paper address the question of causality in outcomes. The author found that training in fields other than the previous primary occupation promoted mobility and contributed positively to wage growth. However, additional training in the primary occupation had a negative impact on labour. Thus the authors suggested that retraining contributes to a labour reallocation to more productive sectors of the economy, whereas additional training may just maintain workers in the current inefficient sector.

- 10. Baker (2000), discusses the design and implementation of the evaluations of various social programmes, including poverty-reduction, schooling, ALMP, etc. The major findings of the study is that the results of implementing various programmes are largely dependent on the institutional settings of the analyzed country, and monitoring of programmes, implementation coupled with new methods for analysis of programmes outcome needs to be widely applied in order to make rigorous statements about the effect and effectiveness of social programmes.
- 11. Evans and Leighton (1990), in his study on unemployment found that in USA the unemployed are twice as likely to start a company as wage-employed people. Several sectoral and regional analyses determined that this so-called "unemployment push" effect is not as robust as expected.
- 12. Friedlander et al. (1997), conducted a study in the United States to review the evaluations of US-government training programmes and the general conclusion is that there were significant positive effects of training programmes on adults as community programmes but only youth programmes consistently produced negative effect and did not create much impact on youth.
- 13. Lechner (2000), a study was carried out in East Germany to evaluate public-sponsored continuous vocational-training programmes in after unification, investigating the earnings and employment effects of participation. The study concludes that no positive effect was found, at least in the short run. This unsatisfactory performance might be explained by either the low quality of the programmes itself or stigmatization of the programmes participants. At the same time, Government-sponsored vocational training in urban Russia where large spending on ALMP might be justified by the need to create an infrastructure for training and retraining programmes in the future.
- **14.** *Lehmann* (1995), a study was conducted in countries like Czech Republic, Poland and Hungary to find the rate of unemployment in the concern countries. The main conclusion of the study is that ALMP contributed only marginally to lowering the unemployment rate in the Czech Republic. For Hungary and Poland, he identified a problematic group of older and less educated participants.

15. Puhani and Steiner (1997), a study was conducted to know the efficiency of various programmes conducted for unemployed youth. The study suggested an alternative explanation for the results of Polish ALMP. They indicate that many programmes for unemployed were not efficiently targeted. Moreover, programmes such as subsidized employment and public works may be beneficial for the long-term unemployed, since one of their aims is to reduce poverty and help unemployed individuals to maintain a link to the labour market.

2.2.4 Skill Development Programmes:

- **16.** Castro (1988); Hoppers and Komba (1996), States that education is commonly referred to activities aimed at acquiring general knowledge, attitudes and values. The term, 'training' basically means the acquisition of occupational or job-related skills, the division needs to be seen as a purely analytical one, as the two are interrelated dimensions within the domain of learning.
- 17. Baumol (1990), Santarelli and Vivarelli (2002), the study focuses on the impact of skill training on firms entry and various policies of entrepreneurship. The study claims that there is no effect of training on firm entry but entrepreneurship support policies (e.g., training) are particularly useful when entrepreneurs lack the relevant skills or knowledge. While priority is being given to Education at the basic level. They observed that little attention is provided to the articulation between education, skills development and entry into the labour market.
- **18.** *UNESCO Global Monitoring Report (2002)*, highlights that the six Dakar Goals have included the Goal of ensuring that the learning needs of all young people and adults are met through equitable access to appropriate learning and life skills programs.
- **19.** *Kafka and Stephenson* (2006), the study was conducted to find the impact of skill programmes on different types of skills like attitudinal and behavioural skills. The study concludes that skill Programmes are needed to impart proper attitudinal and behavioural skills for young people, so that they see agricultural production and services in a positive way as having the potential to provide a decent living.

- **20.** *Pai, Mahesh and De'Souza (2009)*, pointed out that employment and employability is not the same thing. Being employed means having a job. For a youth or adult who is not adequately prepared, having a job is likely to be a temporary condition. Being employable means possessing qualities needed to maintain employment but employability skills are not only job specific but are skills, which cut horizontally across all industries and vertically across all jobs from entry level to higher level. Employability skill is the attribute of employee other than technical competence that make them asset to the employer.
- 21. Patil and Arolkar (2010), an article elaborates the gap between industry and academia in the state of Goa. It is suggested in their research article that effective and meaningful interface between industry and academia will be of immense help to mount the gap of theory and practice. Through a fruitful deliberation at regular intervals and reducing the reservation will help in deriving a close nexus between industry and academia.
- 22. Robert L. Gustavson (1997), conducted a survey to study on the topic "An Economic Analysis of The Federal Job Opportunities and Basic Skills (JOBS) Education and Training Programs in Kansas" for which three Major Metropolitan areas were taken for research. A sample of 360 trainees that is 120 trainees each from 3 metropolitan area offices such as Topeka, Olathe and Wichita were considered for survey. The objective of the study was to find job skill programmes and impact on job readiness and self- reliance or self-employability. The study concludes that there is a significant correlation between job opportunities and basic skills, job opportunities and skills programmes, skill programmes and job readiness, skill programmes and self-reliance.
- 23. Sandeep Mohapatra, Scott Rozelle and Rachael Goodhue (2006), in their research paper on "The Rise of Self-Employment in Rural China: Development or Distress? Conducted in China of 60 villages consisted of 1199 household to find whether entrepreneurship promoted through self-employment is a sign of development or distress. They concluded with evidence showing that self-employment in China, unlike in some other places has made sustainable development in the various region of China.

- 24. Jawad Syed (2007), the author made an attempt to find different factors affecting migrants workers for employment prospects in his paper titled "Employment prospects for skilled migrants: A relational perspective" which was conducted in Australia. The important factors taken for study at Micro level which affects individual are opportunities abroad, motivational, career, personal development, financial gain, identity, lifestyle, etc. and at macro level that affects organization are policy and practices, resources, structure and working condition. The study concludes that greater the possessibility of skills which workers enjoys the better will be the mobility and job. If the workers who are highly skilled workers can move to any part of the country and they can get better job.
- 25. Zuzana Brixiova, Wenli Li and Tarik Yousef (2008), examined in their paper "Skill shortages and labor market outcomes in Central Europe" conducted in European country) concludes that the significant factors which has affected low employment rates and high recession in European countries was mainly due to lower participation of unskilled workers rather than skilled workers on employment. So it is a negative impact of unskilled workers for not participating on employment which creates recession in European countries rather than skilled workers.
- 26. Andre and Varella mollick (2008), a study was conducted in Mexican country to check the impact on peso on skilled workers and unskilled workers. It is observed in their study that employment responses of skilled and unskilled workers at Mexican maquiladoras, the effects of external factors" that unskilled workers are more affected than skilled workers when the peso weakens and the price of skilled labor rises.
- 27. A.J. Wilson, B. Ahmad Ariffian and Abu Zarin H. (2012), conducted a study on "The Acquisition of Soft Skills in Real Estate Program via Industrial Training" in Malaysia. A sample of 200 graduates of the real estate programme of public universities was considered in order to know the level of skills acquired by the university students. The main objective of the study is to examine the acquisition of the soft skills embedded in real estate program through industrial training at degree programme. The soft skills taken for study were Communication skills,

Critical thinking and problem solving skill, Team working skill, lifelong learning and information management skill, Entrepreneurial skill, Moral and professional ethics skill and leadership skill. The study Concludes that soft skills infused for industrial training has not met the needs of the graduates, with the exemption for a few skills competencies such moral and professional skills, lifelong learning and information management skills, and teamwork skills.

- 28. Shazaitul Azreen Rodzalan and Maisarah Mohamed Saat (2012), conducted a study on the effects of Industrial Training on students' Generic Skills Development to examine the effect of individual and organizational characteristics on generic skills Generic Skills- like Communication skills, Teamwork skills, Critical thinking and problem solving skills, and Professional skills whereby 4 skills were considered for study. It is concluded that there is a significant relation between individual and organizational characteristics with generic skills development among students.
- 29. Erika Quendler, Jannie Van Der Luit, et.al. (2013), a study was conducted in Europe on the topic Employers' needs on competences, knowledge and skills for sustainable development as a reference framework for higher education in life sciences. A sample of 2937 students and 852 academicians were chosen for the study. Techniques like Chi-Square test, Descriptive Statistics, Correlation Coefficient were used for testing hypothesis. The broad objective of the study was to study importance of the competences, knowledge and skills required by employees for sustainable development in European countries. The various variables taken into consideration were skill development knowledge, skill development skills and skill development competency. The Skill Development knowledge includes Environment, Efficiency, Natural resources and Biodiversity, Ecosystem, Ecological Integrity, Principles of natural system, Social Responsibility, Environmental Management System, Ecological Economics, Economics, Eco system services, supply chain, Value chains, Externalities, Globalization, GNP, etc. The Skill Development Skills includes Efficiency, leadership, sustainability planning, communication, analysis of environmental problems, system thinking, influencing the organization, designing sustainable system, life cycle analysis, indicators and indexes, ecological foot print, full cost

accounting, business case, socially responsible investing, economic restructuring, pollution prevention programme, pollution trading, 4 p's cap and trade. The Skill Development competences include social responsibility, system orientation and future orientation. The study concludes that the correct combination of competence, knowledge and skills for sustainable development are the best guarantee of our ability to sustain in our life, competent market and secure lasting prosperity.

- 30. Yahya Buntat, M.Khata, et.al. (2013), conducted a research in Malaysia on the topic Employability Skills Element's: Difference Perspective between Teaching staff and Employers Industrial in Malaysia. The Sample size was 130 teaching staff and 152 industry employer. The technique used for testing and evaluation was descriptive statistics. The main objective of the study was to identify Employability Skills integrated by the teaching staff of agricultural vocational training institutions and employability skills needed by the employer in the industry. Employability Skills (ES) were divided into technical expertise or "hard skills", and "employability skills" or "soft skills". ES are only taken for study on teaching Staff who were co-operating with others, working in a team, possessing honesty, following instructions given, interacting with others, acting positively toward change and helping for Solving problems. ES for employer were possessing honesty, cooperating with others, using technology instrument and information system effectively, making decisions, managing time, work in a team, acting positively toward change. The study concludes that cooperating with others and possessing honesty ranked first by teaching staff and employer respectively.
- 31. Edge-okpenge and enechojo grace (2013), conducted a research on Relationship between Counseling and Entrepreneurship Development Skills of Nigerian in Nigeria. The Sample size was 400 final year UG students. To test hypothesis technique like t-test and correlation were used. The objective of the study was to investigate the relationship between career counseling and entrepreneurship development skills of final year students. The conclusion drawn from the study was Career counseling plays a key role in entrepreneurship development of final year students. There is a significant difference between male and female in the relationship between career counseling and entrepreneurship development skills.

- 32. Janice S Tripney and Jorge G Hombrados (2013), a research conducted on the topic "Technical and vocational education and training (TVET) for young people in low- and middle income countries: a systematic review and meta-analysis". The researcher examined the evidence from studies evaluating the impacts of TVET interventions for young people in low- and middle income countries (LMICs) predominantly from Latin America. Meta-analyses of the effectiveness of TVET on five outcome measure categories were conducted. The study concludes that overall mean effects on overall paid employment, formal employment, and monthly earnings were small, positive, and significant. However, significant heterogeneity was observed among the categories.
- 33. Dexter's Report (2013), a study conducted in the state of Goa which was sponsored by department of skill development. The main objectives of the study to evaluate Socio-economic profile demography, economic profile of district by industry, state of education, to identifying developmental opportunities keeping in mind factor endowments and stakeholder perspectives, to identifying specific developmental initiatives/projects/government schemes which have an impact on employment generation, to articulating the aspirations of the youth, to identifying the current and future (2012-17 to 2017-22) skills and human resource requirements by industry and estimate the gap that exists, and to Study the existing VT infrastructure both in the private sector and the government domain. The researcher found that there is a high impact of skill development programmes on employment but it is not properly implemented in the state of Goa.

2.2.5 PhD thesis:

34. *Binod Kumar Khadria*, (1982), in his thesis on the topic "Determinants of Skill Formation: An analysis in terms of interaction between Education market and the rest of the Economy" submitted to Jawaharlal Nehru University, New Delhi, concluded that on the job training, training provided for price and non-profit making institutions are the key agents of skill formation. Investment, cost and benefit are the main determining factors which plays an important role in skill formation by private as well as public agents.

- 35. Sonia Torcato (2006), in her study conducted in Goa submitted a thesis to the Goa University on the topic "A study of Vocational education Programmes and its impact on Entrepreneurship Development and Employment opportunities in Goa". The study was conducted in the state of Goa and the information was gathered from different Higher Secondary Schoolas and Colleges located in various talukas and villages in Goa. The information collected was analyzed with the help of mean and percentage mehod. The study concluded that the majority of HSS and College Students (40.9% and 61.8% respectively) were employed and only few (10% and 6.9% in HSS and UG) started their own business. It gives a clear indication that most of students passed from vocational studies are employed. It also shows that college students are more employed on the job as compared to Higher Secondary School students. VEP played a positive role in providing employment and self-employment to the youth in Goa. The status of VEP was found to be satisfactory with regards to infrastructure, Faculty, OJT and Syllabus. The author suggested that more importance should be given to OJT to commerce based general stream and commerce based vocational stream.
- **36.** Pushpa Mariyam (2006), in his study a survey of 840 pupils of VIII, IX and X std. was carried out in Kottayam to submit a thesis to Mahatma Gandhi University, Kottayam on the topic "A study of group difference in computational skills of Secondary School Students". The main objective of the study was to find is there any group difference between skills Variable and independent variables. The skills variable (Dependent variables) considered were computational skills variable (additions, subtractions, multiplication, divisions (whole number, fraction, decimals), and Computational power variables (whole number, fraction, The independent variables considered were decimals). Intelligence, Achievements, Gender, Socio-Economic Status, and Locality. The study concludes that there exists difference between independent variables and dependent variable and also within dependent variables.

2.3 Research Gap:

A number of literatures on Education, Employment, Vocational Studies and Skill Development programmes have been reviewed for the purpose of study to find research conducted in the area of Skill Development. The previous studies has focused on various issues like articulation between education, skills development and entry into the labour market (Baumol, 1990; Santarelli and Vivarelli, 2002), attitudinal and behaviour skills (Kafka and Stephenson (2006), Computational skills for Secondary School Students (Pushpa Mariyam, 2006), Relation between Job Opportunities and Basic Skills (Robert L. Gustavson, 1997), Prospects for Skilled Migrants (Jawad Syed, 2007), Skill shortages and labor market (Zuzana Brixiova et. al., 2008), Acquisition of Soft Skills (A.J. Wilson et. al., 2012), Generic Skills Development (Shazaitul et.al., 2012), Competences, knowledge and skills (Erika Quendler et.al., 2013), Relationship Between Counseling And Entrepreneurship Development (Edge-okpenge and Enechojo Grace, 2013), Employment and Employability (Pai, Mahesh and De'Souza, 2009), Employability Skills (Yahya Buntat et.al., 2013), Investment, cost and benefit in skill formation (Binod Kumar Khadria, 1982), interface between Industry and Academia (Patil and Arolkar, 2010), reduced job satisfaction leads to self-employmnet (Cheng, 1997), Effect of self Employment (Sandeep Mohapatra, et.al., 2006), relationship between Education and Employment (Cheng, 1997, Blanchflower, 2000), reasons for switching of job into Self-Employment (Jess Diamond and Ulrike Schaede, 2013), unemployment push (Evans and Leighton, 1990), impact of recession on Employment (Andre and Varella Mollick, 2008), effects of Training Programmes (Friedlander et al., 1997), solutions to lower Unemployment (Lehmann, 1995), Subsidized Employment Programmes to lower poverty and Poverty and Unemployment (Puhani and Steiner, 1997), effect and quality of Vocational-Training Programmes (Lechner, 2000), impact of Vocational Education Programmes (Sonia Torcato, 2006), Technical and Vocational Education and Training (Janice S Tripney and J. G. Hombrados, 2013), Evaluations of various Social Programmes (Baker, 2000), and impact of on-the-job training on wages (Berger et al., 2001). A number of literatures on Education, Employment, Vocational Studies and Skill Development programmes have reviewed for the purpose of study to find research conducted in the area of skill development.

Although several research are being conducted on the various topics like Secondary Education for Youth and Adults, Education and Employment for youth, Education and Self-Employment for men and women, Vocational Education for youth, Employment and Employability for youth and adults, etc. which are closely related to the present study. Most of the research concentrated on High School and Secondary Schools children pertaining to Vocational Programmes on computational skills, soft skills, based on different skills

The above studies did not focus much on Skill Development Programmes like evaluating or comparing various programmes on the basis of gender, districts, talukas, regions, different trades offered by institutions, stream wise and comparison between international, national and state level skill programmes. It is also found that no much more studies were conducted on different types of skills required by the entrepreneurs and the actual availability in the market.

A reliable search from all the available sources in Goa also proved that research on the said topic is not yet undertaken by any scholar or by any NGO to find the impact of skill development programmes on Employment and self-employment and a relevant contribution made to Goa's economy. Thus based upon the above report and discrepancies pointed above, it can be said that the present study is one of its kind in Goa in particular and elsewhere in any other states of the country. The researcher found the topic to be unique, feasible and relevant to conduct a study in the state of Goa to find the impact of skill development programmes on Employment and self-employment and a relevant contribution made to Goa's economy.

Hence the present study will focus on the impact of Skill Development Programmes on the employment aspect for which past students from various streams and also the various perceptions of institutional heads, present students and industrialist are taken into consideration to draw the inferences.

2.4 Conclusion

The chapter deals with review of articles, PhD theses, printed scripts and e-journals on various aspects like education, self-employment, vocational training programmes and skill development programmes. It also includes the research gap found through various literatures on the concern topic skill development programmes in Goa.

3.1 Introduction

Skill development policy is an essential part of inclusive economic, labour and social policies and programmes. A structure for better harmonization among various Ministries, States, industry and other stakeholders is recognized through partnership between Government, industries, state governments, institutions and all probable skill providers. Developing skills for self-employment is a significant component in the skill development efforts in rural parts of the country. Post-training support, including mentoring for access to markets, credit and suitable technologies are an important part of skill development strategy for self-employment. Skill development makes it easy for workers and entrepreneurs to shift from reducing and low-productivity sectors into rising and higher-productivity activities and exploit on latest technologies. The various types of institutions including schools, public and private training institutions, civil society organizations, Non-Government Organizations etc. are optimistic to carry out skill development programmes for the different sectors.

The Ministry of Skills Development offers grants to community and technical colleges to make available customized job training programs for businesses who like to offer training to new workers or those who are willing to start his own business or like to improve the skills of their present workforce. Education, vocational training and lifelong learning are the most important pillars of getting employability. Workers employment and sustainable development of enterprise within the organization contributes to attain the milestone of development goal to reduce poverty. It is a need to strengthen skill development in schools, colleges and vocational streams to reduce the percentage of school drop outs. The better quality of education at school level will influence on the effectiveness of entire skill development programmes. Thus it will lay down a concrete foundation for youth to acquire employable skills and take on continuous skill upgradation throughout their life.

The requirement for skilled labour is very soaring at national and international market. The 11th Five Year Plan predicts an increase in the capacity to 15 million annually. At present the capacity of India for developing skills is around 3.4 million persons every year. Hence, there is a need for escalating capacity and capability of skill development programs. The government of India has taken a mission of skill development for training 500 million by 2022 for which 1000 crores were allocated in annual budget for the year 2013-14, 2014-15 whereas in 2015-16 budget it was increased to 1500 crores, 1804 crores and 3016 crores for the annual budget 2016-17 and 2017-18.

3.2 Meaning of Skill Development

Skills Development is the process of (1) identifying your skill gaps, and (2) developing and honing these skills. It is important because your skills determine your ability to execute your plans with success.

Skill Development means developing yourself and your skill sets to add value for the organization and for your own career development. Fostering an attitude of appreciation for lifelong learning is the key to workplace success. Continuous learning and developing one's skills requires identifying the skills needed for mobility and then successfully seeking out training or on-the-job opportunities for developing those skills.

Developing your skills begins with assessing which skills are important for your desired career development. The career mentors can help to identify the types of skills that will help you to move forward in your career. Your development should follow the 70-20-10 rule: 70% of your development should come from on-the-job activities and action learning. This includes development experiences like managing a project; serving on a cross-functional team, taking on a new task, job shadowing, job rotation, etc. 20% of your development should come from interactions with others. It includes having a mentor, being a mentor, coaching, participating in communities of practice, serving as a leader among the staff, organization, etc. 10% of your development should come from training, including classes, seminars, webinars, podcasts, conferences, etc.

Dr. BE Nzimande, MP Minister of Higher Education and Training states that, "For our country to achieve high levels of economic growth and address our social challenges of poverty and inequality, we must work together to invest in education and training and skills development to achieve our vision of a skilled and capable workforce to support an inclusive growth path". He makes a distinction between education, training and skills development and that he frames skills development within clear objectives which means Skills development is the intended output of education and training efforts and it should be an enabler for growth.

According to James Moore, owner of Fleet Dynamics, skill development means "Enhancing the capability of employees to (hopefully) improve the company's efficiency in the employee's specific sphere of influence; and thus ultimately improving the bottom line revenue of the company." Skills development, therefore, can be defined as what we do that is to improve productivity in the workplace and the competitiveness of our businesses and to improve the quality of life of workers, their prospects of work and their mobility.

3.3 Different types of Skills:

1. Labour skills

Skilled workers like electrician, masons, carpenters, blacksmiths, bakers, coopers, printers and other occupations that are economically productive have long historical importance in the field of artistic work. Skilled workers were often politically active through their craft works. These workers use their skills to to bring beauty in the nature and in the life of human being to make more attractive and pleasant.

2. Life skills

Life skills are problem-solving behaviour that is used appropriately and responsibly in the management of personal affairs. They are a set of human skills, acquired through teaching learning or direct experience that are used to handle problems commonly encountered in daily human life. The subject varies greatly from society to society, community to community, region to region, etc. depending upon the societal norms and the expectations of the community.

3. People skills

People skills are understanding ourselves and modifying our responses to talk effectively and empathizing for accurately building relationships of trust, respect and productive interactions. A British definition people skills as "the ability to communicate effectively with the people in a friendly way, especially in business. The term people skill is used to include both psychological skills and social skills, but is less inclusive than life skills.

4. Social skills

Social skills are those skills which facilitate to interact and communicate with others. Social rules and relations are created, communicated, and changed in verbal and non-verbal ways. The process of learning such skills is called as socialization.

5. Soft skills

Soft skills are the combination of interpersonal people skills, social skills, communication skills, character traits, attitudes, career attributes and emotional intelligence quotient (EQ) among others. These skills are used to communicate and convince effectively to the people or the group as a whole.

6. Hard skill

Hard skills are those skills which are related to a specific task or situation. These skills are easily quantifiable unlike soft skills which are related to one's personality.

3.4 Types of Skills under SDP in Goa:

a) Engineering Trades

Information technology, Electronic mechanic, fitter, turner, mechanist, electrician, instrument mechanic, electronic mechanic, draughtsman(civil), draughtsman (mechanical), mechanic (petrol), mechanic (diesel), wireman, welder (gas and electric), carpenter, plumber.

b) Non-engineering trades

Computer operator programming assistant, desk top operator, stenography, secretarial practice, hair and skin care, food decoration, steward, cutting and sewing, data entry operator, driver, etc.

c) Vocational skills

Computer software, electric and electronic appliances, auto engineering, office secretary, stenography, accountancy and auditing, marketing salesmanship, garment making and designing, catering and restaurant management, industrial management, insurance, healthcare assistant, horticulture, tourism and travel, electronic technology, bakery and confectionery.

d) Employability skills (colleges)

The employability skills are important for the candidates who want to get employed for the job and such skills are mostly taught at the degree level by the various institutions they are soft skills, interpersonal skills and higher order skills.

e) Soft Skills

This includes reading, writing, public speaking, computing, language, communication, interaction.

f) Interpersonal skills

The skills such as leadership, teamwork, planning, problem solving, flexibility, confidence, creativity, decision making, relationship, co-ordination are imparted.

g) Higher Order Skills

The higher order skills includes Presentation Skills, Problem solving Skills, Documentation Skills, Case study and Interpretation Skills, arithmetic skills etc..

h) Professional colleges

The skills offered are Civil engineering, Electric engineering, Electronic engineering, IT engineering, Shipbuilding, Architect, Automobile engineering.

i) Hospitality/service skills

Catering, canteen services, health care, ayurveda, food and beverage, housekeeping, front office, customer care, Ayurveda – Panchkarama, Geriatric Care.

j) Agricultural sills

Nutritional garden, Bee keeping, Soil sampling, Nursery and landscaping, composting, Post Harvest Technologies, Soil and Crop Management, Hill Farming and Foundation Plants, Cultivation and Harvesting, Logistic – Loading, Unloading, Transport, Storage, Cold Storage, Marketing Information System, process food.

k) Other Skills

Scaffolding, Fisheries, Shoe Making, Yoga Naturopathy, Motor Driving and Basic Motor Mechanism, Welding, Skin Treatment and Cosmetic Chemistry, Structural Habitat Making, Sound Engineering, Recording, Peace Making Skills, 3D animation, garment making.

1) Skills categories

All the above skills are divided into specialized skills, highly skilled and minimal level skills. Specialized skills are the skills wherein the employees are highly skilled in any one domain or area of skill. The highly skilled labour is divided into category I and II. Skill category I consists of engineering, graduates, science and technology while Skill category II are of vocational and ITI's. The minimal skills able are are not well educated but those who have completed Xth standard or below.

3.5 Current Structure of Skill Education in India

The following is the structure of the Education and Skill Development system in India.

Vocational Training (Skill Development) Education Ministry of Labour National Skill Ministry of Human and Employment Development Resource Corporation Development Directorate Department of Department of General of School Higher **School Education Employment** and Education University and Elementary **Higher Education** Education UGC Govt. ITI's Technical **NCVT** Secondary AICTE Education Education Private ITC Minority Education **Adult Education** Prime Minister's National Council on **Book Promotion** Skill Development and Copyright, Scholarship

Diagram 3.1 Current Structure of Skill Education in India

The present structure of skill development in India shows that there are two different ways of channels for imparting skill training to the students. The Ministry of Human Resource Development impart formal education through Higher Secondary Schools, Universities, Technical education, Minority Education institutes in the form of school education, elementary education, secondary education and adult education. The Ministry of Labour & Employment and National Skill Development Corporations on the other hand provide skill development training through ITIs and ITC under Vocational Training.

3.6 Ministries and Sectors:

Skill development in India is carried out by 17 Ministries/ Departments to whom the mission of skill development is given to develop skills in 21 different sectors under the scheme Skill Development Mission. Similar to the Ministry of Human Resource Development and Ministry of Labour there are other ministries too are actively involved in Skill Development Programmes in India. The various ministries of central government are M/O of Agriculture, M/O Food Processing, M/O Health and Family Welfare, M/O Heavy Industries/Public Enterprises, M/O Human Resource Development, M/O Information Technology, M/O Labour M/O Rural Development M/O MSME M/O Khadi and Village Industries, M/O Social Justice and Empowerment, M/O Textile, M/O Tourism, M/O Tribal Welfare, M/O Urban Development and Poverty Alleviation, M/O HUDCO (contraction), Under D/O Women and Child.

The various sectors for which skilled employees required are Automobile, Electronics Hardware, Textile and Garments, Leather goods, Chemicals and Pharmaceuticals, Gems and Jewelers, Construction and Buildings, Food Processing, Handlooms and Handicraft, Home Furnishing, IT and Software, BPO-ITES, Tourism, Hospitality and Travel, Transportation and Logistics, Real Estate, Media and Entertainment, Healthcare, Banking, Insurance and Finance, Education, Unorganized Sector and Organized Retail.

3.7 Skill India Mission:

Skill India is a campaign launched by Prime Minister Narendra Damodardas Modi on 15 July 2015 which aims at training over 40 crores (400 million) people in India in different skills by 2022. It includes various initiatives of the government like "National Skill Development Mission", "National Policy for Skill Development and Entrepreneurship, 2015", "Pradhan Mantri Kaushal Vikas Yojana (PMKVY)" and the "Skill Loan scheme".

The challenge of skilling India is further provoked by the fact that skill training efforts goes across many sectors and requires the involvement of varied stakeholders such as numerous government departments at the centre and state levels, private training institutions, educational and training institutions, employers, industry associations and certification bodies and trainees. All the stakeholders required to ally their work together for achieving the target of 'Skill India'. The Ministry of Skill Development and

Entrepreneurship was set up in November 2014 to impel the 'Skill India' agenda in a 'Mission Mode' to cover existing skill training initiatives and to unite quantity and quality of skilling efforts in the country.

The Ministry, therefore, launched the National Skill Development Mission (NMSD) which provides the overall institutional framework for rapid implementation of skill development programmes across the India. This Framework for Implementation will provide policy direction to State governments and work out a clear cut plan of action to achieve its skilling targets.

3.8 Mission Statement:

To rapidly scale up skill development efforts in India, by creating an end-to-end, outcome focused implementation framework, which aligns demands of the employers for a well trained skilled workforce with the aspirations of Indian citizens for sustainable livelihoods.

3.9 Mission Objectives

- 1. To generate an end-to-end implementation framework for skill development, this will provide opportunities for life-long learning. It includes incorporation of skilling in the school curriculum for qualitative long term and short-term skill training programmes, by providing useful employment and making certain for career progression that meets the desires of the trainees.
- 2. Support employer/industry demand and workforce productivity with trainees' ambitions for sustainable livelihoods, by generating a framework for outcome focused training.
- 3. Establish and impose cross-sectoral, nationally and internationally suitable standards for skill training in the country by producing a sound quality assurance framework for skilling, applicable to all Ministries, States and private training providers.
- 4. To build ability for skill development in significant un-organized sectors (such as the construction sector where there are few opportunities for skill training) and provide pathways for re-skilling and up-skilling workers in these acknowledged sectors and to enable them to switch into formal sector employment.
- 5. To ensure adequate, high quality alternatives for long-term skilling, benchmarked to internationally acceptable qualification standards which will eventually contribute to the formation of a highly skilled workforce.

- 6. Develop a network of quality mentor/trainers in the skill development ecosystem by setting up high quality training institutions for teachers.
- 7. Leverage existing community infrastructure and industry services to extent skill training and to take efforts for capacity building.
- 8. Offer a way for employment in foreign countries through specific programmes chart to international job requirements and benchmarked to global standards.
- 9. Enable roadmap for transitioning between the vocational training and the formal education system by way of credit transfer system.
- 10. Promote convergence and harmonization between skill development efforts of all Central Ministries, State Ministries and the implementing agencies.
- 11. Support weaker sections of the society through focused outreach programmes and targeted skill development activities.
- 12. Promulgate aspirational value of skilling youth by generating social awareness on value of skill training.
- 13. Maintain a national data for the purpose of Labour Market Information System (LMIS) which will perform as a portal for matching the requirement and supply of skilled workforce in the country. The LMIS will provide public with very important information on skilling initiatives all over the country. On the other it will also provide a platform for scrutinizing the performance of the present skill development programmes running in every state of India.

3.10 Institutional Mechanisms:

National Skill Development Mission at the Centre is formed to drive and execute the Mission's objectives. The institutional mechanisms for accomplishing the objectives of the Mission have been alienated into three tiers. The Mission consists of a Governing Council at apex level, a Steering Committee and a Mission Directorate (with an Executive Committee) as the executive support of the Mission.

Mission Directorate will be supported by three other institutions namely National Skill Development Agency (NSDA), National Skill Development Corporation (NSDC), and Directorate General of Training (DGT). All the three institutions has linkage with Mission Directorate to help smooth functioning of the national institutional mechanism which would continue to lie under the umbrella of Ministry of Skill Development and Entrepreneurship.

At State level it is the responsibility of the States to encourage for creating State Skill Development Missions (SSDM) on the basis of National Skill Development Mission with a Steering Committee and Mission Directorate at State level. On the contrary States will be supported by District Committees at the functional tier.

3.11 National Level skill development Structure

a. Mission Governing Council: The governing council is an Apex body headed by Hon'ble Prime Minister and **i**n addition to Governing Council. It also invites the other CMs, Union Ministers and related persons from the field of academic and industries depending on the agenda for the meeting.

b. Steering Committee: The committee is chaired by Minister Incharge for Ministry of Skill Development and Entrepreneurship who in turn responsible will ensure the Mission activities are implemented properly as per the policies and decisions laid down by Governing Council. The Secretary of Skill Development and Entrepreneurship is the Member Secretary of the Steering Committee. The committee also consists of Secretaries of M/o Finance, M/o Rural Development, M/o Labour and Employment, M/o MSME, M/o Agriculture, M/o Human Resource Development, M/o Overseas Affairs, M/o HUPA and M/o Information Technology which are managing the large scale skill training programmes all over the country.

Mission Directorate consists of Executive Committee which is chaired by Secretary of Skill Development and Entrepreneurship who act as Mission Director. Joint Secretaries of various ministries like M/o Finance, M/o Rural Development, M/o Labour and Employment, M/o MSME, M/o Agriculture, M/o Human Resource Development, M/o Overseas Affairs, M/o HUPA and M/o Information Technology are the members of the Executive Committee. So also five Secretaries from the States those who are handling skills department / ministry in the state on a rotational basis are the members. Further, DG of NSDA, MD of NSDC, and DG of (Training) are also the members as well. A Joint Secretary who are nominated by Mission Director acts as Member Secretary of the Executive Committee. Joint Secretaries from the relevant Central Ministries who have initiated new skill development programmes become members of Executive Committee automatically in order to ensure convergence of individual or sector objectives with national and Mission objectives. The meeting of Executive Committee is held on a monthly basis.

- c. NSDA: The agency focuses on two verticals of Quality Assurance and policy research in the skills space. It operationalises a credible Quality Assurance framework embedded in the National Skill Qualification Framework (NSQF) to support skilling results to NSQF among the skills landscape. To improve co-operation between Mission Directorate and NSDA, the Secretary of MSDE is also designated as ex-officio Chairman of NSDA. This enables Secretary to Chair National Skills Qualification Committee (NSQC), in his capacity as Chairman NSDA helps in energizing NSQC who is not only responsible for establishing a Quality Assurance framework rooted in NSQF in the skill activities but also provides a framework for certification, accreditation of training providers etc.
- **d.** National Skills Research Division (NSRD): NSDA will be established to serve as the apex body for providing technical and research support to the Mission. This Institution will act as a think-tank for Ministry of Skill Development and Entrepreneurship and be the core skill development hub, which will connect implementation of the Mission with academic research and data. It includes economist/expert in the field of planning, with adequate domestic or international experience in skill development. The selection of the head of this division will be done through an empowered Search Committee consisting of Vice Chairman, NITI Aayog Chairman, Secretary, Human Resource Development, Secretary, Skill Development and Entrepreneurship, DG, NSDA (Member Secretary), 2 eminent persons appointed by the nodal Ministry
- **e.** National Skill Development Corporation (NSDC): This will support the Mission through capacity building initiatives and support private training partners. The various functions of NSDC is to Catalyze the creation of market-based, scalable business by providing funding through a combination of debt, equity and grants, to implementing skills voucher programme, to driving engagement with industry and businesses, to promote centre of excellence for training of trainers in coordination with States and SSCs to initiate and incubating Sector Skills Councils (SSCs)
- **f. Directorate General of Training:** Training and Apprenticeship under DGET, MoLE have been transferred to Ministry of Skill Development and Entrepreneurship from 16th April 2015. It is responsible for maintaining existing skill training structures in the country through National Council for Vocational Training (NCVT). The existing institutional framework which consists of ITIs, ATIs, RVTIs and other national institutes acts as tools of execution for Mission activities.

3.12 State Level skill programmes:

States are being encouraged to create State Skill Development Missions (SSDM) along the same lines of National Skill Development Mission structure. Many States have already established SSDMs and other states have already moving in a required direction. A model framework is circulated for customized adoption by States. The organizational structure of the State Skill Development Mission need to be decided by the respective State. It is however desirable that the highest body looking after the Development Mission is sufficiently empowered. National Mission is working towards empowering State Missions through financial and technical support.

3.12.1 Mission Strategy

National Skill Development Mission consists of seven sub-missions under which could be amended as per the decision of Governing Council chaired by Hon'ble Prime Minister. The Secretary of MSDE issues detailed guidelines of each sub-mission and each sub-mission is acting as a building block to accomplish the overall objectives of the Mission. The important areas of the sub-mission includes addressing the long-term and short-term skilling requirements through revamp of existing institutional training structure and forming new institutions, start sector specific skill training initiatives, make sure convergence of existing skill development programmes, leverage existing public infrastructure for skilling, training of trainers, assist overseas employment, and support sustainable livelihoods.

Each sub-mission is headed by a Joint Secretary or Director designated as CEO, public or private sector who has a good track record of implementing projects and achieving targets on a timely manner.

3.12.2 Skill Sub-Mission: Institutional Training

Objectives

- To impel quantity, quality and reach of training provision and outcomes.
- To provide horizontal and vertical lane to academic qualifications and the job market, respectively.
- To provide demand driven, outcome concentrated training aiming at accomplishing high placement rates.

Enablers

• A number of branded, purpose-built Multi Skill Institutes (MSI) would be set up in a

public private partnership (PPP) mode.

• These institutions should focus on collaborations with industry representatives and

professional training providers to guarantee the training programmes are appropriate and

meet high quality standards.

3.12.3 Skill Sub-Mission: Infrastructure

Objectives

• To erect capacity and ensure high quality skill development in infrastructure including

construction sector for increasing productivity of workers through an emphasising on on-

the-site training.

Enablers

• Working in close contact with the existing sectors and skill councils to train workers for

organized and unorganized sectors.

• Designing and developing specific training programmes for unorganized workers

especially in the construction sector for which training curriculum should be prepared in

collaboration with employer and experts from industry.

• Providing trainees opportunities for the trainees' on-the-site and off-the--site by tie-ups

with relevant industry partners.

3.12.4 Skill Sub-Mission: Convergence

Objectives

• To ensure smooth functioning of norms and to co-ordinate various training partners of

skill development.

Enabler

• Creation of common standards for rationalization of Skill Development schemes at the

Central and State level.

• Engagement with States, revitalize the SSDMs as State level co-ordinating bodies and

promoting convergence of implementation efforts in the State as similar to national

objectives.

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• Encouraging States to open Kaushal Vardhan Kendras (KVKs) to raise outreach and

provide training related to local needs.

• Coordinate setting up of National Skills Portal by NSRD to supply information to

potential trainees on the training and prospective career opportunities available in the

field of training. This complete database also covers the number of people who are being

trained in different trades at the national and state levels.

3.12.5 Skill Sub-Mission: Trainers

Objectives

• To improve overall quality of instruction at training institutions all over the country.

• To assemble trainer's training requirement in each and every sector and geographical

region across India.

• To check adequate availability of trainers in skill sectors.

• To make available trainers with long-term career opportunities.

Enablers

• Designing special courses meant for training of trainers and master trainers. This will

serve two key purposes;

i) See that there is a continuous supply of well-trained trainers.

ii) Provide opportunity for trainees to upgrade their skills and become trainers and master

trainers.

• In addition to receiving training in pedagogy and training methodology, the trainers will

be trained in communication skills, interpersonal skills, IT skills, counseling and

mentorship skills.

3.12.6 Skill Sub-Mission: Overseas Employment

Objectives

• To make sure that youth in India are trained at the highest international standards in

order to enable them to get employment opportunities abroad.

• To provide information of employment opportunities abroad and facilitate candidate to

access them.

• To ensure international mobility of skilled workers in the country.

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Enablers

• To accelerate establishment of uniformity between NSQF and International Qualifications Frameworks which will ensure that workers trained in India could also obtain jobs abroad on the basis of Indian qualifications.

• Partnerships with top vocational training institutions in other countries, exchange programmes for Master Trainers etc. is other important aspects of this sub-mission.

• Discovering international workforce requirements in intended countries through reliable information obtained from Indian embassies, research organizations etc. for the purpose of facilitating international mobility.

3.12.7 Skill Sub-Mission: Sustainable Livelihoods

Objectives

• To empower trainees by encouraging them to maximize the potential of skill training by providing them a way to access long-term sustainable livelihoods.

Enablers

- Prepare standard communication packages for exact skill development programmes, which will draw some of the key features of the training programmes, probable employment opportunities, salary expectations and some other benefits.
- Trainees will be provided with counseling services by experts to help the process of career guidance.
- Mentorship will be a core component of the implementation framework of skill development initiatives under the Mission. Trainees who fruitfully complete their training programme will be eligible for mentorship support from master trainers or industry experts, who can guide them in the process of making job applications and making long-term career decisions.
- Trainees who willing for self-employment or those who want to become entrepreneurs will also be given guidance and support to achieve their objectives.
- Promote entrepreneurial atmosphere amongst youth through integrating entrepreneurship education as a part of formal education system.

3.13 Financing

The implementation of skilling activities under the Mission will be as per the budget provisions of various schemes under their respective heads of account. The administrative expenses of the Mission will be borne from the budget of Ministry of Skill Development and Entrepreneurship. The IFD of the Ministry will function as the finance wing of the Mission. The administrative support to the Mission will be provided by the Ministry.

3.14 Goa Directorate of skill Development and Entrepreneurship

The name of the Society is "Goa Skill Development Initiative Society" which was also known as State Directorate of Craftsmen training and as per the XXXIXth cabinet meeting of the Directorate of Labour held on 21-09-2016 a decision was taken to recname the directorate of Craftsmen Training as Ministry/ Department/ Directorate of Skill Development and Entrepreneurship. It is an effort to make it the Nodal Department entrusted with Co-coordinating the important task of skill India campaign of the Central Government and to speedily implement various connected schemes in close Co-ordination with all the State Government departments as well as Private Establishments involved in Skill Development. The registered Office of the Society is housed in the State Directorate of Craftsman Training, Shram Shakti Bhavan, 3rd floor, patto plaza, Panjim, where the operation is for the entire state of Goa.

3.14.1 Aims and Objectives of the Ministry

- **A)** Aims The main aim of the ministry is to provide Vocational Training in closer consultancy with industry in the State of Goa and secondly the society shall function on "no profit no loss" principle. However, its affairs shall be managed in such a way that it becomes self supporting in due course and is able to meet all its expenses and liabilities on its own.
- **B)** Objective of the Ministry: The objective of the Ministry is to implement the Skill Development Initiative Scheme (SDIs) in the State of Goa by Providing Vocational training to school leavers, existing workers, ITI graduates etc and improving their employability of optimally utilizing the infrastructure available in Government / Private Institutions and the Industry, and testing and certifying existing skills of the persons. Secondly, building capacity in the area of development of competency standards, course curricula, learning material and assessment standards in the State of Goa.

3.14.2 Functions:

The various functions of the Ministry are;

- 1. Assess labour market demand.
- 2. Give wide publicity to the scheme.
- 3. Invite applications from Vocational Training providers, scrutinize the same.
- 4. Maintain list of approved Vocational Training Providers.
- 5. Issue admission notice as per prescribed admission guidelines.
- 6. Ensure the implementation of prescribed training fee in the Vocational Training Providers.
- 7. Prepare annual training plan for the State and send the same to Regional Directorate of Apprenticeship Training / Director General of Employment and Training at least three months before start of the financial year.
- 8. Ensure the implementation of reservation policy for Schedule Caste/ Schedule Tribe, Women and others in respect of training places in Vocational Training Providers.
- 9. Provide support to the assessing bodies in conducting tests.
- 10. Monitor and evaluate the outcome of the scheme.
- 11. Prepare guidelines for inspecting Vocational Training Providers.
- 12. Ensure proper utilization of funds released to the Vocational Training Providers.
- 13. Re-imbrues of training cost to Vocational Training provider through Electronic
- 14. Re-imbursement of assessment fee to Assessing Bodies through Electronic Clearance System within 30 days.
- 15. Registration of Vocational Training Providers.
- 16. Issuance of Fund utilization certificate to Director General of Employment and Training.

3.14.3 First Managing Committee:

The Managing Committee of the Society Shall be the Committee constituted in accordance with the Rules and Regulations of the Society. The names, addresses, occupations and designations of the members of the first Managing Committee was formed under the rules and regulations of the Society. The Management of its affairs is entrusted as chairman belong to Secretary dealing with Craftsmen Training Department, Member secretary from State Director of Craftsmen Training Department wheras two Members from Director of Education or nominee and Director, Technical Education or nominee respectively.

3.14.4 Rules and regulations:

The Rules and Regulations of the "Ministry of skill Development and Entrepreneurship"

- 1. Short title and Commencement (1) These Rules and Regulations shall be called the Rules and Regulations of the "Goa Ministry of Skill Development and Entrepreneurship". (2) They shall come into force with effect from the date of registration of the "Goa Skill Development initiative Society" under the Societies Registration Act 1860 (21 of 1860).
- The Society shall maintain a role of members at its registered office and every member shall sign the same and state therein his designation, occupation and address.
 No member shall exercise his rights and privileges of a member unless he has signed the roll as before said.
- 3. If a member of the Society changes his address, he shall notify his new address to the Member Society who shall thereupon enter new address in the roll. If such member fails to notify his new address, the address in the roll of the Society shall be deemed to be his address.
- 4. Should any ex-officio or institution member of the Society be unable to attend or prevented from attending a meeting of the Society, the respective parent Organization shall be at liberty to appoint a substitute in his place for that meeting of the Society.
- 5. The membership of an ex-officio member of the society shall terminate when he ceases to hold the office or appointment by virtue of which he was member. However, the respective parent Organization shall be entitled to remove their nominee at any time from membership and nominate other person in his place.
- 6. The non-official members of the Society shall be nominated by the Government and they shall hold the Office for such period as may be determined not more than three years from the date of their nomination.
- 7. A member of the Society shall loose his / her membership on the following grounds and reasons: If he / she does not attend three consecutive meetings of the Society without sufficient cause or leave of absence granted to him/her by the Chairman If he or she dies, resigns, becomes of unsound mind or insolvent and is convicted of a criminal offence involving moral turpitude.

- 8. The registration of a member shall be tendered to the Society through the Member Secretary and shall not be effective until it has been accepted in writing by the Chairman of the Managing Committee on behalf of the Society.
- 9. (a) A vacancy in the membership caused by any of the reasons mentioned in Rule 8 or 9 may be filled up by the Society. (b) The Members whose membership is terminated for the reason as mentioned in Rule 8 (iii) shall be eligible for reappointment.

3.14.5 Meetings of the society

- 10. There shall be two meetings of the Society namely Annual General Meeting, and Extra Ordinary General Meeting. The Annual General Meeting of the Society shall be held not later than six months after the expiry of each financial year at such date, time and place as may be decided by the President in consultation with the Managing Committee.
- 11. The Chairman may at any time summon an extraordinary General Meeting of the Society, if considered necessary for transaction business of important nature or if so requisitioned by not less than five members of the Society in writing with reason therefore.
- 12. Except as otherwise provide d in these Rules and Regulations, all meetings of the Society shall be called by notice issued by the Member Secretary of the Society who shall act in accordance with the direction of the chairman in this regard.
- 13. (a) Every notice calling meetings of the Society under Clause 11 shall state the date, time and place at which such meeting will be held and be served to every member of the Society at least ten days before the day fixed for the meeting.
- 14. (a) Every meeting of the Society shall be presided over by the Chairman and in his absence by a member chosen by other members to preside over that particular meeting, and (b) One-third of the total members of the Society present in person shall form a quorum at every meeting of the Society. Where the quorum is not present within half an hour of the time fixed, the meeting shall stand adjourned and may be held at the same place after half an hour following the adjournment.

- 15. (a) The Society shall keep minutes of all proceedings of its Annual General Meetings, and of its Extra Ordinary General Meetings, (b) Any such minutes, if purporting to be signed by the Chairman of the meeting at which the proceedings were held by the Chairman of the nest succeeding meeting, shall be evidence of the proceedings and (c) The minutes book shall be kept at the Registered Office of the Society and shall during business hours be open to inspection of any member free of charge.
- 16. (a) In respect of the following business of the Society, a special resolution would be required to be passed for Amendment of the Memorandum of Association and / or Rules and Regulations of the Society, Change in the name of the Society, subject to approval of the Registrar. Amalgamation and division of the Society and Dissolution of the Society. (b) A copy of the Special Resolution shall be filed with the Registrar within thirty days from the date of passing of such resolution signed by the Member Secretary of the Society.

3.14.6 Managing committee:

17. (a) The Management of the affairs of the Society shall be entrusted to, and administered, directed and controlled by a Managing Committee in accordance with these Rules and Regulations, (b) The members of the Managing Committee shall become ipso facto members of the society on their admission, (c) The tenure of the Managing Committee shall be for a period of not more than three years, (d) The exofficio and nominated members of the Managing Committee shall hold their office by virtue of being the nominee on behalf of their respective parent Organizations.

3.14.7 Funds of the Society/Ministry

18. The funds of the Society shall consist of the following; a) Grant-in-aid to be received from the Government of India under the Scheme, "Skill Development Initiative Scheme" based on Modular Employable Skills, b) Income from Investments and savings, c) Fees / service charges levied by the Society for service rendered or provided by it, d) Grants, contributions and donations received by the Society from Government of India, Government of Goa, Public Sector Undertakings, Non-Government Organizations and Corporate under their Corporate Social Responsibility (CSR).

19. (a) The bankers of the Society shall be the nationalized bank as may be decided by the Managing Committee or as decided by the Central Government in the instructions issued from time to time, (b) All funds shall be deposited in the accounts of the Society which shall be operated upon by such officer(s) as may be duly authorized by the Managing Committee.

3.14.8 Accounts and audit

- 20. (a) The Society shall maintain proper books of accounts and prepare annual statements of accounts for each financial year ending 31st March in such form as may be specified by the auditors appointed by the Society, (b) The audited accounts of the Society shall be placed before Managing Committee for consideration and approval and thereafter the same shall be put up before the General Body for approval within six months from the date of closing of the financial year. The audited report shall be filed with the Registrar within three months from the date of conducting the General Body of the Society.
- 21. The Books of accounts of the Society shall be kept at the Registered Office of the Society and shall be open to inspection to any member free of charge during the office hours.
- 22. The accounts of the Society shall be audited annually by auditors and any expenditure incurred in connection with the audit of accounts of the Society shall be payable by the Society.

3.14.9 Powers of the government

23. The Central Government shall have the following powers in the conduct of the affairs of the Society, namely to issue instructions for bringing about any changes in the memorandum of association and/or rules and regulations of the Society, to call for such reports, documents and papers with respect to the activities of the society as may be required, from time to time.

3.15 Present scenario of skill development programmes in the state of goa.

3.15.1 Introduction

To verify the first objective of the study i.e. to evaluate the various components and the present scenario of skill development programmes in the state of Goa, the objective was verified with reference to Streams, Institutions, Trades, and Enrolment of students. Further the data collected from the Directorate of Government departments and institutions were grouped together and tabulated into tables and charts to find out whether the skill programmes are equally distributed in the state of Goa.

3.15.2 Analysis

The subsequent sections give the explanation of the present scenario of skill development programmes in the state of Goa on the basis of institutions, trades and enrolment.

3.15.2.1 Institutions

Apart from other Streams, the NSQF course in High school was started from 2014-15 only in 75 Government Schools all over the Goa, out of which 56% are located in North Goa while 44% are in South Goa. Training courses for Security Guards were also started in 2014-15 at PTS Valpoi and ISL Belgaum as per the requirement in the Government departments. The rest of the other streams were started before 2011-12.

Table 3.1 Present scenarios of Institutions (Stream & Location wise)

Sr.	Stream	Total No. of	Actual No. of	%	Location			
No.		Institutes/Dep artments in	Institutions engaged in skill		Ur	ban	Rural	
		the State	Dev. Prog.		N	%	N	%
1	HS (NSQF)	395	75	31.9%	11	15%	64	85%
2	HSS (Voc)	105	49	20.9%	22	45%	27	55%
3	UniD	26	3	1.3%	3	100%	-	-
4	ITI's	14	14	5.9%	7	50%	7	50%
5	HRDFS	53	53	22.6%	33	62%	20	38%
6	EDP	1	1	0.4%	1	100%	-	-
7	GHRSDC	1	1	0.4%	1	100%	-	-
8	TrCPC	25	25	10.6%	22	88%	3	12%
9	Industries	6	6	2.6%	5	83%	1	17%
10	OITSG	8	8	3.4%	5	63%	3	37%
	Total	634	235	100%	110	47%	125	53%

(Source: Secondary data)

Chart 3.1 Present scenario of Institutions (Stream wise)

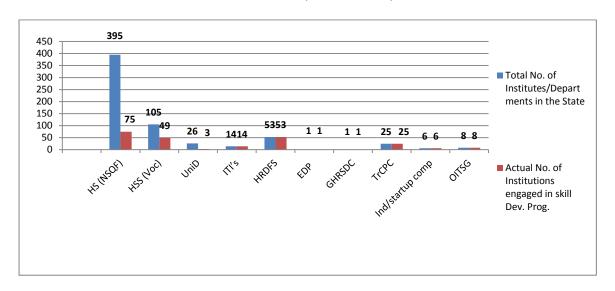


Chart 3.2 Present scenario of Institutions (Streams Percentage)

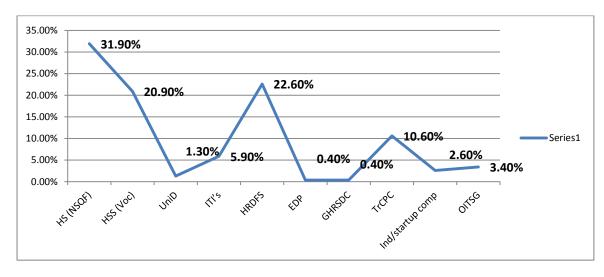
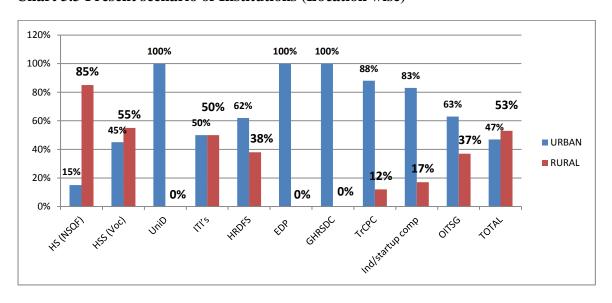


Chart 3.3 Present scenario of Institutions (Location wise)



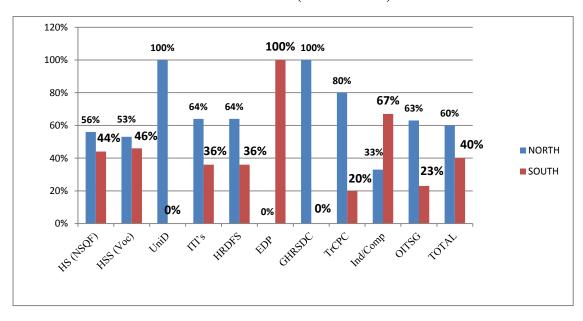
The above table 3.1 reveals the various **institutions** engaged in skill development programmes based on streams and location. The **stream wise** institutional data (table 3.1 and chart 3.1, 3.2) shows that most of the institutes offering skill programmes are HS (31.9%) followed by HRDFS (22.6%) and the least institutes are EDP and GHRSDC (0.4%) each. The **location wise** statistics (table 3.1 and chart 3.3) shows that most of the institutions involved in skill development are located in rural areas (53%) while (47%) in Urban area. The major difference is identified in the institutions based on location is in case of High Schools as only 15% institutes located in Urban area and 85% institutes are located in Rural area. So also UNID, EDP and GHRSDC 100% institutes are in urban area and no institutes in rural area. Most of the TRCPC are in Urban (88%) and only 12% in Rural whereas in case of Industries Urban area (83%) and Rural (17%).

Table 3.2 Present scenario of Institutions (District wise)

Sr.	Stream		District			Total
No		No	rth	S	outh	
		N	%	N	%	
1	HS (NSQF)	42	56%	33	44%	75
2	HSS (Voc)	26	53%	23	46%	49
3	UniD	3	100%	0	0	3
4	ITI's	9	64%	5	36%	14
5	HRDFS	34	64%	19	36%	53
6	EDP	-	-	1	100%	1
7	GHRSDC	1	100%	-	-	1
8	TrCPC	20	80%	5	20%	25
9	Ind/Comp	2	33%	4	67%	6
10	OITSG	5	63%	3	23%	8
Total		142	60%	93	40%	235 (100%)

(Source: Secondary data)

Chart 3.4 Present scenario of Institutions (District wise)



The **district wise** data (table 3.2 and chart 3.4) shows that there exist a difference in institutions offering skill programmes in the state where the majority of the institutions are located in North district (60%) whereas in South district (40%). In case of UNID and GHRSDC shows all the institutions in North district (100%), whereas EDP is in South District (100%). The rest of the institutes such as TRCPC show most of the institutions located in North (80%) HS (56%), HSS (53%), ITI (64%), HRDFS (64%) and OITSG (63%) while most of the industries involved in apprenticeship training are located in south district (67%). The remaining institutions also show some minor difference in distribution of institutions. A major difference was found district wise for UNID, GHRSDC, EDP, TRCPC whereas minor difference is found in other streams.

Table 3.3 Present scenario of Institutions (Taluka wise)

Sr.	Stream						Talul	ka (No	rth)				
No		Pe	rnem	B	ardez	Ti	swadi	Bic	holim	S	attari		Ponda
		N	%	N	%	N	%	N	%	N	%	N	%
1	HS (NSQF)	7	9%	3	4%	5	7%	11	15%	12	16%	4	5%
2	HSS (Voc)	4	8%	6	12%	4	8%	3	6%	2	4%	7	15%
3	UniD	-	-	-	-	3	100%	-		-	-	-	-
4	ITI's	1	7%	1	7%	2	14%	2	14%	1	8%	2	15%
5	HRDFS	1	2%	12	23%	7	13%	6	11%	-	-	8	15%
6	EDP	-	-	-	-	-	-	-	-	-	-	-	-
7	GHRSDC	-	-	1	100%	-	-	-	-	-	-	-	-
8	TrCPC	7	28%	3	12%	3	12%	0		4	16%	3	12%
9	Ind/Comp	-	-	ı	1	2	33%	1	-	1	1	-	-
10	OITSG	-	-	-	-	4	50%	-	-	-	1	1	12%
Tota	1	20	8.5%	26	11.1%	30	12.8%	22	9.4%	19	8.1%	25	10.6%

Cont.....

Sr.	Stream						Talul	ka (So	uth)				
No		Sa	alcete	Qu	epem	Moi	rmugao	San	guem	Dharl	oandora	Ca	nancona
		N	%	N	%	N	%	N	%	N	%	N	%
1	HS (NSQF)	4	5%	6	8%	8	11%	7	9%	1	2%	7	9%
2	HSS (Voc)	14	29%	2	4%	4	8%	1	2%	1	2%	1	2%
3	UNID	ı	1	ı	-	-	ı	-	-	-	-	-	1
4	ITI's	2	14%	1	7%	1	7%	-		-		1	7%
5	HRDFS	17	32%	1	2%	1	2%	-	-	-	-	-	1
6	EDP	1	100%	ı	-	-	ı	-	-	-	-	-	1
7	GHRSDC	ı	1	ı	-	-	ı	-	-	-	-	-	1
8	TrCPC	ı	1	2	8%	-	ı	1	4%	2	8%	-	1
9	ApprT	3	50%	-	-	1	17%	-	-	-	-	-	1
10	OITSG	1	38%	-	-	2	1	-	-	-	-	-	-
Tota	1	42	17.9%	12	5.1%	17	7.2%	9	3.8%	4	1.7%	9	3.8%

(Source: Secondary data)

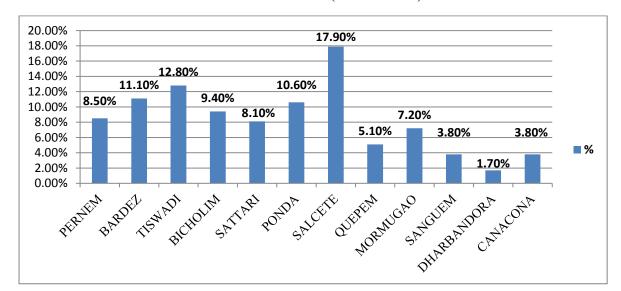


Chart No. 3.5 Present scenario of Institutions (Taluka wise)

The above table 3.3 and chart 3.5 of institutions taluka wise shows that majority of the institutions are in Salcete (17.9%) followed by Tiswadi (12.8%) and least of the institutes are located in Dharbandora (1.7%). It clearly indicated that there exists a difference in distribution of institutions whether it steams wise, location wise, district wise and taluka wise.

3.15.2.2 Trade

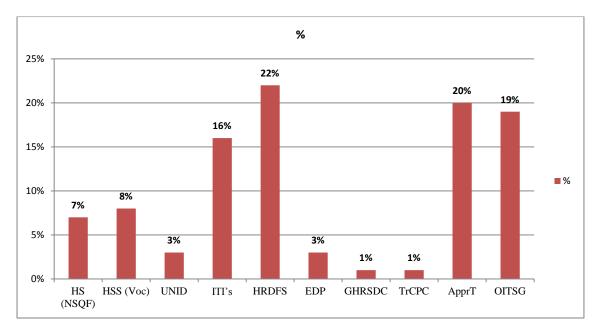
The study of **trades** based on streams, District, Location and Taluka were considered to find the present status of skill development programmes in the state of Goa. Similar types of trades are offered in both the sections due to which total percentage is more than 100%.

Table 3.4 Trades offered under SDP (Stream, Location and District wise)

Sr.	Stream	N	%		Locati	on			Di	strict	
No				Urb	an	Rur	al	Nor	th	Se	outh
				N	%	N	%	N	%	N	%
1	HS (NSQF)	15	7%	6	40%	15	100%	15	100%	9	60%
2	HSS (Voc)	17	8%	14	82%	15	88%	16	94%	11	65%
3	UNID	6	3%	6	100%	-	1	6	100%	-	-
4	ITI's	32	16%	25	78%	18	56%	22	69%	18	56%
5	HRDFS	45	22%	29	64%	32	71%	45	100%	19	42%
6	EDP	6	3%	6	100%	-	-	-	-	6	100%
7	GHRSDC	2	1%	2	100%	-	-	2	100%	-	-
8	TrCPC	2	1%	2	100%	2	100%	2	100%	2	100%
9	ApprT	39	20%	30	70%	20	47%	21	49%	32	74%
10	OITSG	38	19%	28	74%	13	34%	28	74%	13	34%
Tota	İ	202	100%	148	72%	115	56%	157	76%	110	53%

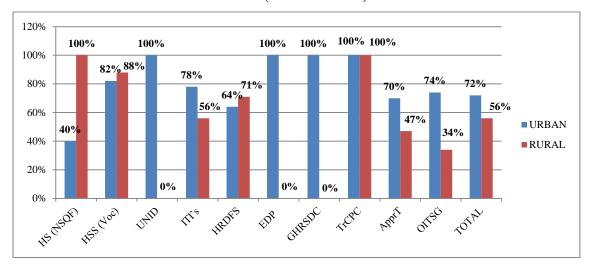
(Source: Secondary Data)

Chart 3.6 Trades offered under SDP (Streams wise)



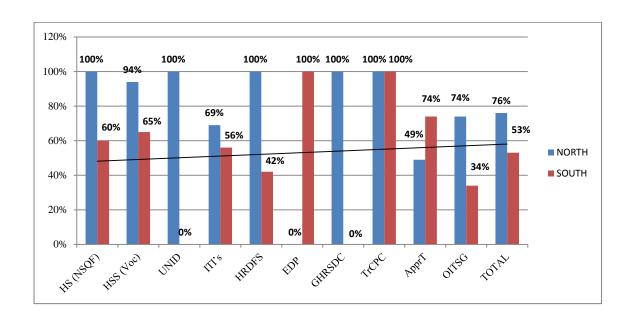
The data of trades on **stream** wise in table 3.4 and chart 3.6 shows that most of the courses are offered in HRDFS (22%) followed by OITSG (19%) and the least Trades are GHRSDC and TRCPC (1%) each.

Chart 3.7 Trades offered under SDP (Location wise)



The **location wise** data in table 3.4 and chart 3.7 reveals that out of the total trades more trades (72%) are offered in urban area while less trades (56%) are offered in rural area. A major difference was identified in case of UNID, EDP and GHRSDC as Urban (100%) and Rural (0%), ApprT as Urban (70%) and Rural (47%) and some minor differences in other streams.

Chart 3.8 Trades offered under SDP (District wise)



The **district wise** courses in table 3.4 and chart 3.8 also indicate that more courses (76%) are offered in North District as compared to South district (53%). A difference found mainly in case of UNID, GHRSDC as North shows (100%), and South (0%) whereas EDP as South (100%) and North (0%). The rest of the institutes like HS show North (100%) South (60%) HSS North (94%) and South (65%), ITI, HRDFS, Industries and OITSG are also showing minor difference in the courses. In case of District the major differences are found for UNID, GHRSDC shows (100%) in the North and EDP (100%) in South. TRCPC shows (80%) in North and (20%) South whereas minor differences were found in case of other streams.

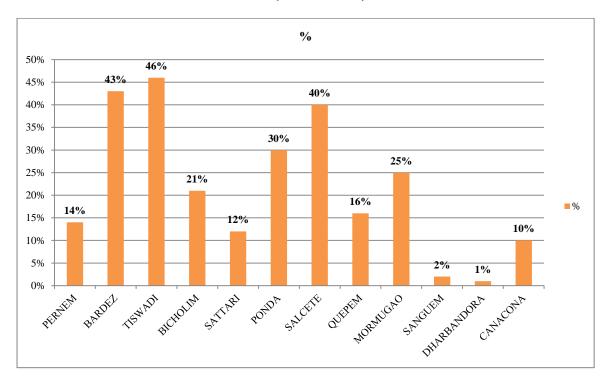
Table 3.5 Trades offered under SDP (Taluka wise)

Sr. No	Stream	Taluka (North)											
		Peri	nem	Bar	dez	Tisv	vadi	Bich	olim	Satta	ıri	Pon	da
		N	%	N	%	N	%	N	%	N	%	N	%
1	HS (NSQF)	2	13%	3	20%	5	33%	2	13%	4	27%	4	27%
2	HSS (Voc)	5	29%	11	65%	8	47%	7	41%	2	12%	11	65%
3	UNID	-	-	-	-	6	100%	-	-	-	-	-	-
4	ITI's	9	28%	14	82%	12	38%	16	50%	13	41%	18	56%
5	HRDFS	9	20%	37	82%	20	44%	5	11%	-	-	8	18%
6	EDP	-	-	-	-	-	-	-	-	-	-	-	-
7	GHRSDC	-	-	2	100%	-	-	-	-	-	-	-	-
8	TrCPC	2	100%	1	50%	2	100%	1	50%	1	50%	1	50%
9	AppT	1	2%	20	47%	20	47%	12	28%	5	12%	16	37%
10	OITSG	-	-	-	-	21	55%	-	-	-	-	4	11%
Tota	1	28	14%	88	43%	94	46%	43	21%	25	12%	62	30%

Contd.....

Sr.	Stream						Talul	ka (Sou	th)				
No		Salcete		Quepem		Mo	rmugao	Sa	nguem	Dharbandora		Canancona	
		N	%	N	%	N	%	N	%	N	%	N	%
1	HS (NSQF)	4	27%	4	27%	5	33%	2	13%		-	3	20%
2	HSS (Voc)	10	59%	6	35%	9	53%	1	6%	1	6%	1	6%
3	UNID	-	-	-	-	-	-	-		-	-	-	-
4	ITI's	17	53%	15	47%	11	34%	-	-	-	-	15	47%
5	HRDFS	16		5		6		-	-	-	-	-	-
6	EDP	6	100%	-	-	-	-	-	-	-	-	-	-
7	GHRSDC	-	-	-	-	-	-	-	-	-	-	-	-
8	TrCPC	1	50%	1	50%	1	50%	1	50%	1	50%	1	50%
9	ApprT	24	56%	1	2%	11	26%	-	-	-	-	1	2%
10	OITSG	4	11%	-	-	9	24%	-	-	-	-	-	-
	Total	82	40%	32	16%	52	25%	4	2%	2	1%	21	10%

Chart 3.9 Trades offered under SDP (Taluka wise)



The taluka wise trade distribution in table 3.5 and chart 3.9 reveals that majority of the course are offered in Tiswadi (46%) followed by Bardez (43%), Salcete (40%) and least of the course are offered in Dharbandora (1%). It becomes clear that there exist a difference in trades offered and unequally distributed in the state whether they are stream wise, location wise, district wise and taluka wise.

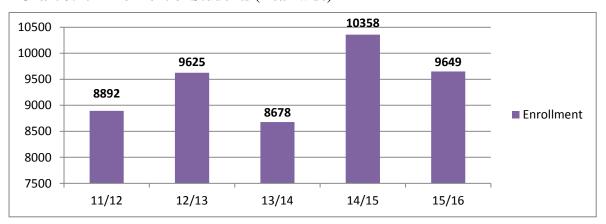
3.15.2.3 Enrolment:

The study of students enrolled in the various streams for the past 5 years i.e. from 2011-12 to 2015-16 based on stream, Location, District and Taluka were considered to find the present status of students enrolled under skill development programmes in the state of Goa. The tables, charts and explanation of students enrolled are given below;

Table 3.6 Enrolment of Students (Stream wise)

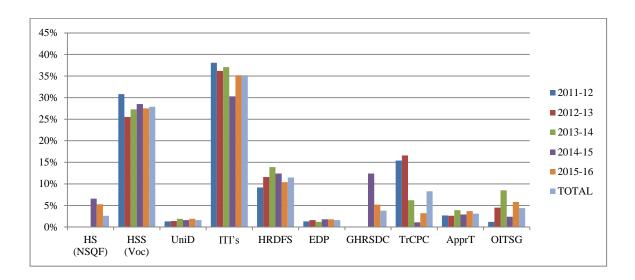
Sr. No	Stream				Total	%							
		11-	12	12-	13	13-	-14	14-1:	5	15-	16		
		N	%	N	%	N	%	N	%	N	%		
1	HS (NSQF)	-	-	-	-	ı	-	684	6.6	516	5.3%	1200	2.6%
2	HSS (Voc)	2736	30.8%	2452	25.5%	2374	27.3%	2951	28.5%	2659	27.5%	13172	27.9%
3	UniD	116	1.3%	132	1.4%	161	1.9%	161	1.6%	180	1.9%	750	1.6%
4	ITI's	3382	38.1%	3486	36.2%	3217	37.1%	3142	30.3%	3398	35.2%	16625	35.2%
5	HRDFS	822	9.2%	1116	11.6%	1204	13.9%	1282	12.4%	1005	10.4%	5429	11.5%
6	EDP	120	1.3%	153	1.6%	110	1.2%	190	1.8%	178	1.8%	751	1.6%
7	GHRSDC	-	-	-	-	1	-	1290	12.4%	497	5.2%	1787	3.8%
8	TrCPC	1365	15.4%	1593	16.6%	540	6.2%	113	1.1%	308	3.2%	3919	8.3%
9	ApprT	242	2.7%	256	2.6%	335	3.9%	300	2.9%	353	3.7%	1486	3.1%
10	OITSG	109	1.2%	437	4.5%	737	8.5%	245	2.4%	555	5.8%	2083	4.4%
Total		8892	100%	9625	100%	8678	100%	10358	100%	9649	100%	47202	100%

Chart 3.10 Enrolment of Students (Year wise)



The data in table 3.6 and Chart 3.10 reveals that there is a gradual growth of skill development programmes in the state of Goa over the years since 2011-12 to 2015-16 except in 2013-14. In the year 2013-14 there was decline in enrolment of students whereas 2014-15 again it shows an increasing trend. Again in the year 2015-16 there was a slight decline in student's enrolment as compared to previous year but it is more than the base year 2011-12. It clearly indicates that even though there is changing trend for last five years, the student's enrolment is increasing year after years. The highest enrolment of students during the past five years was found in the year 2014-15 due to introduction of NSQF courses for HS and security guards training by GHRSDC whereas the lowest enrolment in the year 2013-14.

Chart 3.11 Enrolment of Students (Stream wise)

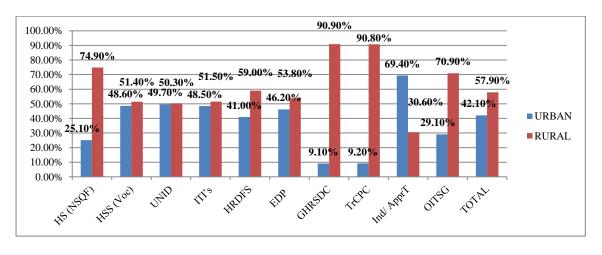


The **stream wise** enrolment of students (table 3.6 and chart 3.11) shows that most of the students are enrolled in ITI (35.2%) followed Vocational (27.9%) and the least number of students are enrolled in EDP (1.6%).

Table 3.7 Enrolment of Students (location & District wise)

	Institutions/		Loc	ation			District		
Sr.No	Industries	Urban		Rural		Nor	th	So	outh
		N	%	N	%	N	%	N	%
1	HS (NSQF)	301	25.1%	899	74.9%	539	44.9%	661	55.1%
2	HSS (Voc)	6399	48.6%	6773	51.4%	6016	45.7%	7156	54.3%
3	UNID	373	49.7%	377	50.3%	494	65.9%	256	34.1%
4	ITI's	8063	48.5%	8562	51.5%	10208	61.4%	6417	38.6%
5	HRDFS	2225	41.0%	3204	59.0%	3963	73.0%	1466	27.0%
6	EDP	347	46.2%	404	53.8%	509	67.8%	242	32.2%
7	GHRSDC	161	9.1%	1626	90.9%	1419	79.4%	368	20.6%
8	TrCPC	362	9.2%	3557	90.8%	3089	78.8%	830	21.2%
9	Ind/ ApprT	1031	69.4%	455	30.6%	907	61.0%	579	39.0%
10	OITSG	607	29.1%	1476	70.9%	1179	56.6%	904	43.4%
Total		19869	42.1%	27333	57.9%	28323	60.0%	18879	40.0%

Chart 3.12 Enrolment of Students (Location wise)



The **location wise** enrolment of students (table 3.7 and chart 3.12) shows that the majority of the students are in Rural area (57.9%) and (42.1%) from Urban area. A major difference was found in case of GHRSDC and TrCPC where in urban area enrolment is just (9.1% and 9.2%) and in rural area (90.9% and 90.8%) respectively and minor difference was also found in other streams.

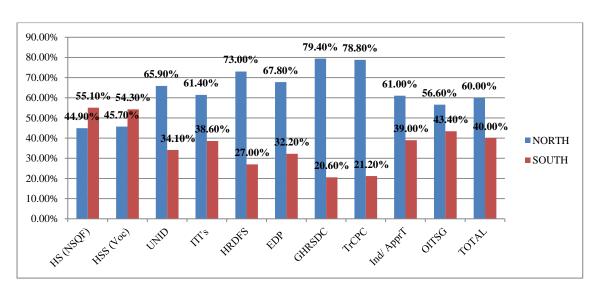


Chart 3.13 Enrolment of Students (District wise)

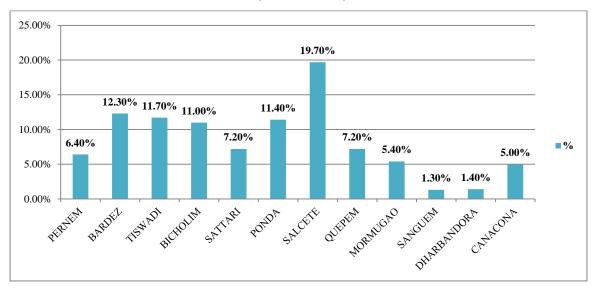
The district wise enrolment of students (table 3.7 and chart 3.13) also shows that majority of the students are enrolled in North district (60%) and (40%) in South district whereby the major differences were located in case of HRDFS, EDP, GHRSDC, TrCPC as North shows (73.0, 67.8, 79.4% and 78.8%) whereas in South (27.0%, 32.2%, 20.6% and 21.2%) respectively and rest of the streams HS, HSS, ITI, Industries and OITSG also shows minor difference in enrolment of students in two different districts.

Table 3.8 Enrolment of Students (Taluka wise)

Sr. No	Institutions/ Industries		Taluka (North)										
		Pern	em	Bare	dez	Tisw	adi	Bicho	olim	Satt	ari	Pone	da
		N	%	N	%	N	%	N	%	N	%	N	%
1	HS (NSQF)	66	5.5%	49	4.1%	61	5.1%	60	5.0%	204	17.0%	99	8.2%
2	HSS (Voc)	707	5.4%	1996	15.2%	1092	8.3%	607	4.6%	207	1.6%	1407	10.7%
3	UNID	22	2.9%	184	24.5%	193	25.8%	30	4.0%	7	0.9%	55	7.3%
4	ITI's	1114	6.7%	1264	7.6%	1663	10.0%	2394	14.4%	1562	9.4%	2228	13.4%
5	HRDFS	592	10.9%	1576	29.0%	859	15.8%	568	10.5%	-	-	368	6.8%
6	EDP	18	2.4%	189	25.2%	113	15.0%	96	12.8%	8	1.0%	72	9.6%
7	GHRSDC	184	10.3%	51	2.9%	439	24.6%	367	20.5%	255	14.3%	124	6.9%
8	TrCPC	186	4.8%	248	6.3%	116	3.0%	918	23.4%	942	24.0%	679	17.3%
9	ApprT	12	0.8%	229	15.4%	250	16.8%	87	5.9%	40	2.7%	289	19.4%
10	OITSG	93	4.5%	36	1.7%	768	36.9%	58	2.8%	159	7.6%	70	3.4%
Tota	ıl	3015	6.4%	5845	12.3%	5574	11.7%	5223	11.0%	3401	7.2%	5418	11.4%

Sr. No	Institutions / Industries						Taluka (South)					
		Salcet	e	Queper	m	Morm	ug	Sangu	iem	Dharband		Canar	ico
						ao				ora		na	
		N	%	N	%	N	%	N	%	N	%	N	%
1	HS (NSQF)	96	8.0%	164	13.7%	174	14.5%	159	13.2%	-	-	68	5.7%
2	HSS (Voc)	4696	35.7%	851	6.5%	1162	8.8%	145	1.1%	104	0.8%	198	1.5%
3	UNID	148	19.8%	25	3.3%	41	5.5%	16	2.1%	19	2.6%	10	1.3%
4	ITI's	2094	12.6%	1597	9.6%	831	5.0%	-	-	-	-	1878	11.3%
5	HRDFS	1122	20.7%	284	5.2%	60	1.1%	-	-	-	-	-	-
6	EDP	162	21.6%	42	5.6%	38	5.1%	-	-	4	0.5%	9	1.2%
7	GHRSDC	10	0.6%	61	3.4%	112	6.3%	92	5.1%	20	1.1%	72	4.0%
8	TrCPC	70	1.8%	271	6.9%	44	1.1%	29	0.8%	400	10.2%	16	0.4%
9	ApprT	454	30.6%	8	0.6%	98	6.6%	4	0.2%	5	0.3%	10	0.7%
10	OITSG	455	21.8%	84	4.0%	-	-	151	7.3%	131	6.3%	78	3.7%
Total	l	9337	19.7%	3414	7.2%	2577	5.4%	596	1.3%	683	1.4%	2368	5.0%

Chart 3.14 Enrolment of Students (Taluka wise)



The **taluka wise** enrolment of students (table 3.8 and chart 3.14) depicts that majority of the students are enrolled in Salcete taluka (19.7%) and least of the students enrolled in Sanguem taluka (1.3%). The remaining streams like Bardez, Tiswadi, Bicholim and Ponda has shown more or less similar number of students' enrolment. It indicates that there exists a difference in enrolment of students whether it steams wise, location wise, district wise, location wise and taluka wise.

So, to conclude objective no.1 for present scenarios of skill development programmes in Goa indicates that the institutions as well as students are not equally distributed. The students show unequal distribution either on basis of courses offered or enrolment in the state. A difference is noticed in the institutions allotted in the state of Goa by the respective authorities under skill development programmes.

A difference is noticed in institutions with regards to streams, location, district and taluka. Similarly there is a difference in trades allotted to the various institutions stream wise, location wise, district wise and taluka wise. So also in the case of enrolment of students in the various institutions all over Goa there is a difference of skill programmes in stream wise, location wise, district wise and so also taluka wise. Thus based upon the above brief findings, we can conclude that the "skill development programmes are unequally distributed. It means that the improper allotment of institutions is an important cause for the unbalanced situation of courses as well as enrolment of students stream wise, location wise, District wise and Taluka wise.

3.15.3 Conclusion:

This chapter deals with the overall view of the skill development programmes at the national and state level which includes structure of skill development in India, various ministries involved in skill development training programmes, meaning of skill and skill development, various skills imparted at national and state level, the formation of ministry of Skill Development and Entrepreneurship, tabular representation and the present scenario of skill development programmes in the state of Goa based on Institutions, Trades and Enrolment of students.

4.1 Introduction

Skill is the ability to carry out a task with pre-determined results often within a given amount of time, energy, or both. Skills can often be divided into domain general and domain-specific skills. Skill usually requires certain environmental stimuli and situations to assess the level of skill being shown and used. Knowledge is the outcome of assimilation of information through learning. Skills mean the ability to apply knowledge and use know-how to complete task and solve problems.

This chapter deals with the second objectives of the study to know the perspectives of Institutional heads based on various statements prepared by the researcher on skill programmes carried out by the various institutions in the state of Goa.

4.2 Social profile

To evaluate perspectives of skill development programmes in Goa, Head of the Institutions/Departments (HOD) were considered to know their perspectives on the prevailing scenario of skill development training programmes in the state of Goa. The Head of the Departments were asked to give their opinions through structured close ended questionnaires. A total of 81 Institutional Head replied to the questionnaires which were considered for the study from 10 different streams and 12 different talukas in Goa. The below analysis shows the various tables, interpretation and findings of the study which is shown below:-

Table No. 4.1: Social Profile

Sr. No.	Particulars	Frequency	Percentage
Gender	Male	50	62%
	Female	31	38%
	Total	81	100%
Location	Rural	47	58%
	Urban	34	42%
	Total	81	100%
District	North	50	62%
	South	31	38%
	Total	81	100%
	SSC (NSQF)	24	30%
	HSSC (Voc)	16	20%
	UNID	1	1%
	ITI's	6	7%
Streams	HRDFS	18	22%
	EDP	2	2%
	GHRSDC	1	1%
	TrCPC	7	9%
	OITSG	4	5%
	ApprT	2	3%
	Total	81	100%

(Source: Field Work)

Table No. 4.1 depicts that most of the HOD's are male whereas the female respondents are less. Out of the 81 HOD's selected for the study in different institutions, 50 (62%) were male and only 31 (38%) were female. The questionnaire was served to the Head of the Departments irrespective of whether it is male or female. But, the survey shows that there are more male HOD's rather than female HOD's in the various institutions.

Table No. 4.1 shows the location of the Institutions selected for the study. The total numbers of respondents were 81. The institutions were randomly selected from both areas i.e. rural and urban area. Majority of the respondents i.e. 47 (58%) of the Head of the Institutes were from the Rural and 34 (42%) were taken from the urban area.

Table No. 4.1 reveals that there are only two districts in Goa i.e. North Goa and South Goa. The survey was undertaken in both the district to know the opinions of the Head of the Departments skill courses imparted in Goa. The above table shows that out of 81 institutes, 50 heads of institutions are from North Goa and 31 Heads are taken from South Goa which means 62% and 38% heads of institutes are considered from North Goa and South Goa respectively.

Table No. 4.1 shows that 81 institutes were considered for the study from 10 different categories of institutes offering skill courses among other institutes in the state of Goa. In the above table the selection of different institutes is based on the Salant and Dillman method. The selection of institutes is done on the basis of number of institutes prevailing in the respective category of the stream. Higher the number of institutes more is the number of institutes selected as sample size whereas less the number of institutes less is the selected sample size. In the above table it is most of the institutions selected (30%) are from High school, 22% are selected from the HRDF Society, 20% are considered from Higher Secondary Schools, 9% from training cum production Centre, 7% from ITI's, 5% from Entrepreneurship Development Programmes and other Initiatives taken by State Government, 1% from University Department and Goa Human Resource Skill Development Corporation. The number of institutes in the respective category.

During the personal interaction with the respondents for the interview revealed that majority of the institutes have started skill course well before 2013-14 in Goa which means Goa's educational experts have realized the importance of skill courses well in advance for the betterment of students and also to fulfill requirement of the industries.

4.3 MoU with industries

It is also observed that most of the institutions do not have any sort of Memorandum of understanding (MoU) with the industries which is very much needed for the improvement of skill development programmes and also to upgrade skills and knowledge. Students cannot learn without practicing on the job especially in the industries. It means that institution still depends on the practical training offered in the institutions and still do not provide industry atmosphere to the students. Students can learn better outside the institute when they placed on the practical job. Only few institutions have MoU with some industry.

4.4 Placement cell

The study shows that most of the institutes do not have placement in the institution. It means that most of the institutes are still not serious about providing job to the students after completion of course. The main aim of the skill courses is to provide job once students complete their courses which means students need to search for the job after completion of their course. Institutes should take active responsibility in providing job in their respective field. The Head of the institutions opined that most of the students get their first job soon after completion of the job or it takes roughly 1 year. The Headmasters in the High Schools disclosed that the courses were introduced recently at std. IX and X which will take probably 3 years or more to get the job. Even the students are immature to take up the job or to start a business. But they hope that students can take up jobs after std. XII students which means students will take minimum 4 years to accept any sort of job.

4.5 Testing Hypothesis

The present chapter tries to understand the perspectives of Institutional Heads on skill programmes conducted in the state and their future benefit for the students after passing out through their respective course they study. To verify the second objective of the study i.e. to find the perspectives of Institutional Heads for skill development programmes conducted in the state of Goa, the following hypothesis was formed:

H0: Perspectives of Institutional Heads for skill development programmes is favorable.
H1: Perspectives of Institutional Heads for skill development programmes is unfavourable.

Further, based on the main hypothesis mentioned above, five sub-hypothesis were framed and tested with various statistical tools to serve the objective. The sub-hypotheses were tested with reference to the Gender, Locality, District, Taluka and Stream. The data collected from the Head of the institutions was grouped into ten important areas to find any difference in the perspectives and also with regards to statement framed whether they are favourable or unfavourable towards skill development programmes conducted in the state of Goa. The various aspects considered for the study are mentioned below which are as follows;

- 1) Students acquire enough job skills after the completion of the course.
- 2) Training/internship provided is sufficient for them to place on the job.
- 3) Confident that the trained students are competent to take up the job.
- 4) Curriculum framed by the authority is relevant to the job required by the industries.
- 5) Changes in course should be made to meet the expectations of the employer.
- 6) Need to proper implementation of skill development mission in the state.
- 7) Skill development courses are better than general courses to get jobs.
- 8) Skill courses have very much scope in the present employment field.
- 9) Students with skill courses are more competent than the general stream.
- 10) Trained students get job soon after completion of course.

To collect the information on the above areas a set of ten set of statements were designed. The respondents were asked to rank it from Strongly Disagree to Strongly Agree on the basis of five point Likert scale. 81 Heads of the institutions from all over Goa belonging to High School, Higher Secondary, University Departments, ITI, HRDFS, EDP, GHRDC, Training cum Production Centre, Apprenticeship training institutes and Other initiatives taken by the State Government were surveyed. The collected data was then divided into five categories based: Gender (Male and Female), Location (Urban and Rural), District (North and South), 12 Taluka (Pernem, Bardez, Tiswadi, Bicholim, Sattari, Ponda, Salcete, Quepem, Mormugao, Sanguem, Dharbandora and Canacona), 10 Streams (High Schools-OITSG). The following sections give the analysis of the data along with the comments according to: Gender, Location, District, Taluka and Stream. In case of Gender, Location and District, Mean scores and Independent sample t- test were used where as in case of Taluka and Stream one way ANOVA and Post hoc test were used to test the hypothesis.

4.6 Analysis

In order to test the hypothesis, the data collected was classified and cross tabulated based on the Quantitative data, and tested separately by using *frequency table*, *Mean score*, *Independent sample t-test*, *One way ANOVA and Post hoc test* to see whether there is any difference between the attributes under study. The Subsequent sections give the explanation on the analysis of the above mentioned aspects.

4.6.1 Gender

The information collected from the students was classified based on Male and Female students. Out of total 81 students, 51 were Male and the remaining 30 were Female students. The following paragraphs give a brief analysis based upon the responses given by the institutional heads. The Table **4.2** gives the *quantitative data* along with the percentages, **Table 4.3** gives the *Mean* score between the Male and Female Institutional heads and Table **4.4** gives their **t-test** values between Male and Female respondents.

H01: There is no significant difference in the perspectives of Institutional Heads with relation to gender.

Table 4.2: Table showing frequencies of Institutional Heads (Gender)

Statements	Scale	Gender					
		N	I ale	Feamale		To	otal
		N	%	N	%	N	%
	SDA	1	2.0%	1	3.2%	2	2.5%
Students acquire enough job skills after the completion of the	DA	2	4.1%	5	16.1%	7	8.8%
course.	N	5	10.2%	3	9.7%	8	10.0%
course.	Α	31	63.3%	16	51.6%	47	58.8%
	SA	10	20.4%	6	19.4%	16	20.0%
	SDA	1	2.0%	1	3.2%	2	2.5%
Training/intermedia provided is sufficient for them to place or	DA	5	10.2%	7	22.6%	12	15.0%
Training/internship provided is sufficient for them to place on the job.	N	10	20.4%	8	25.8%	18	22.5%
the job.	Α	24	49.0%	11	35.5%	35	43.8%
	SA	9	18.4%	4	12.9%	13	16.2%
	SDA	1	2.0%	1	3.2%	2	2.5%
	DA	3	6.0%	5	16.1%	8	9.9%
Confident that the trained students are competent to take up the job.	Ν	5	10.0%	3	9.7%	8	9.9%
the job.	Α	28	56.0%	14	45.2%	42	51.9%
	SA	13	26.0%	8	25.8%	21	25.9%
	SDA	2	4.1%	1	3.2%	3	3.8%
Curriculum framed by the authority is relevant to the job	DA	3	6.1%	6	19.4%	9	11.2%
required by the industries.	N	6	12.2%	3	9.7%	9	11.2%
required by the industries.	Α	28	57.1%	15	48.4%	43	53.8%
	SA	10	20.4%	6	19.4%	16	20.0%
	SDA	3	6.1%	0	0.0%	3	3.8%
Changes in courses should be made to meet the expectations	DA	9	18.4%	5	16.1%	14	17.5%
Changes in courses should be made to meet the expectations of the employer.	Ν	6	12.2%	8	25.8%	14	17.5%
of the employer.	Α	19	38.8%	12	38.7%	31	38.8%
	SA	12	24.5%	6	19.4%	18	22.5%

	SDA	1	2.0%	0	0.0%	1	1.2%
	DA	0	0.0%	0	0.0%	0	0.0%
Is it a need of the hour to proper implementation of skill	N	2	4.1%	1	3.2%	3	3.8%
development mission in the state.	Α	23	46.9%	14	45.2%	37	46.2%
	SA	23	46.9%	16	51.6%	39	48.8%
	SDA	1	2.0%	0	0.0%	1	1.2%
Skill development courses are better than general courses to get jobs.	DA	2	4.1%	0	0.0%	2	2.5%
	N	4	8.2%	9	29.0%	13	16.2%
	Α	20	40.8%	9	29.0%	29	36.2%
	SA	22	44.9%	13	41.9%	35	43.8%
Skill courses have very much scope in the present employment field.	SDA	1	2.0%	0	0.0%	1	1.2%
	DA	1	2.0%	1	3.2%	2	2.5%
	N	2	4.1%	7	22.6%	9	11.2%
	Α	21	42.9%	12	38.7%	33	41.2%
	SA	24	49.0%	11	35.5%	35	43.8%
	SDA	1	2.0%	0	0.0%	1	1.2%
Students with skill sources are more commetent than the	DA	2	4.1%	3	9.7%	5	6.2%
Students with skill courses are more competent than the general stream.	N	7	14.3%	11	35.5%	18	22.5%
general stream.	Α	19	38.8%	10	32.3%	29	36.2%
	SA	20	40.8%	7	22.6%	27	33.8%
	SDA	1	2.0%	0	0.0%	1	1.2%
	DA	4	8.0%	7	22.6%	11	13.6%
Trained students get job soon after completion of course.	N	14	28.0%	8	25.8%	22	27.2%
	Α	20	40.0%	10	32.3%	30	37.0%
	SA	11	22.0%	6	19.4%	17	21.0%

(Source: Primary Survey)

(Note: All sample respondents have not responded, so total sample respondent are less.)

Table 4.3: Table showing Group statistics of Institutional Heads (Gender)

Statements	Gender	N	Mean	Std. Dev.
Charles to a series and the little of the desire of the course	Male	49	3.96	.815
Students acquire enough job skills after the completion of the course.	Feamale	31	3.68	1.077
Tusining/intermedia provided is sufficient for them to place on the ich	Male	49	3.71	.957
Training/internship provided is sufficient for them to place on the job.	Feamale	31	3.32	1.077
Confident that the tweined students are commetent to take up the ich	Male	50	3.98	.892
Confident that the trained students are competent to take up the job.	Feamale	31	3.74	1.125
Curriculum framed by the authority is relevant to the job required by the	Male	49	3.84	.965
industries.	Feamale	31	3.61	1.116
hanges in courses should be made to meet the expectations of the employer.	Male	49	3.57	1.225
	Feamale	31	3.61	.989
N 1	Male	49	4.37	.755
Need to proper implementation of skill development mission in the state.	Feamale	31	4.48	.570
Cl.:11 d1	Male	49	4.22	.919
Skill development courses are better than general courses to get jobs.	Feamale	31	4.13	.846
Clair	Male	49	4.35	.830
Skill courses have very much scope in the present employment field.	Feamale	31	4.06	.854
C4d4	Male	49	4.12	.949
Students with skill courses are more competent than the general stream.	Feamale	31	3.68	.945
Ti 1 . 4 . 4 4	Male	50	3.72	.970
Trained students get job soon after completion of course.	Feamale	31	3.48	1.061

Table 4.4: Table showing t-test analyses Institutional Heads (Gender)

Statements		Levene's T Equality of V	est for ariances	t-test for equality of variance				
		F F	Sig.	T	Df	Sig. (2-tailed)	Null hypothesis (H0)	
Students acquire enough job skills	Equal variances assumed	6.014	.016	1.328	78	.188	Retain	
after the completion of the course.	Equal variances not assumed			1.248	51.489	.218		
Training/internship provided is	Equal variances assumed	1.533	219	1.698	78	.093	Retain	
sufficient for them to place on the job.	Equal variances not assumed			1.654	58.393	.104		
Confident that the trained students	Equal variances assumed	4.380	.040	1.055	79	.294	Retain	
are competent to take up the job.	Equal variances not assumed			1.000	53.027	.322		
Curriculum framed by the authority	Equal variances assumed	2.659	.107	.951	78	.345	Retain	
is relevant to the job required by the industries.	Equal variances not assumed			.920	57.111	.361		
Changes in courses should be made	Equal variances assumed	2.060	.155	159	78	.874	Retain	
to meet the expectations of the employer.	Equal variances not assumed			166	73.311	.868		
Need to proper implementation of	Equal variances assumed	.501	.481	736	78	.464	Retain	
skill development mission in the state.	Equal variances not assumed			783	75.477	.436	Retain	
Skill development courses are better	Equal variances assumed	.079	.779	.466	78	.642		
than general courses to get jobs.	Equal variances not assumed			.475	67.853	.636	Retain	
Skill courses have very much scope	Equal variances assumed	.041	.841	1.466	78	.147		
in the present employment field.	Equal variances not assumed			1.457	62.632	.150	Retain	
Students with skill courses are more	Equal variances assumed	.474	.493	2.046	78	.044	Reject	
competent than the general stream.	Equal variances not assumed			2.049	64.203	.045		
Trained students get job soon after	Equal variances assumed	1.177	.281	1.028	79	.307	Retain	
completion of course.	Equal variances not assumed			1.006	59.394	.318		

4.6.1.1 Students acquire enough job skills.

In table 4.2 an attempt was made to find the opinions from the Head of the Institutions (Gender wise) with regards to the level of skill acquire by the students after the completion of course. It is observed that majority of the respondents (male and female) i.e. 58.8% Agreed and 20% strongly Agreed whereas 10%, 8.8 % and 2.5% were neutral, disagreed and strongly disagreed respectively. It also shows that majority of the institutional heads i.e. around 63.3% of Males and 51.6% of Females respondents agreed while small percentage of respondents Male and Female were either neutral or unfavourale. It means that majority (i.e. 78.8%) Institutional Heads (male and female) feel that students acquire enough job skill through skill courses after the completion of the course.

The *Mean* score between the Male and Female respondents (table 4.3) is 3.96 and 3.68 respectively. It means that both sexes do not have much difference in their opinions and feels that students do acquire sufficient job knowledge after completion of their respective course. It is the male respondent who feels that students acquire enough job knowledge than female respondents.

The data was further analyzed in table 4.4 with the help of 't' test. In this case, the F ratio for Levene's test for equality of variance is significant (p<0.05) and therefore we take the 't' value corresponding to equal variance not assumed. The P-value in this case is 0.218 which is greater than 0.05, thus we can say that both sexes do not have any significant difference in their opinions whether it is a male and female respondents, they feels that students do acquire enough job skills during their course work. It means that there is no significant difference in opinion between gender towards students acquiring enough job skills after the completion of course work.

4.6.1.2 Training/internship provided is sufficient.

The data collected in table 4.2 shows that 43.8% and 16.2% of the respondents agreed and strongly agreed whereas 15% disagreed, 2.5% strongly disagreed and 22.5% of the respondents were neutral. It also reveals that majority of the respondent i.e. male 49.0% and Female 35.5% agreed and remaining respondents were neutral or unfavourable. It means that the majority of the respondents (60%) were in favour of internship provided in the industry or practical training by the institutes is sufficient for them to place on their respective job. Even though Head of the Departments feel that training is sufficient, they also opined during the personal interview that it is necessary to make internship mandatory for one term for each and every course irrespective of any stream.

Further, the *Mean* score between Male and Female institutional heads (table 4.3) is 3.71 and 3.32, which implies that between Male and Female students, the male respondents who are more favourable towards internship provided by the institutions is sufficient for the students to place them on the job than female respondents. The reason may be wherever male institutional heads are working in the institutions there it may be the students have given a positive feedback of internship. However overall results shows that both sexes of respondents are happy towards internship/ training provided is sufficient.

In case of the 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.4) is not significant (0.219). So also 't' value for equality of means is 0.093 and its corresponding p value is 0.104 which is higher than 0.05 at 5 % level of significance. It means that there is no significant difference between the Male and Female respondents towards training or internship provided and they believe that it is quite sufficient to place students on the job.

4.6.1.3 Confidence in students to take up job.

The overall result in table 4.2 depicts that 51.9% and 25.9% of the respondents agreed and strongly agreed respectively whereas only 9.9% and 2.5% disagreed and strongly agreed while 9.9% of the respondents were neutral. The majority (56.0%) of male and (45.2%) of female respondents were agreed. It indicates that majority of male and female respondents (77.8%) are in favour of student's confidence for taking up job in their respective skill courses.

The *mean* score between Male and Female respondents (table 4.3) is 3.98 and 3.74 respectively. It means that the level of confidence in Male respondents is higher than the Female respondents towards students in taking up the job.

The F ratio for Levene's test for equality of variance (table 4.4) is significant (0.040) which is less than 0.05 at 5% level of significance. Hence we take the t value of equal variance not assumed. The t value 1.000 and its corresponding t value is 0.322 which is higher than 0.05 at 5% level of significance. It means that the two sexes are not significantly different in their opinions towards student's competency to take up job in their respective field. Both sexes of respondents have enough confidence in students that the students are fully competent to take up any sort of job in the area of training they are trained.

4.6.1.4 Curriculum framed.

Table 4.2 reveals that 53.8% of the respondents agreed and 20% strongly agreed, 11.2% of the respondents were neutral, 11.2% disagreed and only 3.8% strongly disagreed. It also depicts that majority of males (57.1%) and Females (48.4%) agreed that that curriculum framed by the authority is as per the requirement of the industries. It means that majority of the respondents (i.e. 73.8%) and both sections of respondents are favourable to the curriculum framed by the concern authority is relevant and as per the requirement of the industries.

The *Mean* score between Male and Female respondents (table 4.3) is 3.84 and 3.61 respectively. This also shows that there does not exist much difference in the perspectives between male and female institutional heads. But between Male and Female respondents, Male respondents have an edge over Female respondents as far as framing of curriculum is concerned. Male respondents are more favourable towards framing of curriculum is relevant to the requirement of industries than female respondents.

The Levene's test for equality of variance (table 4.4) is not significant (0.107) where the P value is greater than 0.05. The 't' value is 0.951 and the corresponding p value is 0.345 which is not significant. It means that there is no significant difference between the gender of the institutional heads and the curriculum framed by the concern authority.

4.6.1.5 Changes required to meet expectations of the employers.

Table 4.2 indicates that 38.8% and 22.5% of the respondents agreed and strongly agreed respectively, 17.5% disagreed, 3.8% strongly disagreed and 17.5% were neutral. So also majority of males (38.8%) and Females (38.7%) were agreed to the comment that changes in the courses need to be made to meet the expectations of the employers. It reveals that even though majority of the respondents (commented earlier) that the curriculum is good, most of respondents (61.3%) feel that the courses should be modified from time to time as per the changing demands of the employers.

The *Mean* score between Male and Female respondents (table 4.3) is 3.57 and 3.61 respectively. This shows that there does not exist much difference in the perspectives between male and female institutional heads. But the female respondents have an edge over Male respondents towards requirement s of changes to be made to meet expectations of the employers.

In case of the 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.4) is not significant i.e. 0.155 (P>0.05). The 't' value for equality of means is -0.159 and its corresponding p value is 0.874 which is higher than 0.05 at 5 % level of Significance. It means that there is no significant difference between the Male and Female respondents and requirement of changes to meet expectations of the employers. In other words both Male and Female respondents equally feels that some changes should be made to meet expectations of the employers.

4.6.1.6 Implementation of skill development mission

The table 4.2 shows that majority of the respondents i.e. 48.8% strongly agreed and 46.2% agreed whereby 3.8% were neutral and only 1.2% were strongly disagreed. The above table also shows that 46.9% of males and 51.6% of Females strongly agreed that there is a need to the proper implementation of skill development mission in the state. It indicates that majority of the respondents (95%) feels that skill mission is still not yet properly implemented in the state of Goa. There is a need to implement skill mission in the state with due care, so that students will get utmost benefit out of it to improve their skills and to get the jobs.

The *mean* score between Male and Female respondents (table 4.3) is 4.37 and 4.48 respectively. This reveals that there is high need to proper implementation of skill development programmes though Female respondents have shown some interest over their counterparts towards implementation of skills programmes in Goa.

According to their test analyses, the F ratio for Levene's test for equality of variance (table 4.4) is not significant i.e. (0.481) where P>0.05. The 't' value for equality of means is -0.736 and its corresponding p value is 0.464 which is higher than 0.05 at 5 % level of Significance. It means that there is no significant difference between Male and Female respondents towards need to proper implementation of skill development programmes. In other words both Male and Female respondent have similar opinion that skill development programmes need to be implemented properly.

4.6.1.7 Skill development courses are better than general courses.

From the table 4.2 to comment on whether skill courses are better than general courses to get the jobs, it is observed that 43.8% and 36.2% of the respondents strongly agreed and agreed whereas 16.2% were neutral and 2.5% and 1.2% were disagreed and strongly disagreed. It also shows that majority of males (44.9%) and females 41.9%) were strongly agreed. It means majority of the respondents (80%) are in the favour of skill courses that they are better than the general courses. It indicates that students who are joining skill courses get jobs easier and faster as compared to students from general courses.

The *Mean* score between Male and Female respondents (table 4.3) is 4.22 and 4.13 respectively. It means that Male institutional heads are at the forefront in their opinion that skill development programmes are better than general courses than female respondents.

The Levene's test for equality of variance (table 4.4) is not significant (.779) where the P>0.05. The 't' value is 0.466 and the corresponding p value is 0.642 which is not significant. It means that there is no significant difference between the gender and their perspectives towards SDP are better than general courses to get job. Both the sexes of the respondents opined that skill development courses are always better and has a upper hand as compared to general courses to get jobs.

4.6.1.8 Scope for Skill courses

In table 4.2 an attempt was made to find if there is very much scope for skill courses in the present employment field which shows that majority 43.8% of the respondents strongly agreed and 41.2% agreed whereas 11.2% were neutral, 2.5% disagreed and 1.2% strongly disagreed. So also majority of males (49%) had strongly agreed and females (38.7%) agreed. It means that majority of the respondents (i.e. 85%) are in the favour that there is a lot of scope for skill courses in the present employment field.

The *Mean* score between male and female respondents (table 4.3) is 4.35 and 4.06 respectively which indicates that male respondents are more positive towards skill courses having more scope for employment than female respondents.

The F ratio for Levene's test of equality of variance (table 4.4) is not significant (0.841). The p value is 0.147 which is higher than 0.05 at 5 % level of significance. The 't' value is 1.466 and its corresponding p value is 0.147 which is more than 0.05, which indicates that there is no significant difference between male and Female in thinking that there is a very good scope for skill courses for the employment.

4.6.1.9 Skill courses students are more competent than the general stream

Table 4.2 shows whether students with skill courses are more competent than the general stream which reveals that 36.2% and 33.8% has agreed and strongly agreed while 22.5% were neutral, 6.2% were disagreed and 1.2% disagreed, so also in case of gender majority of male respondents 40.8% had strongly agreed and female respondents 35.5% agreed. It means the majority of the respondents (70%) had accepted that students with skill courses are more competent than the general stream when they take up job.

The *mean* score between the male and female respondents (table 4.3) is 4.12 and 3.68 respectively, which shows that between the Male and Female institutional heads, the Male respondents are more favourable towards skill courses students are more competent than the general streams as compared to Female respondents.

In case of 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.4) is not significant (0.493) wherein the P value is more than 0.05. The 't' value is 2.046 and its corresponding p value is 0.044 which is lower than 0.05. This means that there exist a significant difference between Male and female respondents who feel that skill courses students are more competent than the general course.

4.6.1.10 Trained students get job soon.

It is can be observed from table 4.2 that majority i.e. 37% of the institutional heads agreed and 21% strongly agreed but 27.2 % were neutral without any comments, while 13.6 disagreed and 1.2% strongly disagreed. So also 40% of male respondents and 32.3% female agreed that trained students under skill courses gets jobs soon and faster after the completion of the course. It means majority of the respondents (58%) are favourable towards students pass out from skill courses gets job easily and soon after the completion of course.

The *Mean* score between the Male and Female institutional heads (table 4.3) is 3.72 and 3.48 respectively, which reveals that in-between the Male and female institutional heads, Male respondents are more favourable and to the trained students get job faster and soon after completion of the course as compared to Female respondents.

The F ratio for Levene's test for equality of variance (table 4.4) is not significant (0.281) i.e. P value is greater than 0.05 at 5% level of significance. In this case P value is 0.307 which is higher than 0.05 at 5% level of Significance. This means that there is no significant difference between the Male and Female respondents towards trained students getting job soon after completion of their course.

To sum up the perspectives of institutional heads on the basis of Gender, the *Mean* score between Male and Female respondents in most of all attributes shows that there is no much significant difference except in case of *Students with skill courses are more competent than the general stream*, there is a significant difference in mean i.e. male (4.12) and female (3.68). It means that both sexes do not have any difference in their opinion except in only one variable whereby male respondent feels that students

with skills courses are more competent than female respondents. Sig. (2-tailed) value at 5% significance shows that p is less than 0.05. So, whether it is a Male or Female, there is no difference between the two groups in their opinions for most of the statements tested. The data was analyzed with the help of Levene's test for equality of variance whereby in most of the attributes there is no significant difference. The 't' value of Independent sample t- test for equal variances in most of the attributes is also not significant except in case of *Students with skill courses are more competent than the general stream* (p is less than 0.05) i.e. (.044) and (.045) in equal variance not assumed, thus the null hypothesis is accepted.

4.6.2 Location

The total 81 students were surveyed out of which 43 (53.1%) were from urban and the remaining 38 (46.9%) were from rural areas. The following below paragraphs gives a brief analysis based upon the responses given by the Institutional heads. The Table **4.5** gives the *quantitative data* along with the percentages, Table **4.6** gives the *Mean* score between the Rural and Urban institutional heads and Table **4.7** gives their *t-test* values between rural and Urban respondents.

H02: There is no significant difference in the perspectives of Institutional Heads of Urban and Rural areas in Goa.

Table 4.5: Table showing frequencies of Institutional Heads (Location)

Statements	Scale	Location			Total		
		R	Rural	U	rban		
		N	%	N	%	N	%
	SDA	0	0.0%	2	5.4%	2	2.5%
	DA	5	11.6%	2	5.4%	7	8.8%
Students acquire enough job skills after the completion of the course.	N	3	7.0%	5	13.5%	8	10.0%
	Α	26	60.5%	21	56.8%	47	58.8%
	SA	9	20.9%	7	18.9%	16	20.0%
	SDA	0	0.0%	2	5.4%	2	2.5%
	DA	8	18.6%	4	10.8%	12	15.0%
Training/internship provided is sufficient for them to place on the job.	Z	9	20.9%	9	24.3%	18	22.5%
	Α	20	46.5%	15	40.5%	35	43.8%
	SA	6	14.0%	7	18.9%	13	16.2%
	SDA	0	0.0%	2	5.4%	2	2.5%
	DA	6	13.6%	2	5.4%	8	9.9%
Confident that the trained students are competent to take up the job.	Z	5	11.4%	3	8.1%	8	9.9%
	Α	21	47.7%	21	56.8%	42	51.9%
	SA	12	27.3%	9	24.3%	21	25.9%
	SDA	0	0.0%	3	8.1%	3	3.8%
	DA	7	16.3%	2	5.4%	9	11.2%
Curriculum framed by the authority is relevant to the job required by	Z	5	11.6%	4	10.8%	9	11.2%
the industries.	Α	23	53.5%	20	54.1%	43	53.8%
	SA	8	18.6%	8	21.6%	16	20.0%

Changes in course should be made to meet the expectations of the employer. Need to proper implementation of skill development mission in the state.	DA N	10	22.20/			3	3.8%
employer. Need to proper implementation of skill development mission in the	N I		23.3%	4	10.8%	14	17.5%
Need to proper implementation of skill development mission in the	IN	4	9.3%	10	27.0%	14	17.5%
1 1 1	Α	18	41.9%	13	35.1%	31	38.8%
1 1 1	SA	11	25.6%	7	18.9%	18	22.5%
1 1 1	SDA	0	0.0%	1	2.8%	1	1.2%
1 1 1	DA	0	0.0%	0	0.0%	0	0.0%
state.	N	1	2.3%	2	5.6%	3	3.8%
Suite.	Α	17	38.6%	20	55.6%	37	46.2%
	SA	26	59.1%	13	36.1%	39	48.8%
	SDA	0	0.0%	1	2.8%	1	1.2%
Skill development courses are better than general courses to get jobs.	DA	0	0.0%	2	5.6%	2	2.5%
	N	6	13.6%	7	19.4%	13	16.2%
	Α	16	36.4%	13	36.1%	29	36.2%
	SA	22	50.0%	13	36.1%	35	43.8%
	SDA	0	0.0%	1	2.8%	1	1.2%
	DA	0	0.0%	2	5.6%	2	2.5%
Skill courses have very much scope in the present employment field.	N	4	9.1%	5	13.9%	9	11.2%
	Α	18	40.9%	15	41.7%	33	41.2%
	SA	22	50.0%	13	36.1%	35	43.8%
	SDA	0	0.0%	1	2.8%	1	1.2%
Students with skill severes are more commetent than the consul	DA	2	4.5%	3	8.3%	5	6.2%
Students with skill courses are more competent than the general stream.	N	8	18.2%	10	27.8%	18	22.5%
Stream.	Α	17	38.6%	12	33.3%	29	36.2%
	SA	17	38.6%	10	27.8%	27	33.8%
	SDA	0	0.0%	1	2.7%	1	1.2%
	DA	7	15.9%	4	10.8%	11	13.6%
Trained students get job soon after completion of course.	N	10	22.7%	12	32.4%	22	27.2%
	Α	18	40.9%	12	32.4%	30	37.0%
	SA	9	20.5%	8	21.6%	17	21.0%

(Source: Primary survey)

(Note: All sample respondents have not responded, so total sample respondent are less.)

Table 4.6: Table showing Group statistics of Institutional Heads (Location)

Statements	Location	N	Mean	Std. Deviation
Students acquire an eyel ich drills often the completion of the covers	Rural	43	3.91	.868
Students acquire enough job skills after the completion of the course.	Urban	37	3.78	1.004
Training/internship provided is sufficient for them to place on the job.	Rural	43	3.56	.959
Training/internship provided is sufficient for them to place on the job.	Urban	37	3.57	1.094
Confident that the trained students are competent to take up the job.	Rural	44	3.89	.970
Confident that the trained students are competent to take up the job.	Urban	37	3.89	1.022
Cumicalum framed by the cuthonity is relevant to the ich required by the industries	Rural	43	3.74	.954
Curriculum framed by the authority is relevant to the job required by the industries.	Urban	37	3.76	1.116
Changes in course should be made to meet the expectation sof the employers.	Rural	43	3.70	1.103
	Urban	37	3.46	1.169
Need of the hour to proper implementation of skill development mission in the	Rural	44	4.57	.545
state.	Urban	36	4.22	.797
Skill development courses are better than general courses to get jobs.	Rural	44	4.36	.718
Skin development courses are better than general courses to get jobs.	Urban	36	3.97	1.028
Chill covered have your much soons in the present apple yourset field	Rural	44	4.41	.658
Skill courses have very much scope in the present employment field.	Urban	36	4.03	1.000
Students with skill courses are more competent than the general stream	Rural	44	4.11	.868
Students with skill courses are more competent than the general stream.	Urban	36	3.75	1.052
Trained students get job soon after completion of course.	Rural	44	3.66	.987
Trained students get job soon after completion of course.	Urban	37	3.59	1.040

Table 4.7: Table showing t-test analyses of Institutional Heads (Location)

Statements		Levene for equa	t-te	st for eq	uality of	means	
		varia	nce				
		F	Sig.	T test	Df	Sig. (2-tailed)	Null hypothesis (H0)
Students acquire enough job skills after	Equal variances assumed	.803	.373	.589	78	.558	Retain
the completion of the course.	Equal variances not assumed			.582	71.756	.562	Retain
Training/internship provided is sufficient	Equal variances assumed	.410	.524	041	78	.967	Retain
for them to place on the job.	Equal variances not assumed			041	72.257	.968	Retain
Confident that the trained students are	Equal variances assumed	.118	.732	025	79	.980	Retain
competent to take up the job.	Equal variances not assumed			025	75.117	.980	Retain
Curriculum framed by the authority is	Equal variances assumed	.155	.695	054	78	.957	Retain
relevant to the job required by the industries.	Equal variances not assumed			054	71.324	.957	Retain
Changes in course should be made to	Equal variances assumed	.098	.755	.937	78	.352	Retain
meet the expectations of the employers.	Equal variances not assumed			.933	74.699	.354	Retain
Need to proper implementation of skill	Equal variances assumed	.334	.565	2.298	78	.024	Reject
development mission in the state.	Equal variances not assumed			2.215	59.828	.031	Reject
Skill development courses are better than	Equal variances assumed	1.201	.277	2.000	78	.049	Reject
general courses to get jobs.	Equal variances not assumed			1.931	60.672	.058	Retain
Skill courses have very much scope in	Equal variances assumed	.933	.337	2.047	78	.044	Reject
the present employment field.	Equal variances not assumed			1.966	58.276	.054	Retain
Students with skill courses are more	Equal variances assumed	2.011	.160	1.694	78	.094	Retain
competent than the general stream.	Equal variances not assumed			1.662	67.756	.101	Retain
Trained students get job soon after	Equal variances assumed	.131	.718	.286	79	.776	Retain
completion of course.	Equal variances not assumed			.285	75.117	.777	Retain

4.2.2.2.1 Students acquire enough job skills.

In table 4.5 an attempt was made to find the opinions from the Head of the Institutions (Location wise) regards to the level of skill acquire by the students after the completion of course. It is observed that majority of the respondents i.e. 60.5% of Rural and 56.8% of Urban respondents agreed while small percentage of respondents from Rural and urban were either neutral or unfavourable. It means that majority of the Institutional Heads from Rural as well as Urban areas feel that students acquire enough job skill through skill courses after the completion of the course.

The *Mean* score between the Rural and Urban respondents (table 4.6) is 3.91 and 3.78 respectively. It means that there is no much difference in their opinions and it is the rural respondent who favours more that students acquire enough job knowledge than the urban respondents.

The data was further analyzed with the help of 't' test. In this case, the F ratio for Levene's test for equality of variance (table 4.7) is not significant (F=0.803, P=0.373>0.05) at 5% level of significance. The 't' value for equality of means is not significant (t=0.803, P=0.558>0.05) at 5% level of significance. It means that there is no significant difference between the rural and urban respondents whereby rural as well as urban respondents are favourable with reference to perspectives on training or internship provided is quite enough to place students on the job.

4.6.2.2 Training/internship provided is sufficient.

The data collected was analyzed in table 4.5 which reveals that majority of the respondent i.e. Rural (46.5%) and Urban (40.5%) agreed and remaining respondents were either neutral or not favourable. It means that the majority of the respondents whether they were from rural or urban area favours that internship provided in the industry or practical training by the institutes is quite sufficient for them to place on their respective job. it is suggested that it is necessary to make internship mandatory for one term for each and every course.

Further, the *Mean* score between Rural and Urban institutional heads (table 4.6) is 3.56 and 3.57, which indicates that the respondents from two different location are more or less equally favourable towards internship provided by the institutions is sufficient for the students to place them on the job. The urban respondents are slightly more favourable than rural respondents. However overall results shows that both respondents from rural as well as urban are happy towards internship/ training provided and they feel it is sufficient.

In case of the 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.7) is not significant (F=0.410, p=0.524>0.05) at 5% level of significance. The 't' value for equality of means is -0.041 and its corresponding p value is 0.967 which is more than 0.05 at 5% level of significance. It indicates that there is no significant difference between the rural and urban which means rural and urban respondents are favourable towards training or internship provided is quite sufficient for the students to take up job in their respective field.

4.6.2.3 Confidence in students to take up job.

Table 4.5 shows that majority (47.7%) from Rural and (56.8%) from Urban were agreed which indicates that majority of the respondents from rural and urban areas are favourable towards student's confidence for taking up job in their respective skill courses.

The *mean* score between Male and Female respondents (table 4.6) is 3.89 each. It means that the both section of respondents are equally favourable and there is no difference in their perspectives that they are confident enough that trained students are competent to take up the job.

The Levene's test for equality of variance (table 4.7) is not significant (F=0.118, p=0.732>0.05) at 5% level of significance. The 't' value for equality of means is -0.025 and the its corresponding p value is 0.980 which is not significant. It means that there is no significant different between rural and urban respondents in their perspectives towards student's competency to take up job in their respective field. Both section of the respondents (rural and urban) are positively confident in the students that students are competent to take up any sort of job in the area they are trained.

4.6.2.4 Curriculum framed.

Table 4.5 depicts that majority of the rural respondents (53.5%) and urban respondents (54.1%) agreed to the curriculum framed by the authority is as per the requirement of the industries. It means both sections from rural as well as urban respondents are favourable to the curriculum framed by the concern authority is relevant and as per the requirement of the industries.

The *Mean* score between Rural and Urban respondents (table 4.6) is 3.74 and 3.76 respectively, which is not alarming, yet it speaks positively, as far as the opinions about skill development is concerned. This also shows that there does not exist much difference in the perspectives between rural and urban institutional heads, but the urban respondents are more favourable than rural respondents as far as framing of curriculum is concerned.

The Levene's test for equality of variance (table 4.7) is not significant (F=0.155, p=.695>0.05) at 5% level of significance. The 't' value is -0.054 and the corresponding p value is 0.957 which is not significant. It reveals that there is no significant difference between the rural and urban institutional heads which means both sections are favourable with reference to perspective on curriculum framed by the concern authority is relevant.

4.6.2.5 Changes required to meet expectations of the employers.

Table 4.5 shows that majority of the respondents from rural (41.9%) and from urban area (35.1%) were agreed to the statement that there is a need to make changes in the courses to meet the expectations of the employers. It means that the present course taught in the various institutions is not upto the mark to meet the expectations and demands of the employers. They believe that changes in the courses are required to meet the expectations of the employers.

The *Mean* score between Male and Female respondents (table 4.6) is 3.70 and 3.46 respectively. This shows that between rural and urban institutional heads, the rural respondents are more favorable than the urban respondents towards the requirement of changes to be made to meet expectations of the employers.

In case of the 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.7) is not significant i.e. 0.098 and P=0.755>0.05. The 't' value for equality of means is not significant (t=0.937, p=0.352>0.05) at 5 % level of Significance. It means that there is no significant difference between the rural and urban respondents and both section of respondents are favourable towards changes are require to be made to meet expectations of the employers. In other words, both rural as well as urban respondents feels that changes should be made to meet expectations of the employers.

4.6.2.6 Implementation of skill development mission

The table 4.5 indicates that majority of the respondents (59.1%) of rural strongly agreed and (55.6%) of urban agreed that there is a need to the proper implementation of skill development mission in the state. It means that majority of the respondents feel that the skill development mission is not implemented properly in the state of Goa.

The *mean* score between rural and urban respondents (table 4.6) is 4.57 and 4.22 respectively. This reveals that rural respondents are more concern towards implementation of skills programmes in Goa over urban respondents.

In case of 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.7) is not significant (p=0.565) whereby P value is more than 0.05 at 5% level of significance. The 't' value is 2.298 and its corresponding P value is 0.024 which is lower than 0.05. This indicates that there exists a significant difference between rural and urban respondents which means rural and urban respondents are unfavourable in their perspectives towards need to proper implementation of skill development mission in the state. It is the rural respondents who feel there is a need to proper implementation of skill mission and urban does not.

4.6.2.7 Skill development courses are better than general courses.

From the table 4.5 to comment on whether skill courses are better than general courses to get the jobs, it is observed that majority of rural respondents (50.0%) and urban 36.1%) were strongly agreed. It indicates from the perspectives of institutional heads that students with skill courses gets jobs faster than students from general courses.

The *Mean* score between rural and urban respondents (table 4.6) is 4.36 and 3.97 respectively which shows a significant difference in means among them. It indicates that rural institutional heads are at the edge in their opinion that skill development programmes are better than general courses than urban respondents.

The F ratio for Levene's test for equality of variance (table 4.7) is not significant (F=1.201, p=0.277>0.05) at 5% level of significance. The 't' value for equality of means is 2.000 and its corresponding p value is 0.049 which is lower than 0.05 at 5% level of significance. It depicts that there is significant difference between the rural and urban respondents which means both section of the respondents are not favourable towards their perspectives on skill courses are better than general courses to get job. The rural and urban institutional heads do not agree with each other where the rural respondents feel that students with skill courses are better than students with skill courses to get the job.

4.6.2.8 Scope for Skill courses

In table 4.5 an attempt was made to find whether there is a scope for skill courses in the present employment field. The majority of rural respondents (50.0%) had strongly agreed and urban respondents (41.7%) said they agree. It means the majority of the respondents from rural as well as urban area are favourable that there is a scope for skill courses in the present employment field.

The *Mean* score between rural and urban respondents (table 4.6) is 4.41 and 4.03 respectively which indicate that rural respondents are highly favourable towards skill courses having more scope for employment than urban respondents.

The F ratio for Levene's test for equality of variance (table 4.7) is not significant (F=0.933, p=0.337>0.05) at 5% level of significance. The 't' value for equality of means is 2.047 and its corresponding p value is 0.044 which is lower than 0.05 at 5% level of significance. It indicates that there is a significant difference between rural and urban institutional heads whereby they are unfavourable towards skill courses has very much scope for employment. They are the rural institutional heads feels that there is a scope for skill courses for employment but the urban institutional heads does not agree that there is scope for skill courses for the purpose of employment.

4.6.2.9 Skill courses students are more competent than the general stream

Table 4.5 shows whether students with skill courses are more competent than the general stream which reveals that majority of the rural respondents (38.6%) had strongly agreed and agreed equally whereas urban respondents (33.3%) agreed. It means the majority of the respondents accept that students with skill courses are more competent than the general stream for the job.

The *mean* score between the rural and urban respondents (table 4.6) is 4.11 and 3.75 respectively, which shows that between the rural and urban institutional heads, the rural respondents are more favourable as compared to urban respondents.

In case of 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.7) is not significant (2.011) and the P value (0.160) which is more than 0.05 at 5% level of significance. The 't' value is 1.694 and its corresponding p value is 0.094 which is higher than 0.05. This shows that there exist a no significant difference between rural and urban respondents whereby both section of respondents are favourable towards their perspective on students with skill courses are more competent than the general course.

4.6.2.10 Trained students get job soon.

It is can be observed from table 4.5 that majority of rural respondents agreed (40.9%) and urban respondents (32.4%) each agreed as well neutral that trained students under skill courses get job soon and faster after the completion of the course. It means majority of the respondents from rural are more favourable towards students pass out from skill courses gets job easily and soon after the completion of course than urban respondents.

The *Mean* score between the rural and urban institutional heads (table 4.6) is 3.66 and 3.59 respectively, which indicates that in-between the respondents from two districts the rural respondents are more favourable and they feel that trained students get job faster and soon after completion of the course as compared to urban respondents.

The F ratio for Levene's test for equality of variance (table 4.7) is not significant (F=0.131, p=0.718> 0.05) at 5% level of significance. The 't' value for equality of variance is 0.286 and its corresponding P value is 0.776 which is higher than 0.05 at 5% level of Significance. This means that there is no significant difference between the rural and urban respondents and both of them are favourable towards trained students getting job soon after completion of their course.

To sum up the perspectives of institutional heads on the basis of location, the data was analyzed with the help of Levene's test for equality of variance whereby in most of the attributes it is not significant. The 't' value of Independent sample t- test for equal variances in most of the attributes are not significant except in case of three attributes i.e. need to proper implementation of skill development programmes in the state, Skill development courses are better than general courses to get jobs and Students with skill courses are more competent than the general stream. The Sig. (2-tailed) value at 5% significance 'p' is less than 0.05 i.e. 0.024, 0.049, 0.044 respectively. The **Mean** score between Rural and Urban Head of the institutions in case of most of the attributes shows that there is no much more difference except in case of three statements i.e. Is it a need of the hour to proper implementation of skill development mission in the state, Skill development courses are better than general courses to get jobs and Students with skill courses are more competent than the general stream there is a difference in mean i.e. Rural (4.57, 4.36 and 4.41) and Urban (4.22, 3.97 and 4.03) respectively. It means that respondents from both regions do not differ in their opinion for most of the statements except in three statements a difference is noticed whereby mean value of rural respondents is more than urban respondents which indicates that rural institutional heads are more concern about skill development programmes than urban institutional heads. So, whether they are rural or urban respondents, there is no significant difference between the two groups in their opinions for most of the statements tested, thus the null hypothesis is accepted.

4.6.3 District

The state of Goa is divided into two different districts for geographical identification which includes North and South Goa. Out of 81 institutional heads surveyed, 48 (59%) institutional heads were from North Goa and 33 (41%) institutional heads were from south Goa. The Tables shown below give detailed information of the data analyzed. Tables 4.8 gives the frequencies, Table 4.9 gives the mean Score and Table 4.10 gives the 't' test values.

H03: There is no significant difference in the perspectives of Institutional Heads of North and South districts in Goa.

Table 4.8: Table showing frequencies of Institutional Heads (District)

Statements	Scale			Ι	District		
		N	Vorth		South		Total
		N	%	N	%	N	%
	SDA	0	0.0%	2	6.2%	2	2.5%
0.1	DA	6	12.5%	1	3.1%	7	8.8%
Students acquire enough job skills after the completion of the	N	4	8.3%	4	12.5%	8	10.0%
course.	Α	27	56.2%	20	62.5%	47	58.8%
	SA	11	22.9%	5	15.6%	16	20.0%
	SDA	0	0.0%	2	6.1%	2	2.5%
Tii/it	DA	8	17.0%	4	12.1%	12	15.0%
Training/internship provided is sufficient for them to place on the job.	N	11	23.4%	7	21.2%	18	22.5%
the job.	Α	21	44.7%	14	42.4%	35	43.8%
	SA	7	14.9%	6	18.2%	13	16.2%
	SDA	0	0.0%	2	6.1%	2	2.5%
Confident that the twined students are competent to take up the	DA	6	12.5%	2	6.1%	8	9.9%
Confident that the trained students are competent to take up the job.	N	7	14.6%	1	3.0%	8	9.9%
Job.	Α	23	47.9%	19	57.6%	42	51.9%
	SA	12	25.0%	9	27.3%	21	25.9%
	SDA	0	0.0%	3	9.1%	3	3.8%
Curriculum framed by the concern authority is relevant to the	DA	7	14.9%	2	6.1%	9	11.2%
job required by the industries.	N	7	14.9%	2	6.1%	9	11.2%
Job required by the industries.	Α	22	46.8%	21	63.6%	43	53.8%
	SA	11	23.4%	5	15.2%	16	20.0%
	SDA	0	0.0%	3	9.1%	3	3.8%
Changes in course should be made to meet the expectations of	DA	10	21.3%	4	12.1%	14	17.5%
the employers.	N	6	12.8%	8	24.2%	14	17.5%
the employers.	Α	20	42.6%	11	33.3%	31	38.8%
	SA	11	23.4%	7	21.2%	18	22.5%
	SDA	0	0.0%	1	3.0%	1	1.2%
Is it a need of the hour to proper implementation of skill	DA	0	0.0%	0	0.0%	0	0.0%
development mission in the state.	N	1	2.1%	2	6.1%	3	3.8%
development mission in the state.	Α	22	46.8%	15	45.5%	37	46.2%
	SA	24	51.1%	15	45.5%	39	48.8%
	SDA	0	0.0%	1	3.0%	1	1.2%
Skill development courses are better than general courses to get	DA	0	0.0%	2	6.1%	2	2.5%
jobs.	N	9	19.1%	4	12.1%	13	16.2%
jobs.	Α	18	38.3%	11	33.3%	29	36.2%
	SA	20	42.6%	15	45.5%	35	43.8%
	SDA	0	0.0%	1	3.0%	1	1.2%
Skill courses have very much scope in the present employment	DA	1	2.1%	1	3.0%	2	2.5%
field.	N	8	17.0%	1	3.0%	9	11.2%
neid.	Α	17	36.2%	16	48.5%	33	41.2%
	SA	21	44.7%	14	42.4%	35	43.8%
	SDA	0	0.0%	1	3.0%	1	1.2%
Students with skill courses are more competent than the general	DA	2	4.3%	3	9.1%	5	6.2%
stream.	N	13	27.7%	5	15.2%	18	22.5%
	Α	18	38.3%	11	33.3%	29	36.2%
	SA	14	29.8%	13	39.4%	27	33.8%
]	SDA	0	0.0%	1	3.0%	1	1.2%
	DA	8	16.7%	3	9.1%	11	13.6%
Trained students get job soon after completion of course.	N	11	22.9%	11	33.3%	22	27.2%
	Α	20	41.7%	10	30.3%	30	37.0%
	SA	9	18.8%	8	24.2%	17	21.0%

(Source: Primary survey)

(Note: All sample respondents have not responded, so total sample respondent are less.)

Table 4.9: Table showing Group statistics of Institutional Heads (District)

Statements	District	N	Mean	Std. Deviation	Std. Error Mean
Students acquire enough job skills after the completion of the	North	48	3.90	.905	.131
course.	South	32	3.78	.975	.172
Training/internship provided is sufficient for them to place on	North	47	3.57	.950	.139
the job.	South	33	3.55	1.121	.195
Confident that the trained students are competent to take up the	North	48	3.85	.945	.136
job.	South	33	3.94	1.059	.184
Curriculum framed by the concern authority is relevant tothe	North	47	3.79	.977	.142
job required by the industries.	South	33	3.70	1.104	.192
Changes in course should be made to meet the expectations of	North	47	3.68	1.065	.155
the employers.	South	33	3.45	1.227	.214
Is it a need of the hour to proper implementation of skill	North	47	4.49	.547	.080
development mission in the state.	South	33	4.30	.847	.147
Skill development courses are better than general courses to get	North	47	4.23	.758	.111
jobs.	South	33	4.12	1.053	.183
Skill courses have very much scope in the present employment	North	47	4.23	.813	.119
field.	South	33	4.24	.902	.157
Students with skill courses are more competent than the general	North	47	3.94	.870	.127
stream.	South	33	3.97	1.104	.192
Trained students get ich seen after completion of severe	North	48	3.63	.981	.142
Trained students get job soon after completion of course.	South	33	3.64	1.055	.184

Table 4.10: Table showing t-test analyses of Institutional Heads (District)

Statements		Equa	's Test for ality of iances				
		F	Sig.	T	Df	Sig. (2-tailed)	Null Hypothesis (H0)
Students acquire enough job	Equal variances assumed	.041	.841	.538	78	.592	Retain
skills after the completion of the course.	Equal variances not assumed			.530	63.098	.598	Retain
Training/internship provided	Equal variances assumed	.771	.383	.125	78	.901	Retain
is sufficient for them to place on the job.	Equal variances not assumed			.121	61.529	.904	Retain
Confident that the trained	Equal variances assumed	.162	.689	380	79	.705	Retain
students are competent to take up the job.	Equal variances not assumed			372	63.651	.711	Retain
Curriculum framed by the concern authority is relevant	Equal variances assumed	.008	.929	.386	78	.701	Retain
to the job required by the industries.	Equal variances not assumed			.377	63.510	.707	Retain
Changes in course should be	Equal variances assumed	.885	.350	.878	78	.382	Retain
made to meet the expectations of the employers.	Equal variances not assumed			.857	62.633	.395	Retain
Is it a need of the hour to proper implementation of	Equal variances assumed	1.779	.186	1.196	78	.235	Retain
skill development mission in the state.	Equal variances not assumed			1.111	50.441	.272	Retain
Skill development courses	Equal variances assumed	1.563	.215	.558	78	.579	Retain
are better than general courses to get jobs.	Equal variances not assumed			.527	54.480	.600	Retain
Skill courses have very	Equal variances assumed	.126	.723	043	78	.966	Retain
much scope in the present employment field.	Equal variances not assumed			043	64.346	.966	Retain
Students with skill courses	Equal variances assumed	1.161	.285	152	78	.880	Retain
are more competent than the general stream.	Equal variances not assumed			146	58.294	.885	Retain
Trained students get job	Equal variances assumed	.197	.658	050	79	.961	Retain
soon after completion of course.	Equal variances not assumed			049	65.572	.961	Retain

4.6.3.1 Students acquire enough job skills.

In table 4.8 perspectives of the Head of the Institutions (District wise) were collected to find the level of skill acquire by the students after the completion of course. In this case, majority of the respondents i.e. 56.2% of North and 62.5% of South respondents agreed while 22.9% and 15.6% from North and South district respectively had strongly agreed and a small percentage of respondents were either neutral or unfavourable. However if we put together entire result, we can say that majority of the Institutional Heads from Rural as well as Urban areas were strongly favourable to the students acquire enough job skill through skill courses after the completion of the course.

The *Mean* score of the institutional heads between North and South respondents (table 4.9) is 3.90 and 3.78 respectively. It reveals that that there is no much difference in their opinions but they are the north respondent who favours more that students acquire enough job knowledge than the South respondents.

The F ratio for Levene's test for equality of variance (table 4.10) is not significant (F=0.041, P=0.841>0.05) at 5% level of significance. The 't' value for equality of means is not significant (t=0.538, P=0.592>0.05) at 5% level of significance. It means that there is no significant difference between the North and South respondents whereby respondents both districts are favourable with reference to training or internship provided is enough to place students on the job.

4.6.3.2 Training/internship provided is sufficient.

The data collected was analyzed in table 4.8 which reveals that majority of the respondent i.e. North (44.7%) and South (42.4%) agreed and few strongly agreed followed by 23.4% and 21.2% from north and south were neutral while remaining respondents were either disagreed and very negligible percentage of the respondents from South district strongly disagreed. The overall result shows that the majority of the respondents whether they are from rural or urban area favourable to internship provided in the industry or practical training by the institutes is quite sufficient for them to get job in their respective field.

Further, the *Mean* score between North and South institutional heads (table 4.9) is 3.57 and 3.55, which indicates that the respondents from two different location are more or less equally favourable towards internship provided by the institutions is

sufficient for the students to place them on the job but North respondents have edge over South respondents.

In case of the 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.10) is not significant (F=0.771, p=0.383>0.05) at 5% level of significance. The 't' value for equality of means is 0.125 and its corresponding p value is 0.901 which is more than 0.05 at 5% level of significance. It indicates that there is no significant difference between North and South district respondents. It means both sections of respondents are favourable towards training or internship provided is sufficient for the students to take up job in their respective field.

4.6.3.3 Confidence in students to take up job.

Table 4.8 shows that majority (47.9%) from north and (57.6%) from south agreed followed by 25.0% and 27.3 strongly agreed from north and south while the remaining respondents were either neutral and disagreed whereas strongly disagreed only from south district. The overall result indicates that majority of the respondents from rural and urban areas are favourable towards student's confidence for taking up job in their respective skill courses. They believe that students are confident enough to take up job.

The *mean* score between North and South respondents (table 4.9) is 3.85 and 3.94respectively which indicates that there is no much difference in their perspectives but respondents from South are more favourable and confident that trained students are competent to take up the job.

The Levene's test for equality of variance (table 4.10) is not significant (F=0.162, p=0.689>0.05) at 5% level of significance. The 't' value for equality of means is -0.380 and its corresponding p value is 0.705 which is not significant at 5% level of significance. It means there is no significant different between North and South respondents in their perspectives towards confidence in the student that they take up job in their respective field.

4.6.3.4 Curriculum framed.

Table 4.8 depicts that between North and South majority of the North respondents (46.8%) and South respondents (63.6%) agreed whereas (23.4%) and (15.2%) strongly agreed respectively. It means both sections of the respondents are favourable to the curriculum framed by the concern authority is relevant and as per the requirement of the industries.

The *Mean* score between North and South respondents (table 4.9) is 3.79 and 3.70 respectively which it speaks positively to the opinions about skill development is concerned. This also shows that North respondents are more favourable than South respondents as far as framing of curriculum is concerned.

The Levene's test for equality of variance (table 4.10) is not significant (F=0.008, p=.929>0.05) at 5% level of significance. The 't' value is -0.386 and the corresponding p value is 0.701 which is not significant. It reveals that there is no significant difference between the North and South institutional heads which means respondents from both the districts are favourable with regards to perspective on curriculum framed by the concern authority is relevant.

4.6.3.5 Changes required to meet expectations of the employers.

Table 4.8 shows that most of the respondents from rural (42.6%) and from urban area (33.3%) were agreed while (23.4%) and (21.2%) strongly agreed respectively and a small percentage of the respondents were neutral and disagreed whereas none from North and 9.1% from South Strongly agreed. It means that the present courses are not upto the mark and need to make changes in the course to meet the expectations of the employers.

The *Mean* score between North and South respondents (table 4.9) is 3.68 and 3.45 respectively. This shows that the North respondents are more favorable than the South respondents towards the requirement of changes to be made to meet expectations of the employers.

In case of the 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.10) is not significant i.e. (P=0.885, P=0.350>0.05. The 't' value for equality of means is not significant (t=0.878, p=0.382>0.05) at 5 % level of Significance. It means that there is no significant difference between the North and South respondents whereby both section of respondents are favourable towards changes are need to be made to meet expectations of the employers.

4.6.3.6 Implementation of skill development mission

The table 4.8 indicates that majority of the respondents (51.1%) and (45.5%) strongly agreed while (46.8%) and (45.5%) agreed from North and South respectively whereas very negligible percentage of respondent were either neutral or strongly disagree that there is a need to the proper implementation of skill development mission in the state. The entire result if we put together it reveals that majority of the respondents

opined that the skill development mission is not implemented properly in the state of Goa. It means that both section of the respondents are unfavourable that mission is implemented properly in the state.

The *mean* score between North and South respondents (table 4.9) is 4.49 and 4.30 respectively. This indicates that North respondents are having edge over South respondents towards implementation of skills programmes in Goa.

In case of 't' test analyses, the F ratio for Levene's test for equality of variance (table 4.10) is not significant (p=1.779) whereby P value is more than 0.05 (0.186) at 5% level of significance. The 't' value is 1.196 and its corresponding p value is 0.235 which is greater than 0.05. This indicates that there is no significant difference between North and South respondents which means both are them are favourable in their perspectives towards need to proper implementation of skill development mission in the state.

4.6.3.7 Skill development courses are better than general courses.

From the table 4.8 shows the perspectives on whether skill courses are better than general courses to get the jobs. It is observed that majority of respondents from North (42.6%) and South (45.5%) was strongly agreed while 38.3% and 33.3% agreed respectively. The combined result of the opinions given by institutional heads indicates that students with skill courses are better than students from general courses to get the job.

The *Mean* score between North and South respondents (table 4.9) is 4.23 and 4.12 respectively. It depicts that North institutional heads are more favourable than south institutional heads with regards to skill development programmes are better than general courses.

The F ratio for Levene's test for equality of variance (table 4.10) is not significant (F=1.563, p=0.215>0.05) at 5% level of significance. The 't' value for equality of means is not significant (0.558) and its corresponding p value is 0.579 which is more than 0.05 at 5% level of significance It depicts that there is no significant difference between the respondents from two different districts. It means both section of the respondents are favourable towards their perspectives on skill courses are better than general courses to get job.

4.6.3.8 Scope for Skill courses

In table 4.8 the majority of the respondents from North (44.7%) and (36.2%) strongly agreed and agreed respectively where respondents from South (48.5%) and (42.4%) agreed and strongly agreed respectively that there is a scope for skill courses in the present employment field. It means that most of the respondents from rural as well as urban area are favourable that there is very much scope for skill courses in the present employment field.

The *Mean* score between North and South respondents (table 4.9) is 4.23 and 4.24 respectively which shows no much difference in their perspectives but the respondents from South are slightly more favourable towards skill courses having more scope for employment than respondents from North district.

The F ratio for Levene's test for equality of variance (table 4.10) is not significant (F=0.126, p=0.723>0.05) at 5% level of significance. The 't' value for equality of means is -0.043 and its corresponding p value is 0.966 which is greater than 0.05 at 5% level of significance. It indicates that there is a no significant difference between North and South institutional heads whereby both of them are favourable towards skill courses has very much scope for employment.

4.6.3.9 Skill courses students are more competent than the general stream

Table 4.8 shows that majority of the North institutional heads (38.3%) and (29.8%) agreed and strongly agreed respectively whereas South institutional heads (39.4%) strongly agreed and (33.3%) agreed to the students with skill courses are more competent than the general stream. The combined result reveals that the students with skill courses are more competent than the general stream on the job.

The *mean* score between the North and South respondents (table 4.9) is 3.94 and 3.97 respectively, which shows that between the North and South institutional heads, the South respondents are more positive towards students with skill courses are more competent than the general streams as compared to North respondents.

The F ratio for Levene's test for equality of variance (table 4.10) is not significant (1.161) and the P value (0.285) which is more than 0.05 at 5% level of significance. The 't' value is -0.152 and its corresponding P value is 0.880 which is higher than 0.05. This shows that there exist no significant differences between respondents from two different districts. It means both section of respondents are favourable towards their perspective on students with skill courses are more competent than the general course.

4.6.3.10 Trained students get job soon.

It is can be observed from table 4.8 that majority of North respondents (41.7%) and South respondents (30.3%) agreed whereas (18.8%) from North and (24.2%) from South strongly agreed while a sizeable percentage of respondents (22.9%) and (33.3%) respectively were neutral that the trained students under skill courses get job soon after the completion of the course. It means that majority of the respondents are favourable towards students pass out from skill courses gets job soon after the completion of course than urban respondents but a good number of respondents were neutral.

The *Mean* score between the rural and urban respondents (table 4.9) is 3.63 and 3.64 respectively, which indicates that in-between the respondents from two different districts they are South respondents who are more favourable. The respondents from South district feels that trained students get jobs faster and soon after completion of the course as compared to North respondents.

The F ratio for Levene's test for equality of variance (table 4.10) is not significant (F=0.197, p=0.658> 0.05) at 5% level of significance. The 't' value for equality of variance is -0.050 and its corresponding P value is 0.961 which is higher than 0.05 at 5% level of Significance. This means that there is no significant difference between North and South respondents and both of them are favourable towards trained students getting job soon after completion of their course.

To sum up the perspectives of institutional heads on the basis of location, the analyses of with the help Levene's test for equality of variance in all 10 statements shows not significant. The 't' value of Independent sample t- test for equal variances in all the attributes is also not significant i.e. 'p' is more than 0.05 so also in case of equal variance not assumed. Sig. (2-tailed) value at 5% significance shows that p is more than 0.05. The *Mean* score between North and South Head of the institutions in case of all attributes shows that there is no much more difference. It means that respondents from both districts do not differ in their opinion in case of all the statement. So, whether respondents are from North or South district, there is no difference between the two groups in their opinions for all the statements tested, **thus the null hypothesis is accepted.**

4.6.4 Taluka

The data collected from institutional heads was analyzed on the basis of talukas. The total respondents were 81, collected from 7 talukas out of 12 talukas namely Pernem (12), Bardez (10), Tiswadi (13), Ponda (14), Salcete (21), Mormugao (9), and Dharbandora (3). The statistical tools such as Percentage and One way ANOVA was used to analyze the data. Table **4.11** gives the **Frequencies along with Percentages.** Table **4.12** gives the **One-way ANOVA values**.

H04: There is no significant difference in the perspectives of Institutional Heads of different taluka in Goa.

Table 4.11: Table showing frequencies of Institutional Heads (Talukas)

Staements	Scale	Pe	ernem	F	Bardez	Ti	swadi	Po	onda	S	alcete	Mo	rmugao	Dha	ırbandora	,	Total
		N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
C4	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	5.0%	1	11.1%	0	0.0%	2	2.5%
Students acquire	DA	2	18.2%	1	10.0%	1	7.7%	2	14.3%	0	0.0%	1	11.1%	0	0.0%	7	8.8%
enough job skills after the completion	N	2	18.2%	0	0.0%	1	7.7%	1	7.1%	3	15.0%	1	11.1%	0	0.0%	8	10.0%
of the course.	A	6	54.5%	7	70.0%	7	53.8%	9	64.3%	11	55.0%	6	66.7%	1	33.3%	47	58.8%
or the course.	SA	1	9.1%	2	20.0%	4	30.8%	2	14.3%	5	25.0%	0	0.0%	2	66.7%	16	20.0%
Training/internship	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	1	11.1%	0	0.0%	2	2.5%
provided is	DA	4	40.0%	1	10.0%	1	7.7%	2	14.3%	3	14.3%	1	11.1%	0	0.0%	12	15.0%
sufficient for them	N	2	20.0%	2	20.0%	5	38.5%	2	14.3%	3	14.3%	3	33.3%	1	33.3%	18	22.5%
to place on the job.	A	4	40.0%	5	50.0%	5	38.5%	9	64.3%	7	33.3%	4	44.4%	1	33.3%	35	43.8%
j	SA	0	0.0%	2	20.0%	2	15.4%	1	7.1%	7	33.3%	0	0.0%	1	33.3%	13	16.2%
Confident that the	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	1	11.1%	0	0.0%	2	2.5%
trained students are	DA	3	27.3%	0	0.0%	1	7.7%	2	14.3%	1	4.8%	1	11.1%	0	0.0%	8	9.9%
competent to take	N	3	27.3%	0	0.0%	2	15.4%	2	14.3%	1	4.8%	0	0.0%	0	0.0%	8	9.9%
up the job.	A	4	36.4%	7	70.0%	6	46.2%	8	57.1%	10	47.6%	6	66.7%	1	33.3%	42	51.9%
	SA	1	9.1%	3	30.0%	4	30.8%	2	14.3%	8	38.1%	1	11.1%	2	66.7%	21	25.9%
Curriculum framed	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	9.5%	1	11.1%	0	0.0%	3	3.8%
by the concern	DA	2	20.0%	0	0.0%	1	7.7%	0	28.6%	0	0.0%	1	11.1%	1	33.3%	9	11.2%
authority is relevant	N	1	10.0%	2	20.0%	4	30.8%		0.0%	1	4.8%	0	0.0%	1	33.3%		11.2%
to the job required by the industries.	A	4	40.0%	3	30.0%	6	46.2%	10	71.4%	13	61.9%	6	66.7%	0	33.3%	43 16	53.8%
	SA	0	30.0%	5	50.0%	0	15.4%	0	0.00.0	5	23.8%	1	11.1%	0	0.0%		20.0%
Changes in course	SDA	2	20.0%	0	0.0%	3	0.0%	5	0.0% 35.7%	1	9.5% 4.8%	1	11.1%	2	0.0% 66.7%	3 14	3.8% 17.5%
should be made to meet the	DA N	1	10.0%	0	0.0%	3	23.1%	2	14.3%	5	23.8%	3	11.1% 33.3%	0	0.0%	14	17.5%
expectations of the	A	5	50.0%	5	50.0%	6	46.2%	5	35.7%	8	38.1%	2	22.2%	0	0.0%	31	38.8%
employers.	SA	2	20.0%	5	50.0%	1	7.7%	2	14.3%	5	23.8%	2	22.2%	1	33.3%	18	22.5%
1 ,	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	0	0.0%	0	0.0%	1	1.2%
Need to proper implementation of	DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
skill development	N	0	0.0%	0	0.0%	1	8.3%	0	0.0%	1	4.8%	0	0.0%	1	33.3%	3	3.8%
mission in the	A	6	54.5%	4	40.0%	6	50.0%	7	50.0%	7	33.3%	6	66.7%	1	33.3%	37	46.2%
state.	SA	5	45.5%	6	60.0%	5	41.7%	7	50.0%	12	57.1%	3	33.3%	1	33.3%	39	48.8%
	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	0	0.0%	0	0.0%	1	1.2%
Skill development	DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	1	11.1%	0	0.0%	2	2.5%
courses are better	N	3	27.3%	1	10.0%	2	16.7%	2	14.3%	1	4.8%	3	33.3%	1	33.3%	13	16.2%
than general courses	A	4	36.4%	4	40.0%	5	41.7%	7	50.0%	5	23.8%	3	33.3%	1	33.3%	29	36.2%
to get jobs.	SA	4	36.4%	5	50.0%	5	41.7%	5	35.7%	13	61.9%	2	22.2%	1	33.3%	35	43.8%
	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	0	0.0%	0	0.0%	1	1.2%
Skill courses have	DA	0	0.0%	0	0.0%	1	8.3%	0	0.0%	1	4.8%	0	0.0%	0	0.0%	2	2.5%
very much scope in	N	3	27.3%	1	10.0%	2	16.7%	2	14.3%	0	0.0%	1	11.1%	0	0.0%	9	11.2%
the present employment field.	A	2	18.2%	5	50.0%	4	33.3%	7	50.0%	6	28.6%	6	66.7%	3	100.0%	33	41.2%
employment field.	SA	6	54.5%	4	40.0%	5	41.7%	5	35.7%	13	61.9%	2	22.2%	0	0.0%	35	43.8%
G. 1	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	0	0.0%	0	0.0%	1	1.2%
Students with skill	DA	0	0.0%	1	10.0%	0	0.0%	1	7.1%	1	4.8%	2	22.2%	0	0.0%	5	6.2%
courses are more	N	3	27.3%	2	20.0%	3	25.0%	4	28.6%	2	9.5%	3	33.3%	1	33.3%	18	22.5%
competent than the general stream.	A	6	54.5%	3	30.0%	5	41.7%	6	42.9%	5	23.8%	4	44.4%	0	0.0%	29	36.2%
general stream.	SA	2	18.2%	4	40.0%	4	33.3%	3	21.4%	12	57.1%	0	0.0%	2	66.7%	27	33.8%

Turing districts and	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.8%	0	0.0%	0	0.0%	1	1.2%
Trained students get	DA	1	9.1%	1	10.0%	2	15.4%	3	21.4%	1	4.8%	2	22.2%	1	33.3%	11	13.6%
job soon after	N	2	18.2%	2	20.0%	3	23.1%	5	35.7%	6	28.6%	4	44.4%	0	0.0%	22	27.2%
completion of	A	7	63.6%	5	50.0%	6	46.2%	3	21.4%	5	23.8%	3	33.3%	1	33.3%	30	37.0%
course.	SA	1	9.1%	2	20.0%	2	15.4%	3	21.4%	8	38.1%	0	0.0%	1	33.3%	17	21.0%

(Source: Primary survey)

(Note: All sample respondents have not responded, so total sample respondent are less.)

Table 4.12: Table showing ANOVA analyses of Institutional Heads (Talukas)

Statements		Sum of	Df	Mean	F	Sig.	Null Hypothesis
		Squares		Square			(H0)
Students acquire enough job skills after the	Between Groups	6.576	6	1.096	1.298	.269	Retain
completion of the course.	Within Groups	61.624	73	.844			
completion of the course.	Total	68.200	79				
Training/internship provided is sufficient for	Between Groups	7.098	6	1.183	1.158	.338	Retain
them to place on the job.	Within Groups	74.590	73	1.022			
them to place on the job.	Total	81.688	79				
Confident that the trained students are competent	Between Groups	10.163	6	1.694	1.848	.101	Retain
Confident that the trained students are competent to take up the job.	Within Groups	67.837	74	.917			
to take up the job.	Total	78.000	80				
Comingles formed by the comment with the	Between Groups	7.070	6	1.178	1.133	.352	Retain
Curriculum framed by the concern authority is	Within Groups	75.930	73	1.040			
relevant to the job required by the industries.	Total	83.000	79				
	Between Groups	11.901	6	1.984	1.618	.154	Retain
Changes in course should be made to meet the	Within Groups	89.486	73	1.226			
expectations of the employers.	Total	101.388	79				
N 1 4 C 1711	Between Groups	1.141	6	.190	.383	.888	Retain
Need to proper implementation of skill	Within Groups	36.246	73	.497			
development mission in the state.	Total	37.387	79				
01:11 1 1 1 1 1 1 1	Between Groups	3.605	6	.601	.749	.612	Retain
Skill development courses are better than general	Within Groups	58.583	73	.803			
courses to get jobs.	Total	62.188	79				
01:11 1 1 1 1	Between Groups	1.091	6	.182	.240	.962	Retain
Skill courses have very much scope in the present	Within Groups	55.397	73	.759			
employment field.	Total	56.488	79				
0. 1 . 24 121	Between Groups	7.585	6	1.264	1.394	.229	Retain
Students with skill courses are more competent	Within Groups	66.215	73	.907			
than the general stream.	Total	73.800	79				
T : 1 : 1 : 1 : 6 : 1 : 6	Between Groups	4.475	6	.746	.722	.633	Retain
Trained students get job soon after completion of	Within Groups	76.414	74	1.033			
course.	Total	80.889	80				

4.6.4.1 Students acquire enough job skills.

The perspectives of Institutional heads from different talukas (table 4.11) shows altogether more or less same perspectives for the level of skill acquired by the students after the completion of course. The result combined together reveales that majority of the respondents i.e. 63.6% from Pernem, 90% from Bardez, 84.6% from Tiswadi, 78.6% from Ponda, 80% from Salcete, 66.7% from Mormugao and 100% from Dharbandora are favourable. This means that the respondents from different talukas are favourable towards enough job skills are acquired by the students after the completion of course.

The **One way ANOVA** test (table 4.12) shows that the F value is 1.298 and its corresponding p value is 0.269 which is more than 0.05 at 5% level of significance. This means that there exists no significant difference in the perspectives between institutional heads from different talukas. It means according to institutional heads from different talukas opined that students acquire sufficient job skills after completion of the course.

4.6.4.2 Training/internship provided is sufficient.

The overall result (table 4.11) shows that the majority of the respondents i.e. 40.0% of Pernem, 70.0% of Bardez, 53.9% of Tiswadi, 71.4% of Ponda, 66.6% of Salcete, 44.4% of Mormugao and 66.6% of Dharbandora are favourable. This means that the respondents from different talukas are favourable towards internship provided in the industry or practical training by the institutes to the students is quite sufficient for them to get the job.

One way *ANOVA* test (table 4.12) shows that the F value is 1.158 and its corresponding p value is 0.338 which is more than 0.05 at 5% level of significance. It means that there exists no significant difference between the opinions of institutional heads from different talukas for training or internship provided by the institutions and industries respectively.

4.6.4.3 Confidence in students to take up job.

Table 4.11 shows that majority of the respondents i.e. 45.5% from Pernem, 100% fom Bardez, 77.0% from Tiswadi, 71.4% from Ponda, 85.7% from Salcete, 77.8% from Mormugao and 100% from Dharbandora are agreed and strongly agreed. The overall result indicates that majority of the respondents from different talukas are favourable towards student's confidence for taking up job in their respective skill courses.

The one way ANOVA Table 4.12 shows that the F value is 1.848 and its corresponding p value is 0.101 which is greater than 0.05 at 5% level of significance. Therefore we can say that there no significant difference between the perspectives of institutional heads from different talukas with reference to student's confidence in taking up the job in skill courses studied.

4.6.4.4 Curriculum framed.

The perspectives of respondents from different talukas (table 4.11) shows that the majority i.e. 70.0% of Pernem, 80.0% of Bardez, 61.6% of Tiswadi, 71.4% of Ponda, 85.7% of Salcete, 77.8% of Mormugao and 33.3% from Dharbandora are favourable. It means respondents from different talukas are favourable to the curriculum framed by the concern authority is relevant and as per the requirement of the industries.

According to one way ANOVA test (table 4.12), the F value is 1.133 and its corresponding p value is 0.352 which is more than 0.05 at 5% level of significance. Therefore, we can say that there exist no significance difference between the opinions of institutional heads from different talukas for curriculum framed is relevant.

4.6.4.5 Changes required to meet expectations of the employers.

Table 4.11 reveals that majority of the respondents i.e. 70.0% of Pernem, 100% of Bardez, 53.9% of Tiswadi, 50.0% of Ponda, 61.9% of Salcete, 44.4% of Mormugao are favourable while 66.7% from Dharbandora are unfavourable. It indicates that the present courses are not upto the mark and need changes to meet the expectations of the employers.

One way ANOVA test (table 4.12) shows that the F value is 1.618 where as its corresponding p value is 0.154 which is greater than 0.05 at 5% level of significance. It means that there is no significant difference between the respondents from different talukas with regards to changes required to meet expectations of the employers.

4.6.4.6 Implementation of skill development mission

The overall result (table 4.11) shows that the majority of the respondents i.e. 100% of Pernem, 100% of Bardez, 91.7% of Tiswadi, 100% of Ponda, 90.4% of Salcete, 100% of Mormugao and 66.6% of Dharbandora are agreed and strongly agreed. This means that the respondents from different talukas opined that there is need to implement proper implementation of skill mission in the state. In other words skill development mission is not implemented properly in the state of Goa.

According to one way ANOVA test (table 4.12), the F value is 0.383 where as its corresponding p value is 0.888 which is higher than 0.05 at 5% level of significance. It means that there is no significant difference between the institutional heads from different talukas with reference to need of proper implemented of skill mission in the state of Goa.

4.6.4.7 Skill development courses are better than general courses.

From the table 4.11 it is observed that majority of respondents i.e. 72.8% of Pernem, 90.0% of Bardez, 83.4% of Tiswadi, 85.7% of Ponda, 85.7% of Salcete, 55.5% of Mormugao and 66.6% of Dharbandora are agreed and strongly agreed. The combined result of the perspectives given by institutional heads are favourable with reference to the students of skill courses are better than students from general courses to get the job.

The one way ANOVA test (table 4.12) shows that the F value is 0.749 where as its corresponding *p* value is 0.612 which is greater than 0.05 at 5% level of significance. It indicates that there is no significant difference between the opinions given by the respondents from different talukas whereby they are favourable towards their perspectives on skill courses students are better than general courses to get job.

4.6.4.8 Scope for Skill courses

In table 4.11 the majority of the respondents i.e. 72.7% from Pernem, 90.0% from Bardez, 75.0% from Tiswadi, 85.7% from Ponda, 90.5% from Salcete, 88.9% from Mormugao and 100% from Dharbandora agreed and strongly agreed. It means that most of the respondents different talukas are favourable towards there is very much scope for skill courses in the present employment field.

One way ANOVA test (table 4.12) reveals that the F value is 0.240 where as its corresponding p value is 0.962 which is more than 0.05 at 5% level of significance It indicates that there is a no significant difference between perspectives of institutional heads from different talukas with regards to skill courses has very much scope for employment. It means respondents from different talukas are favourable

4.6.4.9 Skill courses students are more competent than the general stream

Table 4.11 shows that majority of the institutional heads from different talukas i.e. 73.1% of Pernem, 70.0% of Bardez, 75.0% of Tiswadi, 64.3% of Ponda, 80.9% of Salcete, 44.4% of Mormugao and 66.7% of Dharbandora agreed and strongly agreed. The combined result of the institutional heads of different talukas are favourable to the students with skill courses are more competent than the general stream for the job.

The One way ANOVA Table 4.12 also shows a similar kind of situation. The F value in this case is 1.394 and its p value is 0.229 which is greater than 0.05 and therefore it can be concluded that there is no significant difference between respondents from different talukas towards their perspective on students with skill courses are more competent than the general course.

4.6.4.10 Trained students get job soon.

It can be seen from table 4.11 that majority of the respondents of different talukas reveals that 72.4% of Pernem, 70.0% of Bardez, 61.2% of Tiswadi, 61.9% of Salcete and 66.6% of Dharbandora are favourable whereas 42.8% and 35.7% of Ponda, 33.3% and 44.4% of Mormugao are favourable and neutral respectively. It means that majority of the respondents from different talukas are favourable except Mormugao most of them are neutral towards students pass out from skill courses gets job soon after the completion of course.

The F value disclosed by one way ANOVA test (table 4.12) is 0.722 and its corresponding p value is 0.633 which is higher than 0.05 at 5% level of significance. This means that there is no much significant difference in their opinions towards trained students getting job soon after completion of their course. In other words as per perspectives of institutional heads trained skill students get jobs soon after completion of their course.

To sum up the perspectives of institutional heads on the basis of talukas, the **One** way ANOVA test in all the above 10 statement shows that p value is not significant which is more than 0.05 at 5% level of significance. This means that there is no significant difference between the perspectives given by the institutional heads from different talukas with regards to skill development programmes in Goa. So the respondents from different taluka indicate that there is no significant difference in their perspectives between the groups of institutional heads from different talukas for all the attributes tested above. **Thus the null hypothesis is accepted.**

4.6.5 Stream

The collected data from various institutional heads was analyzed on the basis of streams. The total 81 respondents were divided into 10 streams namely HS (24), HSSC (16), UNID (1), ITI (6), HRDFS (18), EDP (2), GHRSDC (1), TrCPC (7), APPRT (2) and OITSG (4). The statistical tools such as percentage and one way ANOVA was used to analyze the data. Table 4.13 gives the Frequencies along with Percentages. Table 4.14 gives the One-way ANOVA values.

H05: There is no significant difference in the perspectives of Institutional Heads of different streams in Goa.

Table 4.13: Table showing frequencies of Institutional Heads (Streams)

State N Stat	Statement	Scale		HS]	HSSC		UNID		ITI	Н	RDFS
Students acquire enough job skills after the completion of the course. DA S 20.8% O 0.0% O 0.0% O 0.0% 3 3.67%			N	%	N	%	N	%	N	%	N	%
Students acquire enough job skills after the completion of the course. A		SDA	0	0.0%	1	6.2%	0	0.0%	0	0.0%	1	5.6%
after the completion of the course. A 13 54.296 12 75.096 1 1 00.095 5 81.338 8 44.496 SA 3 12.596 1 1 6.2% 0 0 0.096 1 16.7% 5 27.896 SA 3 12.596 1 1 6.2% 0 0 0.096 1 16.7% 5 27.896 SA 3 12.596 1 1 6.2% 0 0 0.096 1 16.7% 5 27.896 SA 1 1 0.096 1 1 0.096 1 1 16.7% 5 27.896 SA 1 1 4.296 1 1 6.2% 0 0 0.096 1 16.7% 4 23.596 SA 1 1 4.296 1 1 6.2% 0 0 0.096 1 16.7% 4 23.596 SA 1 1 4.296 1 1 6.2% 0 0 0.096 1 16.7% 5 29.496 SA 1 1 4.296 1 1 6.2% 0 0 0.096 1 16.7% 5 29.496 SA 1 1 4.296 1 1 6.2% 0 0 0.096 0 0 0.096 1 5.56% SA 1 1 4.296 1 1 6.2% 0 0 0.096 0 0 0.096 1 5.56% SA 2 8.396 3 3 18.896 0 0 0.096 0 0 0.096 1 5.56% SA 2 8.396 3 3 18.896 0 0 0.096 0 0 0.096 1 5.56% SA 2 8.396 3 3 18.896 0 0 0.096 0 0 0.096 1 5.56% SA 2 8.396 3 3 18.896 0 0 0.096 0 0 0.096 1 5.56% SA 2 8.396 3 3 18.896 0 0 0.096 0 0 0.096 1 5.56% SA 2 8.396 3 3 18.896 0 0 0.096 0 0 0.096 0 1.055.696 SA 3 12.596 1 1 6.296 0 0 0.096 0 0 0.096 0 0 0.096 A 13 54.296 8 50.096 1 1 100.096 4 66.7% 10 55.696 SA 2 8.396 3 18.896 0 0 0.096 0 0 0.096 0 0 0.096 A 13 54.296 8 50.096 1 1 100.096 4 66.7% 10 55.696 SA 2 8.396 3 18.896 0 0 0.096 0 0 0.096 0 0 0.096 SDA 0 0.096 1 6.296 0 0.096 0 0 0.096 0 1 5.56% SA 3 12.596 3 1 8.896 0 0 0.096 0 1 0.096 0 1 0.096 SDA 0 0.096 1 6.296 0 0.096 0 0 0.096 1 1 5.696 SA 3 12.596 2 12.596 0 0 0.096 0 0 0.096 1 1 5.696 SA 3 12.596 2 12.596 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 9 5.626 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 9 5.626 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 9 5.626 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 9 5.626 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 9 5.626 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 9 5.626 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 0 0 0.096 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 0 0 0.096 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 0 0 0.096 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 0 0 0.096 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 4 4.296 0 0 0.096 0 0 0.096 0 0 0.096 1 1 5.696 SA 1 1 4.296 0 0 0.09	0.1	DA	5	20.8%	0	0.0%	0	0.0%	0	0.0%	1	5.6%
A 13 54.2% 12 75.0% 1 100.0% 5 83.3% 8 44.4%		N	3	12.5%	2	12.5%	0	0.0%	0	0.0%	3	16.7%
SDA	after the completion of the course.	A	13	54.2%	12	75.0%	1	100.0%	5	83.3%	8	44.4%
Training/internship provided is sufficient for them to place on the job. A		SA	3	12.5%	1	6.2%	0	0.0%	1	16.7%	5	27.8%
sufficient for them to place on the job. N		SDA	0	0.0%	1	6.2%	0	0.0%	0	0.0%	1	5.9%
sufficient for them to place on the job. N	Training/internship provided is	DA	8	33.3%	3	18.8%	0	0.0%	0	0.0%	0	0.0%
A							0		1		4	
SA	job.	A	6		8		1	100.0%	4		7	
SDA		SA	1	4.2%	1	6.2%	0		1	16.7%	5	29.4%
Confident that the trained students are competent to take up the job. N 4 16.7% 1 6.2% 0 0.0% 0 0.0% 1 0.56% N 4 16.7% 1 1 6.2% 0 0.0% 1 0.0% 1 0.56% SA 2 8.3% 3 18.8% 0 0.0% 1 1 00.0% 4 66.7% 1 0.56% SA 2 8.3% 3 18.8% 0 0.0% 1 1 6.0% 0 0.0% 2 11.1% SA 2 8.3% 3 18.8% 0 0.0% 1 1 6.7% 0 0.0% 2 11.1% SA 2 8.3% 3 18.8% 0 0.0% 1 1 6.7% 0 0.0% 2 11.1% SA 3 12.5% 3 18.8% 0 0.0% 1 1 6.7% 0 0.0% 1 1 6.2% 0 0.0% 1 1 6.7% 0 0.0% 1 1 6.2% 0 0.0% 1 1 6.7% 0 0.0% 1 1 6.2% 0 0.0% 1 1 6.7% 0 0.0% 1 1 6.2% 0 0.0% 1 1 6.7% 0 0.0% 1 1 6.2% 0 0.0% 1 1 6.7% 0 0.0% 1 1 6.2			_		1		0					
are competent to take up the job. A 13 54.2% 8 50.0% 1 100.0% 4 66.7% 10 55.6% SA 2 8.3% 3 18.8% 0 0.0.0% 1 0.0% 1 55.6% 10 0.0% 1 0.0% 1 0.56% 10 0.0% 1 0		DA	5	20.8%	3		0	0.0%	0	0.0%	0	0.0%
A 13 54.2% 8 50.0% 1 100.0% 4 66.7% 10 55.6% SA 2 8.3% 3 18.8% 0 0.0% 0 0.0% 2 11.3% SDA 0 0.0% 1 16.2% 0 0.0% 1 16.7% 0 0.0% authority is relevant to the job required by the industries. DA 5 20.8% 3 18.8% 0 0.0% 1 16.7% 0 0.0% 2 11.5% SA 13 18.8% 0 0.0% 1 16.7% 0 0.0% SA 3 12.5% 3 18.8% 0 0.0% 1 16.7% 0 0.0% SA 3 12.5% 2 12.5% 0 0.0% 0 10.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 1 16.2% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 1 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 3 17.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.7% 2 11.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 16.5% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 0.0% 1 5.6% SDA 0 0.0% 1 2.50% 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.50% 0 0.0% 1 2.00% 1 5.6% SDA 0 0.0% 1 2.50% 0 0.0% 1 2.00% 1 5.6% SDA 0 0.0% 1 2.50% 0 0.0% 1 2.00% 1 5.6% SDA 0 0.0% 1 2.50% 0 0.0% 1 2.00% 1 5.6% SDA 0 0.0% 1 2.50% 0 0.0% 1 2.00% 1 5.6% SDA 0 0.0% 1 2.50% 0 0.0% 1 2.00% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 2.00% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 2.00% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.00% 0 0.0% 1 2.00% 0 0.0% 1 5.6% SDA 0 0.0% 1 2.00%		N	4	16.7%	1	6.2%	0	0.0%	0	0.0%	1	5.6%
SDA	are competent to take up the job.	A	13	54.2%	8	50.0%	1	100.0%	4	66.7%	10	55.6%
Curriculum framed by the concern authority is relevant to the job required by the industries. DA 5 20.8% 3 18.8% 0 0.0% 1 16.7% 0 0.0% N 3 12.5% 7 43.8% 1 100.0% 3 50.0% 9 50.0% SA 3 12.5% 2 12.5% 0 0.0% 0 0.0% 0 0.0% 6 33.3% Changes in course should be made to meet the expectations of the employers. Changes in course should be made to meet the expectations of the employers. A 8 33.3% 1 6.2% 0 0.0% 0 0.0% 0 0.0% 0 11.67% 2 11.8% N 6 25.0% 1 6.2% 0 0.0% 0 0.0% 0 0.0% 0 11.67% 3 17.6% SA 1 42.9% 9 56.2% 0 0.0% 0 0.0% 0 0.0% 0 1.16.7% 3 17.6% Sa 1 42.9% 9 56.2% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 Si it a need of the hour to proper implementation of skill development mission in the state. SA 1 42.8% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 SKill development courses are bet ter than general courses to get jobs. SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 SDA 0 0.0%			2	8.3%	3	18.8%	0	0.0%	2	33.3%	6	33.3%
authority is relevant to the job required by the industries. N 3 12.5% 3 18.8% 0 0.0% 2 33.3% 1 5.6% A 13 54.2% 7 43.8% 1 100.0% 3 50.0% 9 50.0% SA 3 12.5% 2 12.5% 0 0.0% 0 0.0% 0 0.0% 0 63.33% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 Changes in course should be made to meet the expectations of the employers. DA 8 33.3% 1 6.2% 0 0.0% 0 0.0% 0 0.0% 0 11.8% A 9 37.5% 5 31.2% 1 100.0% 4 66.7% 7 41.2% SAA 1 4.2% 9 56.2% 0 0.0% 0 0.0% 0 0.0% 0 Is it a need of the hour to proper implementation of skill development mission in the state. SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 SEME A 1 4.2% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 SKill development courses are bet ter than general courses to get jobs. SIM 1 4.2% 0 0.0% 0 0.0% 0 0.0% 1 0.0% 1 SDA 0 0.0% 0 0.0% 0 0.0% 1 0.0% 1 0.0% 1 SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 0.0% 1 0.0% SKill courses have very much scope in the present employment field. SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 0.0% 1 0.0% 1 SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 0.0% 1 0.0% 1 0.0% 1 SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 0.0%		SDA	0	0.0%	1	6.2%	0	0.0%	0	0.0%	2	11.1%
authority is relevant to the job required by the industries. N	Curriculum framed by the concern	DA	5	20.8%	3	18.8%	0	0.0%	1	16.7%	0	0.0%
SA 3 12.5% 2 12.5% 0 0.0% 0 0.0% 6 33.3% Changes in course should be made to meet the expectations of the employers. N 6 25.0% 1 6.2% 0 0.0% 1 16.7% 2 11.8% A 9 37.5% 5 31.2% 1 100.0% 4 66.7% 7 41.2% SDA 0 0.0% 0 0.0% 0 0.0% 1 16.7% 3 17.6% SDA 0 0.0% 0 0.0% 0 0.0% 1 16.7% 3 17.6% SDA 0 0.0% 0 0.0% 0 0.0% 1 16.7% 3 17.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 3 17.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 3 17.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SA 11 4.2% 0 0.0% 0 0.0% 0 0.0% 1 0 0.5% 0 0.0% 1 5.6% SA 12 50.0% 12 75.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SKill development courses are bet ter than general courses to get jobs. SKill courses have very much scope in the present employment field. SA 9 37.5% 11 68.8% 0 0.0% 1 20.0% 1 20.0% 1 5.6% SDA 0 0.0% 1 68.8% 1 100.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% SDA 0 0.0%		N	3	12.5%	3	18.8%	0	0.0%	2	33.3%	1	5.6%
Changes in course should be made to meet the expectations of the employers. N	required by the industries.	A	13	54.2%	7	43.8%	1	100.0%	3	50.0%	9	50.0%
DA		SA	3	12.5%	2	12.5%	0	0.0%	0	0.0%	6	33.3%
to meet the expectations of the employers. N		SDA	0	0.0%	0	0.0%	0	0.0%	1	16.7%	2	11.8%
to meet the expectations of the employers. N	Changes in course should be made	DA	8	33.3%	1	6.2%	0	0.0%	0	0.0%	2	11.8%
SA		N	6	25.0%	1	6.2%	0	0.0%	1	16.7%	3	17.6%
SDA	employers.	A	9	37.5%	5	31.2%	1	100.0%	4	66.7%	7	41.2%
Is it a need of the hour to proper implementation of skill development mission in the state. N		SA	1	4.2%	9	56.2%	0	0.0%	0	0.0%	3	17.6%
implementation of skill development mission in the state. A 11 45.8% 4 25.0% 1 100.0% 4 80.0% 10 55.6% SA 12 50.0% 12 75.0% 0 0.0% 0 0.0% 1 20.0% 5 27.8% SA 12 50.0% 12 75.0% 0 0.0% 0 0.0% 1 20.0% 5 27.8% SA 12 50.0% 12 75.0% 0 0.0% 0 0.0% 1 20.0% 5 27.8% SA 12 50.0% 12 75.0% 0 0.0% 0 0.0% 1 20.0% 5 27.8% SA 12 50.0% 12 75.0% 0 0.0% 1 20.0% 5 27.8% SA 12 50.0% 12 75.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% DA 1 4.2% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 0 0.0% 1 5.6% SA 12 50.0% 1 1 68.8% 1 100.0% 1 20.0% 2 11.1% SA 18.8% 1 100.0% 1 20.0% 1 20.0% 1 5.6% DA 0 0.0% 1 62.8% 0 0.0% 0 0.0% 1 20.0% 1 5.6% DA 0 0.0% 1 62.2% 0 0.0% 0 0.0% 1 5.6% SA 11 45.8% 5 31.2% 1 100.0% 1 20.0% 1 5.6% SA 11 45.8% 5 31.2% 1 100.0% 1 20.0% 1 5.6% DA 2 8.3% 1 6.2% 0 0.0% 0 0.0% 1 20.0% 1 5.6% DA 2 8.3% 1 6.2% 0 0.0% 0 0.0% 1 20.0% 1 5.6% DA 2 8.3% 1 6.2% 0 0.0% 0 0.0% 1 20.0% 1 5.6% DA 2 8.3% 1 6.2% 0 0.0% 0 0.0% 1 20.0% 1 5.6% DA 2 8.3% 1 6.2% 0 0.0% 0 0.0% 1 20.0% 1 5.6% DA 2 8.3% 1 6.2% 0 0.0% 0 0.0% 2 40.0% 7 38.9% SA 6 25.0% 6 37.5% 1 100.0% 2 40.0% 7 38.9% SA 6 25.0% 6 37.5% 1 100.0% 2 40.0% 7 38.9% SA 6 25.0% 6 37.5% 1 100.0% 0 0.0% 1 20.0% 7 38.9% SA 6 25.0% 6 37.5% 1 100.0% 0 0.0% 1 20.0% 7 38.9% SA 6 25.0% 6 37.5% 1 100.0% 0 0.0% 1 5.6% DA 4 16.7% 5 31.2% 1 100.0% 1 20.0% 7 38.9% SA 6 25.0% 5 31.2% 1 100.0% 1 10.0% 1 20.0% 7 38.9% SA 6 25.0% 5 31.2% 1 100.0% 1 10.0% 1 20.0% 7 38.9% SA 6 25.0% 5 31.2% 1 100.0% 1 10.0% 1 20.0% 7 38.9% SA 6 25.0% 5 31.2% 1 100.0% 1 10.0% 1 20.0% 7 38.9% SA 6 25.0% 5 31.2% 1 100.0% 1 10.0% 1 10.0% 1 20.0% 1 10		SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	5.6%
A	Is it a need of the hour to proper	DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
SA 12 50.0% 12 75.0% 0 0.0% 1 20.0% 5 27.8%	implementation of skill	N	1	4.2%	0	0.0%	0	0.0%	0	0.0%	2	11.1%
Skill development courses are bet ter than general courses to get jobs. DA	development mission in the state.	A	11	45.8%	4	25.0%	1	100.0%	4	80.0%	10	55.6%
Skill development courses are bet ter than general courses to get jobs. DA 1 4.2% 0 0.0% 0 0.0% 1 20.0% 0 0.0% N 5 20.8% 2 12.5% 0 0.0% 1 20.0% 2 11.1% A 9 37.5% 3 18.8% 1 100.0% 1 20.0% 8 44.4% SA 9 37.5% 11 68.8% 0 0.0% 2 40.0% 7 38.9% Skill courses have very much scope in the present employment field. SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% DA 0 0.0% 1 6.2% 0 0.0% 0 0.0% 1 5.6% N 4 16.7% 1 6.2% 0 0.0% 1 20.0% 1 5.6% Students with skill courses are more competent than the general stream. SA 6 <td></td> <td>SA</td> <td>12</td> <td>50.0%</td> <td>12</td> <td>75.0%</td> <td>0</td> <td>0.0%</td> <td>1</td> <td>20.0%</td> <td>5</td> <td>27.8%</td>		SA	12	50.0%	12	75.0%	0	0.0%	1	20.0%	5	27.8%
N 5 20.8% 2 12.5% 0 0.0% 1 20.0% 2 11.1%		SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	5.6%
ter than general courses to get jobs. A 9 37.5% 3 18.8% 1 100.0% 1 20.0% 8 44.4% SA 9 37.5% 11 68.8% 0 0.0% 0 0.0% 7 38.9% Skill courses have very much scope in the present employment field. N 4 16.7% 1 6.2% 0 0.0% 1 20.0% 1 5.6% A 11 45.8% 5 31.2% 1 100.0% 1 20.0% 8 44.4% SA 9 37.5% 3 18.8% 0 0.0% 0 0.0% 1 5.6% N 4 16.7% 1 6.2% 0 0.0% 1 20.0% 1 5.6% A 11 45.8% 5 31.2% 1 100.0% 1 20.0% 1 5.6% STUDENT OF TAIL O	Skill dayslonment sources are bet	DA	1	4.2%	0	0.0%	0	0.0%	1	20.0%	0	0.0%
SA 9 37.5% 3 18.8% 1 100.0% 1 20.0% 8 44.4%		N	5	20.8%	2	12.5%	0	0.0%	1	20.0%	2	11.1%
Skill courses have very much scope in the present employment field. DA	ter than general courses to get jobs.	A	9	37.5%	3	18.8%	1	100.0%	1	20.0%	8	44.4%
Skill courses have very much scope in the present employment field. DA 0 0.0% 1 6.2% 0 0.0% 0 0.0% 1 5.6% N 4 16.7% 1 6.2% 0 0.0% 1 20.0% 1 5.6% A 11 45.8% 5 31.2% 1 100.0% 1 20.0% 8 44.4% SA 9 37.5% 9 56.2% 0 0.0% 3 60.0% 7 38.9% Students with skill courses are more competent than the general stream. DA 2 8.3% 1 6.2% 0 0.0% 0 0.0% 0 0.0% 1 5.6% N 10 41.7% 2 12.5% 0 0.0% 0 0.0% 0 0.0% 1 5.6% N 10 41.7% 2 12.5% 0 0.0% 0 0.0% 7 38.9% Trained students get job soon a		SA	9	37.5%	11	68.8%	0	0.0%	2	40.0%	7	38.9%
Skill courses have very much scope in the present employment field. N 4 16.7% 1 6.2% 0 0.0% 1 20.0% 8 44.4% SA 9 37.5% 9 56.2% 0 0.0% 1 20.0% 8 44.4% SDA 9 37.5% 9 56.2% 0 0.0% 3 60.0% 7 38.9% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% DA 2 8.3% 1 6.2% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0		SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	5.6%
in the present employment field. A	Skill courses have very much scope	DA	0		1	6.2%	0		0	0.0%	1	
A		N	4	16.7%	1	6.2%	0	0.0%	1	20.0%	1	5.6%
Students with skill courses are more competent than the general stream. SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6%	in the present employment field.	A		45.8%			1	100.0%		20.0%		
Students with skill courses are more competent than the general stream. DA 2 8.3% 1 6.2% 0 0.0% 2 40.0% 0 0.0% N 10 41.7% 2 12.5% 0 0.0% 0 0.0% 3 16.7% A 6 25.0% 6 37.5% 1 100.0% 2 40.0% 7 38.9% SA 6 25.0% 7 43.8% 0 0.0% 1 20.0% 7 38.9% Trained students get job soon after completion of course. DA 4 16.7% 5 31.2% 0 0.0% 0 0.0% 0 0.0% N 9 37.5% 3 18.8% 0 0.0% 1 16.7% 3 16.7% A 6 25.0% 5 31.2% 1 100.0% 4 66.7% 8 44.4% Calculation of the completion of course Calculation of the completion of the completion of the completion of course Calculation of the completion of the completion of course Calculation of the completion of the		SA	9	37.5%	9	56.2%	0	0.0%	3	60.0%	7	38.9%
Students with skill courses are more competent than the general stream. N 10 41.7% 2 12.5% 0 0.0% 0 0.0% 3 16.7%		SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	5.6%
more competent than the general stream. N 10 41.7% 2 12.5% 0 0.0% 0 0.0% 3 16.7%	Students with skill courses are			8.3%	_	6.2%		0.0%		40.0%		
stream. A 6 25.0% 6 37.3% 1 100.0% 2 40.0% 7 38.9% SA 6 25.0% 7 43.8% 0 0.0% 1 20.0% 7 38.9% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 20.0% 1 5.6% Trained students get job soon after completion of course. A 6 25.0% 5 31.2% 0 0.0% 1 16.7% 3 16.7% A 6 25.0% 5 31.2% 1 100.0% 4 66.7% 8 44.4%		N	10	41.7%	2	12.5%	0	0.0%	0	0.0%	3	16.7%
SA 6 25.0% 7 43.8% 0 0.0% 1 20.0% 7 38.9% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 5.6% DA 4 16.7% 5 31.2% 0 0.0% 0 0.0% 0 0.0% 0 0.0% N 9 37.5% 3 18.8% 0 0.0% 1 16.7% 3 16.7% A 6 25.0% 5 31.2% 1 100.0% 4 66.7% 8 44.4%		A	6	25.0%	6	37.5%	1	100.0%	2	40.0%	7	
Trained students get job soon after Completion of course. DA 4 16.7% 5 31.2% 0 0.0% 0 0.0% 0 0.0% N 9 37.5% 3 18.8% 0 0.0% 1 16.7% 3 16.7% A 6 25.0% 5 31.2% 1 100.0% 4 66.7% 8 44.4%	Sucuii.	SA	6	25.0%	7	43.8%	0	0.0%	1	20.0%	7	38.9%
Trained students get job soon after Completion of course. DA 4 16.7% 5 31.2% 0 0.0% 0 0.0% 0 0.0% N 9 37.5% 3 18.8% 0 0.0% 1 16.7% 3 16.7% A 6 25.0% 5 31.2% 1 100.0% 4 66.7% 8 44.4%		SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	5.6%
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A 6 25.0% 5 31.2% 1 100.0% 4 66.7% 8 44.4%												
	completion of course.											
		SA	5	20.8%	3	18.8%		0.0%	1	16.7%	6	33.3%

Contd.....

Students aoutire completion of the concentral factor of the concentral	Statement	Scale		EDP	G	HRSDC	-	ГгСРС		APPRT		OITSG		Total
Students Course Competency of the completion of the course OA 0 0.0% 0 0			N	%	N	%	N	%	N	%	N	%	N	%
Brough job skills after DA	Studente coquire	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	2.5%
the completion of the course. N		DA	0	0.0%	0	0.0%	1	14.3%	0	0.0%	0	0.0%	7	8.8%
Course	· ,		_	0.0%	0	0.0%	_	0.0%	_	0.0%	_	0.0%	8	
SA				100.0%										
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provided is sufficient for them to place on the for them to place on the job. N 0 0.0% 0 0.0% 0 0.0% 1 14, 14,3% 0 0.0% 0 1.0% 0 1.0% 0 1.25,0% 18 22,5% (he job.) Confident that the trained students are competent to take up the job. Confident that the competent to take up the job. Curriculum framed by the job. Curriculum framed by the concern authority is relevant to the job required by the industries. SA 1 50,0% 1 10,00% 2 28,6% 1 50,0% 2 50,0% 2 55,00% 12 55,9% 18 59,9% 10,00% 10	Training/internehin				_				_		_			
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SAA											3			
DA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 8 9.9% 1 1 1 1 1 1 1 1 1	110 100.		1	50.0%	1		2		1	50.0%	0		13	16.2%
trained students are competent to take up the job. The competent to take up the job. No. 0.0% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 88 9.9% A 1 50.0% 1.00% 0.00%	Confident that the	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	2.5%
Curriculum framed by the concern authority DA 0 0.0% 0 0.0% 0 2 28.6% 0 1 50.0% 2 50.0% 2 50.0% 42 51.9% Curriculum framed by the concern authority DA 0 0.0% 0 0		DA	0	0.0%	0	0.0%	0		0	0.0%	0	0.0%	8	9.9%
the job. A		N	0	0.0%	0	0.0%	2	28.6%	0	0.0%	0	0.0%	8	9.9%
SA			1	50.0%	0	0.0%	2	28.6%	1	50.0%	2	50.0%	42	51.9%
the concern authority is relevant to the job required by the industries. DA	the job.	SA	1	50.0%	1	100.0%	3	42.9%	1	50.0%	2	50.0%	21	25.9%
the concern authority is relevant to the job required by the industries. N	Curriculum framed by	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	3.8%
is relevant to the job required by the industries. N 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 25.0% 43 53.8% industries. SA 0 0.0% 1 100% 1 16.7% 0 0.0% 3 75.0% 16 20.0% 5 83.3% 2 100.0% 1 25.0% 43 53.8% industries. Changes in course should be made to meet the expectations of the employers. N 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 25.0% 14 17.5% A 1 50.0% 0 0.0% 0 0.0% 1 50.0% 1 25.0% 14 17.5% A 1 50.0% 0 0.0% 0 0.0% 0 0.0% 1 25.0% 14 17.5% A 1 50.0% 0 0.0% 1 100.0% 1	- 1	DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	9	11.2%
Required by the industries.	,	N	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	9	11.2%
Industries.		Α	2	100.0%	0	0.0%	5	83.3%	2	100.0%	1	25.0%	43	53.8%
Changes in course should be made to mote the expectations of the employers. DA 0 0.0% 0 0.0% 2 28.6% 0 0.0% 1 25.0% 14 17.5% N 0 0.0% 0 0.0% 0 0.0% 1 50.0% 1 25.0% 14 17.5% N 0 0.0% 0 0.0% 1 100.0% 1 50.0% 1 25.0% 14 17.5% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 31 38.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 0 0.0% 1 12.2% DA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 12.2% DA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 12.2% SA 1 150.0% 1 100.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 31 38.8% SA 1 50.0% 1 100.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 12.2% DA 0 0.0% 1 100.0% 4 57.1% 0 0.0% 2 50.0% 37 46.2% SA 1 50.0% 1 100.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 50.0% 39 48.8% SA 1 50.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 12.2% DA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 12.2% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 37 46.2% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 39 48.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 39 48.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 39 48.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 39 48.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 39 48.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 35 43.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 35 43.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 35 43.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 35 43.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 35 43.8% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 35 43.8% SA 1 50.0% 1 100.0% 1 14.3% 1 50.0% 2 50.0% 35 43.8% SA 1 50.0% 1 100.0% 1 14.3% 1 50.0% 2 50.0% 35 43.8% SA 1 50.0% 1 100.0% 1 14.3% 1 50.0% 2 50.0% 37 48.2% SA 1 50.0% 1 100.0% 1 14.3% 1 50.0% 2 50.0% 37 48.2% SA 1 50.0% 1 100.0% 1 14.3% 1 50.0% 1 25.0% 30 37.0%		SA	0	0.0%	1	100%	1	16.7%	0	0.0%	3	75.0%	16	20.0%
Should be made to meet the expectations of the employers.	Character in account	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	3.8%
meet the expectations of the employers. N		DA	0	0.0%	0	0.0%	2	28.6%	0	0.0%	1	25.0%	14	17.5%
of the employers. A 1 50.0% 0 0.0% 1 14.3% 1 50.0% 2 50.0% 31 38.8% Need to proper implementation of skill development mission in the state. DA 0 0.0%		N	0	0.0%	0	0.0%	2	28.6%	0	0.0%	1	25.0%	14	17.5%
Need to proper implementation of skill development mission in the state.	·	Α	1	50.0%	0	0.0%	1	14.3%	1	50.0%	2	50.0%	31	38.8%
Need to proper implementation of skill development mission in the state.	or the employers.	SA	1	50.0%	1	100.0%	2	28.6%	1	50.0%	0	0.0%	18	22.5%
implementation of skill development mission in the state. N	Nagal to manage	SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.2%
development in the state.		DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
In the state. A		N	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	3.8%
SA 2 100.0% 0 0.0% 3 42.9% 2 100.0% 2 50.0% 39 48.8%	'	Α	0	0.0%	1	100.0%	4	57.1%	0	0.0%	2	50.0%	37	46.2%
Skill development courses are better than general courses are better than general courses to get jobs. DA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 13 16.2%	in the state.	SA	2	100.0%	0	0.0%	3	42.9%	2	100.0%	2	50.0%	39	48.8%
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than general courses to get jobs. A		DA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	2.5%
to get jobs. SA		N	0	0.0%	0	0.0%	3	42.9%	0	0.0%	0	0.0%	13	16.2%
Skill courses have very much scope in the present employment field. SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 1.2% N 0 0.0% 0 0.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 35 43.8% N 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 2 2.5% N 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 9 11.2% SA 1 50.0% 1 100.0% 2 28.6% 1 50.0% 2 50.0% 33 41.2% SA 1 50.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 3 42.9% 1 50.0% 2 50.0% 35 43.8% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 1.2% DA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 1.25.0% 18 22.5% SA 1 50.0% 1 100.0% 1 100.0% 1 14.3% 1 50.0% 1 25.0% 18 22.5% SA 1 50.0% 1 100.0% 1 144.3% 1 50.0% 1 25.0% 29 36.2% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 125.0% 18 22.5% SA 1 50.0% 1 100.0% 1 144.3% 1 50.0% 1 25.0% 29 36.2% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 125.0% 18 122.5% SDA 0 0.0% 0 0.0% 0 0.0% 1 14.3% 1 50.0% 1 25.0% 29 36.2% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 125.0% 18 22.5% SDA 0 0.0% 0 0.0% 0 0.0% 1 14.3% 1 50.0% 1 25.0% 29 36.2% SDA 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 0 0.0% 1 125.0% 18 22.5% SDA 0 0.0% 0 0.0% 0 0.0% 1 14.3% 1 50.0% 2 50.0% 27 33.8% SDA 0 0.0% 0 0.0% 0 0.0% 1 14.3% 1 50.0% 2 50.0% 22 27.2% SDA 0 0.0% 0 0.0% 1 100.0% 1 14.3% 1 50.0% 2 50.0% 22 27.2% SDA 0 0.0% 0 0.0% 1 100.0% 1 14.3% 1 50.0% 1 25.0% 30 37.0%	· .	Α	1	50.0%	1	100.0%	2	28.6%	1	50.0%	2	50.0%	29	36.2%
Skill courses have very much scope in the present employment field. N	to get jobs.	SA	1	50.0%	0	0.0%	2	28.6%	1	50.0%	2	50.0%	35	43.8%
much scope in the present employment field. DA 0 0.0% 0		SDA	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.2%
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completion of course. A 1 50.0% 0 0.0% 3 42.9% 1 50.0% 1 25.0% 30 37.0%	9								-					
	,													
	completion of course.	SA												

(Source: Primary survey)

 $(Note: All \ sample \ respondents \ have \ not \ responded, \ so \ total \ sample \ respondent \ are \ less.)$

Table 4.14: Table showing ANOVA analyses of Institutional Heads (Streams)

	Sum of Squa	ares	Df	Mean Square	F	Sig.	Null Hypothesis (H0)
Students acquire enough job skills after	Between Groups	6.176	9	.686	.774	.640	Retain
the completion of the course.	Within Groups	62.024	70	.886			
	Total	68.200	79				
Training/internship provided is sufficient	Between Groups	18.735	9	2.082	2.315	.024	Reject
for them to place on the job.	Within Groups	62.952	70	.899			
for them to place on the job.	Total	81.688	79				
Confident that the trained students are	Between Groups	12.094	9	1.344	1.448	.185	Retain
	Within Groups	65.906	71	.928			
competent to take up the job.	Total	78.000	80				
Curriculum framed by the concern	Between Groups	11.556	9	1.284	1.258	.275	Retain
authority is relevant to the job required	Within Groups	71.444	70	1.021			
by the industries.	Total	83.000	79				
Observed to severe should be used to	Between Groups	22.097	9	2.455	2.168	.035	Reject
Changes in course should be made to	Within Groups	79.290	70	1.133			
meet the expectations of the employers.	Total	101.387	79				
N. 1	Between Groups	6.915	9	.768	1.765	.091	Retain
Need to proper implementation of skill	Within Groups	30.473	70	.435			
development mission in the state.	Total	37.387	79				
Old III december of the state o	Between Groups	4.982	9	.554	.677	.727	Retain
Skill development courses are better	Within Groups	57.206	70	.817			
than general courses to get jobs.	Total	62.188	79				
OLSII	Between Groups	1.778	9	.198	.253	.985	Retain
Skill courses have very much scope in	Within Groups	54.710	70	.782			
the present employment field.	Total	56.488	79				
Ctual and a width a bill accuracy	Between Groups	7.278	9	.809	.851	.573	Retain
Students with skill courses are more	Within Groups	66.522	70	.950			
competent than the general stream.	Total	73.800	79				
Trained students and lab area often	Between Groups	5.675	9	.631	.595	.797	Retain
Trained students get job soon after	Within Groups	75.214	71	1.059			
completion of course.	Total	80.889	80				

4.6.5.1 Students acquire enough job skills.

The perspectives of Institutional heads from different streams (table 4.13) shows altogether more or less same result for the level of skill acquired by the students after the completion of course. The combined result reveals that majority of the respondents i.e. 66.7% of HS, 81.2% of HSSC, 100% of UIND, 100% of ITI, 72.2% of HRDFS, 1000% of EDP, 100% of GHRSDC and 85.8% of TrCPC, 100% of APPRT and 100% of OITSG are favourable. It means that the respondents from different streams are favourable towards students acquired enough job skills after the completion of course required for the job.

The **One way ANOVA** test (table 4.14) shows that the F value is 0.774 and its corresponding p value is 0.640 which is more than 0.05 at 5% level of significance. This means that there exists no significant difference in the perspectives between institutional heads from different streams. The institutional heads from different streams are squally favourable with respect to students acquire sufficient job skills after completion of the course.

4.6.5.2 Training/internship provided is sufficient.

The overall result (table 4.13) shows that the majority of the respondents i.e. 62.5% of HS, 68.8% of HSSC, 100% of UIND, 83.4% of ITI, 64.7% of HRDFS, 100% of EDP, 100% of GHRSDC and 85.7% of TrCPC, 100% of APPRT and 75% of OITSG are agreed and strongly agreed. This means that the respondents from different streams are favourable towards internship provided in the industry or practical training by the institutes to the students is quite sufficient to place them on get the job.

One way *ANOVA* test (table 4.14) shows that the F value is 2.315 and its corresponding p value is 0.024 which is lower than 0.05 at 5% level of significance. It means that there exists a significant difference between the opinions of institutional heads from different streams for training or internship provided by the institutions and industries respectively. The respondents from steams like UNID, EDP, GHRSDC, and APPRT are 100% favourable while respondents from other streams are not fully favourable. The respondents from HS, HSSC, ITI, HRDFS, TrCPC and OITSG opined that internship or training provided is insufficient and the students need to be provided proper internship and extra training to gain skills to place them on the job.

4.6.5.3 Confidence in students to take up job.

Table 4.13 shows that majority of the respondents from different streams i.e. 62.5% of HS, 68.8% of HSSC, 100% of UIND, 100% of ITI, 88.9% of HRDFS, 100% of EDP, 100% of GHRSDC and 71.5% of TrCPC, 100% of APPRT and 100% of OITSG are favourable. The overall result indicates that majority of the respondents from different talukas are favourable towards student's do get confidence to take up job in their respective skill courses studied by them.

The one way ANOVA Table 4.14 shows that the F value is 1.448 and its corresponding p value is 0.185 which is greater than 0.05 at 5% level of significance. Therefore we can say that there no significant difference between the perspectives of institutional heads from different streams with reference to student's confidence in taking up the job in skill courses studied.

4.6.5.4 Curriculum framed.

The perspectives of respondents from different streams (table 4.13) shows that the majority i.e. 66.7% of HS, 56.3% of HSSC, 100% of UIND, 50.0% of ITI, 83.3% of HRDFS, 100% of EDP, 100% of GHRSDC, 100% of TrCPC, 100% of APPRT and 100% of OITSG are agreed and strongly agreed. It means respondents from different streams are favourable to the curriculum framed by the concern authority is relevant and as per the requirement of the industries.

According to one way ANOVA test (table 4.14), the F value is 1.258 and its corresponding p value is 0.275 which is more than 0.05 at 5% level of significance. It means that there exists no significance difference between the opinions of institutional heads from different streams for curriculum framed whereby they feel it is relevant to the requirement of industries.

4.6.5.5 Changes required to meet expectations of the employers.

Table 4.13 reveals that majority of the respondents i.e. 41.7% of HS, 87.4% of HSSC, 100% of UIND, 66.7% of ITI, 58.8% of HRDFS, 100% of EDP, 100% of GHRSDC and 42.9% of TrCPC, 100% of APPRT and 50% of OITSG are agreed and strongly agreed. Thus according to the perception of institutional heads from different streams, it reveals that the present courses are not upto the mark and need changes to meet the expectations of the employers.

One way ANOVA test (table 4.14) shows that the *F* value is 2.168 where as its corresponding *p* value is 0.035 which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the respondents from different streams with regards to changes required to meet expectations of the employers. The institutional heads from steams like UNID, EDP, GHRSDC, and APPRT are 100% favourable whereas the respondents from HS, HSSC, ITI, HRDFS, TrCPC and OITSG are not fully favourable. Most of the respondents feel that there is a need to make changes in the course but a handful number of respondents also feels that it is not necessary to make changes in the course to fulfill expectation of the employer.

4.6.5.6 Implementation of skill development mission

The overall result (table 4.13) shows that the majority of the respondents i.e. 95.8% of HS, 100% of HSSC, 100% of UIND, 100% of ITI, 83.4% of HRDFS, 100% of EDP, 100% of GHRSDC and 100% of TrCPC, 100% of APPRT and 100% of OITSG are agreed and strongly agreed. It means the respondents from different streams are favourable to the statement that there is need to implement proper implementation of skill mission in the state which means at present, skill development mission is not implemented properly in the state of Goa.

According to one way ANOVA test (table 4.14), the F value is 1.765 where as its corresponding p value is 0.091 which is higher than 0.05 at 5% level of significance. It means that there is no significant difference between the institutional heads from different streams with regards to need of proper implemented of skill mission in the state of Goa.

4.6.5.7 Skill development courses are better than general courses.

From the table 4.13 it is observed that majority of respondents i.e. 75.0% of HS, 87.6% of HSSC, 100% of UIND, 60.0% of ITI, 83.3% of HRDFS, 100% of EDP, 100% of GHRSDC and 57.2% of TrCPC, 100% of APPRT and 100% of OITSG are favourable. The combined result of the perspectives given by institutional heads from different streams are favourable with reference to the students possess skill courses are better than students from general courses to get the job.

The one way ANOVA test (table 4.14) shows that the F value is 0.677 where as its corresponding *p* value is 0.727 which is more than 0.05 at 5% level of significance. It indicates that there is no significant difference between the opinions given by the respondents from different streams whereby they are favourable towards the skill courses students are better than general courses to get job.

4.6.5.8 Scope for Skill courses

In table 4.13 the majority of the respondents from different streams i.e. 83.3% of HS, 87.4% of HSSC, 100% of UIND, 80.0% of ITI, 83.3% of HRDFS, 100% of EDP, 100% of GHRSDC and 71.5% of TrCPC, 100% of APPRT and 100% of OITSG are agreed and strongly agreed. It means most of the respondents from different streams are favourable that there is very much scope for skill courses in the present employment field.

One way ANOVA test (table 4.14) reveals that the F value is 0.253 where as its corresponding p value is 0.985 which is higher than 0.05 at 5% level of significance It indicates that there is a no significant difference between perspectives of institutional heads from different streams. It means respondents from different streams are favourable with respect to skill courses has very much scope for employment.

4.6.5.9 Skill courses students are more competent than the general stream

Table 4.13 shows that majority of the institutional heads from different streams i.e. 50.0% of HS, 81.3% of HSSC, 100% of UIND, 60.0% of ITI, 77.8% of HRDFS, 100% of EDP, 100% of GHRSDC and 71.4% of TrCPC, 100% of APPRT and 75% of OITSG are favourable with respect to the students with skill courses are more competent than the general stream for the job.

The One way ANOVA Table 4.14 also shows a similar kind of situation. The F value in this case is 0.851 and its p value is 0.573 which is greater than 0.05 and therefore it can be concluded that there is no significant difference between respondents from different streams which means they are favourable towards the perspective on students with skill courses are more competent than the general course.

4.6.5.10 Trained students get job soon.

It can be seen from table 4.13 that majority of the respondents of different streams reveals that 45.8% of HS, 50.0% of HSSC, 100% of UIND, 83.4% of ITI, 77.7% of HRDFS, 50.0% of EDP, 57.2% of TrCPC, 50.0% of APPRT and 50.0% of OITSG are favourable whereas 100% of GHRSDC are neutral. It means that majority of the respondents from different streams are favourable except respondents from GHRSDC where most of them are neutral in their comment to the students pass-out from skill courses gets job soon after the completion of course.

The F value disclosed by one way ANOVA test (table 4.14) is 0.595 and its corresponding p value is 0.797 which is more than 0.05 at 5% level of significance. This means that there exists no much significant difference in their opinions towards trained students getting job soon after completion of their course. In other words as per perspectives of institutional heads favours to the trained skill students get jobs soon after completion of their course.

To sum up the perspectives of institutional heads on the basis of streams, the analyses based on **One way ANOVA** test shows that p value is more than 0.05 at 5% level of significance for most of the attributes tested above which means that there is no significant difference except in two variables i.e. *Training/internship provided is sufficient for them to place on the job* and *Changes in course should be made to meet the expectations of the employers* there is a difference in opinions whereby P value is less than 0.05 i.e. (.024) and (.035) respectively. It means that there exists significant difference between the opinions given by the institutional heads from different streams with regards to above two statements. It indicates that institutional heads from different streams feels that Training/internship provided is not sufficient and also there changes need to be made in the courses. So, the respondents from different streams indicates there is no difference between the groups in their opinions for most of the statements tested except in two statement there is difference in their opinion, **thus the null hypothesis is accepted.**

4.7 Conclusion

Table 4.15: Table showing a brief summary of perspectives of Institutional Heads

Aspects of Skill development Programmes Tested based on the Objectives	Gender	Locality	District	Talukas	Streams
Opinions of Institutional Heads	Accepted	Accepted	Accepted	Accepted	Accepted
1) Students acquire enough job skills after the completion of the course.	.188	.558	.592	.269	.640
2) Training/internship provided is sufficient for them to place on the job.	.093	.967	.901	.338	.024
3) Confident that the trained students are competent to take up the job.	.294	.980	.705	.101	.185
4) Curriculum framed by the concern authority is relevant to the job required by the industries.	.345	.957	.701	.352	.275
5) Changes in course should be made to meet the expectations of the employers.	.874	.352	.382	.154	.035
6) Need of the hour to proper implementation of skill development mission in the state.	.464	.024	.235	.888	.091
7) Skill development courses are better than general courses to get jobs.	.642	.049	.579	.612	.727
8) Skill courses have very much scope in the present employment field.	.147	.044	.966	.962	.985
Students with skill courses are more competent than the general stream.	.044	.094	.880	.229	.573
10) Trained students get job soon after completion of course.	.307	.776	.961	.633	.797

With the help of above table 4.15 and the hypothesis formed, it can be concluded that the institutional heads are very confident and no significant difference is noticed in most of the cases tested above about the skill development programmes prevailing in the state of Goa. Between the Male and Female, they do not differ in their opinions in most of the attributes tested except in one attribute where there a significant difference

between male and female respondents. The Male respondents are more favourable and showed higher perspective towards skill courses than the female respondents. With regards to rural and urban institutional heads, they do not differ in their opinions in most of the attributes tested except in case of *three attributes* there a significant difference in the perspective of the respondents. The Rural institutional heads are more favourable and showed more positive perspective towards skill Programmes. Further, between the Northern and Southern district institutional heads, absolutely there is no differ in their opinions in all the attributes tested towards skill development Programmes in Goa. With regards to institutional heads from different talukas, they too do not differ in their opinions regarding all the attributes tested towards skill development Programmes. Finally, between institutional heads from different streams, they do not differ in their opinions in most of the attributes tested except in case of *two attributes* there exist a significant difference in respondents from different talukas towards skill Programmes conducted in Goa.

Thus based upon the above brief important findings, we can conclude that, "perspective of Institutional Heads for Skill Development Programmes is not significantly different. It means the perspective of the institutional heads towards skill development programmes is favourable and positive. So, the null hypothesis is accepted. The institutional heads in general are not different in their opinions whether they are male or female, rural or urban, north or south, various talukas and streams for skill development programmes conducted in the state of Goa and also they have shown a great deal of maturity and there is no much difference in their opinions.

The chapter covered the various perspectives of Institutional Heads for which data was collected from different respondents based on gender, locality, districts, talukas and streams. The data was further tested with the statistical tools to find the results.

5.1 Introduction

In order to evaluate the Skill Development Programmes in Goa, it was important to seek opinions of the ongoing students of various categories in different institutions. The students considered for the study were 503, they are from High school 45 students, Higher secondary 125 students who were studying in vocational stream, 35 university students of MFS and MCA, ITI 130 students, HRDFS 56 students, EDP 12 trainees, apprenticeship trainees 28 trainees, security guards 21 trainees, training cum production centre 21 trainees and trainees of other initiatives taken by state government 30. It was significant to get the feedback from the ongoing students studying in various courses of skill development in Goa. It would indicate the level of education imparted by the various institutions and industrial training provided by the industrialist. Hence students and trainees were asked to give their opinion on the various courses taught in the institutions. The 41 courses were considered for the study ongoing students to find their attitude towards facilities available and the liking of the courses framed by the respective authority. The various trades taken for the study were 3 courses from HS such as IT, automobile and healthcare, 8 courses from vocational stream they are CRM, OSS, Auto engineering technology, CGDM, Insurance, Accounting and Auditing, Computer techniques and MREEDA. 2 courses from masters degree i.e. MFS and MCA, 8 courses from ITI namely electrician, COPA, plumber, welder, fitter, diesel mechanic, hospitality management and electronics, 6 courses from HRDFS such as computer techniques, business application, DTP, home nursing, a/c and refrigerator, and beautician. Only one course was considered i.e. EDP under Entrepreneurship development programme, Security guards under GHRSDC and tailoring and embroidery from Training cum Production Centre for the study. 8 different courses of apprenticeship training were also taken for study they are CNC operator, Electrician, Electronic mechanic, Fitter, Lab assistant, Mechanical engineering, plumber, Welder and Mechanic Diesel whereas 3 raining courses of Other Initiatives taken by the State Government were selected for the survey namely Agriculture, Fisheries and Urban development.

This chapter deals with the third objective of the study to know the attitude of ongoing students towards facilities available and the curriculum framed by the authority based on various statements prepared on skill programmes carried out by the various institutions in the state of Goa.

5.2 Social profile

To evaluate the attitude of Ongoing students towards skill development programmes in Goa for which students opinions from all over the Goa were considered to know the prevailing situation of various facilities available in the institutions as well as in the curriculum framed under skill development training programmes in the state of Goa. The ongoing students were asked to give their opinions through structured close ended questionnaires. A total of 503 ongoing students responded to the questionnaire which was considered for the study from 10 different streams, 41 trades and 12 different talukas in the state of Goa. The data collected from the different respondents is shown in the below tables which is as follows;

Table 5.1 Gender

Sr	Institution	Particulars		Total
No		Male	Female	
1	HS (NSQF)	36(80)	9(20)	45(100)
2	HSS (VOC)	83(66.4)	42(33.6)	125(100)
3	ITI	110(84.6)	20(15.4)	130*(100)
4	UNID	20(57.1)	15(42.9)	35(100)
5	HRDFS	26(46.4)	30(53.6)	56(100)
6	EDP	8(66.7)	4(33.3)	12(100)
7	GHRSDC	8(38.1)	13(61.9)	21(100)
8	TrCPC	-	21(100)	21(100)
9	ApprT	26(92.9)	2(7.1)	28(100)
10	OITSG	12(40)	18(60)	30(100)
11	Total	329(65.4)	174(34.6)	503(100)

(Source: Field Work)

Table 5.1 shows that most of the students/trainees opted for skill courses are males and less number of students are females. The majority of the students/trainees (Six streams out of ten streams) are dominated by male students whereas four streams are dominated by females. Most of the students from different streams are dominated by males such as NSQF, Vocational, ITI, UNID, EDP and Apprenticeship training whereas from other streams such as HRDFS, GHRSDC, TrCPC and OITSG are dominated by females.

Table 5.2 District

Sr No	Institution	Parti	culars	Total
		North	South	
1	HS (NSQF)	24(53%)	21(47%)	45(100%)
2	HSS (Voc)	96(76.8%)	29(23.2%)	125(100%)
3	ITI	81(62.3)	49(37.7)	130*(100)
4	UNID	18(51.4)	17(48.6)	35(100)
5	HRDFS	43(76.8)	13(23.2)	56(100)
6	EDP	2(16.7)	10(83.3)	12(100)
7	GHRSDC	15(71.4)	6(28.6)	21(100)
8	TrCPC	20(95.2)	1(4.8)	21(100)
9	AprT	24(85.7)	4(14.3)	28(100)
10	OITSG	28(93.3)	2(6.7)	30(100)
TOTAL		351(69.8)	152(30.2)	503(100)

(Source: Field Work)

It can be seen from the above Table 5.2 that majority of the students/trainees (69.8%) belong to North district rather than South district (30.2%). Most of the students of different stream are from North district except EDP stream where majority of the students are from South district.

Table 5.3 Taluka

Sr.	Particul-	HS	HSSC	UNID	ITI	HRDF	EDP	GHRSD	TrCPC	ApprT	OITS
No	ars	(%)	(%)	(%)	(%)	S (%)	(%)	C (%)	(%)	(%)	G (%)
1	Pernem	24(53.3)	20(16)	2(5.8)	19(15.0)	12(21.4)	-	3(14.3)	5(23.8)	9(32.1)	4(13.3)
2	Bardez	-	36(28.8)	8(22.9)	40(32.6)	12(21.4)	2(16.7)	-	2(9.5)	6(21.4)	-
3	Tiswadi	-	21(16.8)	6(17.1)	15(12.5)	25(44.6)	-	4(19)	9(42.9)	5(17.9)	10(33.)
4	Bicholim	-	1(0.8)	-	2(1.6)	-	-	3(14.3)	-	1(3.6)	2(6.7)
5	Sattari	-	-	-	1(0.8)	-	-	6(28.6)	-	-	5(16.7)
6	Ponda	-	19(15.2)	3(8.7)	2(0.8)	5(8.9)	-	-	5(23.8)	3(10.7)	6(20)
7	Salette	-	14(11.2)	13(37.1)	28(18.4)	2(3.7)	7(58.3)	-	-	4(14.3)	-
8	Quepem	-	4(3.2)	1(2.6)	-	-	-	2(9.5)	-	-	-
9	Mormugao	21(46.7)	1(0.8)	2(5.8)	21(16.7)	-	2(16.7)	ı	ı	-	-
10	Sanguem	-	9(7.2)	-	1(0.8)	-	-	-	-	-	-
11	Dharbandora	-	-	-	1(0.8)	-	-	-	-	-	-
12	Canacona	-	-	-	-	-	1(8.3)	3(14.3)	-	-	3(10)
11	Total	45(100%)	125(100)	35(100)	130(100)	56(100)	12(100)	21(100)	21(100)	28(100)	30(100)

(Source: Field Work)

In table 5.3 the researcher has tried his best to consider all the talukas if not equally from all the streams but atleast few students for each and every stream. In some streams no institutes were available in a particular taluka so it was not possible to consider those talukas. So also to find students from every taluka was not convenient too. The various 12 talukas considered for the study were six talukas from North district and six talukas from south district.

It is seen from the above table that students for HS (NSQF) were considered from only two talukas i.e. Pernem and Mormugao whereas 9 talukas were taken for HSSC (Vocational) i.e. 4 from North district and 5 from South district. For UNID students from 7 talukas were taken for the study i.e. 4 from North and 3 from South district. 4 talukas from north are Pernem 5.8%, Bardez 22.9%, Tiswadi 17.1% and Ponda 8.7% whereas from south 3 talukas namely Salcete 37.1%, Quepem 2.6% and Mormugao 5.8%. Majority of the students were collected from Salcete taluka. For ITI students 10 taluka were considered i.e. 6 from North and 4 from South, for HRDFS 5 taluka students i.e. 4 North and 1 south, for EDP 4 taluka students i.e. 1 North and 3 South. Majority of ITI students are from Bardez taluka i.e. 32.6% followed by 18.4% from Salcete, 16.7% Mormugao, 15.0% from Pernem, 12.5% from Tiswadi, 1.6% from Bicholim, and 0.8% each from Sattari, Ponda, Dharbadora and Sanguem. It means that ongoing students from ten talukas are considered for study from ITI stream. Majority of ongoing HRDFS

students are from Tiswadi area which consist of 44.6%, followed by 21.4% each from Pernem and Bardez taluka, 8.9% and 3.7% from Ponda and Salcete respectively which means five talukas are considered for the survey. The EDP students are mostly from Salcete taluka i. 58.3% followed 16.7% each from Bardez and Mormugao talukas and 8.3% from Canacona. GHRSDC students are selected from six talukas i.e. 4 talukas from North and 2 talukas from South. Students taken from 4 talukas of North are Pernem, Bardez, Bicholim and Sattari i.e. 14.3%, 19%, 14.3% and 28.6% whereas from South, students are from Quepem and Canacona i.e. 9.5% and 14.3% respectively. Majority of the students are from Sattari taluka. TrCPC students were selected from 4 different talukas from North district namely Pernem, Bardez, Tiswadi and Ponda i.e. 23.8%, 9.3%. 42.9% and 23.8% respectively. Six taluka students were selected for ApprT survey out of them 5 were from North district namely Pernem, Bardez, Tiswadi, Bicholim and Ponda and 1 taluka from South district i.e. Canacona. Most of the students were from North district i.e. 85.7% while 14.3% were from South district. In case of OITSG six talukas were considered for the survey out of which 5 talukas were from North district and 1 taluka from South district (Canacona). Most of the trainees from North are from Tiwadi taluka i.e. 33.3% followed by Ponda, Sattari, Pernem, Canacona and Bicholim i.e. 20%, 16.7%, 13.3%, 10% and 6.7% respectively.

Table 5.4 Stream

Sr. No	Stream	Frequency	Percentage
1	NSQF (SSC)	45	8.9%
2	(HSSC) Vocational	125	24.9%
3	UNID	35	6.9%
4	ITI's	130	25.8%
5	HRDFS	56	11.1%
6	EDP	12	2.4%
7	GHRSD	21	4.2%
8	TrCPC	21	4.2%
9	Apprt	28	5.6%
10	OITSG	30	5.9%
11	Total	503	100%

(Source: Field Work)

Table 5.4 shows different streams, frequency and percentage. Majority of the students i.e. 25.8% are IIT's, 24.9% HSSC and least 2.4% are from EDP's. The highest percentage of ITI's and lowest percentage of EDP's have found in a study area.

5.3 Selection of the course

The personal interview with the students reveals that most of the NSQF, vocational, UNID, ITI, HRDFS, EDP, GHRSDC, TrCPC, ApprT, OITSG students/ trainees were well versed in taking their own decision to choose a particular course. The ongoing students were not dependent upon anyone to choose their education for career building. It shows that students are well matured in taking decision to join for the course. It can also be seen that parents do not interfere in choosing the course which makes sense from parents point of view because it is the life of the students and whatever education they take and the course they choose it for their career. Students know their best to choose a course. Some parents are either not aware since they are uneducated or they do not like to interfere in the decision of choosing a course. At the most the role of parents gets restricted only to guide and provide information about the various courses prevailing under various institutes. In fact it a wise decision of the parents to let their child choose the expected course whatever he likes to undergo further studies. Students showed their full confidence in selecting a course by their own and not dependent on anyone. There is no much more impact of friends, parents, media and public while choosing a course. It is noted that media and publicity has a mere impact on the decisions of the students for selecting a course.

5.4 Testing of Hypothesis

To verify the third objective of the study i.e. to study the attitude of On-going students toward facilities available and curriculum in the state of Goa, the following hypothesis was formed;

H0: Attitude of On-going students towards facilities available and curriculum is satisfactory.

H1: Attitude of On-going students towards facilities available and curriculum is unsatisfactory.

Further five sub-hypotheses were framed and tested with various statistical tools such as *Percentage, Mean score, Independent sample t-test and One way ANOVA* to serve the objective. The below hypothesis were analyzed and tested with reference to their Gender, District, Taluka, Stream and Trade. Further the data collected from the ongoing students was grouped into fourteen important areas to find out any difference in the opinions on the following aspects they are;

- A) Facilities available
- 1) Class rooms
- 2) Library facility
- 3) Equipments of teaching aids
- 4) Infrastructure facilities
- 5) On the job training/internship
- 6) Latest tools and equipments.
- B) Curriculum
- 7) Trainers/ Faculties of the Course
- 8) Instructors for internship/training places
- 9) Theory teaching in the class
- 10) Practical training in the institutions
- 11) Syllabus framed for the course
- 12) Overall Curriculum of the course

To collect the information on the above area a set of twelve statements were designed. The first six statements were for facilities available and remaining six for curriculum. The respondents were asked to rank it on the basis of four-point Likert scale from 'Poor' 'Satisfactory'. 'Good' and 'Excellent'. 503 ongoing students from all over Goa belonging to High School, Higher Secondary, University Departments, ITI, HRDFS, EDP, GHRDC, Training cum Production Centre, Apprenticeship training institutes and Other initiatives taken by the state government were surveyed. The collected data was then grouped into five categories based: **Gender** (Male and Female), **D**istrict (North and South), **Taluka** (Pernem, Bardez, Tiswadi, Bicholim, Sattari, Ponda, Salcete, Quepem, Mormugao, Sanguem, Dharbandora and Canacona), **10 Streams** (High Schools-OITSG) and **41 Trades**.

5.5 Analysis

The following sections give the analysis of the data along with the comments according to: **Gender**, District, Taluka, Stream and Trade. In case of Gender and District, the *Independent sample t-test* and the *Mean scores* were used where as in case of Taluka, Stream and Trades **one way** *ANOVA test* is used.

5.5.1 Gender

The collected data of 503 ongoing students was classified in to Male (326) and Female students (177) which are further organized and Cross-tabulated to calculate the *Mean* score and 't' values. The **Table 5.5** shows the frequencies along with the percentages, **Table 5.6** gives the *Mean* score of male and female while **Table 5.7** gives the 't' values of various attributes. The tables shown below are the analysis of various attributes on the basis of gender.

H01: There is no significant difference in the attitude of On-going male and female students towards facilities available and curriculum in the institutions.

Table 5.5: Table showing frequencies on attitude of ongoing students (Gender)

Statements	Scale	Male		Fei	male	Total		
		N	%	N	%	N	%	
	Poor	6	1.9%	10	5.6%	16	3.2%	
Class rooms	Satisfactory	71	22.0%	31	17.5%	102	20.4%	
Class rooms	Good	165	51.1%	88	49.7%	253	50.6%	
	Excellent	81	25.1%	48	27.1%	129	25.8%	
	Poor	56	17.6%	43	25.7%	99	20.4%	
l ibrom focility	Satisfactory	84	26.3%	42	25.1%	126	25.9%	
Library facility	Good	125	39.2%	51	30.5%	176	36.2%	
	Excellent	54	16.9%	31	18.6%	85	17.5%	
	Poor	5	1.6%	15	9.1%	20	4.2%	
Equipments of teaching	Satisfactory	53	16.9%	26	15.8%	79	16.5%	
aids	Good	147	46.8%	67	40.6%	214	44.7%	
	Excellent	109	34.7%	57	34.5%	166	34.7%	
	Poor	13	4.0%	18	10.2%	31	6.2%	
Informations for illition	Satisfactory	43	13.4%	34	19.2%	77	15.5%	
Infrastructure facilities	Good	181	56.4%	81	45.8%	262	52.6%	
	Excellent	84	26.2%	44	24.9%	128	25.7%	
	Poor	33	10.4%	12	7.4%	45	9.4%	
On-the job training/	Satisfactory	56	17.6%	30	18.5%	86	17.9%	
internship.	Good	161	50.6%	95	58.6%	256	53.3%	
·	Excellent	68	21.4%	25	15.4%	93	19.4%	
	Poor	32	9.9%	27	15.4%	59	11.9%	
Latest tools and	Satisfactory	40	12.4%	33	18.9%	73	14.7%	
equipments.	Good	160	49.7%	75	42.9%	235	47.3%	
	Excellent	90	28.0%	40	22.9%	130	26.2%	
	Poor	5	1.5%	0	0.0%	5	1.0%	
Trainers/ Faculties of the	Satisfactory	24	7.4%	5	2.8%	29	5.8%	
Course	Good	155	47.7%	73	41.2%	228	45.4%	
	Excellent	141	43.4%	99	55.9%	240	47.8%	
	Poor	31	9.7%	12	7.4%	43	9.0%	
Instructors for	Satisfactory	38	11.9%	16	9.9%	54	11.2%	
internship/training places	Good	175	55.0%	83	51.2%	258	53.8%	
	Excellent	74	23.3%	51	31.5%	125	26.0%	
	Poor	8	2.5%	1	0.6%	9	1.8%	
Theory teaching in the	Satisfactory	29	9.0%	6	3.4%	35	7.0%	
class	Good	142	44.0%	101	57.1%	243	48.6%	
	Excellent	144	44.6%	69	39.0%	213	42.6%	
	Poor	8	2.5%	0	0.0%	8	1.6%	
Practical training in the	Satisfactory	14	4.3%	13	7.3%	27	5.4%	
institutions	Good	107	32.9%	56	31.6%	163	32.5%	
	Excellent	196	60.3%	108	61.0%	304	60.6%	
	Poor	4	1.3%	5	2.8%	9	1.8%	
Syllabus framed for the	Satisfactory	47	15.0%	30	17.0%	77	15.7%	
course	Good	191	61.0%	108	61.4%	299	61.1%	
	Excellent	71	22.7%	33	18.8%	104	21.3%	
	Poor	1	0.3%	4	2.3%	5	1.0%	
Oversite above of the con-	Satisfactory	37	11.8%	17	9.8%	54	11.1%	
Curriculum of the course	Good	197	62.9%	117	67.6%	314	64.6%	
	Excellent	78	24.9%	35	20.2%	113	23.3%	
		-						

Table 5.6: Table showing group statistics on attitude of ongoing students (Gender)

Statements	Gender	N	Mean	Std.	Std. Error
Statements				Deviation	Mean
Class rooms	Male	325	2.99	.741	.041
Class foolis	Female	175	2.98	.823	.062
Library facility	Male	321	2.56	.970	.054
Library facility	Female	165	2.41	1.064	.083
Equipments of teaching side	Male	316	3.14	.757	.043
Equipments of teaching aids	Female	164	3.00	.933	.073
Infrastructure facilities	Male	323	3.05	.748	.042
infrastructure facilities	Female	175	2.85	.912	.069
On the jeb twining/intermelia	Male	328	1.19	.402	.022
On-the job training/ internship	Female	175	1.29	.456	.034
I start to all and a surface out.	Male	324	3.92	.981	.054
Latest tools and equipments.	Female	173	3.67	1.068	.081
Trainers/ Faculties of the Course	Male	327	3.33	.680	.038
Trainers/ Faculties of the Course	Female	175	3.55	.649	.049
I	Male	320	2.91	.870	.049
Instructors for internship/training places	Female	160	3.08	.832	.066
Theory teaching in the class	Male	325	3.31	.736	.041
Theory teaching in the class	Female	175	3.34	.574	.043
Description in the invalence	Male	327	3.51	.695	.038
Practical training in the institutions	Female	175	3.53	.632	.048
C-11-1	Male	315	3.05	.651	.037
Syllabus framed for the course	Female	174	2.96	.691	.052
C	Male	315	3.13	.605	.034
Curriculum of the course	Female	171	3.06	.630	.048

Table 5.7: Table showing t-values on attitude of ongoing students (Gender)

Statements		Levene's Test for Equality of Variances		t-test for Equality of Means		
		F	Sig.	Т	Df	Sig. (2- tailed)
Classical	Equal variances assumed	1.255	.263	.231	498	.817
Class rooms	Equal variances not assumed			.224	325.732	.823
I 11	Equal variances assumed	4.640	.032	1.577	484	.115
Library facility	Equal variances not assumed			1.531	305.432	.127
Equipments of tooching side	Equal variances assumed	2.851	.092	1.801	478	.072
Equipments of teaching aids	Equal variances not assumed			1.687	276.657	.093
Infrastructure facilities	Equal variances assumed	15.096	.000	2.724	496	.007
minastructure racinties	Equal variances not assumed			2.569	302.120	.011
On-the job training/ internship.	Equal variances assumed	21.516	.000	-2.518	501	.012
On-the job training/ internship.	Equal variances not assumed			-2.424	319.329	.016
Latest tools and equipments.	Equal variances assumed	9.009	.003	2.583	495	.010
Latest tools and equipments.	Equal variances not assumed			2.517	326.521	.012
Trainers/ Faculties of the Course	Equal variances assumed	1.366	.243	-3.525	500	.000
Trainers/ Faculties of the Course	Equal variances not assumed			-3.576	370.333	.000
Instructors for internship/training places	Equal variances assumed	.148	.701	-2.109	478	.035
mistractors for internsing/training places	Equal variances not assumed			-2.140	331.059	.033
Theory teaching in the class	Equal variances assumed	10.634	.001	500	498	.617
Theory teaching in the class	Equal variances not assumed			538	435.081	.591
Practical training in the institutions	Equal variances assumed	.445	.505	280	500	.780
Fractical training in the institutions	Equal variances not assumed			288	385.889	.774
Syllabus framed for the course	Equal variances assumed	.108	.742	1.447	487	.148
Synabus framed for the course	Equal variances not assumed			1.423	339.212	.156
Curriculum of the course	Equal variances assumed	1.530	.217	1.175	484	.241
Curriculant of the course	Equal variances not assumed			1.161	337.191	.246

5.5.1.1 Class rooms

Table 5.5 shows the reply to the statement given by the ongoing students towards conditions of class rooms where the skill courses are conducted by the various institutions in the state of Goa. The data shows that majority of the male and female

ongoing students i.e. 51.1% and female 49.7% claimed that the class rooms are good in condition while 25.1% and 27.1% said excellent while 22.0% and 17.5% stated satisfactory whereas 1.9% and 5.6% of male and female students feels classrooms are poor respectively. It means that most of the students from both the sexes are satisfied with the prevailing condition of the class rooms provided by the institutions which shows the attitude of the students is positive towards class rooms. During the personal interview with the students it is noticed that HS and HSSC class rooms are in good condition while ITI class rooms were improved recently in the past years as compared to past decades. The EDP class rooms are really excellent which is seen during the visit to various institutes. It is also observed that most of the UNID students were unsatisfied and claimed that their classrooms are not good enough. Trainees of TrCPC disclosed that their condition of classrooms is really poor. The classes are conducted in a house containing one room which is taken on rental basis without any much more facilities.

The *Mean* score between the Male and Female respondents (table 5.6) is 2.99 and 2.98 respectively, which means that both sexes do not difference in their attitude and they are satisfied towards the condition of the class rooms. It is the male respondents who are slightly more satisfied than female respondents.

The F value (table 5.7) is 1.255 and its corresponding p value is 0.263, which is more than 0.05 at 5% level of significance. The t value for equality of means is 0.231 and its corresponding two tailed significant value is 0.817 which is higher than 0.05 at 5% level of significance and therefore we can say that there is no significant difference between Male and Female students with reference to the class rooms conditions of the institutions. Thus over all it can be said is that both Male and Female students consider class rooms condition is satisfactory.

5.5.1.2 Library facility

The table 5.5 shows that majority of the ongoing students from male and female i.e. 39.2% and 30.5% feels the library facility is good followed 26.3% and 25.1% feels it is satisfactory whereas 16.9% and 18.6% said excellent and few respondents feels it is poor. It means that the majority of the male as well as female respondents are satisfied for the library facilities provided by the institutions. It is also observed during the personal interview that most of the institutions do provide library facility in their respective institution for acquiring more and more knowledge through books and access of internet facility. UNID students avail of better and higher standard of library facilities in Goa

followed by HRDFS students. But students of 4 streams namely GHRSDC, TrCPC, ApprT and OITSG trainees do not avail any sort of qualitative facility of library. The knowledge of the students remains up to the syllabus and whatever taught in the class by the teachers. The trainees do not get any opportunities to read and acquire more knowledge due to lack of library facilities available at the training centers.

Further, the *Mean* score between Male and Female institutional heads (table 5.6) is 2.56 and 2.41, which implies that between Male and Female students, they are the male students who are more satisfied with the library facilities provided by the institutions than female respondents. However the overall result shows that both sexes of respondents are satisfied.

The data was further analyzed (table 5.7) with the help of 't' test. In this case, the F ratio for Levene's test for equality of variance is significant (F=4.640, p=0.032) where (p<0.05) and therefore we take equal variance not assumed. The 't' value is 1,531 and its corresponding significant value is 0.127 which is greater than 0.05, thus we can say that both sexes do not have any significant difference in their opinions whether it is a male or female respondents, they both are satisfied with library facility provided in the institutions.

5.5.1.3 Equipments of teaching aids.

Teaching aids helps students to understand faster. Teaching aids helps students to understand the topic faster and to remember easily. Teaching aids are very essential in today's world since lot can be shown to students related to the topic and impart lots of knowledge to the students. Table 5.5 depicts that majority of the male and female ongoing students i.e. 46.8% and 40.6% respectively said the institutions do have good provision for teaching aids. It means that majority of males and Females students are satisfied with facilities of equipments of teaching aids available in the institutions and used by the faculties. It means that most of the teachers of different streams make use teaching aids while teaching. It is noticed during the personal interview that trainers from TrCPC do not make use of any teaching equipments but only stresses on practical teaching.

The *mean* score between Male and Female students (table 5.6) is 3.14 and 3.00 respectively. It means that the male students are more satisfied than the female students with respect to availability and use of teaching facilities in the various institutions.

The Levene's test for equality of variance (table 5.7) is not significant (0.092) where P value is greater than 0.05 at 5% level of significance. The 't' value is 1.801 and the corresponding p value is not significant i.e. 0.072 which more than 0.05 at 5% level of significance. It means that there is no significant difference between the gender of the students and the available facility of teaching equipments in the institutions.

5.5.1.4 Infrastructure facilities.

Table 5.5 reveals that majority of male and female students i.e. 56.4% and 45.8% respectively said infrastructure facility in the institutions is good whereas 34.7% and 34.5% commented as excellent and very students claimed to be poor. It means majority of the respondents from both sexes are satisfied with the infrastructure facility provided by the institutions. It is noticed during the visits to various institutions that government and private institutions have made rigorous improvement in the infrastructure to attract students in their own institute. The Government has offered funds for the development of infrastructure which benefited most of the institutes to build their premises. Even some buildings of the institutes are shifted to some other places to provide better infrastructure to the institutions. The UNID student showed un-satisfaction while trainees of TrCPC commented that infrastructure is poor and bad since the class are conducted in a single room of rented houses or in the government school.

The *Mean* score between Male and Female respondents (table 5.6) is 3.05 and 2.85 respectively. This shows that there is a significant difference between Male and Female respondents whereby male respondents have an edge over female respondents as far as infrastructure facilities are concerned. It is the male respondents who are more satisfied towards infrastructure facilities available in the institutes than female respondents.

The F ratio for Levene's test for equality of variance (table 5.7) is significant (0.000) which is less than 0.05 at 5% level of significance. Hence we take the 't' value of equal variance not assumed. The 't' value 2.569 and its corresponding p value is 0.011 which is lower than 0.05 at 5% level of significance. It means that the two sexes are significantly different in their opinions towards infrastructure facilities available in the institutions.

5.5.1.5 On-the job training/internship.

The scheme of internship and training on the job can make students highly skilled. Table 5.5 shows that 50.6% and 58.6% of the male and female students respectively commented on facilities of on the job training and internship provided is good while 21.4% and 15.4% as excellent. It means that majority of the students from both the sexes are satisfied with on-the job and internship provided in the industries or at work place. It can be interpreted from the personal interview with the students that there is no facility for NSQF students to provide internship beside IT course. The Vocational, UNID, ITI, HRDFS, EDP, GHRSDC, TrCPC, ApprT students/trainees revealed that they get training facility during the course work. The trainees from OITSG are not sending at all for any sort of training in the industries in their respective field.

The *Mean* score between Male and Female respondents (table 5.6) is 1.19 and 1.29 respectively which shows that female students are more satisfied than male respondents with respect to on-the job training and internship provided in the industries.

In case of the 't' test analyses, the F ratio for Levene's test for equality of variance (table 5.7) is highly significant i.e. 0.000 (P<0.05). So, we consider 't' value of equal variance not assumed. The 't' value for equality of means is -2.424 and its corresponding p value is 0.016 which is less than 0.05 at 5 % level of Significance. It means that there is a significant difference between the Male and the Female respondents with regards to on the job training/ internship. The attitude of male and female students is different from each other.

5.5.1.6 Latest tools and equipments.

The table 5.5 shows that majority of the male and female respondents i.e. 49.7% and 42.9% said good whereby 28.0% and 22.9% said excellent respectively. It indicates that both sexes of the students are satisfied with the available facility of latest tools and equipments in the institutions. The institutions are trying their best to provide upgraded facility of latest tools and equipments for the benefit of the students and also to make students highly skilled. During the personal interaction with the students it is noticed that ITI students more in close touch with new and latest tools and equipments followed by students from other streams such as NSQF, vocational, UNID, HRDFS and OITSG. Trainees of GHRSDC and ApprT were slightly unhappy since they are not allowed to use latest tools and equipment and they are trained on the same old machines and equipment used for several years before.

The *mean* score between Male and Female respondents (table 5.6) is 3.92 and 3.67 respectively. This means that male students are more satisfied as compared to female students towards facilities available to use latest technology and equipments.

According to the 't' test analyses, the F ratio for Levene's test for equality of variance (table 5.7) is significant (F=9.009, p=0.003) where (p<0.05), therefore we take equal variance not assumed. The 't' value for equality of means is 2.517 and its corresponding p value is 0.012 which is lower than 0.05 at 5 % level of Significance. It means that there is a significant difference between Male and Female respondents towards facilities available to use latest tools and equipments. In other words both Male and Female students differ in their opinion towards available facilities to use latest tools and equipments.

5.5.1.7 Trainers/Faculties of the course

Table 5.5 to comment on trainers or faculties appointed for the course, the overall result of the male and female students shows that 91.1 % and 97.1% of the students said good and excellent whereby very few students were negative. It means majority of the male and female students are highly satisfied and satisfied respectively with trainers and faculties teaching in the various institutions. It is also noticed during personal visit to the various institutions that teachers/faculties teaching in the institutes are well trained and excellent.

The *Mean* score between Male and Female respondents (table 5.6) is 3.33 and 3.55 respectively. It means that female students are at the forefront and are more satisfied than female students with respect to trainers/faculties of the courses.

The Levene's test for equality of variance (table 5.7) is not significant (0.243) where the P>0.05 at 5% level of significance. The 't' value is -3.525 and its corresponding p value is 0.000 which is significant. It means that there is a difference between the attitude of male and female students towards teachers/faculties teaching in the institutions.

5.5.1.8 Instructors for internship/training

In table 5.5 an attempt was made to find the quality of an instructor for internship at training places which shows that majority of male and female students i.e. 55.0% and 51.2% said good while 23.3% and 31.5% claimed excellent. It means that majority of the respondents are satisfied with respect to instructors for internship.

The *Mean* score between male and female students (table 5.6) is 2.91 and 3.08 respectively which indicates that female students are more satisfied towards instructors for internship than male students.

The F ratio for Levene's test of equality of variance (table 5.7) is not significant (0.148) and the p value is 0.701 which is higher than 0.05 at 5 % level of significance. The 't' value is -2.109 and its corresponding p value is 0.035 which is less than 0.05. It indicates that there is a significant difference between the attitude of male and female students towards instructors for internship or training on-the job.

5.5.1.9 Theory teaching in the class.

Table 5.5 shows whether students are satisfied about the theory teaching in the class. The combined results reveals that Majority of male and female students i.e. 44.0% and 57.1% stated it is good while 44.6% and 39.0% said excellent respectively to the theory teaching in the class and a very negligible students claimed to be poor. It means the attitude of the students is satisfied about the theory taught in the class for different courses under skill development programmes.

The *mean* score between the male and female students (table 5.6) is 3.31 and 3.34 respectively, which shows that between the Male and Female students, they are the female respondents who are little more satisfied with respect to theory taught compared to male respondents.

In case of 't' test analyses, the F ratio for Levene's test for equality of variance (table 5.7) is significant (10.634) where the P value is 0.001 which more than 0.05. Therefore we take equal variance not assumed. The 't' value is -0.538 and its corresponding p value is 0.591 which is more than 0.05 at 5% level of significance. This means that there is no significant difference in the attitude between Male and female respondents for the theory taught in the class.

5.5.1.10 Practical training in the institutions

It is can be observed from table 5.5 that majority students from both sexes i.e. 60.3% of male and 61.0% of female claimed to be excellent while 32.9% of male and 31.6% of female said good with respect to the practical training. It means majority of the students whether male or female are highly satisfied towards practical training offered by the various institutions. It is observed during the personal interaction with the students that almost all students are happy for the practical training. Most of the institutes are

emphasizing on offering advance training to the students in their respective trade so that students can successfully take up job in their respective field. It shows that the efforts and interest taken by the institutions in providing practical training helps students to learn the requirement of job in advance during the course and makes them confident in taking up job in the respective field.

The *Mean* score between the Male and Female students (table 5.6) is 3.51 and 3.53 respectively, which reveals that in-between the Male and female students, female students are more satisfied than the male students towards practical training provided in the institutions.

The F ratio for Levene's test for equality of variance (table 5.7) is not significant (0.445) and the P value is 0.505 which is greater than 0.05 at 5% level of significance. In this case the 't' value is -0.280 and its corresponding P value is 0.780 which is higher than 0.05 at 5% level of Significance. This means that there is no significant difference between both the sexes of the students towards practical training.

5.5.1.11 Syllabus framed for the course

Table 5.5 shows that majority of male and female students i.e. 61.0% and 61.4% of the students stated good and 22.7% and 18.8% claimed excellent whereby very few students said poor for the syllabus framed. It means majority of the respondents are satisfied towards syllabus framed for the course by the concern authority. During the personal interaction with the students some students disclosed that syllabus framed for the course is good but it is necessary to update every year as per the current changes in the market and as per the needs and expectations of the employers.

The *Mean* score between Male and Female respondents (table 5.6) is 3.05 and 2.96 respectively. It means that male students are at the upper edge and more satisfied than female students with respect to syllabus taught in the institutions.

The Levene's test for equality of variance (table 5.7) is not significant (0.742) where the P>0.05 at 5% level of significance. The 't' value is -1.447 and its corresponding p value is 0.148 which is not significant. It means that there is no difference between the attitude of male and female students towards syllabus framed by the authority and taught in the institutions.

5.5.1.12 Curriculum of the course

In table 5.5 an attempt was made to find the curriculum framed for the course is appropriate which shows that majority of male and female students i.e. 62.9% and 67.6% said good while 24.9% and 20.2% claimed excellent respectively. It means that majority of the male and female students are satisfied with respect to curriculum of the course.

The *Mean* score between male and female students (table 5.6) is 3.13 and 3.06 respectively which indicates that they are the male students are more satisfied with the curriculum followed by the institutions rather than female students.

The F ratio for Levene's test of equality of variance (table 5.7) is not significant (1.530) and the p value is 0.217 which is higher than 0.05 at 5 % level of significance. The 't' value is 1.175 and its corresponding p value is 0.241 which is more than 0.05. It indicates that there is no significant difference between the attitude of male and female students towards curriculum prepared for the course.

To sum up the attitude of ongoing students on the basis of gender, the analyses of with the help of t-test for equality of means whereby p value in most of the attributes is not significant. The 't' value of independent sample t- test for equal variances in most of the attributes (7) are not significant (p>0.05) at 5% level of significance except in case of 5 attributes where a significant difference was noticed. The statement of no significant difference are Class rooms, Library facilities, Teaching aids, theory teaching in the class, Practical training in the institutions, Syllabus framed for the course and curriculum framed for the course. The attributes of significant difference are Infrastructure facilities, on-the job training/internship, latest tools and equipments, Teachers/ Faculty of the Courses and Instructors for internship/training places where the 'p' value is less than 0.05. The *Mean* score between Male and Female Ongoing students shows that there exist a significant difference in 5 attributes tested under independent sample t-test and remaining (7 attributes) there is no significant differences. A difference is noticed in the variables like Infrastructure facilities (3.05 and 2.85), on-the job training/internship (1.19 and 1.29), latest tools and equipments (3.92 and 3.67), Teachers/ Faculties of the Course (3.33 and 3.55), Instructors for internship/training places (2.91 and 3.08), where the mean values in-between Male and Female ongoing students are different. The mean values indicate that female students are more satisfied or happier than the male students with respect to most of attributes. So, whether they are Male or Female students, there is no much difference between the two groups in their attitude for most of the statements tested and both sexes of students are satisfied, thus the null hypothesis is accepted.

5.5.2 District

For purpose of analysis, the data collected was divided into two **Districts** namely South Goa and North Goa. The total numbers of students surveyed were 503 students from Goa out of which 352 students were from North Goa and 151 were from North Goa. The statistical tools such as *Percentages, Mean* score, and 't' test was used to test the validity of the attributes. **Table 5.8** shows the **frequencies** along with the percentages, **Table 5.9** gives the **mean** score and **Table 5.10** shows the 't' values. The below given tables shows the analysis of each of the statements:

H02: There is no significant difference in the attitude of On-going North and South district students towards facilities available and curriculum in the State of Goa.

Table 5.8: Table showing frequencies on attitude of ongoing students (District)

		N	orth	S	outh	To	otal
		N	%	N	%	N	%
	Poor	14	4.0%	2	1.4%	16	3.2%
01	Satisfactory	79	22.4%	23	15.5%	102	20.4%
Class rooms	Good	169	48.0%	84	56.8%	253	50.6%
	Excellent	90	25.6%	39	26.4%	129	25.8%
	Poor	90	26.2%	9	6.3%	99	20.4%
	Satisfactory	85	24.8%	41	28.7%	126	25.9%
Library facility	Good	100	29.2%	76	53.1%	176	36.2%
	Excellent	68	19.8%	17	11.9%	85	17.5%
	Poor	18	5.2%	2	1.5%	20	4.2%
	Satisfactory	59	17.0%	20	15.2%	79	16.5%
Equipments of teaching aids	Good	148	42.7%	66	50.0%	214	44.7%
	Excellent	122	35.2%	44	33.3%	166	34.7%
	Poor	24	6.9%	7	4.7%	31	6.2%
	Satisfactory	55	15.7%	22	14.9%	77	15.5%
Infrastructure facilities	Good	175	50.0%	87	58.8%	262	52.6%
	Excellent	96	27.4%	32	21.6%	128	25.7%
	Poor	40	11.8%	5	3.5%	45	9.4%
	Satisfactory	56	16.6%	30	21.1%	86	17.9%
On-the job training/ internship	Good	168	49.7%	88	62.0%	256	53.3%
	Excellent	74	21.9%	19	13.4%	93	19.4%
	Poor	47	13.4%	12	8.2%	59	11.9%
	Satisfactory	50	14.3%	23	15.6%	73	14.7%
Latest tools and equipments.	Good	168	48.0%	67	45.6%	235	47.3%
	Excellent	85	24.3%	45	30.6%	130	26.2%
	Poor	5	1.4%	0	0.0%	5	1.0%
Trainers/ Faculties of the	Satisfactory	21	5.9%	8	5.4%	29	5.8%
Course	Good	140	39.7%	88	59.1%	228	45.4%
000.00	Excellent	187	53.0%	53	35.6%	240	47.8%
	Poor	39	11.5%	4	2.8%	43	9.0%
Instructors for		33	9.8%	21	14.8%	54	11.2%
internship/training places	Good	170	50.3%	88	62.0%	258	53.8%
momorine/maining places	Excellent	96	28.4%	29	20.4%	125	26.0%
	Poor	7	2.0%	2	1.3%	9	1.8%
	Satisfactory	24	6.8%	11	7.4%	35	7.0%
Theory teaching in the class	Good	169	48.1%	74	49.7%	243	48.6%
	Excellent	151	43.0%	62	41.6%	213	42.6%
	Poor	6	1.7%	2	1.3%	8	1.6%
Practical training in the		16	4.5%	11	7.4%	27	5.4%
institutions	Good	113	32.0%	50	33.6%	163	32.5%
	Excellent	218	61.8%	86	57.7%	304	60.6%
	Poor	9	2.6%	0	0.0%	9	1.8%
Syllabus framed for the	Satisfactory	61	17.8%	16	10.9%	77	15.7%
Course	Good	204	59.6%	95	64.6%	299	61.1%
COUISE		68		36	24.5%	104	21.3%
	Excellent	80	19.9%	30	24.5%	104	21.3%

	Poor	5	1.5%	0	0.0%	5	1.0%
Curriculum of the course	Satisfactory	38	11.2%	16	11.0%	54	11.1%
Curricularii oi trie course	Good	212	62.4%	102	69.9%	314	64.6%
	Excellent	85	25.0%	28	19.2%	113	23.3%

Table 5.9: Table showing group statistics on attitude of ongoing students (District)

	Group Statistics				
	District	N	Mean	Std. Deviation	Std. Error Mean
Class rooms	North	354	2.95	.800	.043
Class rooms	South	146	3.08	.686	.057
Library facility	North	345	2.43	1.082	.058
Library facility	South	141	2.70	.755	.064
F	North	349	3.07	.858	.046
Equipments of teaching aids	South	131	3.15	.725	.063
Infrastructure facilities	North	352	2.99	.842	.045
infrastructure facilities	South	146	2.97	.747	.062
On the inh toning / intermedia	North	356	1.24	.432	.023
On-the job training/ internship	South	147	1.20	.404	.033
T 1 . 1	North	352	3.79	1.011	.054
Latest tools and equipments.	South	145	3.93	1.032	.086
T : /F 1/: 64 G	North	355	3.46	.713	.038
Trainers/ Faculties of the Course	South	147	3.30	.566	.047
T	North	340	2.94	.928	.050
Instructors for internship/training places	South	140	3.01	.668	.056
TTI	North	353	3.33	.690	.037
Theory teaching in the class	South	147	3.31	.670	.055
The state of the state of the state of	North	355	3.54	.664	.035
Practical training in the institutions	South	147	3.47	.695	.057
	North	344	2.97	.693	.037
Syllabus framed for the course	South	145	3.14	.585	.049
0 1 1 64	North	342	3.11	.640	.035
Curriculum of the course	South	144	3.08	.548	.046

Table 5.10: Table showing t-values on attitude of ongoing students (District)

Statements		Levene's	Test for	t-test fo	or Equality of	Means
		Equality of	Variances			
		F	Sig.	T	Df	Sig. (2- tailed)
	Equal variances assumed	3.940	.048	-1.631	498	.103
Class rooms	Equal variances not assumed	2.7.0	.0.0	-1.739	313.174	.083
	Equal variances assumed	50.326	.000	-2.666	484	.008
Library facility	Equal variances not assumed			-3.085	367.841	.002
F	Equal variances assumed	2.808	.094	836	478	.404
Equipments of teaching aids	Equal variances not assumed			902	274.403	.368
Infrastructure facilities	Equal variances assumed	2.832	.093	.250	496	.803
infrastructure facilities	Equal variances not assumed			.262	303.495	.793
On-the job training/ internship	Equal variances assumed	2.559	.110	.767	501	.444
On-the job training/ internship	Equal variances not assumed			.788	289.415	.431
Latest tools and equipments.	Equal variances assumed	.215	.643	-1.408	495	.160
Latest tools and equipments.	Equal variances not assumed			-1.396	263.405	.164
Trainers/ Faculties of the Course	Equal variances assumed	9.310	.002	2.376	500	.018
Trainers/ Faculties of the Course	Equal variances not assumed			2.612	340.208	.009
Instructors for	Equal variances assumed	15.148	.000	812	478	.417
internship/training places	Equal variances not assumed			928	355.762	.354
Theory teaching in the class	Equal variances assumed	.162	.688	.191	498	.848
Theory teaching in the class	Equal variances not assumed			.194	280.561	.847
Practical training in the	Equal variances assumed	1.254	.263	1.082	500	.280
institutions	Equal variances not assumed			1.061	261.711	.289
Syllabus framed for the course	Equal variances assumed	.139	.710	-2.589	487	.010
Synabus framed for the course	Equal variances not assumed			-2.773	318.075	.006
Curriculum of the course	Equal variances assumed	4.184	.041	.455	484	.649
Curriculum of the course	Equal variances not assumed			.485	311.263	.628

5.5.2.1 Class rooms

The table 5.8 shows that majority of ongoing students from North and South said class room are good i.e. 48.0% and female 56.8% whereas 25.6% and 26.4% claimed to be excellent while 22.4% and 15.5% stated satisfactory whereas 4.0% and 1.4% of male and female students respectively feels classrooms are poor. It means that most of the students from both the districts are satisfied with the prevailing condition of the class rooms provided by the institutions.

The *Mean* score between the Male and Female respondents (table 5.9) is 2.95 and 3.08 respectively, which means that both sexes do not difference much in their attitude whereby they are satisfied with the prevailing condition of the class rooms. They are the female respondents who are slightly more satisfied than male respondents.

The F value (table 5.10) is 3.940 and its corresponding p value is 0.048, which is less than 0.05 at 5% level of significance. Hence, we take equal variance not assumed. The t value for equality of means is -1.739 and its corresponding two tailed significant value is 0.083 which is higher than 0.05 at 5% level of significance. It means that there is no significant difference between students of both Male and Female students from two different districts and they are satisfied with the condition of class rooms provided by the institutions.

5.5.2.2 Library facility

The table 5.8 shows that majority of the ongoing students from north and south districts i.e. 29.2% and 53.1% feels the library facility is good followed 26.2% of north feels poor and 28.7% of south feels it is satisfactory whereas 19.8% and 11.9% of north and south respectively said excellent. It means that the majority of the north and south students are satisfied for the library facilities provided by the various institutions.

Further, the *Mean* score between students of north and south district (table 5.9) is 2.43 and 2.70, which implies that between north and south district students, students from south are more satisfied with the library facilities than north district students.

The data was further analyzed with the help of 't' test (table 5.10) in which the F ratio for Levene's test for equality of variance is significant (F=50.326, p=0.000) where (p<0.05) and therefore we take equal variance not assumed. The 't' value is -3.085 and its corresponding significant value is 0.002 which is lower than 0.05, thus we can say that students from north and south district are significantly different with the library facility provided in the institutions.

5.4.2.3 Equipments of teaching aids.

Table 5.8 shows that majority of the north and south districts ongoing students i.e. 42.7% and 50.0% said the institutions do have good provision for teaching aids and 35.2% and 33.3% said excellent respectively. It means that majority of north and south students are fully satisfied with facilities of equipments of teaching aids available in the institutions and used by the faculties.

The *mean* score between north and south district students (table 5.9) is 3.07 and 3.15 respectively. It means that the south students are more satisfied than the north students with respect to availability of teaching aids in the various institutions.

The F ratio of Levene's test for equality of variance (table 5.10) is not significant (0.094) where the P value is more than 0.05 at 5% level of significance. The 't' value is -0.836 and the corresponding P value is not significant i.e. 0.404 which more than 0.05 at 5% level of significance. It means that there is no significant difference between the students from two different districts with the availability of teaching equipments in the institutions.

5.5.2.4 Infrastructure facilities.

Table 5.8 reveals that majority of north and south students i.e. 50.0% and 58.8% respectively said infrastructure facility in the institutions is good whereas 27.4% and 21.6% commented to be excellent and very few students claimed it is poor. It means majority of the respondents from both districts are highly satisfied with the infrastructure facility provided by the institutions.

The *Mean* score between north and south respondents (table 5.9) is 2.99 and 2.97 respectively. This shows that north students have an edge over south respondents as far as infrastructure facilities are concerned. It is the north students who are more satisfied towards infrastructure facilities available in the institutes than south respondents.

The F ratio for Levene's test for equality of variance (table 5.10) is not significant (0.093) which is less than 0.05 at 5% level of significance. Hence we take the 't' value of equal variance not assumed. The 't' value 0.250 and its corresponding p value is 0.803 which is more than 0.05 at 5% level of significance It means that the attitude of students from north and south district is not significantly different with respect to infrastructure facilities available in the institutions.

5.5.2.5 On-the job training/internship.

Table 5.8 shows that 49.7% and 62.0% of the north and south district students respectively commented on facilities of on the job training and internship provided is good while 21.9% and 13.4% as excellent. It means that majority of the students from both the districts are satisfied with on-the job training and internship provided in the industries.

The *Mean* score between north and south respondents (table 5.9) is 1.24 and 1.20 respectively which shows that north district students are more satisfied than south students with respect to on-the job training and internship provided in the industries.

In case of the 't' test analyses, the F ratio for Levene's test for equality of variance (table 5.10) is not significant i.e. 0.110 (P>0.05). The 't' value for equality of means is 0.767 and its corresponding p value is 0.444 which is more than 0.05 at 5 % level of Significance. It means that there is a no much significant difference between students from two different districts with respect to on the job training/internship.

5.5.2.6 Latest tools and equipments.

The table 5.8 shows that majority of the north and south students i.e. 48.0% and 45.6% said good whereby 24.3% and 30.6% said excellent respectively. It indicates that students of both districts are satisfied with the available facility of latest tools and equipments in the institutions.

The *mean* score between Male and Female respondents (table 5.9) is 3.79 and 3.93 respectively. This means that south students are more satisfied as compared to north students towards facilities available to use latest technology and equipments.

According to the 't' test analyses, the F ratio for Levene's test for equality of variance (table 5.10) is not significant (F=0.215, p=0.643) where (p>0.05). The 't' value for equality of means is -1.408 and its corresponding p value is 0.160 which is more than 0.05 at 5 % level of Significance. It means that there is no significant difference between the attitude of north and south district students towards facilities available to use latest tools and equipments.

5.5.2.7 Trainers/Faculties of the course

Table 5.8 shows the overall attitude of north and south students for trainers/faculties appointed for the course i.e. 53.0 % and 59.1% of the students said excellent and good respectively. It means majority of the students from North are highly satisfied while students from south are satisfied with trainers/faculties teaching in the various institutions. But students of both the districts are satisfied.

The *Mean* score between Male and Female respondents (table 5.9) is 3.46 and 3.30 respectively. It means that north students are at the edge and are more satisfied than south students with trainers/faculties of the courses teaching in the institutions.

The Levene's test for equality of variance (table 5.10) is significant (0.002) where the P<0.05 at 5% level of significance. Therefore we take equal variance not assumed. The 't' value is 2.612 and its corresponding p value is 0.009 which is significant. It means that there is a difference between the attitude of the students from two different districts with respect to teachers/faculties teaching in the institutions.

5.5.2.8 Instructors for internship/training

Table 5.8 shows the quality of an instructor for internship at training places where the majority of north and south district students i.e. 55.3% and 62.0% said good while 28.4% and 20.4% claimed instructors for internship is excellent respectively. It means that students from both the districts are satisfied with respect to instructors for internship.

The *Mean* score between north and south district students (table 5.9) is 2.94 and 3.01 respectively which indicates that students of south district are more satisfied towards instructors for internship than north students.

The F ratio for Levene's test of equality of variance (table 5.10) is significant (15.148) and the p value is 0.000 which is less than 0.05 at 5 % level of significance. Therefore we take equal variance not assumed. The 't' value is -0.928 and its corresponding p value is 0.354 which is more than 0.05. It indicates that there is no significant difference between the attitude of students from two different districts towards instructors for internship and at training places.

5.5.2.9 Theory teaching in the class.

The combined result of the student's attitude for theory teaching in the class (table 5.8) reveals that majority of north and south students i.e. 48.1% and 49.7% said good while 43.0% and 41.6% said excellent respectively to the theory teaching in the class and a very negligible number of students claimed to be poor. It means the attitude of the students is highly satisfied towards the theory taught in the class for different courses.

The *mean* score between the male and female students (table 5.9) is 3.33 and 3.31 respectively, which shows that between the north and south district students, north district students are slightly more satisfied with regards to theory taught in the class as compared to south district students.

In case of 't' test analyses, the F ratio for Levene's test for equality of variance (table 5.10) is not significant (0.162) and the P value is 0.688 which more than 0.05. The 't' value is 0.191 and its corresponding p value is 0.848 which is more than 0.05 at 5% level of significance. This means that there is no significant difference in the attitude of the students from two different districts towards theory taught in the class for the various trades.

5.5.2.10 Practical training in the institutions

It is observed that majority students (table 5.8) from north and south districts i.e. 61.8% and 57.7% claimed to be excellent while 32.0% and 33.6% said good with regards to practical training. It means majority of the students from north and south districts are highly satisfied with the practical training offered by the various institutions.

The *Mean* score between the north and south district students (table 5.9) is 3.54 and 3.47 respectively, which indicates that in-between the north and south district students, north district students are more satisfied than south district students towards practical training provided in the various institutions.

The F ratio for Levene's test for equality of variance (table 5.10) is not significant (1.254) and the P value is 0.263 which is more than 0.05 at 5% level of significance. In this case the 't' value is 1.082 and its corresponding P value is 0.280 which is higher than 0.05. This means that there is no significant difference between the attitude of the students of two different districts towards practical training provided by the institutions for various trades.

5.5.2.11 Syllabus framed for the course

Table 5.8 shows that majority of north and south district students i.e. 59.6% and 64.6% said as good while 19.9% and 24.5% claimed as excellent whereby very few students opined to be poor. It means majority of the respondents are satisfied towards syllabus framed for the course by the concern authority.

The *Mean* score between north and south district students (table 5.9) is 2.97 and 3.14 respectively. It means that south district students are at the more satisfied than north district students with respect to syllabus framed by the authority and taught in the institutions.

The Levene's test for equality of variance (table 5.10) is not significant (0.710) where the P>0.05 at 5% level of significance. The 't' value is -2.589 and its corresponding p value is 0.010 which is significant at 5% level of significance. It means that there exists a significant difference between the attitudes of north and south district students towards syllabus framed by the authority and taught in the institutions.

5.5.2.12 Curriculum of the course

Table 5.8 shows the appropriateness of the curriculum of the different courses. The majority of north and south district students i.e. 62.4% and 69.9% said good while 25.0% and 19.2% claimed excellent respectively. It means that majority of the students from two different districts are satisfied with respect to curriculum framed by the authority for the course.

The *Mean* score between north and south district students (table 5.9) is 3.11 and 3.08 respectively which means that north district students are slightly more satisfied with the curriculum followed by the institutions rather than south district students.

The F ratio for Levene's test of equality of variance (table 5.10) is significant (4.184) and the p value is 0.041 which is higher than 0.05 at 5 % level of significance. Therefore we assume equal variances not assumed for analysis. The t value is 0.455 and its corresponding p value is 0.649 which is more than 0.05. It indicates that there is no significant difference between the attitude of students from two different districts towards curriculum followed by the intuitions during academic years.

To sum up the attitude of ongoing students on the basis of district, the data was analyzed with the help of t-test for equality of means is no significant difference in case of 9 variables where (Sig. (2-tailed) p value is more than 0.05 at 5% level of significance and significantly different in case of only 3 attributes. The statements which are not significant are Class rooms, Equipments of Teaching aids, Infrastructure facilities, Ontraining/ internship, Latest tools and equipments, Instructors for internship/training, Theory teaching in the class, Practical training in the institutions and Curriculum of the course. A significant difference was noticed in the 3 variables in which the p value is less than 0.05 at 5% level of significance. The **Mean** score between North and South district ongoing students shows that there exists no significant difference in most of the attributes (9) except in case of 3 attributes a significant difference was found in between North and South district. The statements of significant difference were library facilities, Trainers/faculties of the courses and Syllabus framed for the course i.e. 2.43 and 2.70, 3.46 and 3.30, 2.97 and 3.14 between north and south districts respectively. The students from North are more satisfied than the students from Soth district with most of the attribute tested. So, whether the students are from North or South district they are satisfied and shows no much difference between the two groups in their attitudes for most of the variables tested, thus the null hypothesis is accepted.

5.5.3 Taluka

The total population of students collected was 503 which is classified and organized according to the respective talukas. The students were further divided into 12 different talukas, they are from Pernem (92 student), Bardez (106 students), Tiswadi (94 students), Bicholim 10 students), Sattari (10 students), Ponda (40 students), Salcete (65 students), Quepem (6 students), Mormugao (61 students), Sanguem (12 students), Dharbandora (1 student) and Cancona (6 students). In order to find out the validity of the statements and the attitude of the students towards facilities available and curriculum framed, the data was arranged and tested with the help of statistical tools such as Percentage, Mean and One way ANOVA. Table **4.11** gives the Frequencies along with Percentages and Table **4.12** gives the One way ANOVA values which are shown below;

H03: There is no significant difference in the attitude of On-going students from different Talukas towards facilities available and curriculum in the State of Goa.

Table 5.11: Table showing frequencies on attitude of ongoing students (Talukas)

Statements	Scale	Pe	ernem	В	Bardez	Ti	swadi	Bio	cholim	S	attari	Р	onda
		Ν	%	Ν	%	Ν	%	Ν	%	Ν	%	N	%
	Poor	6	6.5%	2	1.9%	1	1.1%	0	0.0%	0	0.0%	5	12.8%
Class rooms	Satisfactory	37	40.2%	20	18.9%	14	15.1%	0	0.0%	2	22.2%	5	12.8%
Class footis	Good	37	40.2%	55	51.9%	46	49.5%	7	70.0%	6	66.7%	15	38.5%
	Excellent	12	13.0%	29	27.4%	32	34.4%	3	30.0%	1	11.1%	14	35.9%
	Poor	35	38.9%	16	15.8%	22	24.4%	5	50.0%	6	60.0%	8	20.5%
Library facility	Satisfactory	26	28.9%	29	28.7%	16	17.8%	2	20.0%	2	20.0%	7	17.9%
Library facility	Good	20	22.2%	32	31.7%	28	31.1%	3	30.0%	2	20.0%	12	30.8%
	Excellent	9	10.0%	24	23.8%	24	26.7%	0	0.0%	0	0.0%	12	30.8%
	Poor	5	5.5%	1	1.0%	4	4.3%	1	10.0%	1	10.0%	6	16.2%
Equipments of teaching	Satisfactory	19	20.9%	14	13.5%	14	15.2%	2	20.0%	4	40.0%	6	16.2%
aids	Good	38	41.8%	52	50.0%	33	35.9%	4	40.0%	5	50.0%	12	32.4%
	Excellent	29	31.9%	37	35.6%	41	44.6%	3	30.0%	0	0.0%	13	35.1%
	Poor	5	5.4%	13	12.4%	1	1.1%	0	0.0%	0	0.0%	5	12.8%
Infrastructure facilities	Satisfactory	8	8.7%	23	21.9%	21	23.1%	0	0.0%	0	0.0%	2	5.1%
illiastiucture facilities	Good	54	58.7%	43	41.0%	45	49.5%	7	70.0%	9	90.0%	13	33.3%
	Excellent	25	27.2%	26	24.8%	24	26.4%	3	30.0%	1	10.0%	19	48.7%
	Poor	28	31.5%	3	3.0%	0	0.0%	0	0.0%	0	0.0%	8	21.1%
On-the job training/	Satisfactory	12	13.5%	15	15.0%	14	15.1%	1	11.1%	3	50.0%	13	34.2%
internship	Good	37	41.6%	57	57.0%	50	53.8%	5	55.6%	3	50.0%	12	31.6%
	Excellent	12	13.5%	25	25.0%	29	31.2%	3	33.3%	0	0.0%	5	13.2%
	Poor	17	18.5%	16	15.5%	3	3.2%	1	10.0%	4	40.0%	6	15.4%
Latest tools and	Satisfactory	7	7.6%	10	9.7%	25	26.9%	1	10.0%	1	10.0%	7	17.9%
equipments.	Good	49	53.3%	38	36.9%	49	52.7%	3	30.0%	5	50.0%	20	51.3%
	Excellent	19	20.7%	39	37.9%	16	17.2%	5	50.0%	0	0.0%	6	15.4%
	Poor	2	2.2%	1	0.9%	0	0.0%	0	0.0%	0	0.0%	2	5.1%
Trainers/ Faculties of the	Satisfactory	1	1.1%	8	7.5%	5	5.4%	0	0.0%	0	0.0%	7	17.9%
Course	Good	42	45.7%	47	44.3%	28	30.1%	3	30.0%	5	50.0%	13	33.3%
	Excellent	47	51.1%	50	47.2%	60	64.5%	7	70.0%	5	50.0%	17	43.6%
Instructors for	Poor	28	31.5%	2	2.0%	0	0.0%	0	0.0%	0	0.0%	8	21.1%
internship/training	Satisfactory	7	7.9%	12	12.0%	8	8.6%	0	0.0%	3	50.0%	4	10.5%
places	Good	41	46.1%	58	58.0%	45	48.4%	5	55.6%	3	50.0%	14	36.8%
piaces	Excellent	13	14.6%	28	28.0%	40	43.0%	4	44.4%	0	0.0%	12	31.6%
	Poor	1	1.1%	0	0.0%	2	2.2%	0	0.0%	0	0.0%	3	7.7%
Theory teaching in the	Satisfactory	5	5.5%	10	9.4%	3	3.3%	0	0.0%	0	0.0%	5	12.8%
class	Good	46	50.5%	44	41.5%	42	45.7%	8	80.0%	9	90.0%	21	53.8%
	Excellent	39	42.9%	52	49.1%	45	48.9%	2	20.0%	1	10.0%	10	25.6%
	Poor	3	3.3%	2	1.9%	0	0.0%	0	0.0%	0	0.0%	1	2.6%
Practical training in the	Satisfactory	5	5.4%	4	3.8%	6	6.5%	0	0.0%	0	0.0%	1	2.6%
institutions	Good	24	26.1%	32	30.2%	28	30.1%	6	60.0%	6	60.0%	17	43.6%
	Excellent	60	65.2%	68	64.2%	59	63.4%	4	40.0%	4	40.0%	20	51.3%
	Poor	0	0.0%	2	2.0%	1	1.1%	0	0.0%	0	0.0%	5	12.8%
Syllabus framed for the	Satisfactory	5	5.6%	25	24.5%	19	21.1%	1	11.1%	1	10.0%	9	23.1%
course	Good	77	86.5%	50	49.0%	44	48.9%	6	66.7%	9	90.0%	18	46.2%
	Excellent	7	7.9%	25	24.5%	26	28.9%	2	22.2%	0	0.0%	7	17.9%
	Poor	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	13.2%
Curriculum of the course	Satisfactory	6	6.8%	14	13.9%	10	10.9%	1	10.0%	2	22.2%	5	13.2%
Carricularii di tile codise	Good	65	73.9%	60	59.4%	50	54.3%	7	70.0%	7	77.8%	21	55.3%
	Excellent	17	19.3%	27	26.7%	32	34.8%	2	20.0%	0	0.0%	7	18.4%

Contd.....

Statement	Scale	Sa	alcete	Q	uepem	Mo	rmugao	Sa	nguem	Dha	arbandora	С	anacona	Т	otal
		N	%	N	%		%	N	%	N	%	N	%	N	%
	Poor	1	1.5%	0	0.0%	1	1.6%	0	0.0%	0	0.0%	0	0.0%	16	3.2%
Class vasses	Satisfactory	12	18.5%	2	33.3%	8	13.1%	1	8.3%	0	0.0%	1	16.7%	102	20.4%
Class rooms	Good	27	41.5%	3	50.0%	43	70.5%	9	75.0%	1	100.0%	4	66.7%	253	50.6%
	Excellent	25	38.5%	1	16.7%	9	14.8%	2	16.7%	0	0.0%	1	16.7%	129	25.8%
	Poor	0	0.0%	1	16.7%	5	8.8%	1	8.3%	0	0.0%	0	0.0%	99	20.4%
l ilanam (fa ailite)	Satisfactory	21	32.3%	2	33.3%	17	29.8%	1	8.3%	0	0.0%	3	60.0%	126	25.9%
Library facility	Good	31	47.7%	2	33.3%	33	57.9%	10	83.3%	1	100.0%	2	40.0%	176	36.2%
	Excellent	13	20.0%	1	16.7%	2	3.5%	0	0.0%	0	0.0%	0	0.0%	85	17.5%
	Poor	0	0.0%	0	0.0%	1	2.3%	1	8.3%	0	0.0%	0	0.0%	20	4.2%
Equipments of	Satisfactory	9	13.6%	1	16.7%	7	15.9%	1	8.3%	0	0.0%	2	33.3%	79	16.5%
teaching aids	Good	36	54.5%	4	66.7%	16	36.4%	10	83.3%	1	100.0%	3	50.0%	214	44.7%
	Excellent	21	31.8%	1	16.7%	20	45.5%	0	0.0%	0	0.0%	1	16.7%	166	34.7%
	Poor	2	3.1%	0	0.0%	5	8.2%	0	0.0%	0	0.0%	0	0.0%	31	6.2%
Infrastructure	Satisfactory	13	20.0%	2	33.3%	6	9.8%	0	0.0%	1	100.0%	1	16.7%	77	15.5%
facilities	Good	30	46.2%	3	50.0%	42	68.9%	12	100.0%	0	0.0%	4	66.7%	262	52.6%
	Excellent	20	30.8%	1	16.7%	8	13.1%	0	0.0%	0	0.0%	1	16.7%	128	25.7%
	Poor	1	1.6%	0	0.0%	1	1.7%	3	27.3%	1	100.0%	0	0.0%	45	9.4%
On-the job	Satisfactory	11	18.0%	4	66.7%	6	10.0%	5	45.5%	0	0.0%	2	33.3%	86	17.9%
training/	Good	40	65.6%	1	16.7%	44	73.3%	3	27.3%	0	0.0%	4	66.7%	256	53.3%
internship	Excellent	9	14.8%	1	16.7%	9	15.0%	0	0.0%	0	0.0%	0	0.0%	93	19.4%
	Poor	4	6.2%	1	16.7%	5	8.2%	1	9.1%	0	0.0%	1	16.7%	59	11.9%
Latest tools	Satisfactory	15	23.1%	0	0.0%	4	6.6%	0	0.0%	0	0.0%	3	50.0%	73	14.7%
and	Good	29	44.6%	4	66.7%	26	42.6%	9	81.8%	1	100.0%	2	33.3%	235	47.3%
equipments	Excellent	17	26.2%	1	16.7%	26	42.6%	1	9.1%	0	0.0%	0	0.0%	130	26.2%
	Poor	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	1.0%
Trainers/	Satisfactory	8	12.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	29	5.8%
Faculties of	Good	33	50.0%	4	66.7%	38	62.3%	10	83.3%	1	100.0%	4	66.7%	228	45.4%
the Course	Excellent	25	37.9%	2	33.3%	23	37.7%	2	16.7%	0	0.0%	2	33.3%	240	47.8%
	Poor	1	1.6%	0	0.0%	1	1.7%	2	18.2%	1	100.0%	0	0.0%	43	9.0%
Instructors for	Satisfactory	11	18.0%	0	0.0%	6	10.0%	1	9.1%	0	0.0%	2	33.3%	54	11.2%
internship/trai	Good	39	63.9%	5	83.3%	39	65.0%	7	63.6%	0	0.0%	2	33.3%	258	53.8%
ning places	Excellent	10	16.4%	1	16.7%	14	23.3%	1	9.1%	0	0.0%	2	33.3%	125	26.0%
	Poor	3	4.5%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	9	1.8%
Theory	Satisfactory	9	13.6%	0	0.0%	3	4.9%	0	0.0%	0	0.0%	0	0.0%	35	7.0%
teaching in the	Good	30	45.5%	3	50.0%	29	47.5%	5	41.7%	0	0.0%	_	100.0%	243	48.6%
class	Excellent	24	36.4%	3	50.0%	29	47.5%	7	58.3%	1	100.0%	0	0.0%	213	42.6%
	Poor	2	3.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	8	1.6%
Practical	Satisfactory	7	10.6%	0	0.0%	4	6.6%	0	0.0%	0	0.0%	0	0.0%	27	5.4%
training in the	Good	20	30.3%	3	50.0%	10	16.4%	10	83.3%	1	100.0%	_	100.0%	163	32.5%
institutions	Excellent	37	56.1%	3	50.0%	47	77.0%	2	16.7%	0	0.0%	0	0.0%	304	60.6%
	Poor	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	100.0%	0	0.0%	9	1.8%
Syllabus	Satisfactory	10	15.4%	2	33.3%	4	6.6%	1	9.1%	0	0.0%	0	0.0%	77	15.7%
framed for the	Good	43	66.2%	4	66.7%	34	55.7%	9	81.8%	0	0.0%	5	83.3%	299	61.1%
course	Excellent	12	18.5%	0	0.0%	23	37.7%	1	9.1%	0	0.0%	1	16.7%	104	21.3%
	Poor	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	1.0%
Curriculum of	Satisfactory	10	15.9%	0	0.0%	4	6.6%	2	18.2%	0	0.0%	0	0.0%	54	11.1%
the course	Good	34	54.0%	6	100.0%	49	80.3%	9	81.8%	0	0.0%	_	100.0%	314	64.6%
	Excellent	19	30.2%	0	0.0%	8	13.1%	0	0.0%	1	100.0%	0	0.0%	113	23.3%
	- VOCHELII	10	JU.Z /0	U	0.070	U	10.170	U	0.070		100.070	J	0.070	110	20.0/0

Table 5.12: Table showing ANOVA-values on attitude of ongoing students (Talukas)

Statements		Sum of Squares	Df	Mean Square	F	Sig.
	Between Groups	20.544	11	1.868	3.310	.000
Class rooms	Within Groups	275.384	488	.564		
	Total	295.928	499			
	Between Groups	46.416	11	4.220	4.514	.000
Library facility	Within Groups	443.065	474	.935		
	Total	489.481	485			
	Between Groups	14.343	11	1.304	1.966	.030
Equipments of teaching aids	Within Groups	310.438	468	.663		
	Total	324.781	479			
	Between Groups	9.770	11	.888	1.349	.194
Infrastructure facilities	Within Groups	320.029	486	.658		
	Total	329.799	497			
	Between Groups	18.320	11	1.665	11.382	.000
On-the job training/ internship	Within Groups	71.843	491	.146		
	Total	90.163	502			
	Between Groups	20.570	11	1.870	1.839	.045
Latest tools and equipments.	Within Groups	493.233	485	1.017		
• •	Total	513.803	496			
T: / F 1/2 6 d	Between Groups	9.545	11	.868	1.933	.033
Trainers/ Faculties of the	Within Groups	219.921	490	.449		
Course	Total	229.466	501			
T	Between Groups	55.398	11	5.036	7.883	.000
Instructors for	Within Groups	299.000	468	.639		
internship/training places	Total	354.398	479			
	Between Groups	11.905	11	1.082	2.387	.007
Theory teaching in the class	Within Groups	221.253	488	.453		
Theory teaching in the class	Total	233.158	499			
5	Between Groups	7.515	11	.683	1.523	.119
Practical training in the	Within Groups	219.786	490	.449		
institutions	Total	227.301	501		İ	
	Between Groups	14.751	11	1.341	3.165	000
Syllabus framed for the course	Within Groups	202.083	477	.424		
-	Total	216.834	488		İ	
	Between Groups	8.680	11	.789	2.148	.016
Curriculum of the course	Within Groups	174.176	474	.367		
	Total	182.856	485			

5.5.3.1 Class rooms

The majority of ongoing students from different talukas (table 5.11) commented that class room are good i.e. Pernem (40.2%), Bardez (51.9%), Tiswadi (49.5%), Bicholim (70.0%), Sattari (66.7%), Ponda (38.5%), Salcete (41.5%), Quepem (50.0%), Mormugao (70.5%), Sanguem (75.0%), Dharbandora (100%) and Canacona (66.7%) whereas good number of students claimed to be excellent and negligible students said as poor. It means that most of the student's attitude from different talukas is satisfied with the class rooms facility provided by the institutions.

According to ANOVA table 5.12, the F value is 3.310 and the corresponding p value of significance is 0.000, which is less than 0.05 at 5% level of significance which means that there is a significant difference between the different talukas with reference to the condition of class rooms provided by the institutions. Thus overall result shows that students from different talukas are satisfied and highly satisfied with the prevailing condition of class rooms provided by the institutions for different courses.

5.5.3.2 Library facility

The majority of the ongoing students of different talukas (table 5.11) i.e. Pernem (38.9%), Bicholim (50.0%), Sattari (60.0%) and Canacona (60.0%) said to be poor, whereas Bardez (31.7%), Tiswadi (31.1%), Ponda (30.8%), Salcete (47.7%), Quepem (33.3%), Mormugao (57.9%), Sanguem (83.3%), Dharbandora (100%) said as excellent for the library facility. It means the students from different talukas are satisfied as well as unsatisfied with respect to the library facilities offered by the various institutions.

According to ANOVA table 5.12, the F value is 4.514 and the corresponding p value of significance is 0.000, which is less than 0.05 at 5% level of significance which means that there is a significant difference between the different talukas with regards to the attitude of students with the library facilities offered by the institutions. Therefore, we can say that the attitude of the students from different talukas towards library facilities provided by the institutions is significantly different.

5.5.3.3 Equipments of teaching aids.

Table 5.11 shows that majority of ongoing students from different talukas i.e. 41.8% of Pernem, 50.0% of Bardez, 40.0% of Bicholim, 50.0% of Sattari, 54.5% of Salcete, 66.7% of Quepem, 83.3% of Sanguem, 100% of Dharbandora and 50.0% of Canacona said good while 44.6% of Tiswadi and 45.5% of Mormugao claimed to be excellent towards facility of teaching equipments. It means that majority of the students from different talukas are fully satisfied with facilities of equipments of teaching aids available in the institutions and used for teaching in the class.

The ANOVA table 5.12 shows that the F value is 1.966 and the corresponding p value of significance is 0.030, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the students from different talukas with the availability of teaching equipments in the institutions. The result indicates that students are satisfied as well as highly satisfied.

5.5.3.4 Infrastructure facilities.

Table 5.11 reveals that majority of students from different talukas with respect to infrastructure facilities are good i.e. Pernem (58.7%), Bardez (41.0%), Tiswadi (49.5%), Bicholim (70.0%), Sattari (90.0%), Salcete (46.2%), Quepem (50.0%), Mormugao (68.9%), Sanguem (100.0%), and Canacona (66.7%) whereas students from Ponda (48.7%) and Dharbandora (100%) commented to be excellent and poor. It means

majority of the respondents from all different talukas are satisfied and highly satisfied except students from one taluka i.e. Dharbandora are dissatisfied.

According to ANOVA table 5.12, the F value is 1.349 and its corresponding value of significance is 0.194, which is higher than 0.05 at 5% level of significance, which means that the attitude of students from taluka wise is not significantly different with respect to infrastructure facilities available in the institutions.

5.5.3.5 On-the job training/internship.

Table 5.11 shows that of students from different talukas i.e. 41.6% of Pernem, 57.0% of Bardez, 53.8% of Tiswadi, 55.6% of Bicholim, 50.0% of Sattari, 65.6% of Salcete, 73.3% of Mormugao, and 66.7% of Canacona said good while 34.2% of Ponda, 66.7% of Quepem and 45.5% of Sanguem claimed to be satisfied whereas 100% of Dharbandora commented as poor for on-the job training and internship. It means that majority of the students of different talukas are satisfied except students of Dharbandora taluka are not satisfied with on-the job training and internship provided in the industries.

The ANOVA table 5.12 shows that the F value is 11.382 and the corresponding p value of significance is 0.000, which is lower than 0.05 at 5% level of significance. It means that there is a high significant difference between the students from different talukas with respect to on-the job training/internship.

5.5.3.6 Latest tools and equipments.

The table 5.11 indicates that majority of students from different talukas with respect to latest tools and equipment is good i.e. Pernem (53.3%), Tiswadi (52.7%), Sattari (50.0%), Ponda (51.3%), Salcete (44.6%), Quepem (66.7%), Mormugao (42.6%), Sanguem (81.8.0%), and Dharbandora (100%) whereas students from Bardez (37.9%) and Bicholim (50.0%) said excellent while students from Canacona (50.0%) were satisfied. It shows that the attitude of students from various talukas is satisfied.

According to ANOVA table 5.12, the F value is 1.839 and its corresponding value of is 0.045, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of the students from different talukas towards facilities available to use latest tools and equipments. Students from canacona taluka are not impressed with the tools allowed to use during training in the institutions. It shows canancona taluka students are still deprived of using latest tools and equipments.

5.5.3.7 Trainers/Faculties of the course

Table 5.11 shows the overall attitude of students from different taluka towards trainers/faculties of the course i.e. 51.1% of Pernem, 47.2% of Bardez, 64.5% of Tiswadi, 70.0% of Bicholim, 50.0% of Sattari, 43.6% of Ponda, 50.0% of Salcete, 66.7% of Quepem, 62.3% of Mormugao, 83.3% of Sanguem, 100% 0f Dharbandora and 66.7% of Canacona said as good. It means attitude of most of the students from different talukas reveals that students are satisfied with trainers/faculties teaching in the various institutions.

The ANOVA table 5.12 shows that the F value is 1.933 and the corresponding p value of significance is 0.033, which is smaller than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of students from different talukas with respect to teachers/faculties teaching in the institutions.

5.5.3.8 Instructors for internship/training

Table 5.11 shows the attitude of most of the students from different talukas with respect to instructor for internship at training places is good i.e. Pernem (46.1%), Bardez (58.0%), Tiswadi (48.4%), Bicholim (55.6%), Sattari (50.0%), Ponda (36.8%), Salcete (63.9%), Quepem (83.3%), Mormugao (65.0%), Sanguem (63.6%), and Cancona (33.3) whereas students from Dharbandora (100%) claimed instructors for internship is poor. It means that students of different talukas are satisfied with respect to instructors for internship except Dharbandora students.

According to ANOVA table 5.12, the F value is 7.883 and the corresponding p value is 0.000, which is less than 0.05 at 5% level of significance. Thus it can be concluded that there is a significant difference between the group of students from different talukas with respect to instructors for internship and at training places.

5.5.3.9 Theory teaching in the class.

The attitude of the students from different talukas (table 5.11) towards theory teaching in the class said good i.e. Pernem (50.5%), Bardez (41.5%), Tiswadi (45.7%), Bicholim (80.0%), Sattari (90.0%), Ponda (53.8%), Salcete (45.5%), Quepem (50.0%), Mormugao (47.5%), and Canacona (100%) whereas students from Sanguem (58.3%) and Dharbandora (100%) said excellent. It means that the attitude of the students with respect to theory teaching of different talukas is satisfied.

The ANOVA table 5.12 shows that the F value is 2.378 and the corresponding p value of significance is 0.007, which is lower than 0.05 at 5% level of significance. It means that there is a significant difference in the attitude of the students from different talukas towards theory taught in the class for the various trades for different streams.

5.5.3.10 Practical training in the institutions

It is observed that majority students (table 5.11) from different talukas i.e. Pernem (65.2%), Bardez (64.2%), Tiswadi (63.4%), Salcete (56.1%), Quepem (50.0%), Mormugao (77.0%) calimed to be excellent whereas Bicholim (60.0%), Sattari (60.0%), Ponda (43.6%), Sanguem (83.3%), Dharbandora (100%) and Canacona (100%) said good with regards to practical training. It means majority of the students from different talukas are highly satisfied with the practical training provided by the institutions for different streams.

According to ANOVA table 5.12, the F value is 1.523 and the corresponding p value is 0.119, which is more than 0.05 at 5% level of significance. It is thus can be concluded that there is no significant difference between attitude of the students of different talukas with respect to practical training provided by the institutions.

5.5.3.11 Syllabus framed for the course

Table 5.11 shows that majority of the students from different talukas i.e. 86.5% of Pernem, 49.0% of Bardez, 48.9% of Tiswadi, 66.7% of Bicholim, 90.0% of Sattari, 46.2% of Ponda, 66.2% of Salcete, 66.7% of Quepem, 55.7% of Mormugao, 81.8% of Sanguem, and 83.3% of Canacona claimed as excellent whereby students from Dharbandora (100%) opined to be poor. It means majority of the respondents from different talukas are satisfied with respect to syllabus framed for the course by the concern authority.

According to ANOVA table 5.12, the F value is 3.165 and the corresponding p value is 0.000, which is less than 0.05 at 5% level of significance. Thus it can be concluded that there exists a significant difference between the attitude of the students towards syllabus framed by the concern authority.

5.5.3.12 Curriculum of the course

Table 5.11 shows whether curriculum for the different courses whereby majority of students i.e. 73.9% of Pernem, 59.4% of Bardez, 54.3% of Tiswadi, 70.0% of Bicholim, 77.8% of Sattari, 55.3% of Ponda, 54.0% of Salcete, 100% of Quepem, 80.3% of Mormugao, 81.8% of Sanguem, and 100% of Canacona claimed as good whereby students from Dharbandora (100%) as excellent. It means that majority of the students from different talukas are satisfied with regards to curriculum framed by the authority for the course.

According to ANOVA Table, the F value is 2.148 and the corresponding p value is 0.016, which is lower than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of students from different talukas towards curriculum followed by the various intuitions for the academic years.

To sum up the attitude of ongoing students on the basis of talukas, the data was analyzed with the help of **One way ANOVA** Table which shows that p value is less than 0.05 at 5% level of significance for most of the attributes tested above except in two variables i.e. Infrastructure facilities and Practical training in the institutions. These two statements shows there is no significant difference in attitude of the ongoing students from different taluka where the P value is more than 0.05 i.e. (0.194) and (0.119) respectively. It means that there exists a significant a difference between the attitude of ongoing students from different talukas with respect to most of the attributes tested above. The **mean** values of different talukas indicates that ongoing students are satisfied with most of the statement such as classrooms in the institutes, library facility available in the institutions, teaching aids, facility available for 'on the job training', opportunity for using latest tools, faculty, instructors for internship, theory taught in the institutions, syllabus farmed by the concerned authority and overall curriculum framed by the authority. So the attitude of most of the students from different talukas shows that there is difference between the groups for most of the variables tested as per one way ANOVA test and students have expressed satisfaction for the various statements checked above, thus the null hypothesis is rejected.

5.5.4 Stream

The collected data from ongoing students was analyzed on the basis of streams. The total 503 ongoing students were divided into 10 streams namely HS (45 students), HSSC (125 students), UNID (35 students), ITI (130 students), HRDFS (56 styudents), EDP (12 trainees), GHRSDC (21 trainees), TrCPC (21 trainees), APPRT (28 trainees) and OITSG (30 trainees). **Table 4.13** gives the **Frequencies** along with Percentages. **Table 4.14** gives the **One-way ANOVA** values.

H04: There is no significant difference in attitude of On-going students from different streams towards facilities available and curriculum in the state of Goa. Table 5.13: Table showing frequencies on attitude of ongoing students (Streams)

			HS	F	ISSC	Ī	JNID		ITI	Н	RDFS
		N	%	N	%	N	%	N	%	N	%
	Poor	1	2.2%	5	4.0%	0	0.0%	4	3.1%	0	0.0%
	Satisfactory	20	44.4%	18	14.4%	18	51.4%	13	10.1%	10	17.9%
Class rooms	Good	20	44.4%	65	52.0%	17	48.6%	84	65.1%	19	33.9%
	Excellent	4	8.9%	37	29.6%	0	0.0%	28	21.7%	27	48.2%
	Poor	2	4.5%	2	1.6%	0	0.0%	42	32.8%	13	24.1%
1.9	Satisfactory	15	34.1%	17	13.9%	6	17.1%	38	29.7%	3	5.6%
Library facility	Good	25	56.8%	59	48.4%	27	77.1%	41	32.0%	12	22.2%
	Excellent	2	4.5%	44	36.1%	2	5.7%	7	5.5%	26	48.1%
	Poor	1	3.4%	2	1.6%	0	0.0%	1	0.8%	0	0.0%
Equipments of	Satisfactory	6	20.7%	18	14.8%	9	25.7%	18	14.1%	5	9.1%
teaching aids	Good	2	6.9%	49	40.2%	25	71.4%	66	51.6%	19	34.5%
	Excellent	20	69.0%	53	43.4%	1	2.9%	43	33.6%	31	56.4%
	Poor	5	11.1%	9	7.3%	1	2.9%	9	7.0%	1	1.8%
Infrastructure	Satisfactory	0	0.0%	23	18.7%	19	54.3%	18	14.0%	3	5.4%
facilities	Good	23	51.1%	47	38.2%	14	40.0%	86	66.7%	24	42.9%
	Excellent	17	37.8%	44	35.8%	1	2.9%	16	12.4%	28	50.0%
	Poor	23	51.1%	7	5.7%	3	8.8%	2	1.6%	0	0.0%
On the job training/	Satisfactory	1	2.2%	23	18.9%	10	29.4%	12	9.7%	4	7.8%
internship	Good	21	46.7%	75	61.5%	21	61.8%	67	54.0%	21	41.2%
	Excellent	0	0.0%	17	13.9%	0	0.0%	43	34.7%	26	51.0%
	Poor	5	11.1%	19	15.6%	4	11.4%	12	9.4%	0	0.0%
Latest tools and	Satisfactory	0	0.0%	10	8.2%	9	25.7%	17	13.3%	6	10.7%
equipments.	Good	35	77.8%	63	51.6%	16	45.7%	47	36.7%	32	57.1%
	Excellent	5	11.1%	30	24.6%	6	17.1%	52	40.6%	18	32.1%
	Poor	0	0.0%	4	3.2%	1	2.9%	0	0.0%	0	0.0%
Trainers/ Faculties	Satisfactory	0	0.0%	18	14.4%	6	17.1%	4	3.1%	0	0.0%
of the Course	Good	17	37.8%	51	40.8%	26	74.3%	58	44.6%	22	39.3%
	Excellent	28	62.2%	52	41.6%	2	5.7%	68	52.3%	34	60.7%
Instructors for	Poor	23	51.1%	5	4.1%	3	8.8%	2	1.6%	0	0.0%
internship/training	Satisfactory	1	2.2%	11	9.0%	10	29.4%	8	6.5%	1	2.0%
places	Good	21	46.7%	81	66.4%	21	61.8%	71	57.3%	17	33.3%
Piacoc	Excellent	0	0.0%	25	20.5%	0	0.0%	43	34.7%	33	64.7%
	Poor	0	0.0%	4	3.2%	2	5.7%	1	0.8%	1	1.8%
Theory teaching in	Satisfactory	0	0.0%	8	6.5%	13	37.1%	5	3.9%	0	0.0%
the class	Good	19	42.2%	55	44.4%	20	57.1%	42	32.6%	20	35.7%
	Excellent	26	57.8%	57	46.0%	0	0.0%	81	62.8%	35	62.5%
	Poor	0	0.0%	4	3.2%	3	8.6%	1	0.8%	0	0.0%
Practical training in	Satisfactory	1	2.2%	8	6.4%	13	37.1%	3	2.3%	0	0.0%
the institutions	Good	4	8.9%	39	31.2%	17	48.6%	29	22.3%	9	16.1%
	Excellent	40	88.9%	74	59.2%	2	5.7%	97	74.6%	47	83.9%
	Poor	0	0.0%	1	0.8%	2	5.7%	1	0.8%	0	0.0%
Syllabus framed for	Satisfactory	0	0.0%	28	23.3%	18	51.4%	7	5.7%	0	0.0%
the course	Good	41	91.1%	61	50.8%	15	42.9%	82	66.7%	27	49.1%
	Excellent	4	8.9%	30	25.0%	0	0.0%	33	26.8%	28	50.9%
Occumulation of the	Poor	0	0.0%	1	0.8%	0	0.0%	0	0.0%	0	0.0%
Curriculum of the	Satisfactory	0	0.0%	16	13.2%	15	42.9%	9	7.6%	1	1.8%
course	Good	43	95.6%	74	61.2%	20	57.1%	68	57.1%	22	39.3%
	Excellent	2	4.4%	30	24.8%	0	0.0%	42	35.3%	33	58.9%

Contd.....

Statement	Scale]	EDP	GI	IRSDC	Т	rCPC	A	PPRT	0	ITSG	TC)TAL
		N	%	N	%	N	%	N	%	N	%	N	%
	Poor	0	0.0%	0	0.0%	5	23.8%	0	0.0%	1	3.4%	16	3.2%
01	Satisfactory	0	0.0%	3	14.3%	2	9.5%	16	59.3%	2	6.9%	102	20.4%
Class rooms	Good	2	16.7%	11	52.4%	10	47.6%	8	29.6%	17	58.6%	253	50.6%
	Excellent	10	83.3%	7	33.3%	4	19.0%	3	11.1%	9	31.0%	129	25.8%
	Poor	0	0.0%	13	65.0%	13	72.2%	5	18.5%	9	34.6%	99	20.4%
Library facility	Satisfactory	11	91.7%	7	35.0%	3	16.7%	20	74.1%	6	23.1%	126	25.9%
Library facility	Good	1	8.3%	0	0.0%	1	5.6%	0	0.0%	10	38.5%	176	36.2%
	Excellent	0	0.0%	0	0.0%	1	5.6%	2	7.4%	1	3.8%	85	17.5%
	Poor	0	0.0%	7	33.3%	8	38.1%	1	3.7%	0	0.0%	20	4.2%
Equipments of	Satisfactory	0	0.0%	9	42.9%	2	9.5%	9	33.3%	3	10.3%	79	16.5%
teaching aids	Good	11	91.7%	3	14.3%	6	28.6%	15	55.6%	18	62.1%	214	44.7%
	Excellent	1	8.3%	2	9.5%	5	23.8%	2	7.4%	8	27.6%	166	34.7%
	Poor	0	0.0%	1	4.8%	5	23.8%	0	0.0%	0	0.0%	31	6.2%
Infrastructure	Satisfactory	0	0.0%	3	14.3%	4	19.0%	6	23.1%	1	3.3%	77	15.5%
facilities	Good	2	16.7%	13	61.9%	11	52.4%	20	76.9%	22	73.3%	262	52.6%
	Excellent	10	83.3%	4	19.0%	1	4.8%	0	0.0%	7	23.3%	128	25.7%
	Poor	0	0.0%	0	0.0%	10	47.6%	0	0.0%	0	0.0%	45	9.4%
On the job training/	Satisfactory	7	58.3%	7	46.7%	4	19.0%	10	37.0%	8	27.6%	86	17.9%
internship	Good	5	41.7%	8	53.3%	6	28.6%	13	48.1%	19	65.5%	256	53.3%
•	Excellent	0	0.0%	0	0.0%	1	4.8%	4	14.8%	2	6.9%	93	19.4%
	Poor	0	0.0%	11	52.4%	8	38.1%	0	0.0%	0	0.0%	59	11.9%
Latest tools and	Satisfactory	8	72.7%	6	28.6%	9	42.9%	3	10.7%	5	16.7%	73	14.7%
equipments.	Good	3	27.3%	4	19.0%	4	19.0%	19	67.9%	12	40.0%	235	47.3%
	Excellent	0	0.0%	0	0.0%	0	0.0%	6	21.4%	13	43.3%	130	26.2%
	Poor	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	5	1.0%
Trainers/ Faculties	Satisfactory	0	0.0%	0	0.0%	1	4.8%	0	0.0%	0	0.0%	29	5.8%
of the Course	Good	9	75.0%	7	33.3%	6	28.6%	21	77.8%	11	36.7%	228	45.4%
	Excellent	3	25.0%	14	66.7%	14	66.7%	6	22.2%	19	63.3%	240	47.8%
La atau atau a	Poor	0	0.0%	0	0.0%	10	47.6%	0	0.0%	0	0.0%	43	9.0%
Instructors for	Satisfactory	7	58.3%	2	13.3%	2	9.5%	7	25.9%	5	17.2%	54	11.2%
internship/training	Good	4	33.3%	6	40.0%	7	33.3%	16	59.3%	14	48.3%	258	53.8%
places	Excellent	1	8.3%	7	46.7%	2	9.5%	4	14.8%	10	34.5%	125	26.0%
	Poor	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.3%	9	1.8%
Theory teaching in	Satisfactory	0	0.0%	0	0.0%	0	0.0%	7	25.9%	2	6.7%	35	7.0%
the class	Good	10	83.3%	20	95.2%	20	95.2%	17	63.0%	20	66.7%	243	48.6%
	Excellent	2	16.7%	1	4.8%	1	4.8%	3	11.1%	7	23.3%	213	42.6%
	Poor	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	8	1.6%
Practical training in	Satisfactory	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	6.7%	27	5.4%
the institutions	Good	9	75.0%	16	76.2%	10	47.6%	14	51.9%	16	53.3%	163	32.5%
	Excellent	3	25.0%	5	23.8%	11	52.4%	13	48.1%	12	40.0%	304	60.6%
	Poor	0	0.0%	0	0.0%	4	19.0%	0	0.0%	1	3.3%	9	1.8%
Syllabus framed for	Satisfactory	0	0.0%	8	38.1%	6	28.6%	7	25.9%	3	10.0%	77	15.7%
the course	Good	11	91.7%	12	57.1%	11	52.4%	19	70.4%	20	66.7%	299	61.1%
	Excellent	1	8.3%	1	4.8%	0	0.0%	1	3.7%	6	20.0%	104	21.3%
	Poor	0	0.0%	0	0.0%	4	19.0%	0	0.0%	0	0.0%	5	1.0%
Curriculum of the	Satisfactory	0	0.0%	3	14.3%	3	14.3%	3	11.5%	4	13.3%	54	11.1%
course	Good	11	91.7%	17	81.0%	13	61.9%	22	84.6%	24	80.0%	314	64.6%
					4.8%		4.8%			2	6.7%		23.3%

Table 5.14: Table showing ANOVA-values on attitude of ongoing students (Streams)

Statements		Sum of Squares	Df	Mean Square	F	Sig.
	Between Groups	42.660	9	4.740	9.171	.000
Class rooms	Within Groups	253.268	490	.517	9.171	.000
Class foolis	Total	295.928	499	.517		
		154.597	9	17.177	24.416	.000
T 11 £1114	Between Groups				24.410	.000
Library facility	Within Groups Total	334.884	476	.704		
		489.481	485	6 471	11 410	000
Equipments of teaching	Between Groups	58.237	9 470	6.471	11.410	.000
aids	Within Groups	266.544		.567		
	Total	324.781	479	4.020	0.440	
	Between Groups	44.284	9	4.920	8.410	.000
Infrastructure facilities	Within Groups	285.516	488	.585		
	Total	329.799	497			
On the job training/	Between Groups	30.245	9	3.361	27.650	.000
internship	Within Groups	59.918	493	.122		
memomp	Total	90.163	502			
Latest tools and	Between Groups	76.744	9	8.527	9.501	.000
equipments.	Within Groups	437.059	487	.897		
equipments.	Total	513.803	496			
Trainers/ Faculties of the	Between Groups	26.032	9	2.892	6.995	.000
Course	Within Groups	203.434	492	.413		
Course	Total	229.466	501			
Instructors for	Between Groups	113.152	9	12.572	24.494	.000
internship/training places	Within Groups	241.246	470	.513		
internship/training places	Total	354.398	479			
TTI (1: : 4	Between Groups	49.389	9	5.488	14.632	.000
Theory teaching in the class	Within Groups	183.769	490	.375		
Class	Total	233.158	499			
	Between Groups	55.119	9	6.124	17.500	.000
Practical training in the	Within Groups	172.182	492	.350		
institutions	Total	227.301	501			
0.11.1 0 1.0 1	Between Groups	46.073	9	5.119	14.360	.000
Syllabus framed for the	Within Groups	170.762	479	.356	İ	
course	Total	216.834	488		İ	
	Between Groups	35.434	9	3.937	12.712	.000
Curriculum of the course	Within Groups	147.421	476	.310		
	Total	182.856	485			

5.5.4.1 Class rooms

The majority of ongoing students of different streams (table 5.13) commented that class rooms are good i.e. HS (44.4%), HSSC (52.0%), ITI (65.1%), GHRSDC (52.4%), TrCPC (47.6%), and OITSG (58.6%) whereas students from HRDFS (48.2%), EDP (83.3.5%), claimed to be excellent while students from UNID (51.4%) and ApprT (59.3%) claimed as satisfactory and very few students said as poor. It shows that attitude of most of the students from different streams are satisfied but students of HRDFS and EDP are highly satisfied whereas as students from two streams such as UNID and ApprT have low satisfaction with the condition of the class rooms provided by the institutions.

According to ANOVA table 5.14, the F value is 9.171 and the corresponding p value of significance is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the different streams towards attitude of students and the facility of class rooms provided by the institutions. Thus overall result shows that there a difference in the attitude of the students from different streams whereby students

from most of the streams are satisfied whereas students of some streams are highly satisfied but students from some streams shows low satisfaction with the condition of class rooms provided by the institutions for different courses.

5.5.4.2 Library facility

The majority of the ongoing students of different streams (table 5.13) claimed as good i.e. HS (56.8%), HSSC (48.4%), UNID (77.1%) and OITSG (38.5%) whereas students of HRDFS (48.1%) said as excellent while students of EDP (91.7%), ApprT (74.1%), are satisfied and students of rest of streams i.e. ITI (32.8%), GHRSDC (65.0%), TrCPC (72.2%) said poor. It means students from 6 streams are satisfied while students of one stream are highly satisfied but students of 3 steams are unsatisfied with the library facilities offered by the various institutions.

According to *ANOVA* table 5.14, the F value is 24.416 and the corresponding *p* value of significance is 0.000, which is less than 0.05 at 5% level of significance which means that there is a significant difference between the different streams with respect to the attitude of students with the library facilities offered by the institutions. Therefore, we can say that the attitude of the students from different streams towards library facilities provided by the institutions is satisfied but there exist a significant difference between the various streams.

5.5.4.3 Equipments of teaching aids.

Table 5.13 shows that majority of ongoing students from different streams i.e. 69.0% of HS, 43.4% of HSSC and 56.4% of HRDFS claimed to be excellent whereas 71.4% of UNID, 51.6% of ITI, 55.6% of ApprT and 62.1% of OITSG said good while 66.7% of EDP, 42.9% of GHRSDC stated satisfactory and 38.1% of TrCPC as poor. It means that majority of the students of 6 different streams and 3 streams are satisfied and highly satisfied respectively whereas trainees of TrCPC are unsatisfied with the facilities of equipments of teaching aids provided by the institutions for teaching in the class.

The *ANOVA* table 5.14 shows that the F value is 11.410 and the corresponding *p* value of significance is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the students from different streams and the availability of teaching equipments in the institutions. The overall result indicates that students from streams are satisfied while some are highly satisfied and only one stream students are unsatisfied.

5.5.4.4 Infrastructure facilities.

Table 5.13 reveals that majority of students from different streams with respect to infrastructure facilities is good i.e. HS (51.1%), HSSC (38.2%), UNID (40.0%), ITI (66.7%), GHRSDC (61.9%), TrCPC (52.4%), ApprT (76.9%), and OITSG (73.3%) whereas HRDFS (50.0%), EDP (83.3%) commented to be excellent. It means majority of the respondents from all different streams are satisfied as well as some are highly satisfied with the infrastructure facility provided by the institutions.

According to *ANOVA* table 5.14, the *F* value is 8.410 and its corresponding value of significance is 0.000, which is less than 0.05 at 5% level of significance, which means that the attitude of students from streams is significantly different towards infrastructure facilities available in the institutions.

5.5.4.5 On-the job training/internship.

Table 5.13 shows that attitude of the students from different streams i.e. 61.5% of HSSC, 61.8% of UNID, 54.0% of ITI, 53.3% of GHRSDC, 48.1% of ApprT and 65.5% of OITSG claimed as good whereas 51.0% of HRDFS as Excellent, 58.3% of EDP are satisfied while 51.1% of HS and 47.6% of TrCPC said poor with respect to on-the job training and internship. It means that majority of the students of different streams are satisfied except students from HS and TrCPC are unsatisfied with on-the job training and internship provided by the industries.

The ANOVA table 5.14 shows that the F value is 27.650 and the corresponding p value of significance is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a high significant difference between the students from different streams with respect to on-the job training/internship. It shows that HRDFS are highly satisfied while students of HS and TrCPC are dissatisfied.

5.5.4.6 Latest tools and equipments.

The table 5.13 indicates that majority of students from different streams with respect to latest tools and equipment is good i.e. HS (77.8%), HSSC (51.6%), UNID (45.7%), HRDFS (57.1%), ApprT (67.9%) whereas ITI (40.6%) OITSG (43.3%) said excellent while students from EDP and TrCPC (72.7% and 42.9%) respectively were satisfied and GHRSDC (52.4%) claimed poor. It shows that the students from various streams are satisfied with the available facility of latest tools and equipments in the institutions s except student from GHRSDC stream.

According to *ANOVA* table 5.14, the *F* value is 9.501 and its corresponding value of is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of the students from different streams with respect to facilities of latest tools and equipments available in the institutions. A difference is noticed within the different streams where the tudents of GHRSDC have shown dissatisfaction with the tools allowed to use during training in the institutions.

5.5.4.7 Trainers/Faculties of the course

Table 5.13 shows the overall attitude of most of the students from different streams with respect to trainers/faculties is excellent i.e. 62.2% of HS, 41.6% of HSSC, 52.3% of ITI, 60.7% of HRDFS, 66.7% of GHRSDC, 66.7% of TrCPC and 63.3% of OITSG while students from streams like 74.3% of UNID 75.0% of EDP and 77.8% of ApprT claimed as good. It means most of the students from different streams are satisfied towards trainers/faculties teaching in the various institutions.

The *ANOVA* table 5.14 shows that the F value is 6.995 and the corresponding *p* value of significance is 0.000, which is lower than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of students from different streams with respect to teachers/faculties teaching in the institutions. This shows that students from different streams are highly satisfied whereas students from UNID, EDP and ApprT are satisfied.

5.5.4.8 Instructors for internship/training

Table 5.13 shows the attitude of most of the students from different streams with respect to instructor for internship at training places shows good i.e. HS (46.7%), HSSC (66.4%), UNID (61.8%), ITI (57.3%), ApprT (59.3%), and OITSG (48.3%) while HRDFS (64.7%), GHRSDC (46.7%) claimed as excellent whereas EDP (58.3%) and TrCPC (47.6%) disclosed as satisfactory and poor respectively with respect to instructors for internship. It means that most of the students from different streams are satisfied and highly satisfied with respect to instructors for internship except trainees from TrCPC.

According to ANOVA table 5.14, the F value is 24.494 and the corresponding p value is 0.000, which is lower than 0.05 at 5% level of significance. Thus it can be concluded that there is a significant difference between the group of students from different streams. A major difference was found with the students from TrCPC stream where they are not satisfied with the instructor for internship/training.

5.5.4.9 Theory teaching in the class.

The attitude of the students from different streams (table 5.13) towards theory teaching in the class is good i.e. UNID (57.1%), EDP (83.3%), GHRSDC (95.2%), TrCPC (95.2%), ApprT (63.0%), and OITSG (66.7%) whereas students from HS (57.8%), HSSC (46.0%), ITI (62.8%) and HRDFS (62.5%) claimed to be excellent. It means that the attitude of the students with respect to theory teaching of different talukas is satisfied as well as highly satisfied.

The *ANOVA* table 5.14 shows that the F value is 14.632 and the corresponding *p* value of significance is 0.000 which is less than 0.05 at 5% level of significance. It means that there is a significant difference in the attitude of the students from different streams towards theory taught for the various trades in the instituions. A difference is noticed as students from some streams are satisfied whereas some highly satisfied.

5.5.4.10 Practical training in the institutions

It is observed that majority students (table 5.13) from different streams i.e. HS (88.9%), HSSC (59.2%), ITI (74.6%), HRDFS (83.9%), EDP (75.0%), GHRSDC (76.2%), ApprT (51.9%), and OITSG (53.3%) said good whereas students from streams like TrCPC (52.4%) and UNID (48.6%) claimed to be excellent and satisfactory respectively with regards to practical training. It means majority of the students from different streams are highly satisfied with the practical training provided by the institutions for different streams.

According to *ANOVA* table 5.14, the *F* value is 17.500 and the corresponding *p* value is 0.000 which is lower than 0.05 at 5% level of significance. It is can be concluded that there is a significant difference between attitude of the students of different streams with respect to practical training provided by the institutions.

5.5.4.11 Syllabus framed for the course

Table 5.13 shows that majority of the students from different streams i.e. 91.1% of HS, 50.8% of HSSC, 66.7% of ITI, 91.7% of EDP, 57.1% of GHRSDC, 52.4% of TrCPC, 70.4% of ApprT and 66.7% of OITSG claimed as excellent whereby students from HRDFS (50.9%) and UNID (51.4%) opined to be excellent and satisfactory. It shows that attitude of students from different streams are satisfied but students of HRDFS are highly satisfied with the syllabus framed for the course by the concern authority.

According to *ANOVA* table 5.14, the *F* value is 14.360 and the corresponding *p* value is 0.000, which is smaller than 0.05 at 5% level of significance. Thus it can be concluded that there exists a significant difference between the attitudes of the students towards syllabus framed by the concern authority. The difference is found with students of HRDFS who are highly satisfied while other streams are satisfied.

5.5.4.12 Curriculum of the course

Table 5.13 shows the student's attitude for curriculum whereby majority of the students i.e. 95.6% of HS, 61.2% of HSSC, 57.1% of UNID, 57.1% of ITI, 91.7% of EDP, 81.0% of GHRSDC, 61.9% of TrCPC, 84.6% of ApprT and 80.0% of OITSG opines as good while HRDFS (58.9%) said excellent. It means that majority of the students from different streams are satisfied with regards to curriculum framed by the authority for the course while students of HRDFS are highly satisfied.

According to *ANOVA* table 5.14, the *F* value is 12.712 and the corresponding *p* value is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of students from different streams and the curriculum framed by the corcern authority. A positive difference was found among the different streams while students of HRDFS stream are more satisfied as compared to other streams.

To sum up the attitude of ongoing students on the basis of streams, the data was analyzed with the help of **One-way ANOVA** table shows that *p* value is less than 0.05 at 5% level of significance for all the attributes tested above. It means that there is a high significant difference in the attitude of ongoing students from different streams. It means that there exists significant difference with regards to all the attributes tested above. It reveals that ongoing students are satisfied but a difference is found with regards to classrooms in the institutes, library facility available in the institutions, equipments of teaching aids used by faculty while teaching, infrastructure facilities, on-the job training, latest tools and equipments, trainers/faculties of the course, instructors for internship, theory teaching in the class, practical training in the institutions, syllabus farmed for the course and the overall curriculum of the course framed by the authority. So the attitude of respondents from different streams shows that there exist difference between the groups the groups in their attitude towards facilities available in the institutions and curriculum for all the statements tested above under one way ANOVA test but there is positive attitude of the students, thus the null hypothesis is rejected.

5.5.5 Trades

The total population of students is 503, which is classified and organized according to their trades. The students were divided into 41 different trades. In order to analyze the statements for the attitude of the students towards facilities available and curriculum, the data was arranged accordingly. The **Frequencies** along with *percentages* are shown in table **5.15** *and the statistical tools such as One way ANOVA* is used to show *ANOVA-values* in table **5.16** which are given below;

H05: There is no significant difference in the attitude of On-going students from different Trades towards facilities available and curriculum in the state of Goa.

Table 5.15: Table showing frequencies on attitude of ongoing students (Trades)

State-															
ments		IT	HC	AM	CRM	OSS	AET	CGDM	ISR	AA	CT	MREEA	MCA	MFS	ELTR
	D	0	1	0	2	0	0	2	0	0	1	0	0	0	0
1	P	0.0%	4.3%	0.0%	18.2%	0.0%	0.0%	11.1%	0.0%	0.0%	5.0%	0.0%	0.0%	0.0%	0.0%
ĺ	S	0	18	2	1	0	0	9	1	4	1	2	13	5	1
Class	3	0.0%	78.3%	40.0%	9.1%	0.0%	0.0%	50.0%	8.3%	40.0%	5.0%	10.0%	54.2%	45.5%	12.5%
rooms	G	17	0	3	5	4	9	6	11	4	12	14	11	6	6
i L	Ü	100%	0.0%	60.0%	45.5%	26.7%	47.4%	33.3%	91.7%	40.0%	60.0%	70.0%	45.8%	54.5%	75.0%
1	Е	0	4	0	3	11	10	1	0	2	6	4	0	0	1
		0.0%	17.4%	0.0%	27.3%	73.3%	52.6%	5.6%	0.0%	20.0%	30.0%	20.0%	0.0%	0.0%	12.5%
1	P	0 0.0%	1 4.5%	1 20.0%	1 9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1 5.0%	0	0	3 37.5%
i -		0.0%	12	3	9.1%	2	3	11	0.0%	0.0%	1	0	5	1	2
Library	S	0.0%	54.5%	60.0%	0.0%	13.3%	16.7%	64.7%	0.0%	0.0%	5.0%	0.0%	20.8%	9.1%	25.0%
facility		17	7	1	7	4	9	4	9	4	5	17	17	10	0
lucing	G	100%	31.8%	20.0%	63.6%	26.7%	50.0%	23.5%	81.8%	40.0%	25.0%	85.0%	70.8%	90.9%	0.0%
i	_	0	2	0	3	9	6	2	2	6	14	2	2	0	3
1	E	0.0%	9.1%	0.0%	27.3%	60.0%	33.3%	11.8%	18.2%	60.0%	70.0%	10.0%	8.3%	0.0%	37.5%
	P	0	0	1	1	0	0	0	0	0	0	1	0	0	0
Ĺ	Р	0.0%	0.0%	20.0%	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	0.0%	0.0%	0.0%
İ	S	0	2	4	4	1	0	1	6	0	3	3	6	3	0
Teachin	5	0.0%	8.7%	80.0%	36.4%	7.1%	0.0%	5.9%	50.0%	0.0%	15.0%	15.8%	25.0%	27.3%	0.0%
g aids	G	17	1	0	4	4	4	10	1	4	9	13	17	8	5
l -	Ü	100%	4.3%	0.0%	36.4%	28.6%	21.1%	58.8%	8.3%	40.0%	45.0%	68.4%	70.8%	72.7%	62.5%
1	Е	0	20	0	2	9	15	6	5	6	8	2	1	0	3
		0.0%	87.0% 0	0.0%	18.2%	64.3%	78.9%	35.3%	41.7%	60.0%	40.0%	10.5%	4.2%	0.0%	37.5% 0
1	P	0.0%	0.0%	100%	27.3%	0.0%	0.0%	33.3%	0.0%	0.0%	0.0%	0.0%	4.2%	0.0%	0.0%
Infrastr		0.070	0.070	0	3	0.070	0.0%	9	8	0.070	2	1	11	8	0.070
ucture	S	0.0%	0.0%	0.0%	27.3%	0.0%	0.0%	50.0%	72.7%	0.0%	10.0%	5.0%	45.8%	72.7%	0.0%
facilitie	~	17	6	0	3	2	9	2	2	8	7	14	11	3	8
s	G	100%	26.1%	0.0%	27.3%	13.3%	50.0%	11.1%	18.2%	80.0%	35.0%	70.0%	45.8%	27.3%	100%
	г	0	17	0	2	13	9	1	1	2	11	5	1	0	0
1	E	0.0%	73.9%	0.0%	18.2%	86.7%	50.0%	5.6%	9.1%	20.0%	55.0%	25.0%	4.2%	0.0%	0.0%
	P	0	23	0	1	0	0	0	0	0	1	5	2	1	0
On the	1	0.0%	100%	0.0%	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	26.3%	8.7%	9.1%	0.0%
job	S	0	0	1	2	5	1	1	5	0	0	9	9	1	0
training	-	0.0%	0.0%	20.0%	18.2%	33.3%	5.6%	5.9%	41.7%	0.0%	0.0%	47.4%	39.1%	9.1%	0.0%
	G	17	0	4	8	5	17	11	6	8	16	4	12	9	5
internsh		100%	0.0%	80.0%	72.7%	33.3%	94.4%	64.7% 5	50.0%	80.0%	80.0%	21.1%	52.2%	81.8%	62.5%
1p	E	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	29.4%	8.3%	20.0%	15.0%	5.3%	0.0%	0.0%	3 37.5%
 		0.070	0.070	5	8	1	0.0%	8	0.570	0	0	2	4	0.070	5
1	P	0.0%	0.0%	100%	72.7%	6.7%	0.0%	50.0%	0.0%	0.0%	0.0%	10.5%	16.7%	0.0%	62.5%
Latest	_	0.070	0.070	0	1	1	0.070	0	0.070	2	3	3	6	3	0
	S	0.0%	0.0%	0.0%	9.1%	6.7%	0.0%	0.0%	0.0%	20.0%	15.0%	15.8%	25.0%	27.3%	0.0%
and _		17	18	0	2	10	5	6	12	8	9	11	9	7	3
	G	100%	78.3%	0.0%	18.2%	66.7%	26.3%	37.5%	100%	80.0%	45.0%	57.9%	37.5%	63.6%	37.5%
ents.	Е	0	5	0	0	3	14	2	0	0	8	3	5	1	0
	Е	0.0%	21.7%	0.0%	0.0%	20.0%	73.7%	12.5%	0.0%	0.0%	40.0%	15.8%	20.8%	9.1%	0.0%

	P	0	0	0	3	0	0	0	0	0	0	1	1	0	0
Trainer	1	0.0%	0.0%	0.0%	27.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	4.2%	0.0%	0.0%
c/	S	0	0	0	0	0	0	1	5	0	5	7	5	1	0
Facultie	5	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%	41.7%	0.0%	25.0%	35.0%	20.8%	9.1%	0.0%
s of the	G	17	0	0	6	3	4	10	3	4	9	12	16	10	3
Course	U	100%	0.0%	0.0%	54.5%	20.0%	21.1%	55.6%	25.0%	40.0%	45.0%	60.0%	66.7%	90.9%	37.5%
Course	Е	0	23	5	2	12	15	7	4	6	6	0	2	0	5
	E	0.0%	100%	100%	18.2%	80.0%	78.9%	38.9%	33.3%	60.0%	30.0%	0.0%	8.3%	0.0%	62.5%
	Р	0	23	0	1	0	0	0	0	0	0	4	2	1	0
T44	Г	0.0%	100%	0.0%	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.1%	8.7%	9.1%	0.0%
Instruct	S	0	0	1	1	0	1	1	5	0	1	2	9	1	0
ors for	3	0.0%	0.0%	20.0%	9.1%	0.0%	5.6%	5.9%	41.7%	0.0%	5.0%	10.5%	39.1%	9.1%	0.0%
internsh	G	17	0	4	7	4	17	11	6	8	16	12	12	9	5
ip/traini	G	100%	0.0%	80.0%	63.6%	26.7%	94.4%	64.7%	50.0%	80.0%	80.0%	63.2%	52.2%	81.8%	62.5%
ng places		0	0	0	2	1.1	0	5	1	2	3	1	0	0	3
places	Е	0.0%	0	0.0%	18.2%	11 73.3%	0	_	1 8.3%	20.0%	_	5.3%	0	0.0%	37.5%
		0.0%	0.0%	0.0%	18.2%	/3.3%	0.0%	29.4%	8.5%	20.0%	15.0%	5.5%	0.0%	0.0%	
	Р	0	0	0	1	0	0	0	0	0	1	2	2	0	0
	Р	0.0%	0.0%	0.0%	9.1%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	10.0%	8.3%	0.0%	0.0%
Theory	C	0	0	0	1	2	1	0	0	0	2	2	10	3	0
teachin	S	0.0%	0.0%	0.0%	9.1%	13.3%	5.3%	0.0%	0.0%	0.0%	10.0%	10.0%	41.7%	27.3%	0.0%
g in the	_	17	0	2	4	4	11	5	11	2	10	8	12	8	4
class	G	100%	0.0%	40.0%	36.4%	26.7%	57.9%	27.8%	100%	20.0%	50.0%	40.0%	50.0%	72.7%	50.0%
		0	23	3	5	9	7	13	0	8	7	8	0	0	4
	Е	0.0%	100%	60.0%	45.5%	60.0%	36.8%	72.2%	0.0%	80.0%	35.0%	40.0%	0.0%	0.0%	50.0%
		0	0	0	4	0	0	0	0	0	0	0	2	1	0
	P	0.0%	0.0%	0.0%	36.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	9.1%	0.0%
Practical		0	0	1	3	0	0	0	5	0	0	0	5	8	1
training	S	0.0%	0.0%	20.0%	27.3%	0.0%	0.0%	0.0%	41.7%	0.0%	0.0%	0.0%	20.8%	72.7%	12.5%
in the	-	1	0	3	1	1	5	4	1	6	6	15	15	2	2
institutio	G	5.9%	0.0%	60.0%	9.1%	6.7%	26.3%	22.2%	8.3%	60.0%	30.0%	75.0%	62.5%	18.2%	25.0%
ns		16	23	1	3	14	14	14	6	4	14	5	2	0	5
	E	94.1%	100%	20.0%	27.3%	93.3%	73.7%	77.8%	50.0%	40.0%	70.0%	25.0%	8.3%	0.0%	62.5%
		0	0	0	0	0	0	0	0	0	0	1	2	0.070	0
	P	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	8.3%	0.0%	0.0%
Syllabus		0	0	0	1	1	5	7	5	0	5	4	13	5	0
framed	S	0.0%	0.0%	0.0%	11.1%	6.7%	26.3%	38.9%	45.5%	0.0%	26.3%	21.1%	54.2%	45.5%	0.0%
for the		17	23	1	5	11	8	7	3	8	7	12	9	6	6
course	G	100%	100%	20.0%	55.6%	73.3%	42.1%	38.9%	27.3%	80.0%	36.8%	63.2%	37.5%	54.5%	85.7%
Course		0	0	4	3	3	6	4	3	2	7	2	0	0	1
	Е	0.0%	0.0%	80.0%	33.3%	20.0%	31.6%	22.2%	27.3%	20.0%	36.8%	10.5%	0.0%	0.0%	14.3%
		0.070	0.070	0	0	0	0	0	0	0	0	1	0.070	0.070	0
	P	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	0.0%	0.0%	0.0%
Curricul		0.070	0.070	0.070	4	0.070	1	2	5	0.070	1	3	11	4	0.070
um of	S	0.0%	0.0%	0.0%	36.4%	0.0%	5.6%	11.8%	41.7%	0.0%	5.0%	15.8%	45.8%	36.4%	0.0%
the		17	23	3	4	12	12	12	5	4	11	14	13	7	2
course	G	100%	100%	60.0%	36.4%	85.7%	66.7%	70.6%	41.7%	40.0%	55.0%	73.7%	54.2%	63.6%	28.6%
Course		0	0	2	30.470	2	5	3	2	6	8	1	0	03.070	5
	E	0.0%	0.0%	40.0%	27.3%	14.3%	27.8%	17.6%	16.7%	60.0%	40.0%	5.3%	0.0%	0.0%	71.4%
	1	0.0%	0.0%	+0.0%	41.3%	14.5%	41.0%	1 / .0%	10./%	00.0%	+0.0%	J.J%	0.0%	0.0%	/1.4%

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Statem ents		COPA	PLBR	WLDR	FTR	DM	НМ	EM	CA	BA	DTPO	HN	ARM	BTCN	ED
	P	2 11.1%	0.0%	0.0%	0.0%	2 10.0%	0 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%
Class	S	2 11.1%	0.0%	0.0%	4 18.2%	6 30.0%	0 0.0%	0.0%	1 10.0%	2 20.0%	0.0%	0.0%	7 77.8%	0.0%	0.0%
rooms	G	13 72.2%	22 91.7%	3 18.8%	11 50.0%	10 50.0%	15 88.2%	4 100%	8 80.0%	4 40.0%	0.0%	0.0%	2 22.2%	5 71.4%	2 16.7%
	Е	1 5.6%	2 8.3%	13 81.2%	7 31.8%	2 10.0%	2 11.8%	0.0%	1 10.0%	4 40.0%	10 100%	10 100%	0.0%	2 28.6%	10 83.3%
	P	12 66.7%	6 25.0%	9 56.2%	0.0%	5 26.3%	6 35.3%	1 25.0%	4 50.0%	0.0%	0.0%	0.0%	9 100%	0 0.0% 0 0.0% 5 71.4%	0.0%
Library	S	4 22.2%	7 29.2%	4 25.0%	4 18.2%	7 36.8%	7 41.2%	3 75.0%	1 12.5%	2 20.0%	0.0%	0.0%	0.0%	-	11 91.7%
facility	G	2 11.1%	9 37.5%	1 6.2%	18 81.8%	7 36.8%	4 23.5%	0.0%	2 25.0%	4 40.0%	1 10.0%	0.0%	0.0%		1 8.3%
	Е	0.0%	2 8.3%	2 12.5%	0.0%	0.0%	0.0%	0.0%	1 12.5%	4 40.0%	90.0%	10 100%	0.0%	_	0.0%

	-											0	0	0	
	Р	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Teachin g aids	S	7 41.2%	3 12.5%	0 0.0%	3 13.0%	3 15.0%	1 6.2%	1 25.0%	4 44.4%	1 10.0%	0 0.0%	0.0%	0.0%	0.0%	0.0%
guids	G	8 47.1%	17 70.8%	3 18.8%	4 17.4%	13 65.0%	13 81.2%	3 75.0%	4 44.4%	2 20.0%	0 0.0%	0.0%	9 100%	4 57.1%	11 91.7%
	Е	1 5.9%	4 16.7%	13 81.2%	16 69.6%	4 20.0%	2 12.5%	0.0%	1 11.1%	7 70.0%	10 100%	10 100%	0.0%	3 42.9%	1 8.3%
	P	5 27.8%	1 4.2%	0 0.0%	0 0.0%	3 15.0%	0 0.0%	0.0%	1 10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Infrastr ucture	S	3 16.7%	3 12.5%	2 12.5%	1 4.5%	8 40.0%	1 5.9%	0.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
facilitie s	G	10 55.6%	17 70.8%	2 12.5%	21 95.5%	8 40.0%	16 94.1%	4 100%	6 60.0%	5 50.0%	0.0%	0.0%	9 100%	4 57.1%	2 16.7%
	Е	0.0%	3 12.5%	12 75.0%	0 0.0%	1 5.0%	0.0%	0.0%	0.0%	5 50.0%	10 100%	10 100%	0.0%	3 42.9%	10 83.3%
On the	Р	1 6.2%	1 4.5%	0 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
job training	S	5 31.2%	3 13.6%	0 0.0%	1 4.8%	2 10.0%	0.0%	1 25.0%	1 10.0%	20.0%	1 10.0%	0.0%	0.0%	0.0%	7 58.3%
internsh ip	G	8 50.0%	15 68.2%	1 6.2%	19 90.5%	7 35.0%	9 52.9%	3 75.0%	7 70.0%	5 50.0%	0.0%	2 40.0%	2 22.2%	5 71.4%	5 41.7%
ъ	Е	2 12.5%	3 13.6%	15 93.8%	1 4.8%	11 55.0%	8 47.1%	0.0%	20.0%	30.0%	9 90.0%	3 60.0%	7 77.8%	28.6%	0.0%
T -44	P	1 5.6%	2 8.3%	0 0.0%	1 4.5%	3 15.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Latest tools and	S	2 11.1%	4 16.7%	0.0%	2 9.1%	4 20.0%	4 25.0%	1 25.0%	30.0%	3 30.0%	0.0%	0.0%	0.0%	0.0%	8 72.7%
equipm ents.	G	10 55.6%	15 62.5%	3 18.8%	3 13.6%	3 15.0%	8 50.0%	2 50.0%	5 50.0%	6 60.0%	10 100%	1 10.0%	9	1 14.3%	3 27.3%
	Е	5 27.8%	3 12.5%	13 81.2%	16 72.7%	10 50.0%	4 25.0%	1 25.0%	20.0%	1 10.0%	0.0%	9 90.0%	0.0%	6 85.7%	0.0%
Trainer	P	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
s/ Facultie	S	2 11.1%	2 8.3%	0 0.0%	0 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
s of the Course	G	7 38.9%	12 50.0%	4 25.0%	15 65.2%	12 60.0%	3 17.6%	2 50.0%	20.0%	4 40.0%	0.0%	1 10.0%	9 100%	6 85.7%	9 75.0%
	Е	9 50.0%	10 41.7%	12 75.0%	8 34.8%	8 40.0%	14 82.4%	2 50.0%	8 80.0%	6 60.0%	10 100%	9 90.0%	0.0%	1 14.3%	3 25.0%
Instruct		1 6.2%	1 4.5%	0 0.0%	0 0.0%	0.0%	0 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ors for internsh	S	6.2%	3 13.6%	0 0.0%	1 4.8%	2 10.0%	0.0%	1 25.0%	1 10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7 58.3%
ip/traini ng places	G	11 68.8%	15 68.2%	2 12.5%	19 90.5%	7 35.0%	9 52.9%	3 75.0%	7 70.0%	20.0%	1 10.0%	0.0%	2 22.2%	5 71.4%	4 33.3%
1	Е	3 18.8%	3 13.6%	14 87.5%	1 4.8%	11 55.0%	8 47.1%	0.0%	2 20.0%	8 80.0%	9 90.0%	5 100%	7 77.8%	2 28.6%	1 8.3%
	P	0.0%	1 4.2%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 10.0%	0.0%	0.0%	0.0%	0 0.0%	0.0%	0.0%
Theory teachin	S	3 17.6%	0 0.0%	0 0.0%	1 4.3%	0.0%	0 0.0%	1 25.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%	0.0%	0.0%
g in the class	G	9 52.9%	10 41.7%	2 12.5%	4 17.4%	8 40.0%	2 11.8%	3 75.0%	5 50.0%	20.0%	0.0%	0.0%	9 100%	4 57.1%	10 83.3%
	Е	5 29.4%	13 54.2%	14 87.5%	18 78.3%	12 60.0%	15 88.2%	0.0%	4 40.0%	8 80.0%	10 100%	10 100%	0.0%	3 42.9%	2 16.7%
Practica	Р	1 5.6%	0 0.0%	0 0.0%	0 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%	0.0%	0 0.0%
l training	S	1 5.6%	0.0%	0 0.0%	1 4.3%	0.0%	0 0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%
in the instituti ons	G	6 33.3%	8 33.3%	2 12.5%	3 13.0%	6 30.0%	0 0.0%	2 50.0%	30.0%	4 40.0%	0.0%	0.0%	2 22.2%	0.0%	9 75.0%
	Е	10 55.6%	16 66.7%	14 87.5%	19 82.6%	14 70.0%	17 100.0%	2 50.0%	7 70.0%	6 60.0%	10 100%	10 100%	7 77.8%	7 100%	3 25.0%

	P	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Syllabu		0.0%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
s	S	0	3	0	0	0	4	0	0	0	0	0	0	0	0
framed		0.0%	13.6%	0.0%	0.0%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
for the	G	14	14	5	12	15	12	4	6	4	1	0	9	7	11
course		77.8%	63.6%	33.3%	54.5%	78.9%	75.0%	100%	66.7%	40.0%	10.0%	0.0%	100%	100%	91.7%
	E	4	4	10	10	4	0	0	3	6	9	10	0	0	1
		22.2%	18.2%	66.7%	45.5%	21.1%	0.0%	0.0%	33.3%	60.0%	90.0%	100%	0.0%	0.0%	8.3%
	P	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Curricu	5	1	1	0	1	1	5	0	1	0	0	0	0	0	0
lum of		6.7%	4.8%	0.0%	5.0%	5.3%	29.4%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
the course	G	9	12	7	12	12	10	4	9	3	1	0	9	0	11
course		60.0%	57.1%	43.8%	60.0%	63.2%	58.8%	100%	90.0%	30.0%	10.0%	0.0%	100%	0.0%	91.7%
	Е	5	8	9	7	6	2	0	0	7	9	10	0	7	1
		33.3%	38.1%	56.2%	35.0%	31.6%	11.8%	0.0%	0.0%	70.0%	90.0%	100%	0.0%	100%	8.3%

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Stateme		SG	T&E	WLDR	FTR	DM	ELTR	LA	EM	PLBR	CNC	AGRIT	ST	T&FP	TOTAL
nts															
	Р	0	5	0	0	0	0	0	0	0	0	1	0	0	16
	1	0.0%	23.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	0.0%	3.2%
Class	S	3 14.3%	2 9.5%	1 33.3%	3 75.0%	1 33.3%	3 50.0%	2 100%	3 100%	1 50.0%	2 50.0%	0 0.0%	2 22.2%	0 0.0%	102 20.4%
rooms	~	11	10	2	0	0	30.070	0	0	1	2	6	7	4	253
	G	52.4%	47.6%	66.7%	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	50.0%	60.0%	77.8%	40.0%	50.6%
	Е	7	4	0	1	2	0	0	0	0	0	3	0	6	129
		33.3%	19.0%	0.0%	25.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	30.0%	0.0%	60.0%	25.8%
	P	13 65.0%	13 72.2%	1 33.3%	1 25.0%	0 0.0%	1 16.7%	0 0.0%	0 0.0%	0 0.0%	2 50.0%	8 80.0%	0 0.0%	1 16.7%	99 20.4%
	C	7	3	2	3	1	5	2	3	2	2	0	4	2	126
Library	S	35.0%	16.7%	66.7%	75.0%	33.3%	83.3%	100%	100%	100%	50.0%	0.0%	40.0%	33.3%	25.9%
facility	G	0	1	0	0	0	0	0	0	0	0	20,000	6	2	176
		0.0%	5.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	60.0%	33.3%	36.2% 85
	Е	0.0%	5.6%	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	16.7%	17.5%
	Р	7	8	0	1	0	0	0	0	0	0	0	0	0	20
	1	33.3%	38.1%	0.0%	25.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.2%
Teachin	S	9 42.9%	2 9.5%	0 0.0%	3 75.0%	0 0.0%	2 33.3%	0 0.0%	0 0.0%	2 100%	2 50.0%	1 10.0%	2 20.0%	0 0.0%	79 16.5%
g aids	~	3	6	3	0	1	4	2	3	0	2	9	8	1	214
8	G	14.3%	28.6%	100%	0.0%	33.3%	66.7%	100%	100%	0.0%	50.0%	90.0%	80.0%	11.1%	44.7%
	Е	2	5	0	0	2	0	0	0	0	0	0	0	8	166
		9.5%	23.8%	0.0%	0.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	88.9%	34.7%
	P	4.8%	23.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%
T., C.,	S	3	4	1	4	0	1	0	0	0	0	0	0	1	77
Infrastru cture	3	14.3%	19.0%	33.3%	100.0%	0.0%	16.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	15.5%
facilities	G	13 61.9%	11 52.4%	2 66.7%	0 0.0%	2 100%	5 83.3%	2 100%	3 100%	2 100%	4 100%	8 80.0%	10 100%	4 40.0%	262 52.6%
		4	1	00.770	0.070	0	0	0	0	0	0	2	0	5	128
	Е	19.0%	4.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	50.0%	25.7%
	P	0	10	0	0	0	0	0	0	0	0	0	0	0	45
		0.0% 7	47.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.4%
On the	S	46.7%	19.0%	66.7%	0.0%	0.0%	50.0%	50.0%	0.0%	50.0%	75.0%	40.0%	20.0%	22.2%	17.9%
job	G	8	6	1	1	2	3	1	3	1	1	5	8	6	256
training/ internshi	,	53.3%	28.6%	33.3%	25.0%	66.7%	50.0%	50.0%	100%	50.0%	25.0%	50.0%	80.0%	66.7%	53.3%
р					_			_	_		_				
	E	0 0.0%	1 4.8%	0 0.0%	3 75.0%	1 33.3%	0 0.0%	0 0.0%	0 0.0%	0.0%	0 0.0%	1 10.0%	0 0.0%	1 11.1%	93
		0.0%	4.0%	0.0%	13.0%	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	10.0%	0.0%	11.1%	19.4%

	P	11 52.4%	8 38.1%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0.0%	0 0.0%	0 0.0%	0 0.0%	59 11.9%
Latest	S	6 28.6%	9 42.9%	0	2 40.0%	1 33.3%	0	0 0.0%	0 0.0%	0	0	0 0.0%	20.0%	3 30.0%	73
tools and equipme	G	4	4	3	3	1	4	1	3	1	3	2	8	2	235
nts.	0	19.0%	19.0%	100.0%	60.0%	33.3%	66.7%	50.0%	100%	50.0%	75.0%	20.0%	80.0%	20.0%	47.3%
	Е	0 0.0%	0.0%	0 0.0%	0 0.0%	1 33.3%	2 33.3%	1 50.0%	0.0%	1 50.0%	1 25.0%	8 80.0%	0 0.0%	5 50.0%	130 26.2%
	P	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	5 1.0%
Trainers/	S	0 0.0%	1 4.8%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	29 5.8%
Faculties of the Course	G	7 33.3%	6 28.6%	3 100%	2 50.0%	1 33.3%	4 66.7%	2 100%	3 100%	2 100%	4 100%	1 10.0%	10 100%	0 0.0%	228 45.4%
Course	Е	14 66.7%	14 66.7%	0 0.0%	2 50.0%	2 66.7%	2 33.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	9 90.0%	0 0.0%	10 100%	240 47.8%
	P	0	10 47.6%	0	0	0	0	0	0	0	0	0	0	0	43 9.0%
Instructo	S	2 13.3%	2 9.5%	0	0	0	2 33.3%	1 50.0%	0	1 50.0%	3 75.0%	0	3 30.0%	2 22.2%	54 11.2%
rs for internshi	G	6 40.0%	7 33.3%	3 100.0%	1 25.0%	2 66.7%	4 66.7%	1 50.0%	3 100.0%	1 50.0%	1 25.0%	7 70.0%	7 70.0%	0 0.0%	258 53.8%
p/trainin g places	Е	7 46.7%	2 9.5%	0 0.0%	3 75.0%	1 33.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	3 30.0%	0 0.0%	7 77.8%	125 26.0%
	P	0	0	0	0	0	0	0	0	0	0	1	0	0	9
Theory	S	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2	0	2	0.0%	35
teaching in the	G	20	0.0%	0.0%	25.0%	0.0%	33.3%	2	66.7%	2	50.0%	9	20.0%	3	7.0%
class		95.2%	95.2% 1	100%	50.0%	33.3%	66.7%	100%	33.3%	100%	50.0%	90.0%	80.0%	30.0% 7	48.6%
	Е	4.8%	4.8%	0.0%	25.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	70.0%	213 42.6%
	P	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8 1.6%
Practical training	S	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0 0.0%	1 10.0%	1 10.0%	27 5.4%
in the institutio	G	16 76.2%	10 47.6%	3 100%	0 0.0%	2 66.7%	4 66.7%	2 100%	2 66.7%	1 50.0%	0 0.0%	6 60.0%	9 90.0%	1 10.0%	163 32.5%
ns	Е	5 23.8%	11 52.4%	0 0.0%	4 100%	1 33.3%	2 33.3%	0 0.0%	1 33.3%	1 50.0%	4 100%	4 40.0%	0 0.0%	8 80.0%	304 60.6%
	P	0 0.0%	4 19.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 10.0%	0 0.0%	0 0.0%	9 1.8%
Syllabus	S	8 38.1%	6 28.6%	1 33.3%	2 50.0%	0 0.0%	1 16.7%	0 0.0%	2 66.7%	0 0.0%	1 25.0%	0 0.0%	2 20.0%	1 10.0%	77 15.7%
framed for the	G	12 57.1%	11 52.4%	2 66.7%	2 50.0%	2 66.7%	5 83.3%	2 100%	1 33.3%	2 100%	3 75.0%	9 90.0%	8 80.0%	3 30.0%	299 61.1%
course	Е	1 4.8%	0 0.0%	0 0.0%	0 0.0%	1 33.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	6 60.0%	104 21.3%
	P	0	4 19.0%	0	0	0	0	0	0	0	0	0	0	0	5 1.0%
Curricul	S	3 14.3%	3 14.3%	1 33.3%	0	0	0	0	1 33.3%	0	1 25.0%	0	3 30.0%	1 10.0%	54 11.1%
um of the	G	17 81.0%	13 61.9%	2 66.7%	4 100%	2 100.0%	5 83.3%	2 100%	2 66.7%	2 100%	3 75.0%	9 90.0%	7 70.0%	8 80.0%	314 64.6%
course	Е	1 4.8%	1 4.8%	0 0.0%	0 0.0%	0 0.0%	1 16.7%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 10.0%	0 0.0%	1 10.0%	113 23.3%

Table 5.16: Table showing ANOVA-values on attitude of ongoing students (Trades)

Statements		Sum of Squares	Df	Mean Square	F	Sig.
	Between Groups	113.243	40	2.831	7.113	.000
Class rooms	Within Groups	182.685	459	.398		
	Total	295.928	499			
	Between Groups	278.420	40	6.961	14.675	.000
Library facility	Within Groups	211.061	445	.474		
	Total	489.481	485			
	Between Groups	137.335	40	3.433	8.041	.000
Equipments of teaching aids	Within Groups	187.446	439	.427		
	Total	324.781	479			
	Between Groups	170.839	40	4.271	12.279	.000
Infrastructure facilities	Within Groups	158.960	457	.348		
	Total	329.799	497			
	Between Groups	57.382	40	1.435	20.217	.000
On the job training/internship	Within Groups	32.781	462	.071		
3 6 1	Total	90.163	502			
	Between Groups	230.278	40	5.757	9.259	.000
Latest tools and equipments.	Within Groups	283.524	456	.622		
1. I	Total	513.803	496			
	Between Groups	85.334	40	2.133	6.823	.000
Trainers/ Faculties of the Courses	Within Groups	144.132	461	.313	İ	
	Total	229.466	501			
	Between Groups	201.144	40	5.029	14.405	.000
Instructors for internship/training places	Within Groups	153.254	439	.349		
F & I	Total	354.398	479			
	Between Groups	96.232	40	2.406	8.065	.000
Theory teaching in the class	Within Groups	136.926	459	.298		
	Total	233.158	499			
	Between Groups	100.925	40	2.523	9.204	.000
Practical training in the institutions	Within Groups	126.376	461	.274	7,-0	
6	Total	227.301	501		1	
	Between Groups	75.727	40	1.893	6.011	.000
Syllabus framed for the course	Within Groups	141.108	448	.315		
	Total	216.834	488		1	
	Between Groups	64.058	40	1.601	5.999	.000
Curriculum of the course	Within Groups	118.798	445	.267	2.222	••••
	Total	182.856	485	.207	1	

5.5.5.1 Class rooms

The majority of ongoing students of different streams (table 5.15) commented that class rooms are good i.e. IT (100%), AM (60.0%), CRM (45.5%), ISR (91.7%), AA (40.0%), CT (60.0%), MREEA (70.0%), MFS (54.5%), ELTR (75.0%), COPA (72.2%), PLBR (91.7%), FTR (50.0%), DM (50.0%), HM (88.2%), EM (100%), CA (80.0%), BA (40.0%), BTCN (71.4%), SG (52.4%), T&E (47.6%), WLDR (66.7%), ELTR (50.0%), PLBR (50.0%), CNC (50.0%), AGRIT (60.0%) and ST (77.8%) whereas students of trades like OSS (73.3%), AET (52.6%), WLDR (81.2%), DTPO (100%), HN (100%), ED (83.3%), DM (66.7%) and T&FP (60.0%) claimed to be excellent while students from HC (78.3%), CGDM (50.0%), MCA (54.2%), ARM (77.8%), FTR (75.0%), LA (100%) and EM (100.0%) claimed as satisfactory. It means that attitude of most of the students (out of 41 trades 26 trades) is satisfactory while students of 8 trades are highly satisfactory and less students were satisfactory (7 trades) and students of few streams were dissatisfied towards the class rooms provided by the institutions. It indicates that majority of the students from different trades are satisfied as well as highly satisfied.

According to ANOVA table 5.16, the F value is 7.113 and the corresponding p value of significance is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of students from different trades towards facility of class rooms provided by the institutions. It also indicates that students from most of the trades are satisfied whereas students of some trades are highly satisfied but students from some streams shows low satisfaction with the condition of class rooms provided by the institutions for the different courses.

5.5.5.2 Library facility

The majority of the ongoing students of different streams (table 5.15) claimed as good i.e. IT (100%), CRM (63.6%), AET (50.0%), ISR (81.8%), MREEA (85.0%), MCA (70.8%), MFS (90.9%), PLBR (37.5%), FTR (81.8%), DM (36.8%), BTCN (71.4%), ST (60.0%), T&FP (33.2%), whereas OSS (60.0%), AA (60.0%), CT (70.0%), ELTR (37.5%), BA (40.0%) DTPO (90.0%), HN (100%) and DM (66.7%) said excellent while students from trades like HC (54.5%), AM (60.0%), CGDM (64.7%), HM (41.2%), EM (75.0%), ED (91.7%), WLDR (66.7%), FTR (75.0%), ELTR (83.3%), LA (100%), EM (100%), PLBR (100%), CNC (50.0%) and are rarely satisfied. The students of COPA (66.7%), WLDR (56.2%), CA (50.0%), ARM (100%), SG (65.0%), T&E (72.2%), and AGRIT (80.0) expressed library facility as poor. It means that the most of the students i.e. out of the total 41 trades, 13 and 8 trades are satisfied and highly satisfied respectively while students of 13 trades are less satisfied. The students of 7 trades are unsatisfied and students of 2 trades (ELTR and CNC) are satisfied as well as unsatisfied equally with the library facilities offered by the various institutions.

According to ANOVA table 5.16, the F value is 14.675 and the corresponding p value of significance is 0.000, which is less than 0.05 at 5% level of significance which means that there is a significant difference between the different streams with respect to the attitude of students with the library facilities offered by the institutions. Therefore, we can say that the attitude of the students from different trades towards library facilities provided by the institutions is satisfied except few trades.

5.5.5.3 Equipments of teaching aids.

Table 5.15 shows that majority of ongoing students from different trades i.e. 100% of IT, 63.6% of CRM, 58.8% of CGDM, 45.0% of CT, 68.4% of MREEA, 70.8% of MCA, 72.7% of MFS, 62.5% of ELTR, 47.1% of COPA, 70.8% of PLBR, 65.0% of DM, 81.2% of HM, 75.0% of EM, 44.4% of CA, 100% of ARM, 57.1% of BTCN, 91.7% of ED, 100% of WLDR, 66.7% of ELTR, 100% of LA, 100% of EM, 50.0% of CNC, 90.0% of AGRIT, 80.0% of ST claimed as good whereas 87.0% of HC, 64.3% of OSS, 78.9% of AET, 60.0% of AA, 81.2% of WLDR, 69.6% of FTR, 70.0% of BA, 100% of DTPO, 100% of HN, 66.7% of DM and 88.9% of T&FP expressed as excellent while students of trades such as 80.0% of AM, 50.0% of ISR, 42.9% of SG, 75.0% of FTR and 100% of PLBR are satisfied and majority of only one stream i.e. T&E (38.1%) claimed as poor with respect to facility of teaching equipments in the institutions.. It means that majority of the students (out of 41 trades), students of 24 different trades are satisfied and 11 trades are highly satisfied while students of 5 trades are moderately satisfied whereas trainees of T&E are unsatisfied with the equipment facilities of teaching aids provided by the institutions.

The *ANOVA* table 5.16 shows that the F value is 8.041 and the corresponding *p* value of significance is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the students from different streams and the availability of teaching equipments in the institutions. The overall result indicates that students from different trades are satisfied while some are highly satisfied and students of only 1 trade are dissatisfied.

5.5.5.4 Infrastructure facilities.

Table 5.15 reveals that majority of students from different trades towards infrastructure facilities claimed as good i.e. IT (100%), AA (80.0%), MREEA (70.0%), MCA (45.8%), ELTR (100%), COPA (55.6%), PLBR (70.8%), FTR (95.5%), DM (40.0%), HM (94.1%), EM (100%), CA (60.0%), ARM (100%), BTCN (57.1%), SG (61.9%), T&E (52.4%), WLDR (66.7%), DM (100%), ELTR (83.3%), LA (100%), EM (100%), PLBR (100%), CNC (100%), AGRI (80.0%), ST (100%) and T&FP (40.0%) whereas student of trades like HC (73.9%), OSS (86.7%), AET (50.0%), CT (55.0%), WLDR (75.0%), BA (50.0%), DTPO (100%), HN (100%) and ED (83.3%) commented to be excellent. The students claimed to be satisfactory are CGDM (50.0%), ISR (72.7%), MFS (72.7%), and FTR (100%) whereby only students of AM (100%) and CRM (27.3%)

said it is poor. It means majority of the respondents from most of the trades (out of 41, 30 and 9 respectively) are satisfied and highly satisfied whereas students of 2 trades (AM and CRM) are dissatisfied with the infrastructure facility provided by the institutions.

According to *ANOVA* table 5.16, the *F* value is 12.279 and its corresponding value of significance is 0.000, which is less than 0.05 at 5% level of significance, which means that the attitude of students from different trades is significantly different towards infrastructure facilities available in the institutions. Most of the students from different trades are satisfied while some are highly satisfied except students of 2 trades (AM and CRM) are dissatisfied.

5.5.5.5 On-the job training/internship.

The table 5.15 indicates that majority of students from different trades with respect to on-the job training/internship is good i.e. IT (100%), AM (80.0%), CRM (72.7%), OSS (33.3%), AET (94.4%), CGDM (64.7%), ISR (50.0%), AA (80.0%), CT (80.0%), MCA (52.2%), MFS (81.8%), ELTR (62.5%), COPA (50.0%), PLBR (68.2%), FTR (90.5%), HM (52.9%), EM (75.0%), CA (70.0%), BA (50.0%), BTCN (71.4%), SG (53.3%), DM (66.7%), ELTR (50.0%), LA (50.0%), EM (100%), PLBR (50.0%), AGRIT (50.0%), ST (80.0%) and T&FP (66.7%) whereas students from trades such as WLDR (93.8%), DM (55.0%), DTPO (90.0%), HN (60.0%), ARM (77.8%) and FTR (75.0%) stated as excellent while students claimed to be satisfactory are MREEA (47.4%), ED (58.3%), WLDR (66.7%) and CNC (75.0%). The students of HC (100%) and T&E (47.6%) only claimed as poor. It shows that the attitude of students from various streams is satisfactory (33 out of 41 trades) whereby students of 6 trades is highly satisfactory while students of only 2 trades (HC and T&E) is dissatisfactory with on-the job training and internship provided by the industries during the course.

The *ANOVA* table 5.16 shows that the F value is 20.217 and the corresponding *p* value of significance is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a high significant difference between the students from different streams with respect to on-the job training/ internship. A difference is noticed with students whereby students are satisfied and highly satisfied while students of HC and T&E are unsatisfied. The most of the students from majority of different streams are satisfied except 2 trades.

5.5.5.6 Latest tools and equipments.

Table 5.15 shows that attitude of most of the students from different trades towards latest tools and equipment is good i.e. 100% of IT, 78.3% of HC, 66.7% of OSS, 100% of ISR, 80.0% of AA, 45.0% of CT, 57.9% of MREEA, 37.5% of MCA, 63.6% of MFS, 55.6% of COPA, 62.5% PLBR, 50.0% of HM, 50.0% of EM, 50.0% of CA, 60.0% of BA, 100% of DTPO, 100% of ARM, 100% of WLDR, 60% of FTR, 33.3% of DM, 66.7% of ELTR, 50.0% of LA, 100% of EM, 50.0% of PLBR, 75.0% of CNC and 80.0% of ST whereas students of trades like 73.7% of AET, 81.2% of WLDR, 72.7% of FTR, 50.0% of DM, 90.0% of HN, 85.7% of BTCN, 80.0% of AGRIT and 50.0% of T&FP claimed as excellent while 72.7% of ED and 42.9% of T&E said satisfied. The students of trades such as 100% of AM, 72.7% of CRM, 50.0% of CGDM, 62.5% of ELTR and 52.4% of SG claimed as poor. It means that majority of the students of different trades (out of 41 trades, 29 and 7 trades) are satisfied and highly satisfied respectively except students from 5 trades are not satisfied with the available facility of latest tools and equipments in the institutions.

According to ANOVA table 5.16, the F value is 9.259 and its corresponding value of is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of the students from different trades with respect to facilities of latest tools and equipments available in the institutions. A difference is noticed within the different trades where most of the students from majority of the trades are satisfied whereby the students of 5 trades have shown dissatisfaction with the tools and equipments used for training in the institutions.

5.5.5.7 Trainers/Faculties of the course

Table 5.15 shows the overall attitude of most of the students from different streams with respect to trainers/faculties are excellent i.e. 100% of HC and 100% of AM, 80.0% of OSS, 78.9% of AET, 60.05 % of AA, 62.% of ELTR, 50.0% of COPA, 75.0% of WLDR, 82.4% of HM, 50.0% of EM, 80.0% of CA, 60.0% of BA, 100% of DTPO, 90.0% of HN, 66.7% of SG, 66.7% of T&E, 50.0% of FTR, 66.7% of DM, 90.0% of AGRIT, and 100% of T&FP whereas students from trades like 100% of IT, 54.5% of CRM, 55.6% of CGDM, 45.0% of CT, 60.0% of MREEA, 66.7% of MCA, 90.9% of MFS, 50.0% of PLBR, 65.2% of FTR, 60.0% of DM, 100% of ARM, 85.7% of BTCN, 75% of ED, 100% of WLDR, 66.7% of ELTR, 100% of LA, 100% of EM, 100% of PLBR, 100% of CNC and 100% of ST claimed as good while students of only one trade

i.e. ISR (41.7%) said satisfactory. It means most of the students (21 trades out of 41 trades) from different streams are satisfied and highly satisfied (20 trades) towards trainers/faculties teaching various courses in the institutions.

The *ANOVA* table 5.16 shows that the F value is 6.823 and the corresponding *p* value of significance is 0.000, which is lower than 0.05 at 5% level of significance. It means that there is a significant difference between the attitudes of students from different trades with respect to teachers/faculties teaching in the institutions. A difference is noticed with the students as most of the students from most of the trades are highly satisfied whereas students from the remaining trades are satisfied.

5.5.5.8 Instructors for internship/training

Table 5.15 shows the attitude of most of the students from different trades toward instructor for internship at training places shows good i.e. IT (100%), AM (80.0%), CRM (63.6%), AET (94.4%), CGDM (64.7%), ISR (50.0%), AA (80.0%), CT(80.0%), MREEA (63.2%), MCA (52.2%), MFS (81.8%), ELTR (62.5%), COPA (68.8%), PLBR (68.2%), FTR (90.5%), HM (52.9%), EM (75.0%), CA (70.0%), BTCN (71.4%), WLDR (100%), DM (66.7%), ELTR (66.7%), LA (50.0%), EM (100%), PLBR (50.0%), AGRIT (70.0%) and ST (70.0%) whereas students from OSS (73.3%), WLDR (87.5%), DM (55.0%), BA (80.0%), DTPO (90.0%), HN (100%), ARM (77.8%), SG (46.7%), FTR (75.0%) and T&FP (77.8%) claimed as excellent while students of ED (58.3%) and CNC (75.0%) disclosed as satisfactory and students of HC (100%) and T&E (47.6%) claimed to be poor. It means that most of the students from different trades (out of 41 trades, 29 and 10 trades) are satisfied and highly satisfied respectively with respect to instructors for internship except students of 2 trades (HC and T&E) are dissatisfied.

According to ANOVA table 5.16, the F value is 14.405 and the corresponding p value is 0.000, which is lower than 0.05 at 5% level of significance. Thus it can be concluded that there is a significant difference between the group of students from different trades and the instructors for internship and at training places. A major difference was found with the students from HC and T&E trades where most of the students are not satisfied with the instructor for internship/training.

5.5.5.9 Theory teaching in the class.

The attitude of the students from different trades (table 5.15) towards theory teaching in the class is good i.e. IT (100%), AET (57.9%) ISR (100%), CT (50.0%), MREEA (40.0%), MCA (50.0%),MFS (72.7%), ELTR (50.0%), COPA (52.9%), EM (75.0%), CA (50.0%), ARM (100%), BTCN (57.1%), ED (83.3%), SG (95.2%), T&E (95.2%), WLDR (100%), FTR (50.0%), ELTR (66.7%), LA (100%), PLBR (100%), CNC (50.0%), AGRI (90.0%) and ST (80.0%) whereas students from HC (100%) AM (60.0%), CRM (45.5%), OSS (60.0%), CGDM (72.2%), AA (80.0%), PLBR (54.2%), WLDR (87.5%), FTR (78.3%), DM (60.0%), HM (88.2%), BA (80.0%), DTPO (100%), HN (100%), DM (66.7%) and T&FP (70.0%) claimed to be excellent while EM (66.7%) said to be satisfactory. It means that the attitude of the students with respect to theory teaching from different trades is satisfactory (25 trades out of 41 trades) and highly satisfactory (16 trades) while students of EM is only dissatisfactory.

The *ANOVA* table 5.16 shows that the F value is 8.065 and the corresponding *p* value of significance is 0.000 which is less than 0.05 at 5% level of significance. It means that there is a significant difference in the attitude of the students from different trades towards theory taught in the institutions for various courses. A difference is noticed where most of the students from most of the trades are satisfied and some are highly satisfied except students from one trade (EM) are not satisfied.

5.5.5.10 Practical training in the institutions

It is observed that majority students (table 5.15) from different trades claimed to be excellent i.e. IT (94.1%), HC (100%), OSS (93.3%), AET (73.3%), CGDM (77.8%), ISR (50.0%), CT (70.0%), ELTR (62.5%), COPA (55.6%), PLBR (66.7%), WLDR (87.5%), FTR (82.6%), DM (70.0%), HM (100%), EM (50.0%), CA (70.0%), BA (60.0%), DTPO (100%), HN (100%), ARM (77.8%), BTCN (100%), T&E (52.4%), FTR (100%), CNC (100%) and T&FP (80.0%) whereas students from AM (60.0%), AA (60.0%), MREEA (75.0%), MCA (62.5%), ED (75.0%), SG (76.2%), WLDR (100%), DM (66.7%), ELTR (66.7%), LA (100%), EM (66.7%), PLBR (50.0%), AGRI (60.0%) and ST (90.0%) expressed good while students of MFS (72.7%) and CRM (36.4%) claimed as satisfactory and poor respectively with regards to practical training. It means attitude of majority of the students from different trades (26 out of 41 trades) is highly satisfactory whereas students of 14 trades are satisfactory except students of CRM were dissatisfied with the practical training provided by the institutions for different trades.

According to ANOVA table 5.16, the F value is 9.204 and the corresponding p value is 0.000 which is lower than 0.05 at 5% level of significance. It is can be concluded that there is a significant difference between attitudes of the students of different trades with respect to practical training provided by the institutions. It shows that majority of the students from most of the trades are highly satisfied whereas other students are satisfied except students of CRM trades.

5.5.5.11 Syllabus framed for the course

Table 5.15 shows that majority of the students from different trades said good are 100% of IT, 100% of HC and 55.6% of CRM, 73.3% of OSS, 42.1% of AET, 38.9% of CGDM, 80.0% of AA, 36.8% of CT, 63.2% of MREEA, 54.5% of MFS, 85.7% of ELTR, 77.8% of COPA, 63.6% of PLBR, 54.5% of FTR, 78.9% of DM, 75.0% of HM, 100% of EM, 66.7% of CA, 100% of ARM, 100% of BTCN, 91.7% of ED, 57.1% of SG, 52.4% of T&E, 66.7% of WLDR, 50.0% of FTR, 66.7% of DM, 83.3% of ELTR, 100% of LA, 100% of PLBR, 75.0% of CNC, 90.0% of AGRIT and 80.0% of ST, whereas students claimed to be excellent are 80.0% of AM, 66.7% of WLDR, 60.0% of BA, 90.0% of DTPO, 100% of HN and 60.0% of T&FP while students stated satisfactory are 45.5% of ISR, 54.2% of MCA and 66.7% of EM. It shows that attitude of students from different trades with respect to syllabus framed for the course by the concern authority is satisfactory and highly satisfactory i.e. out of 41 trades, 35 trades and 6 trades respectively.

According to ANOVA table 5.16, the F value is 6.011 and the corresponding p value is 0.000, which is smaller than 0.05 at 5% level of significance. Thus it can be concluded that there exists a significant difference between the attitudes of the students towards syllabus framed by the concern authority. The difference is found in-between the students who are satisfied and highly satisfied.

5.5.5.12 Curriculum of the course

Table 5.15 shows the student's attitude towards curriculum where the majority of the students said good i.e. 100% of IT, 100% of HC and 60.0% of AM, 36.4% of CRM, 85.7% of OSS, 66.7% of AET and 70.6% of CGDM, 41.7% of ISR, 55.0% of CT, 73.7% of MREEA, 54.2% of MCA, 63.6% of MFS, 60.0% of COPA, 57.1% of PLBR, 60.0% of FTR, 63.2% of DM, 58.8% of HM, 100% of EM, 90.0% of CA, 100% of ARM, 91.7% of

ED, 81.0% of SG, 61.9% of T&E, 66.7% of WLDR, 100% of FTR, 100% of DM, 83.3% of ELTR, 100% of LA, 66.7% of EM, 100% of PLBR, 75.0% of CNC, 90.0% of AGRIT, 70.0% of ST and 80.0% of T&FP whereas students of trades such as 60.0% of AA, 71.4% of ELTR, 56.2% of WLDR, 70.0% of BA, 90.0% of DTPO, 100% of HN and 100% of BTCN claimed as excellent. It means that majority of the students from different trades are satisfied and highly satisfied with regards to curriculum framed by the authority for the course

According to ANOVA table 5.16, the F value is 5.999 and the corresponding p value is 0.000, which is less than 0.05 at 5% level of significance. It means that there is a significant difference between the attitude of students from different trades and the curriculum framed by the concern authority. A difference was found among the students where the most of the students from different trades are more satisfied as well as highly satisfied.

To sum up the attitude of ongoing students on the basis of trades, the data was analyzed with the help of The **One way ANOVA** Table which shows that p value is less than 0.05 at 5% level of significance for all the attributes tested above. It means that there exists a significant difference between the attitudes of ongoing students from different trades with regards to all the 12 attributes tested. Even though there is significant difference in the opinion of the ongoing students, the difference is positive in nature and not negative. The result shows that ongoing students are satisfied with respect to classrooms in the institutions, library facility available in the institutions, teaching aids used by faculty, infrastructure facility, on-the job training/ internship, latest tools and equipments, trainers/faculty of the course, instructors for internship, theory teaching in the class, practical training in the institutions, syllabus farmed by the concerned authority and the overall curriculum of the authority. So the attitude of respondents from different trades shows that there exist difference between the groups in their attitude towards facilities available in the institutions and curriculum framed by the authority for all the statements tested above under one way ANOVA test but the students shows satisfactory and positive attitude, thus the null hypothesis is rejected.

5.5 Conclusion:

Table No: 5.17 Table showing a brief summary of attitude of On-going students

Aspects of facilities available and curriculum tested based on the Objective	Gender	District	Taluka	Stream	Trades
Attitude of ongoing students	Accepted	Accepted	Rejected	rejected	Rejected
1) Class rooms	.817	.103	.000	.000	.000
2) Library facility	.115	.008	.000	.000	.000
3) Teaching aids	.072	.404	.030	.000	.000
4) Infrastructure facilities	.007	.803	.194	.000	.000
5) On the job training/ internship	.012	.444	.000	.000	.000
6) Latest tools and equipments.	.010	.160	.045	.000	.000
7) Trainers/ Faculties of the Course	.000	.018	.033	.000	.000
8) Instructors for internship/training places	.035	.417	.000	.000	.000
9) Theory teaching in the class	.617	.848	.007	.000	.000
10) Practical training in the institutions	.780	.280	.119	.000	.000
11) Syllabus framed for the course	.148	.010	.000	.000	.000
12) Overall Curriculum of the course	.241	.649	.016	.000	.000

With the help of above table (5.17) and the hypothesis formed, it can be conclude that the ongoing students are not happy and shown significant difference in most of the cases tested above about the facilities available in the institutions and curriculum framed in the state of Goa. Between the Male and the Female, they do not differ much in their attitude for various facilities available and the curriculum in most of the attributes tested except in case of *five* attribute there a significant difference is noticed and they are the female students who are more satisfied than the male students. Further, with regard to North and South ongoing students, they do not differ in their attitude in most of the attributes tested except in case of three attributes there was a significant difference between the rural and urban respondents and they were the North students are more satisfied with the facilities available and curriculum framed in the state of Goa. The attitude of ongoing students from different taluka reveals that there is a significant difference in most of the attributes tested except few attributes shows no difference in their attitude. Between ongoing students from different streams, there exist a high difference in their attitude in all the attributes tested as well as Trades towards facilities available in the institutions and curriculum framed by the authority. Thus based upon the above brief important findings, we can conclude that, "attitude of ongoing students towards facilities available and curriculum is significantly different and unsatisfactory". It means the attitude of ongoing students shows that they are not happy towards facilities available and curriculum and curriculum framed by the authority. So the null hypothesis is rejected and alternate hypothesis is accepted. The ongoing students in general are not satisfied and unhappy with facilities offered and curriculum whereby a difference is seen in their attitude from various talukaswise, streamwise and tradewise towards facilities available in the institutions and the curriculum framed in the state of Goa.

The chapter covers a detailed data analysis and interpretation of selected sample respondents. The researcher has covered sample of ongoing Students (Present student). There are questions covered by the researcher which asked during the field work. The researcher has included profile and introductory of the skill development programmes which helped to make a detailed study. The researcher has also covered hypothesis testing of the related sample respondents. The skill development programmes which provide training through various institutions to the students of SSC is of much good to the students. The results of the collected data show that the students are benefited through the skill development programmes.

6.1 Introduction:

In order to evaluate the contribution of Skill Development Programmes in Goa, it was also important to know the views and the impact of skill courses on the past students for getting employed. To assess the contribution of skill development programmes to the Goa's economic development in terms of providing employment and to make students self employed by making students independent it was a need to find the status of past students. Hence, past students from 10 different streams were considered and the survey was conducted to analyze and draw findings out of it. A close questionnaire was prepared and circulated to the past students to get their feedback. The responses of past students were collected from 10 different streams and 624 students, they are High School (33 students), vocational studies (173 students), UNID (25 students), ITI (157 students), HRDFS (67 students), EDP (8 students), GHRDC (24 trainees), TRCPC (38 trainees), ApprT (38 trainees) and OITSG (60 trainees). The main objective behind collecting data from past students to know the impact of skill development programmes on employment and self employment. They are the past student who only can tell and give exact scenario of whether they are employed or not by which we can make whether the courses are worthy to get the job. The various courses were considered such as NSQF stream 4 courses they are IT, Healthcare, Automobile and retail, 9 courses from vocational studies they are CRM, OSS, Auto Engineering Technology, Commercial Garments, Insurance, Auditing and Accounting, marketing and salesmanship, complete technologies and travel and Tourism, 2 departments from University such as Master of Financial Services (MFS) and Master of Computer Applications (MCA), 8 courses from ITI i.e. Electrician, COPA, plumber, welder, fitter, diesel mechanic, hotel management and electronics, 6 courses from HRDFS namely computer application, Business Application, DTP, Home Nursing, Air condition/ refrigerator and beauticians, 1 course of EDP, 1 course of GHRSDC i.e. security guards, 1 course under Trcpc i.e. tailoring and embroidering, 8 courses of Apprenticeship Training such as diesel mechanic, welder, electrician, lab assistant, CNC operator, PLC operator, Hotel Management and fitter whereas 3 courses from OITSG they are agriculture, animal husbandry and urban development. So, all together 43 courses from different streams were selected to gather information of Skill Development Programmes and to check the amount of impact on the employment and social economy. It would give a clear picture about the number of students employed, self employed or pursuing higher education after completion of their courses and also whether they are unemployed.

6.2 Analysis

The analysis and interpretation of the various opinions given by the various respondents which were collected from the past students are shown in the form of tables below.

6.2.1 Social profile

The below tables shows the social profile of the respondents surveyed for the research on the basis of gender, district and taluka wise.

Table 6.1: Table showing Past students (Gender)

Sr No	Institution	Pa	Particulars				
		Male	Female				
1	HS (NSQF)	18 (54.5%)	15 (45.5%)	33 (100%)			
2	HSS (VOC)	82 (47.4%)	91 (52.6%)	173 (100%)			
3	UNID	11 (44.0%)	14 (56.0%)	25 (100%)			
4	ITI	149 (94.9%)	8 (5.1%)	157 (100%)			
5	HRDFS	26 (38.8%)	41 (61.2%)	67 (100%)			
6	EDP	0 (0.0%)	8 (100%)	8 (100%)			
7	GHRSDC	18 (72.0%)	7 (28.0%)	25 (100%)			
8	TrCPC	0 (0.0%)	38 (100%)	38 (100%)			
9	ApprT	31 (81.6%)	7 (18.4%)	38 (100%)			
10	OITSG	19 (31.7%)	41 (68.3%)	60 (100%)			
OTAL		354 (56.7%)	270 (43.3%)	624 (100%)			

Table 6.1 highlights the data of the number of past students collected (gender wise) from the state of Goa. Most of the respondents are males (56.7%) and the minority (43.3%) of the past students is females. Most of HS, ITI, GHRDC, ApprT i.e.54.5%, 94.9%, 72.0%, 81.6% are males while majority of the students from vocational, UNID, HRDFS, EDP, TrCPC, and OITSG i.e. 52.6%, 56.0% 61.2%, 100%, 100% and 68.3% are dominated by females. It can be seen from the above table that the students at lower level i.e. in the schools are dominated by males but as it reaches to higher level of education the trend of male students is lower than females. It makes clear that females are dominating males as it goes upward for higher education. The trainees for EDP, TrCPC streams female students are 100% who take admission for the course.

Table 6.2: Table showing Past students (District)

Sr No	Institution	Partic	culars	Total
		North	South	
1	HS (NSQF)	16 (48.5%)	17 (51.5%)	33 (100%)
2	HSS (Voc)	132 (76.3%)	41 (23.7%)	173 (100%)
3	UNID	17 (68.0%)	8 (32.0%)	25 (100%)
4	ITI	89 (56.7%)	68 (43.3%)	157 (100%)
5	HRDFS	47 (70.1%)	20 (29.9%)	67 (100%)
6	EDP	7 (87.5%)	1 (12.5%)	8 (100%)
7	GHRSDC	25 (100%)	0 (0.0%)	25 (100%)
8	TrCPC	36 (94.7%)	2 (5.3%)	38 (100%)
9	AprT	36 (94.7%)	2 (5.3%)	38 (100%)
10	OITSG	29 (48.3%)	31 (51.7%)	60 (100%)
TOTAL		434 (69.6%)	190 (30.4%)	624 (100%)

The majority of the past students (table 6.2) were collected from North District (69.6%) as compared to South District (30.4%). In case of NSQF (51.5%) and OITSG (51.7%), majority of the respondents are from South district whereas in case of other streams such as Vocational, UNID, ITI, HRDFS, EDP, TrCPC, ApprT i.e. 76.3%, 68.0%, 56.7%, 70.1%, 87.5%, 94.7%, 94.7% respectively and 100% of GHRSDC students are from North District. It is noticed that most of the institutions in Goa are located in North District as compared to South District due to which majority of the students considered for survey are from North district. The numbers of respondents collected are based on multistage random sampling method for the research. In case of UNID there is only one University in Goa which is located in the North District for which most of the students are collected from nearby area of the North district.

Table 6.3: Table showing Past students (Taluka)

Sr No	Particu- lars	HS- NSQF (%)	HSS- Voc (%)	UNID (%)	ITI (%)	HRDFS (%)	EDP (%)	GHRS DC (%)	TrC-PC (%)	AprT (%)	OITSG (%)	TOT (%)
1	Pernem	16 (48.5)	39 (22.5)	1 (4.0)	27 (17.2)	13 (19.4)	2 (25.0)	6 (24.0)	14 (36.8)	15 (39.5)	20 (33.3)	153 (24.5)
2	Bardez	=	2 (1.2)	13 (52.0)	2 (1.3)	9 (13.3)	4 (50.0)	2 (8.0)	1 (2.6)	9 (23.6)	3 (5.0)	45 (7.2)
3	Tiswadi	-	91 (52.6)	3 (12.0)	40 (25.5)	25 (37.3)	2 (25.0)	-	10 (26.4)	8 (21.1)	3 (5.0)	182 (29.2)
4	Bicholim	=	=	1 (4.0)	=	=	-	2 (8.0)	=	(5.3)	-	5 (0.8)
5	Sattari	-	-	-	-	-	-	14 (56.0)	-	-	-	14 (2.2)
6	Ponda	-	-	2 (8)	10 (6.4)	1 (1.5)	-	-	11 (28.9)	1 (2.6)	-	25 (4.0)
7	Salcete	-	6 (3.5)	4 (16.0)	44 (28)	7 (10.5)	-	-	2 (5.3)	1 (2.6)	28 (46.7)	92 (14.7)
8	Quepem	-	-	-	3 (1.9)	-	-	-	-	-	-	3 (0.5)
9	Mormugao	17 (54.5)	35 (20.2)	1 (4.0)	30 (19.1)	5 (7.5)	-	1 (4.0)	-	2 (5.3)	6 (10.0)	97 (15.6)
10	Sanguem	-	-	-	-	7 (10.5)	-	-	-	-	-	7 (1.1)
11	Dharban-dora	-	-	-	1 (0.6)	-	-	-	-	-	-	1 (0.2)
12	Canacona	-	-	-	-	-	-	-	-	-	-	-
13	Total	33 (100)	173 (100)	25 (100)	157 (100)	67 (100)	8 (100)	25 (100)	38 (100)	38 (100)	60 (100)	624 (100)

(Source: Field Work)

Table No.6.3 reveals the different Taluka from which past students were collected for the purpose of gathering information of skill development programmes in Goa. Most of the students were collected from Tiswadi Taluka (29.2%) out of the 12 Talukas followed by Pernem 24.5%, Mormugao 15.6%, Salcete 14.7%, Bardez 7.2%, Ponda 4.0%, Sattari 2.2%, Sanguem 1.1%, Bicholim 0.8%, Quepem 0.5%, and Dharbandora 0.2%.

The stream wise past students considered for the study are NSQF students were collected from only two Talukas i.e. Pernem and Mormugao (48.5% and 54.5%) respectively. For Vocational studies five talukas were taken for the study i.e. Pernem, Bardez, Tiswadi, Salcete and Mormugao. Most of the respondents from Vocational studies are from Tiswadi i.e. 52.6% followed by Pernem Taluka i.e. 22.5% Mormugao 20.2%, Salcete 3.5% and Bardez 1.2%. The UNID students were surveyed from seven talukas whereby majority of the students i.e. 52% were collected from Bardez Taluka followed by 16% from Salcete, 12% from Tiswadi, 8% from Ponda and remaining 4% each from Pernem, Bicholim and Mormugao. The ITI students were considered from eight different talukas and the majority of the students were from Salcete i.e. 28.0% followed by Tiswadi (25.5%), Mormugao (19.1%), Pernem (17.2%) and so on. The HRDFS students were collected from 7 Talukas and most of them were from Tiswadi (37.3%) and the rest from Pernem (19.4%), Bardez (13.3%), Sanguem (10.5%), Salcete (10.5), etc. EDP trainees were surveyed from only 3 talukas namely Bardez (50%), Pernem and Tiswadi 25% each. The GHRSDC trainees were considered for study from 5 talukas whereby majority of the trainees were from Sattari taluka (56%) followed by Pernem (24.0%), Bardez and Bicholim (8.0%) each and Mormugao (4.0%). So also TrCPC trainees were collected from 5 different talukas and majority were from Pernem (36.8%), Ponda (28.9%), Tiswadi (26.4%), etc. The Apprenticeship trainees were considered from 7 talukas namely Pernem (39.5%), Bardez (23.6%), Tiswadi (21.1%) and few students from Bicholim, Ponda, Salcete and Mormugao. The majority of OITSG trainees were collected from Salcete (46.7%) followed by Pernem (33.3%), Mormugao (10.0%) while Bardez and Tiswadi (5.0%) each.

The above table shows that out of the 12 talukas in Goa, 11 talukas were considered for the survey except Canacona. Majority of the past students collected from different talukas were Mormugao taluka for NSQF, Tiswadi Taluka for Vocational students, UNID students from Bardez Taluka, ITI students from salcete taluka, HRDFS from Tiswadi Taluka, EDP trainees from Bardez taluka, GHRSDC trainees from Sattari taluka, TrCPC trainees from Pernem taluka, Apprentices trainees from Pernem taluka and OITSG trainees from Salcete taluka. The overall result of the past students from different talukas shows that most of the students surveyed are from Tiswadi taluka.

6.2.2 Waiting period for getting job or self employment after completion of course

Table 6.4 depicts the time taken by the students to get their first job or to start their own business. The researcher has made an attempt to find out whether students have joined "soon after" the course. "6 months" "1 year", "2 years" and "3 years" to get their first job after completion of the course.

Table 6.4: Table showing waiting period for getting employed

Sr	Course		Particulars						
No		6 months	1 Year	2 Year	3 Year				
A. N	SQF								
1	IT	-	-	-	-	(0)			
2	HealthCare	-	-	-	-	(0)			
3	Automobile	-	-	-	-	(0)			
4	Retail	-	-	-	-	(0)			
5	Total	-	-	-	-	(0)			
B.Vo	c								
1	Catering	7(100)	-	-	-	7(100)			
2	OSS	6(50.0)	5(41.7)	1(8.3)	-	12(100)			
3	Automobile Eng.	4(44.4)	4(44.4)	1(11.2)	-	9(100)			
4	CGDM	3(75.0)	1(25.0)		-	4(100)			
5	Insurance	7(41.2)	7(41.2)	3(17.6)	-	17(100)			
6	Ac and Auditing	-	2(100)	-	-	2(100)			
7	Marketing, Salesmanship	-	3(100)	-	-	3(100)			
8	Computer Techniques	8(66.6)	2(16.7)	2(16.7)	-	12(100)			
9	Travel Tourism	4(80.0)	-	1(20.0)	-	5(100)			
10	Total	39(54.9)	24(33.8)	8(11.3)	-	71(100)			
C. U		21 (3 31)	(/	- ()	I	(/			
1	MCA	13(100)	-	-	-	13(100)			
2	MFS	8(70.0)	3(30.0)	-	-	11(100)			
3	Total	21(87.5)	3(12.5)	-	-	24(100)			
D. I'I		, ,	, ,						
1	Electrician	11(73.3)	3(20)	1(6.7)	-	15(100)			
2	COPA	6(85.7)	1(14.3)	-	=	7(100)			
3	Plumber	26(76.5)	8(23.5)	-	-	34(100)			
4	COE	7(77.8)	1(11.1)	1(11.1)	-	9(100)			
5	Fitter	10(83.3)	2(16.7)	-	-	12(100)			
6	Diesel Mechanic	4(66.7)	2(33.3)	-	-	6(100)			
7	Hotel Management	18(72.0)	7(28.0)	-	-	25(100)			
8	Electronic Mechanic	2(25.0)	2(25.0)	4(50.0)	_	8(100)			
9	Total	84(72.4)	26(22.4)	6(5.2)	-	116(100			
	RDFS	3 3 (1 = 7 3)	_= (==++)	- (- :-)	l				
1	Comp App	-	-	-	-	(0)			
2	Business App	3(75.0)	1(25.0)	-	-	4(100)			
3	DTP	10(76.9)	3(23.1)	-	-	13(100)			
4	Home Nursing	3(50.0)	2(33.3)	1(16.7)	-	6(100)			
5	Refrigeration	2(40.0)	3(60.0)	-	-	5(100)			
6	Beautician	3(75.0)	1(25.0)	_	-	4(100)			
7	Total	21(65.6)	10(31.3)	1(3.1)	-	32(100)			
ř. El		(000)	_=(==;	_(3•2)	l	(200)			
1	EDP	7(87.5)	1(12.5)	-	-	8(100)			
2	Total	7(87.5)	1(12.5)	-	-	8(100)			

G. G	HRDC					
1	GHRSD	25(100)	-	-	II	25(100)
2	Total	25(100)	-	-	-	25(100)
H. T	rCPC					
1	Tailoring, Embroidery	12(63.2)	7(36.8)	-	-	19(100)
2	Total	12(63.2)	7(36.8)	-	-	19(100)
I. Ap	prT					
1	Diesel Mech.	1(100)	-	-	ı	1(100)
2	Welder	3(75.0)	1(25.0)	-	ı	4(100)
3	Electricals	5(100)	-	-	ı	5(100)
4	Lab Asst.	2(100)	-	-	ı	2(100)
5	CNC	5(62.5)	3(37.5)	-	ı	8(100)
6	PLC	2(100)	-	-	ı	2(100)
7	Hotel Management	3(75.0)	1(25.0)	-	ı	4(100)
8	Fitter	2(100)	-	-	ı	2(100)
9	Total	23(82.1)	5(17.9)	-	•	28(100)
J. Ol	TSG					
1	Agriculture	16(84.2)	3(15.8)	-	ı	19(100)
2	Animal Husbandry	5(55.6)	4(44.4)	-	-	9(100)
3	Urban Development	8(72.7)	2(18.2)	1(9.1)	1	11(100)
4	Total	29(74.3)	9(23.1)	1(2.6)	•	39(100)
Grar	nd Total	261(72.1)	85(23.5)	16(4.4)	-	362(100)

(Source: Field Work)

The above table 6.4 shows that most of the past students (72.1%) got job within 6 months followed by 1 year (23.5%) and the rest within 2 years (4.4%). There were no NSQF students who joined for employment or self employment so no students responded for above question. The vocational students disclosed that majority of them took 6 months i.e. 54.9% to get their first job where some other students revealed that they took 1 year i.e. 33.8% and remaining students said they had to wait 2 years i.e. 11.3% to get their first job. It can be also observed that students who received first job within 6 months from vocational studies are Insurance 41.2% computer techniques 66.6% and travel and tourism 80%. Majority of students received within one year are from A/c and auditing, marketing and salesmanship i.e. 100% each. Maximum number of students from UNID have received their first job within six months i.e. 87.5% and rest of the students took one year i.e. 12.5%. Of the UNID students, MCA students got their job 100% within six months and majority of MFS students i.e. 70% received within six months and rest 30% got jobs after one year. It shows that most of the ITI students got jobs within 6 months of time period i.e. 72.4% and 1 year i.e. 22.4% and few said 2 years i.e. 5.2%. Majority of the students except electronic mechanic (25%) had not got job within 6 months or 1 year, and the rest i.e. 5.2% have got job within 2 years. In case of HRDFS students most of them were employed within six months i.e. 65.6% and rest within 1 year and 2 years i.e. 31.3% and 3.1%. Only one student from home nursing got delayed for getting job within short time, due to her personal problem. Students from DTP i.e. 76.9%, business

application and beautician i.e. 75% each got jobs within 6 months while most of refrigerator and home nursing i.e. 60% and 33.3% respectively got job within 1 year. Majority of EDP trainees got job within six months i.e. 87.5% while only one trainee i.e. 12.5% within 1 year. 100% of GHRDC trainees were employed within 6 months. Most of the TrCPC trainees i.e. 63.2% got job within 6 months and rest 36.8% within 1 year. In case of Apprenticeship training, most of the trainees have got job within 6 months i.e. 82.1% and only 17.9% within 1 year who are mostly from CNC course. The OITSG trainees also joined for the job within 6 months i.e. 74.3% while remaining 23.1% and 2.6% within 1 year and 2 years respectively.

It can be interpreted that most of the students from all the streams are employed within six months of period and 100% in GHRSDC after the completion of course either in the form of full time or part time self employment or job employment basis. It is observed that whether students are from vocational studies, UNID have been employed or self employed within six months, it means the students who have opted for skill courses are in a position to get job or to start their own business within a short period of time. The employers are willing to absorb skill students for the job which shows that there is a requirement of skill workers in the industry as well as in the market. A good number of students have joined for employment within one year which means students must be waiting for some better opportunity whereby they did not joined for the job but as soon as they found satisfactory job they joined within one year and the remaining few students from vocational studies have to wait for 2 years and none from UNID. The students who did not get job had to wait for 3 years of time period from different streams. There were no students from NSQF stream joined for job whereas most of vocational students from catering, OSS, automobile, CGDM, Insurance, Computer techniques and travel and tourism have received employment within 6 months period except A/c and auditing, marketing and salesmanship course students had to wait for 1 year to get employment. It means of the 9 courses 7 courses students get job very fast i.e. within 6 months. The UNID students got jobs within six months. MCA department students receive jobs faster than MFS course. It shows that all 100% students of MCA got job within six months compared to MFS students. It is observed that most of the ITI students as well HRDFS students are employed within six months or at the most 1 year they are mostly from COPA, fitter, COE, electrician etc except electronic mechanic which shows that they took 2 years to get employment. It means that for electronic mechanic jobs are unavailable in the market and there is no demand for such student in the market whereas

for students from other courses they are absorbed for the job easily and quickly within six months. Hence all courses except electronic mechanic students need to struggle to get jobs while other students from other courses get jobs in the market. The HRDFS students from different courses also get jobs within 6 months and 1 year who are mostly DTP, business application, beatification etc. except computer application students. It reveals that all HRDFS courses are good enough to provide jobs for the students. The computer application students have mostly joined for higher education and they are not interested in joining for the job. They prefer to acquire further education by taking admission for other courses wherever similar subject is available. Most of the students are found employed within one year except one student from Home nursing. Trainees from EDP, Trcpc, ApprT and OITSG have been mostly employed within 6 months of time and very few of them joined within a year whereby no trainees have waited for more than 1 year to get the job. It shows that students who have joined for job employment or self employment did not spend much more time from the completion of their course which means there are lot of opportunities for the trainees who undergo such courses to get employed or to start their own business. GHRDC trainees disclosed that they are being deployed for the job soon after completing their training or at the most within 6 months since their vacancies are created before training and then they are trained for a particular job. Most of the trainees of ApprT who were employed after six months and within 1 year are CNC apprenticeship. Trainees of OITSG from agriculture are mostly absorbed on the job as compared to animal husbandry and urban development within 6 months of training and only one trainee employed after 1 year while rest of the trainees from other training courses were employed within a period of 1 year.

6.2.3 Satisfaction about your present job

In table 6.5 A to J, the researcher has made an attempt to find the level of satisfaction of the candidates on-the job wherever they do their job. Students who were employed were asked to rank their satisfaction about the job. The main intention behind this was to see whether students are satisfied about the present employment or self-employment they are in. The researcher has used the 5 point likert scale from highly dissatisfied to highly satisfied.

Table 6.5: Table showing satisfaction about your present job

Sr	Course		- I	Particulars			Total
No		Highly Dissatisfied	Dissatisfied	Neutral	Satisfied	Highly Satisfied	
A.NS							
1	IT	_	-	-	-	_	(0)
2	HealthCare	-		-	_	-	(0)
3	Automobile	-		-	<u>-</u> -	-	(0)
4	Retail	-	-	-	-	-	(0)
5	Total	-	-	-	-	-	(0)
B. V		Т	T			T	1
1	Catering	-	-	-	6(85.7)	1(14.3)	7(100)
2	OSS	-	-	5(38.5)	3(23.0)	5(38.5)	13(100)
3	Automobile Eng.	1(11.1)	-	2(20.0)	4(40.0)	3(30.0)	10(100)
4	CGDM	-	-	1(20.0)	4(80.0)	-	5(100)
5	Insurance	-	-	7(41.2)	8(47.1)	2(11.7)	17(100)
6	Ac, Auditing	-	-	-	2(100)	-	2(100)
7	Marketing, Salesmanship	-	-	-	4(100)	-	4(100)
8	Computer Techniques	-	-	5-(41.7)	6(50.0)	1(8.3)	12(100)
9	Travel Tourism	-	-	3(60.0)	2(40.0)	-	5(100)
10	Total	1(1.3)	-	23(30.7)	39(52.0)	12(16)	75(100)
C. U		_	T				1
1	MCA	-	-	-	13(92.9)	1(7.1)	14(100)
2	MFS	-	-	-	9(90.0)	1(10.0)	10(100)
3	Total	-	-	-	22(91.7)	2(8.3)	24(100)
D. I'l		T	T				ı
1	Electrician	1(6.7)	-	4(26.7)	7(46.6)	3(20.0)	15(100)
2	COPA	-	3(42.9)	1(14.2)	3(42.9)		7(100)
3	Plumber	-	1(2.9)	4(11.8)	22(64.7)	7(20.6)	34(100)
4	COE	-	-	2(22.2)	7(77.8)	-	9(100)
5	Fitter	-	1(8.3)	2(16.7)	7(58.3)	2(16.7)	12(100)
6	Diesel Mechanic	- 1(4)	2(33.3)	1(16.7)	3(50.0)	- 2(0)	6(100)
7	Hotel Management	1(4)	1(12.5)	6(24)	16(64.0)	2(8)	25(100)
8	Electronic mechanic	2(1.7)	1(12.5)	2(25.0)	3(37.5)	2(25.0)	8(1000
9 E II	Total RDFS	2(1.7)	8(6.9)	22(19.0)	68(58.6)	16(13.8)	116(100)
E. H	Comp App	1	I				0
2	Business App	-	-	2(40.0)	3(60.0)	-	5(100)
3	DTP	-	-	2(40.0)	5(45.5)	4(36.4)	11(100)
4	Home Nursing	_	-	2(10.2)	3(43.3)	10(100)	10(100)
5	Refrigeration		-	1(20.0)	4(80.0)		5(100)
6	Beautician	_	-	1(25.0)	3(75.0)	<u>-</u>	4(100)
7	Total	_	_	6(17.1)	15(42.9)	14(40)	35(100)
F. El		ı	I	U(11.1)	10(7#0 <i>)</i>)	11(TU)	_ <i>55</i> (100)
1	EDP	_	1(12.5)	1(12.5)	5(62.5)	1(12.5)	8(100)
2	Total	_	1(12.5)	1(12.5)	5(62.5)	1(12.5)	8(100)
		1	_(-()	_(- ()	_()	- (= • •)
	HRDC	T	10/10 0	0 (0.5.0)	T 7/20 00 1		0.5/4.000
1	GHRSD	-	10(40.0)	8(32.0)	7(28.0)	-	25(100)
2	Total	-	10(40.0)	8(32.0)	7(28.0)	-	25(100)
	rCPC	1	T		15/50 00	0/10 =:	10/100
1	Tailoring Embroidery	-	-	2(10.5)	15(79.0)	2(10.5)	19(100)
2	Total	-	-	2(10.5)	15(79.0)	2(10.5)	19(100)

I. Ap	prT						
1	Diesel Mech.	-	1(100)	-	-	-	1(100)
2	Welder	-	-	1(25.0)	3(75.0)	-	4(100)
3	Electricals	-	-	-	5(100)	-	5(100)
4	Lab Asst.	-	-	1(50.0)	1(50.0)	-	2(1000
5	CNC	-	-	1(12.5)	7(87.5)	-	8(100)
6	PLC	-	-	1(50.0)	1(50.0)	-	2(1000
7	Hotel Mang.	1(25.0)	-	-	3(75.0)	-	4(100)
8	Fitter	-	-	1(50.0)	1(50.0)	-	2(1000
9	Total	1(3.6)	1(3.6)	5(17.8)	21(75.0)	-	28(100)
J. 01	TSG						
1	Agriculture	-	-	19(100)	-	-	19(100)
2	Animal Husbandry	-	1(9.1)	3(27.3)	7(63.6)	ı	11(100)
3	Urban Development	-	-	5(41.7)	6(50.0)	1(8.3)	12(100)
4	Total	-	1(2.4)	27(64.3)	13(30.9)	1(2.4)	42(100)
Gran	nd Total	4(1.1)	21(5.6)	94(25.3)	205(55.1)	48(12.9)	372(100)

(Source: Field Work)

It can be seen from table 6.5 that most of the students were satisfied i.e.55.1% and highly satisfied i.e.12.9% whereas the remaining some of the students were neutral i.e. 25.3% while dissatisfied and highly dissatisfied were very negligible i.e 5.6% and 1.1% respectively. No students from NSQF had joined for the job so no students responded to the question whereas it is observed from the vocational students that majority of the students i.e. 52.0% and 16.0% were satisfied and highly satisfied respectively, few students were neutral i.e. 30.7% and very tiny number of students i.e. 1.3% were highly dissatisfied and none were dissatisfied about their jobs. Students from catering, A/c and auditing, marketing and salesmanship are 100% satisfied and highly satisfied. most of the students who neutral are from travel and tourism i.e. 60% none of the students from any course were dissatisfied but only one student from automobile was highly dissatisfied about his job. Most of the UNID students were satisfied i.e. 91.7% and remaining 8.3% were highly satisfied and none of the students were dissatisfied about the job they carry out. Majority of TIT students revealed that 58.6% and 13.8% are satisfied and highly satisfied whereas 19.0% were neutral while 6.9% and 1.7% were dissatisfied and highly dissatisfied about job they work on. Students who are dissatisfied are COPA and diesel mechanic whereas satisfied students are COE, hotel management, plumber, etc but highly satisfied are electronic mechanic, plumber and electrician. Most of the HRDFS students are satisfied i.e. 42.9% and 40% are highly satisfied and rest 17.1% were neutral. The students of home nursing are highly satisfied while most of the refrigerator students are satisfied followed by beautician, business application and DTP while none of them were dissatisfied. Majority of the EDP trainees are satisfied about whatever job they do after completing their course either self employed or employed for job i.e. 75% whereby

12.5% each were dissatisfied and neutral. In case of GHRSDC majority i.e. 40% of them said they were dissatisfied about the job while 32% were neutral and only 28% was satisfied. In case of TrCPC most of them were satisfied and highly satisfied i.e. 89.5% and remaining 10.5% were neutral. The Apprenticeship trainees said that they were satisfied i.e. 75.0%, while remaining 17.8% were neutral and 7.2% only were dissatisfied and highly dissatisfied about their job. Most of the trainees from electrical and hotel management course were satisfied i.e. 100% and 75.0% respectively whereby dissatisfied trainee was from diesel mechanic. The trainees from OITSG most of them were neutral i.e. 64.3% and remaining 30.9% were satisfied and 2.4% each were highly satisfied and dissatisfied.

It can be interpreted from the above analysis that most of the students from different streams are either satisfied or highly satisfied about the job they are working on except security guards of GHRSDC stream. All students i.e. 100% from catering, A/c and auditing, marketing and salesmanship are highly satisfied about the job whereas most of students from other courses like OSS, automobile, CGDM, insurance and computer techniques are also satisfied for the job except travel and tourism course. Some of the students were neutral whereby they are neither satisfied nor dissatisfied about the job. The UNID students are all satisfied about the job. Majority of the students of ITI, HRDFS are satisfied as well highly satisfied 72.4% and 82.9% respectively. It indicates that those students who have joined for the job after completing ITI and HRDFS courses are satisfied about their job. They like their job and happy to work on the same job. But, few students said that they are dissatisfied about job i.e. 8.6% which are negligible. Among the ITI students of electronic mechanic, plumber are most satisfied even they do some ground level works and dissatisfied are COPA and diesel mechanic. Majority of HRDFS i.e. 82.9% are satisfied while none of the students from any course are dissatisfied.

6.2.4: Present job based on skill courses studied

Table 6.6 depicts the students that were employed were in related to the skill courses they have studied by them. The aim behind asking the students to know whether the employment has any relation or they have joined as they have got the job and is it different from the field of training they have received. An attempt was made to find if the student can eventually take up job other than what they have studied. The respondents responded on the basis of "yes" and "No".

Table 6.6: Table showing present job based on skill courses studied

	Course	Partic	Total	
		Yes	No	
A.NSQI	7	·	·	
1	IT	-	_	(0)
2	HealthCare	_	_	(0)
3	Automobile	_	_	(0)
4	Retail	_	_	(0)
5	Total	_	_	(0)
B. Voc				(0)
1	Catering	7(100)	_	7(100)
2	OSS	10(76.9)	3(23.1)	13(100)
3	Automobile Eng.	4(40.0)	6(60.0)	10(100)
4	CGDM	1(20.0)	4(80.0)	5(100)
5	Insurance	9(52.9)	8(47.1)	17(100)
6	Ac and Auditing	-	2(100)	2(100)
7	Marketing and Salesmanship	4(100)	2(100)	4(100)
8	Computer Techniques	9(75.0)	3(25.0)	12(100)
9	Travel and Tourism	5(100)	-	5(100)
10	Total	49(65.3)	26(34.7)	75(100)
C. UNII	1	17(00.0)	20(5-117)	75(100)
1	MCA	14(100)	-	14(100)
2	MFS	11(100)	-	11(100)
3	Total	25(100)	-	25(100)
D. ITI	Total	23(100)	_	25(100)
υ, 111				
1	Electrician	12(80.0)	3(20.0)	15(100)
2	COPA	2(28.6)	5(71.4)	7(100)
	D1 1	20(00.2)	4/11 0)	24/100)
3	Plumber	30(88.2)	4(11.8)	34(100)
4	COE	7(77.8)	2(22.2)	9(100)
		` '	` '	, ,
4	COE	7(77.8)	2(22.2)	9(100)
5	COE Fitter	7(77.8) 11(91.7)	2(22.2) 1(8.3)	9(100) 12(100)
4 5 6 7 8	COE Fitter Diesel Mechanic	7(77.8) 11(91.7) 5(83.3)	2(22.2) 1(8.3) 1(16.7)	9(100) 12(100) 6(100)
4 5 6 7	COE Fitter Diesel Mechanic Hotel Management	7(77.8) 11(91.7) 5(83.3) 20(80.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0)	9(100) 12(100) 6(100) 25(100)
4 5 6 7 8 9	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0)	9(100) 12(100) 6(100) 25(100) 8(100)
4 5 6 7 8 9	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0)	9(100) 12(100) 6(100) 25(100) 8(100)
4 5 6 7 8 9 E. HRD	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100)
4 5 6 7 8 9 E. HRD	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100)
4 5 6 7 8 9 E. HRD	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100)
4 5 6 7 8 9 E. HRD	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100)
4 5 6 7 8 9 E. HRD	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100) 10(100)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100) 10(100) 2(40.0) 4(100)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5 6 7	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration Beautician	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) 5(100) 11(100) 10(100) 2(40.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8) - - - - 3(60.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100) 4(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5 6 7	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration Beautician Total	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100) 10(100) 2(40.0) 4(100) 32(92.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8) 3(60.0) 3(8.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100) 4(100) 35(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5 6 7	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration Beautician Total EDP	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) 5(100) 11(100) 10(100) 2(40.0) 4(100) 32(92.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8) 3(60.0) - 3(8.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100) 4(100) 35(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5 6 7	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration Beautician Total EDP Total	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100) 10(100) 2(40.0) 4(100) 32(92.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8) 3(60.0) 3(8.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100) 4(100) 35(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5 6 7 F. EDP 1 2	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration Beautician Total EDP Total RDC	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100) 10(100) 2(40.0) 4(100) 32(92.0) 2(25.0) 2(25.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8) 3(60.0) - 3(8.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100) 4(100) 35(100) 8(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5 6 7 F. EDP 1 2	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration Beautician Total EDP Total BDC Security Guards	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100) 2(40.0) 4(100) 32(92.0) 2(25.0) 2(25.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8) 3(60.0) - 3(8.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100) 4(100) 35(100) 8(100) 8(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5 6 7 F. EDP 1 2 G. GHR	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration Beautician Total EDP Total BDC Security Guards Total	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100) 10(100) 2(40.0) 4(100) 32(92.0) 2(25.0) 2(25.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8) 3(60.0) - 3(8.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100) 4(100) 35(100) 8(100)
4 5 6 7 8 9 E. HRD 1 2 3 4 5 6 7 F. EDP 1 2 G. GHR	COE Fitter Diesel Mechanic Hotel Management Electronic Mechanic Total FS Comp App Business App DTP Home Nursing Refrigeration Beautician Total EDP Total BDC Security Guards Total	7(77.8) 11(91.7) 5(83.3) 20(80.0) 6(75.0) 93(80.2) - 5(100) 11(100) 2(40.0) 4(100) 32(92.0) 2(25.0) 2(25.0)	2(22.2) 1(8.3) 1(16.7) 5(20.0) 2(25.0) 23(19.8) 3(60.0) - 3(8.0)	9(100) 12(100) 6(100) 25(100) 8(100) 116(100) 0 5(100) 11(100) 10(100) 5(100) 4(100) 35(100) 8(100) 8(100)

I. Appr	Γ			
1	Diesel Mech.	1(100)	-	1(100)
2	Welder	1(25.0)	3(75.0)	4(100)
3	Electricals	4(80.0)	1(20.0)	5(100)
4	Lab Asst.	2(100)	-	2(100)
5	CNC	5(62.5)	3(37.5)	8(100)
6	PLC	1(50.0)	1(50.0)	2(100)
7	Hotel Mang.	2(50.0)	2(50.0) 2(50.0)	
8	Fitter	2(100)	-	2(100)
9	Total	18(64.3)	10(35.7)	28(100)
J. OITS	\mathbf{G}			
1	Agriculture	20(100)	-	20(100)
2	Animal Husbandry	7(63.6)	4(36.4)	11(100)
3	Urban Development	9(75.0)	3(25.0)	12(100)
4	Total	36(83.7)	7(16.3)	43(100)
Grand '	<u> </u>	299(79.9)	75(20.1)	374(100)

(Source: Field Work)

The data in the table 6.6 shows that the present job and the course studies by the pass out candidates is related to each other i.e. 79.9% and the job of few candidates and the courses studied is different i.e. 20.1%. No students were found to be employed on the job from NSQF stream whereby most of the students from vocational studies said that their job is related to their studies i.e. 65.3% and 34.7% agreed that their job is not related to their studies. Most of the students from OSS i.e. 76.9%, Insurance 52.9% and computer techniques i.e. 75% along with 100% each from catering, marketing and salesmanship and travel and tourism said that their job is related to their studies whereas majority of the students from automobile engineering, CGDM and A/c and auditing courses disclosed that it is not related to their studies i.e. 60%, 80%, 100% respectively. In case of UNID students 100% from MCA and MFS department agreed that whatever job they do is related to their studies. The ITI students reveals that majority of the job them joined for the job is related to the course they have studied i.e. 80.2% and only 19.8% student's job are not related to the courses they have studied. Majority of the students from all courses i.e. electrician 80%, plumber 88.2%, COE 77.8%, fitter 91.7%, diesel mechanic 83.3%, hotel management 80% and electronic mechanic 75% are related to courses except students from COPA i.e. 71.4% said that their job is not related to the courses they have studies. Similarly most of the HRDFS students stated that jobs are related to the courses they have studied i.e. 92.0% and only 8.0% said not related to the courses. Trainees from EDP majority denied that their job is related i.e. 75.0% and only 25.0% agreed to be related to the course they have studied. 100% of GHRDC and TrCPC trainees disclosed that their job is related to the course. While most of the trainees from ApprT and OITSG also said that their job is related to the course they have learned i.e.

64.3% and 83.7% respectively. Most of the trainees from ApprT from welder said their job and course studied have no relation whereas as trainees from CNC, hotel management were 50-50%. So also animal husbandry and urban development of OITSG shows no relation to their studies.

It can be interpreted that most of the students/trainees from vocational, UNID, ITI, HRDFS, GHRSDC, TrCPC, ApprT and OITSG stream whatever job they do are related to the study they have studied except EDP trainees where the job is not related to the course. The vocational students from automobile engineering, CGDM, A/c and auditing courses most of them stated that their job has no relation to their studies. Even though out of the 9 courses, students from 6 courses accepted that their job is related to their studied still then students from 3 courses has denied that it is relate to their studies. It means students from automobile, CGDM and A/c and auditing are doing different jobs as compared to what they have studied. It can because they don't like to similar job have upset waiting for similar jobs or jobs are not available in the same category or they are not well paid on the job. The various reasons were told by the students to opt for some other job rather than continuing a job in similar field. Most of the students from ITI and HRDFS has agreed that their job are related to their studies what they have studied before whereas few students have disagreed from two different streams that their jobs are not related to their studies except from COPA course of ITI and refrigerator from HRDFS stream. It means that whatever courses are introduced by the government through various government and private institutes are very useful for the students to get jobs in the market. The courses available in ITI and HRDFS are job oriented which provides job for the students and they are helpful for the employers too. Majority of the students from Entrepreneurship development course i.e. 75% are not related while 100% of security guards and tailoring jobs are related to their course. Most of the courses of Apprenticeship training are related except trainees from welder, CNC, Hotel management, electrician and PLC revealed that there is no relation to the course. So also trainees of animal husbandry and urban development are doing some other job as compared to their course studied.

6.2.5: Reasons of unemployment

Table 6.7 (A to J) indicates the reason for unemployment of the students are successfully completing their course. As it mentioned in table No.11 that 28 students were unemployed out of 171 students whereas in case of NSQF, UNID none of the

students were found to be unemployed. The percentage is calculated on the basis sample size of the students who are actually unemployed i.e. N=28 and not on the basis of actual number of respondents i.e. 44 shown in the table due to multiple responses marked by the respondents. The various options available to the students were "unwillingness to start own business", "unwillingness to join the job", lack of expected salary, "No confidence to take up jobs", lack of finance", "start-up problem", "lack of government support" and nay other reason they feel it is suitable to be mentioned in the last option.

Table 6.7: Reasons of unemployment

Sr	Course				Partic	ulars				Total
N o		Unwilli ngness to start busines	Unwilli ngness to join for the	Lack of expected salary	No confide nce to take up	Lack of Finan ce	Start- Up proble ms	Lack of Governm ent Support	Others	
		S	job		job in the same					
A. N	 NSQF				stream					
	Γ	T			T		1		Т	
1	IT	-	-	-	-	-	-	-	-	0
2	HealthCare	-	-	-	-	-	-	-	-	0
3	Automobile	-	-	-	-	-	-	-	-	0
4	Retail	-	-	-	-	-	-	-	-	0
5 D. X	Total	-	-	-	-	-	-	_	-	0
B. V	/oc									
1	Catering	-	-	2(40.0)	-	2(40.0)	1(20.0)	-	-	5(100)
2	OSS	1(12.5)	-	2(25.0)	3(37.5)		1(12.5)	-	1(12.5)	8(100)
3	Automobile Eng.	-	1(33.4)	-	-	1(33.3)	-	1(33.3)	-	3(100)
4	CGDM	-	2(66.7)	-	-	-	1(33.3)	-	-	3(100)
5	Insurance	-	2(20.0)	2(20.0)	2(20.0)	-	-	2(20.0)	2(20.0)	10(100
6	Ac and Auditing	-	-	-	-	-	-	-	1(100)	1(100)
7	Marketing, Salesmanship	-	1(50.0)	1(50.0)	-	-	-	-	-	2(100)
8	Computer Techniques	1(14.3)	3(42.8)	1(14.3)		1(14.3)	1(14.3)	-	-	7(100)
9	Travel Tourism	-	-	2(40.0)	-	2(40.0)	1(20.0)	-	-	5(100)
10	Total	2(6.7)	9(30.0)	10(33.3)	5(16.7)	6(20.0)	5(16.7)	3(10)	4(13.3)	44(100)
C. U	JNID									
1	MCA	-	-	-	-	-	-	-	-	(0)
	MFS	-	-	-	-	-	-	-	-	(0)
2			_	-	-	-	-	_	-	(0)

D.	ITI									
1	Electrician	_	1(25.0)	1(25.0)	-	1(25.0)	1(25.0)	-	-	4(100)
2	COPA	_	-	4(100)	_	-	-	_	_	4(100)
3	Plumber	1(12.5)	2(25.0)	4(50.0)	1(12.5)	_	_	_	_	8(100)
4	COE	1(25.0)	1(25.0)	1(25.0)	-	1(25.0)		_	_	4(100)
5	Fitter	-	1(16.7)	2(33.2)	_	1(23.0)	1(16.7)	1(16.7)	1(16.7)	6(100)
6	Diesel	_	1(9.1)	6(54.5)	_	1(9.1)	2(18.2)	1(9.1)	-	11(100)
U	Mechanic	_	1(7.1)	0(34.3)	_	1().1)	2(10.2)	1(7.1)	_	11(100)
7	Hotel Manag	-	1(16.7)	4(66.6)	_	-	1(16.7)	_	_	6(100)
8	Electronic	_	-	3(50.0)	1(16.7)	_	-	2(33.3)	_	6(100)
O	Mechanic			3(30.0)	1(10.7)			2(33.3)		0(100)
9	Total	2(6.7)	7(23.3)	25(83.3)	2(6.7)	3(10.0)	5(16.7)	4(13.3)	1(3.3)	49(100)
	HRDFS	2(0.1)	1(23.3)	25(05.5)	2(0.7)	3(10.0)	3(10.7)	T (13.3)	1(3.3)	4 2(100)
1	Comp App	_	_	_	2(66.7)	1(33.3)	_	_	_	3(100)
2	Business App	_	1(100)	_	2(00.7)	-	_	_	_	1(100)
3	DTP	1(25.0)	1(25.0)		1(25.0)	_	1(25.0)		_	4(100)
4	Home Nursing	-	-		-	_	-	2(100)	_	2(100)
5	Refrigeration	_	-	3(100)		-		2(100)	_	3(100)
6	Beautician	1(25.0)	-	3(75.0)	_	-		-	_	4(100)
7	Total	2(14.3)	2(14.3)	6(42.9)	3(21.4)	1(7.1)	1(7.1)	2(14.3)	_	17(100)
	EDP	2(17.3)	2(17.3)	0(42.7)	3(21.7)	1(7.1)	1(7.1)	2(14.3)	_	17(100)
1	EDP	_	_		_	_	_	_	_	(0)
2	Total	_	-	_	-	_	-	_	_	(0)
	GHRDC	_	_		_		_		_	(0)
1	GHRSD	_	_		-	_	_	_	-	(0)
2	Total	_	-		-	_	-	_	_	(0)
	TrCPC	_	_		_	_			_	(0)
1	Tailoring,	2(13.3)	2(13.3)	3(20.0)	1(6.7)	_	2(13.3)	1(6.7)	4(26.7)	15(100)
_	Embroidery	2(10.0)	2(10.0)	2(20.0)	1(017)		=(10.0)	1(017)	.(2017)	10(100)
2	Total	2(13.3)	2(13.3)	3(20.0)	1(6.7)	-	2(13.3)	1(6.7)	4(26.7)	15(100)
	ApprT	2(200)	2(2000)	C (= 010)	1(007)		2(200)	1(00)	1(2011)	10 (100)
	Diesel Mech.	_	_	1(100)	_	_	_	-	_	1(100)
2	Welder	_	-	-	_	_	_	_	_	(0)
3	Electrician	-	-	-	-	-	-	-	-	(0)
4	Lab Asst.	-	-	2(100)	-	-	-	-	-	2(100)
5	CNC	-	-	-(-00)	-		-	-	-	(0)
6	PLC	-	-	1(33.3)	-	1(33.3)	-	1(33.4)	-	3(100)
7	Hotel Mang.	_	-	-	-	-	-	-	-	(0)
8	Fitter	_	_	_	_	_	_	_	_	(0)
9	Total	_	_	4(66.6)	-	1(16.7)	-	1(16.7)	_	6(100)
	OITSG	<u>l</u>	<u> </u>	1(000)	<u>l</u>	1(1007)	1	1(1001)	<u>l</u>	0(100)
	Agriculture	-	_	-	-	2(50.0)	-	2(50.0)	-	4(100)
_	Animal	2(15.4)	_	2(15.4)	1(7.6)	4(30.8)	4(30.8)	-	_	13(100)
	Husbandry	_(10.1)		-(10.1)	1(,,0)	.(20.0)	.(20.0)			15(100)
	Urban	4(44.5)	2(22.2)	1(11.1)	_	1(11.1)	1(11.1)	_	_	9(100)
	Development	.()		-(-1.1)			-(-1.1)			/(100)
	Total	6(23.3)	2(7.7)	3(11.5)	1(3.8)	7(26.9)	5(19.2)	2(7.7)	-	26(100)
	and Total	14(8.9)	22(14.0)		12(7.6)		18(11.5)	13(8.3)	9(5.7)	157(100)
		(00)	(=)	((,,,,,	()	(C		11337.1	(- 0 0)

(Source: Field Work)

The table 6.7 shows that most of the students were unemployed due to lack of salary (32.5%) followed by unwillingness to join for the job (14.0%), lack of finance and lack of government support (11.5%) each and so on. There were no students responded from NSQF and UNID stream. Most of the vocational students mentioned the reason for unemployed is lack of expected salary i.e. 33.3% followed by unwillingness to join for

the job i.e. 30.0% lack of finance i.e. 20.0%, no confidence to take up job and also start up problem of the business i.e. 16.7% each, lack of government support i.e. 10.0%, unwillingness to start own business i.e. 6.7% and others 13.3%. Majority of ITI students revealed that lack of expected salary i.e. 83.3% is an significant reason for unemployment followed by unwillingness to start own business, no confidence to take up job and some other reasons i.e. 23.3%, 16.7%, 13.3%, 10.0%, 6.7%, 6.7% and 3.3% respectively. The reason of low expected salary was by most of the students from all courses. The HRDFS also said that lack of expected salary i.e. 42.9% is an important reason for unemployment especially students from refrigerator and beautician courses. While other students said they have no confidence to take up job i.e. 21.4%, while 14.3% each said willingness to join for the job and lack of government support whereas 7.1% each stated that lack of finance and start up problem. No students were unemployed in EDP and GHRDC while in case of TrCPC most of them i.e. 20% claimed that they are unemployed due to lack of expected salary whereas 13.3% each due to unwillingness to start business unwillingness to join job and start up problems while 6.7% each due to no confidence to take up job and lack of government support and 26.7% has cited some other reasons. Majority of apprenticeship trainees said they are unemployed due to lack of expected salary i.e. 66.6% and the remaining 16.7% each due to lack of finance and government support. In case of OITSG most of the trainees were unemployed due to lack of finance i.e. 26.9% while 23.3% are unwilling to start their own business, 19.2% due to start up problem, 11.5% due to lack of expected salary, 7.7% each due to lack of government support and unwillingness to join for the job while 3.8% had no confidence to take up job.

It can be interpreted that most of the students/trainees are unemployed due to lack of expected salary which means that the employers do not pay expected salary to the candidates who join for the job. The employers pay low salary which is not convincing to the youth. The candidate's expectations are not fulfilled by the employers whereby they enjoy their service at low cost. The fresh candidates are paid very less as compared to the seniors due to whom students are not willing to join for the job. The other fact cited by the students is due to lack of finance with them if they want to start their own business. Each and every parent feels that their child has completed education but nobody motivate to start any business. Some students said they do not have enough confidence to take up job in the similar field nor they can start their own business because there is lot of startup problems faced by them. It is also important that students do not get support from the government by way of finance or to start their own business.

6.3 Testing of Hypothesis

To verify the fourth objective of the study i.e. to assess the contribution of skill development programmes conducted by various skill training institutes and its impact on employment and self-employment in Goa, the following null hypothesis was formed;

H0: Impact of Skill development programmes on employment and self-employment is Insignificant.

H1: Impact of Skill development programmes on employment and self-employment is significant.

Further three sub-hypothesis were framed and tested with various statistical tools such as *one way ANOVA*, *Coefficients*, *Multinomial Logistic Regression and Chisquare test* were used to serve the objective. The below hypothesis were analyzed and tested with reference to their Stream, Trade and reason for joining a course. The data collected from the Past students was grouped into six important areas to find out any impact and association in the following aspects they are;

- 1) Self-Employment (Full time)
- 2) Self-Employment (Part time)
- 3) Job-Employment (Full time)
- 4) Job-Employment (Part time)
- 5) Pursuing Higher Education
- 6) Unemployed

To information was collected on the above area from 624 Past students from all over Goa belonging to High School, Higher Secondary, University Departments, ITI, HRDFS, EDP, GHRDC, Training cum Production Centre, Apprenticeship training institutes and Other initiatives taken by the state government were surveyed. The following sections give the analysis of the data along with the comments based on **one** way ANOVA and coefficient test.

6.3.1 Impact of streams on employment and self employment

H01: There is no significant impact of Skill training programmes conducted through various streams on employment and self-employment in Goa.

Table 6.8: Table showing cross tabulation of present status of past students (Streams)

					Total		
			Self-	Job	Pursuing	Unem-	
			Emplo-	Emplo-	Higher	ployed	
			yment	yment	Education		
	Count		0	0	33	0	33
	Hs	% within Stream	0.0%	0.0%	100.0%		100.0%
		% within present status	0.0%	0.0%	24.6%	0.0%	5.3%
		Count	14	63	67	29	173
	HSSC	% within Stream	8.1%	36.4%	38.7%	16.8%	100.0%
		% within present status	15.4%	21.9%	50.0%	26.1%	27.7%
		Count	1	24	0	0	25
	UNID	% within Stream	4.0%	96.0%	0.0%	0.0%	100.0%
	OIVID	% within present status	1.1%	8.3%	0.0%	0.0%	4.0%
		Count	22	96	8	31	157
	ITI	% within Stream	14.0%	61.1%	5.1%	19.7%	100.0%
		% within present status	24.2%	33.3%	6.0%	27.9%	25.2%
	HRDF	Count	3	33	16		67
	S	% within Stream	4.5%	49.3%	23.9%		100.0%
Stream	0	% within present status	3.3%	11.5%	11.9%		10.7%
Stream		Count	0	8	0	5 15 6 22.4% 1 6 13.5% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8
	EDP	% within Stream	0.0%		0.0%		
		% within present status	0.0%	2.8%	0.0%	0.0%	1.3%
	GHRS	Count	0	25	0		25
	DC	% within Stream	0.0%		0.0%	0.0%	
		% within present status	0.0%	8.7%	0.0%	0.0%	4.0%
		Count	12	7	4	15	38
	TrCPC	% within Stream	31.6%	18.4%	10.5%	39.5%	100.0%
		% within present status	13.2%	2.4%	3.0%	13.5%	6.1%
		Count	5	23	5	5	38
	APPRT	% within Stream	13.2%	60.5%	13.2%	13.2%	100.0%
		% within present status	5.5%	8.0%	3.7%	4.5%	6.1%
		Count	34	9	1	16	60
	OITSG	% within Stream	56.7%	15.0%	1.7%	26.7%	100.0%
		% within present status	37.4%	3.1%	0.7%	14.4%	9.6%
		Count	91	288	134	111	624
Total		% within Stream	14.6%	46.2%	21.5%	17.8%	100.0%
		% within present status	100.0%	100.0%	100.0%	100.0%	100.0%

Table 6.8 depicts the present status of the past students (stream wise) after completing their course. An attempt was made to find whether the past students have started any business or they are going for job anywhere or they pursue further studies. The various options more given to the past students to identify what students do after completion of job to find out how for skill courses have an impact on building students

career and what potential does skill courses have in developing Goa's economy. The various alternatives provided to the past students were whether they carry out "Self employment (full time)", "self employment (part time)", "job employment (full time)", "job employment (part time)", "pursuing higher education", "unemployed" and any other status.

The overall result of the past students in (table 6.8) shows that 46.2% were joined for job employment and 14.6% were self employed whereas 21.5% were pursuing higher education and 17.8% were unemployed. The streams wise past students of HS (NSQF) were pursuing higher education (100%) and none of them have gone for any sort of job employment. In case of vocational studies majority (38.7%) of the students were pursuing higher education (36.4%) as full time & part time job employment whereas (16.8%) were unemployed and only 8.1% took up full time or part time self employment. Hence it can be said that a total of (44.5%) of the past students were employed in the form of self employment and job employment. The UNID students revealed that majority of the students (96%) were employed on job whereas only (4.0%) were self employed. Majority of ITI students are on job employment i.e. 61.1% as full time and part time whereas 19.7% are unemployed, 14.0% are full time and part self employed respectively and 5.1% are pursuing higher education. The HRDFS students said that most of the students have joined for the job employment i.e. 49.3% whereby 23.9% are pursuing higher education, 22.4% are unemployed and rest 4.5% are self employed. The students of EDP and trainees of GHRSDC (100%) have joined for the full time job employment while TrCPC trainees, majority of them are unemployed i.e. 39.5% followed by self employment (31.6%), job employed (18.4%) and 10.5% are pursuing higher education. Apprenticeship trainees mostly i.e. 60.5% have joined for job employment while 13.2% started their own business whereas 13.2% each are unemployed and remaining pursuing higher education. Majority of OITSG trainees (56.7%) are self employed while (26.7%) are unemployed, 15.0% are job employed and 1.7% pursuing further studies. The overall data indicates that majority of the students (46.2%) are employed on job while 21.5% are pursuing higher education, 17.8% are unemployed and 14.6% have started their own business.

It can be interpreted that most of the students are employed on the job mostly from EDP, GHRSDC, UNID, ITI, APPRT and Vocational stream. The other students were pursuing higher studies that were mostly from HS and HSSC whereas few students were self-employed which were mostly from OITSG and TrCPC stream. Apart from

students have joined for the job or accepted some self-employment still some students are unemployed. It is noticed that most of the students who were unemployed were from TrCPC, OITSG HRDFS and HSSC whereby none of the students were unemployed from the streams such as HS, UNID, EDP and HRDFS. The NSQF students like to pursue higher education only whereas vocational students are more interested in pursuing higher education followed by job employment and few has started their own business. It indicates that most of the students after Xth and XIIth standard like to go for higher studies and not interested in self employment either full time or part time which means at this stage chances of starting their own business is very negligible. Most of the UNID students joined for the job and few were self-employed where as majority of TrCPC and OITSG had started their self-employment.

Table 6.9: Table showing ANOVA-value for fitment model (Stream)

Model		Sum of Squares	Df	Mean Square	F	Sig.	
	Regression	114.255	1	114.255	50.106	.000 ^b	
1	Residual	1418.335	622	2.280			
	Total	1532.590	623				
a. Dependent Variable: Present Status of the respondents							
b. Predicte	ors: (Constant), Stream	m					

Table 6.10: Table showing Coefficients-values for impact on employment (Stream)

Model		Unstandardized	l Coefficients	Standardized	T	Sig.
				Coefficients		
		В	Std. Error	Beta		
1	(Constant)	4.437	.117		37.784	.000
1	Stream	154	.022	273	-7.079	.000
a. Depend	ent Variable: Present	Status of the responde	nts			

Table 6.11: Table showing ANOVA-values for fitment model (Stream)

present status new	Model	Model		df	Mean Square	F	Sig.
			Squares				
		Regression	5.036	1	5.036	47.666	.000 ^b
Self-Employment	1	Residual	9.403	89	.106		
		Total	14.440	90			
		Regression	.325	1	.325	6.695	.010 ^b
Job Employment	1	Residual	13.894	286	.049		
		Total	14.219	287			
a. Dependent Variab	le: Present	Status of the responde	ents				
b. Predictors: (Const	ant), Strea	m					

Table 6.12: Table showing Coefficients-value for impact on job employment and self-employment (Stream)

present status new	Model		Unstandardized Coefficients		Standardized Coefficients	Т	Sig.
			В	Std. Error	Beta		
Calf Employment	1	(Constant)	1.701	.080		21.144	.000
Self-Employment	1	Stream	074	.011	591	-6.904	.000
Ich Employment	1	(Constant)	3.120	.029		106.187	.000
Job Employment	1	Stream	015	.006	151	-2.587	.010
a. Dependent Variab	le: Present	Status of the responde	ents				

Table 6.13: Table showing multinomial Logistic Regression (Streams)

Present Status of the respondents ^a		В	Std. Error	df	Sig.	Exp(B)
	Intercept	.754	.303	1	.013	
	HS	-1.173	1005.558	1	.999	.309
	HSS	-3.022	.678	1	.000	.049
	UNID	11.599	481.217	1	.981	108973,456
	ITI	-1.415	.432	1	.001	.243
Self-Employment	HRDFS	-2.363	.701	1	.001	.094
(Full Time)	EDP	-1.173	955.860	1	.999	.309
	GHRSDC	-1.173	540.716	1	.998	.309
	TRCPC	-1.064	.499	1	.033	.345
	APPRT	754	.701	1	.282	.471
	OITSG	0°		0		
	Intercept	-21.667	12672.370	1	.999	
	HS	19.848	12785.302	1	.999	416663033.475
	HSS	20.698	12672.370	1	.999	974608359.911
Self-Employment (Part Time)	UNID	19.848	12737.682	1	.999	416663033.488
	ITI	20.025	12672.370	1	.999	497307491.567
	HRDFS	7.070	12678.114	1	1.000	1176.351
	EDP	19.848	12774.459	1	.999	416663033.475
	GHRSDC	19.848	12705.128	1	.999	416663033.475
	TRCPC	18.959	12672.370	1	.999	171294802.651
	APPRT	7.588	12682.637	1	1.000	1974.084
	OITSG	0°		0	. [
	Intercept	575	.417	1	.167	
	HS	1.475	751.180	1	.998	4.372
	HSS	1.215	.476	1	.011	3.372
	UNID	15.973	481.216	1	.974	8645227.502
T.1	ITI	1.685	.465	1	.000	5.391
Job Employment (Full Time)	HRDFS	1.333	.521	1	.011	3.793
(Full Tillie)	EDP	15.456	602.070	1	.980	5155376.671
	GHRSDC	15.456	340.582	1	.964	5155376.671
	TRCPC	187	.619	1	.763	.830
	APPRT	2.057	.647	1	.001	7.822
	OITSG	0°		0		
	Intercept	-21.849	1.095	1	.000	
	HS	19.848	1835.689	1	.991	416663040.736
	HSS	20.561	1.166	1	.000	850567310.745
	UNID	35.301	481.217	1	.942	2141990852416704.200
	ITI	19.108	1.316	1	.000	198923000.094
Job Employment		19.141	1.506	1	.000	205553766.763
(Part Time)	EDP	19.848	1744.964	1	.991	416663040.736
	GHRSDC	19.848	987.101	1	.984	416663040.736
	TRCPC	6.117	673.320	1	.993	453.402
	APPRT	20.240	.000	1		616661300.290
	OITSG	0^{c}		0		,
						<u> </u>

The *cross tabulation table* (6.8) indicates that there is a significant impact on job employment as well as self-employment. The *One way ANOVA* (table 6.9) shows that the model fitted for present status of the respondents with respect to the streams is significant (0.000). The Coefficients value (table 6.10) shows that *t* value is 37.784 and it corresponding sig. *p* value is 0.000 which less than 0.05 at 5% level of significance which makes it clear that there is a significant impact of Skill development programmes conducted through various streams and present status of past students i.e. on employment (job and self-employment) in the state of Goa.

The *cross tabulation table* (6.8) indicates that there is a high impact on job employment (full time employment or time employment) as compared to self-employment. The *One way ANOVA* (table 6.11) shows that the model fitted for present status of the respondents self employment and job employment with respect to streams is significant (0.000 and 0.010) respectively. The *Coefficients value* (table 6.12) for both self-employment and job employment shows that t value is -6.904 and -2.587 and its corresponding value is significant (p is .000 and .010) respectively which less than 0.05 at 5% level of significance. It means that there is a high significant impact of Skill development programmes on job employment as compared to self-employment in the state of Goa.

The *multinomial logistic regression* test (6.13) stream wise shows a significant impact of skill development programmes on self employment. The streams such as HSS (0.000), ITI (0.001), HRDFS (0.001) and TRCPC (0.033) over OITSG has more impact on full time self-employment which is taken as a base to test impact on various streams as far as full time Self-employment is concern. No impact is noticed on part time self-employment of any stream.

So also it makes clear that there is a significant impact of skill development programmes on streams on job employment like HSS (.011), ITI (.000), HRDFS (.011) and ApprT (.001) on full time job employment as compared to OITSG whereas HSS (.000), ITI (.000) and HRDFS (.000) shows impact on part time job employment. It means that past students from streams like HSS, ITI, HRDFS, TRCPC and OITSG have started their self-employment business whereas of HSS, ITI, HRDFS and ApprT have joined for full time job employment as well as part time job employment, **thus the null hypothesis is rejected.**

6.3.2 Impact of Trades on employment and Self-employment

H02: There is no significant impact of Skill training programmes conducted through various trades on employment and self-employment in Goa.

Table 6.14: Table showing Cross tabulation of present status of past students (Trades)

		Trade * P	resent Status o		nts Crosstabul				
					ent Status of the		T _		Total
			Self-	Self-	Job	Job Emplo-	Pursuing	Unemp-	
			Employment (Full Time)	Employment	Employment	yment (Part	Higher	loyed	
	1	Count	(Full 11me)	(Part Time)	(Full Time)	Time)	Education 12	0	12
	IT	% within Trade	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
	11	% of Total	0.0%	0.0%	0.0%	0.0%	1.9%	0.0%	1.9%
		Count	0.0%	0.0%	0.0%	0.070	8	0.070	1.970
	Healthcare	% within Trade	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
	Ticalticare	% of Total	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	1.3%
		Count	0.070	0.070	0.070	0.070	8	0.070	8
	Automobile	% within Trade	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
		% of Total	0.0%	0.0%	0.0%	0.0%	1.3%	0.0%	1.3%
		Count	0	0	0	0	5	0	5
	Retail	% within Trade	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
		% of Total	0.0%	0.0%	0.0%	0.0%	0.8%	0.0%	0.8%
	Catering & Restaurant	Count	0	0	7	0	3	6	16
	Management Management	% within Trade	0.0%	0.0%	43.8%	0.0%	18.8%	37.5%	100.0%
	- Tranagement	% of Total	0.0%	0.0%	1.1%	0.0%	0.5%	1.0%	2.6%
	Office Secretary ship	Count	1	1	11	0	21	2	36
	Stenography	% within Trade	2.8%	2.8%	30.6%	0.0%	58.3%	5.6%	100.0%
		% of Total	0.2%	0.2%	1.8%	0.0%	3.4%	0.3%	5.8%
	Auto Engineering	Count % within Trade	0.00/	12.5%	27.50	12.5%	25.00/	12.50/	16 100.0%
	Technology	% within Trade % of Total	0.0%		37.5%		25.0%	12.5%	
		Count	0.0%	0.3%	1.0%	0.3%	0.6%	0.3%	2.6%
	Commercial Garments	% within Trade	8.3%	8.3%	16.7%	0.0%	50.0%	16.7%	100.0%
	Designing and Making	% of Total	0.2%	0.2%	0.3%	0.0%	1.0%	0.3%	1.9%
		Count	0.270	5	12	1	1.070	5	36
	Insurance	% within Trade	2.8%	13.9%	33.3%	2.8%	33.3%	13.9%	100.0%
		% of Total	0.2%	0.8%	1.9%	0.2%	1.9%	0.8%	5.8%
	Accountancy and Auditing		0.270	0.070	1	1	8	0.070	10
			0.0%	0.0%	10.0%	10.0%	80.0%	0.0%	100.0%
		% of Total	0.0%	0.0%	0.2%	0.2%	1.3%	0.0%	1.6%
	M 1 4 1	Count	0	1	1	2	1	2	7
Trade		% within Trade	0.0%	14.3%	14.3%	28.6%	14.3%	28.6%	100.0%
	Salesmanship	% of Total	0.0%	0.2%	0.2%	0.3%	0.2%	0.3%	1.1%
		Count	0	1	11	1	9	6	28
	Accountancy Auditing and Auditing	32.1%	21.4%	100.0%					
							1.4%	1.0%	4.5%
		Count		0	4	1	3	4	12
	Travel and Tourism	% within Trade	0.0%	0.0%	33.3%	8.3%	25.0%	33.3%	100.0%
		% of Total	0.0%	0.0%	0.6%	0.2%	0.5%	0.6%	1.9%
	Master of computer	Count % within Trade	7.1%	0.0%	92.9%	0.0%	0.0%	0.0%	14 100.0%
	Application	% within Trade % of Total	0.2%	0.0%	2.1%	0.0%	0.0%	0.0%	2.2%
		Count	0.2%	0.0%	2.1%	3	0.0%	0.0%	2.2%
	Master of Financial	% within Trade	0.0%	0.0%	72.7%	27.3%	0.0%	0.0%	100.0%
	Services	% of Total	0.0%	0.0%	1.3%	0.5%	0.0%	0.0%	1.8%
		Count	2	0.070	13	1	0.070	1	17
	Electrician	% within Trade	11.8%	0.0%	76.5%	5.9%	0.0%	5.9%	100.0%
		% of Total	0.3%	0.0%	2.1%	0.2%	0.0%	0.2%	2.7%
	Computer Operating	Count	0	0	7	0	0	4	11
	Programming	% within Trade	0.0%	0.0%	63.6%	0.0%	0.0%	36.4%	100.0%
	Assistant	% of Total	0.0%	0.0%	1.1%	0.0%	0.0%	0.6%	1.8%
		Count	6	2	25	0	1	6	40
	Plumber	% within Trade	15.0%	5.0%	62.5%	0.0%	2.5%	15.0%	100.0%
		% of Total	1.0%	0.3%	4.0%	0.0%	0.2%	1.0%	6.4%
		Count	2	1	6	0	0	3	12
	Welder	% within Trade	16.7%	8.3%	50.0%	0.0%	0.0%	25.0%	100.0%
		% of Total	0.3%	0.2%	1.0%	0.0%	0.0%	0.5%	1.9%
	E''	Count	2	0	11	0	0.000	12.20/	15
	Fitter	% within Trade	13.3%	0.0%	73.3%	0.0%	0.0%	13.3%	100.0%
		% of Total	0.3%	0.0%	1.8%	0.0%	0.0%	0.3%	2.4%
	Discolar 1	Count	0.000	7 100	25.70/	0 000	7.10/	50.00/	14
	Diesel Mechanic	% within Trade	0.0%	7.1%	35.7%	0.0%	7.1%	50.0%	100.0%
		% of Total	0.0%	0.2%	0.8%	0.0%	0.2%	1.1%	2.2%

1	1		. 1			-		
17 . 134	Count	2	1	22	2.100	2.10/	5	32
Hotel Management	% within Trade % of Total	6.2% 0.3%	3.1% 0.2%	68.8% 3.5%	3.1% 0.2%	3.1% 0.2%	15.6% 0.8%	100.0% 5.1%
	Count	0.5%	0.2%	5.5%	0.2%	5	3	3.1%
Electronic Mechanic	% within Trade	12.5%	6.2%	31.2%	0.0%	31.2%	18.8%	100.0%
Electronic Mechanic	% of Total	0.3%	0.2%	0.8%	0.0%	0.8%	0.5%	2.6%
	Count	0.570	0.270	0.878	0.070	9	1	10
Computer Application	% within Trade	0.0%	0.0%	0.0%	0.0%	90.0%	10.0%	100.0%
Computer rapproduction	% of Total	0.0%	0.0%	0.0%	0.0%	1.4%	0.2%	1.6%
	Count	0	0	4	0	7	2	13
Business Application	% within Trade	0.0%	0.0%	30.8%	0.0%	53.8%	15.4%	100.0%
Business Application	% of Total	0.0%	0.0%	0.6%	0.0%	1.1%	0.3%	2.1%
	Count	2	0	10	1	0	4	17
Desktop operator	% within Trade	11.8%	0.0%	58.8%	5.9%	0.0%	23.5%	100.0%
	% of Total	0.3%	0.0%	1.6%	0.2%	0.0%	0.6%	2.7%
	Count	0	0	10	0	0	0	10
Home Nursing	% within Trade	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
	% of Total	0.0%	0.0%	1.6%	0.0%	0.0%	0.0%	1.6%
Air	Count	0	0	5	0	0	4	9
condition/refrigerator	% within Trade	0.0%	0.0%	55.6%	0.0%	0.0%	44.4%	100.0%
mechanic	% of Total	0.0%	0.0%	0.8%	0.0%	0.0%	0.6%	1.4%
	Count	1	0	3	0	0	4	8
Beautician	% within Trade	12.5%	0.0%	37.5%	0.0%	0.0%	50.0%	100.0%
	% of Total	0.2%	0.0%	0.5%	0.0%	0.0%	0.6%	1.3%
Entrepreneurship	Count	0	0	8	0	0	0	8
Development	% within Trade	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
-	% of Total Count	0.0%	0.0%	1.3%	0.0%	0.0%	0.0%	1.3%
Security Guards	% within Trade	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
	% of Total	0.0%	0.0%	4.0%	0.0%	0.0%	0.0%	4.0%
	Count	11	0.0%	7	0.0%	4	15	38
Tailoring	% within Trade	28.9%	2.6%	18.4%	0.0%	10.5%	39.5%	100.0%
&Embroidary	% of Total	1.8%	0.2%	1.1%	0.0%	0.6%	2.4%	6.1%
	Count	0	0.270	1.170	0.070	0.070	2.470	2
Diesel Mechanic	% within Trade	0.0%	0.0%	50.0%	0.0%	0.0%	50.0%	100.0%
Diesel Mechanic	% of Total	0.0%	0.0%	0.2%	0.0%	0.0%	0.2%	0.3%
	Count	0	0	4	0	0.070	0.270	4
Welder	% within Trade	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%
	% of Total	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.6%
	Count	1	0	4	0	0	0	5
Electrician	% within Trade	20.0%	0.0%	80.0%	0.0%	0.0%	0.0%	100.0%
	% of Total	0.2%	0.0%	0.6%	0.0%	0.0%	0.0%	0.8%
	Count	0	0	1	1	4	1	7
Lab Assistant	% within Trade	0.0%	0.0%	14.3%	14.3%	57.1%	14.3%	100.0%
	% of Total	0.0%	0.0%	0.2%	0.2%	0.6%	0.2%	1.1%
Computer Numerical	Count	1	0	6	0	1	1	9
Computer Numerical	% within Trade	11.1%	0.0%	66.7%	0.0%	11.1%	11.1%	100.0%
Control operator	% of Total	0.2%	0.0%	1.0%	0.0%	0.2%	0.2%	1.4%
	Count	1	0	2	0	0	2	5
PLC System operator	% within Trade	20.0%	0.0%	40.0%	0.0%	0.0%	40.0%	100.0%
	% of Total	0.2%	0.0%	0.3%	0.0%	0.0%	0.3%	0.8%
	Count	1	0	3	0	0	0	4
Hotel Management	% within Trade	25.0%	0.0%	75.0%	0.0%	0.0%	0.0%	100.0%
	% of Total	0.2%	0.0%	0.5%	0.0%	0.0%	0.0%	0.6%
	Count	1	0	1	0	0	0	2
Fitter	% within Trade	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%	100.0%
	% of Total	0.2%	0.0%	0.2%	0.0%	0.0%	0.0%	0.3%
	Count	20	0	0	0	0	0	20
Agriculture training	% within Trade	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
	% of Total	3.2%	0.0%	0.0%	0.0%	0.0%	0.0%	3.2%
Stooleman trainin-	Count	50.0%	0.0%	15.004	0.00%	0.00%	25.00¢	100.0%
Stockman training	% within Trade % of Total	50.0% 1.6%	0.0%	15.0% 0.5%	0.0%	0.0%	35.0% 1.1%	100.0% 3.2%
	Count	1.0%	0.0%	0.5%	0.0%	0.0%	1.1%	3.2%
T. 11	Count					5.0%	45.0%	100.0%
Tailoring & Food	% within Trade	20.00/	(1110/					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tailoring & Food Processing	% Within Trade	20.0%	0.0%	30.0%	0.0%			
	% within Trade % of Total	0.6%	0.0%	1.0%	0.0%	0.2%	1.4%	3.2%
	% within Trade % of Total Count	0.6% 73	0.0% 18	1.0% 273	0.0% 15	0.2% 134	1.4% 111	3.2% 624
	% within Trade % of Total	0.6%	0.0%	1.0%	0.0%	0.2%	1.4%	3.2%

Table 6.14 shows that the present status of the past students (trade wise) after completing their courses. An attempt was made to find whether the past students from various trades are employed, continued further studies or unemployed. The various alternatives provided to the past students were whether they do "Self employment (full time)", "self employment (part time)", "job employment (full time)", "job employment (part time)", "unemployed" and any other.

The overall result of the past students in (table 6.14) shows that 43.8% and 2.4% were joined for job employment (full time and part time respectively) whereas 11.7% and 2.9% were self employed (full time and part time respectively) while 21.5% were pursuing higher education and 17.8% were unemployed. The above table also indicates that 100% of IT, Healthcare, Automobile, and Retail students of HS have joined for higher studies. Most of the students from catering course have gone for job employment (43.8%) followed by unemployment (37.5%) and the rest of the students are pursuing higher studies (18.8%), while majority of OSS students were pursuing higher education i.e. 58.3% whereas remaining were employed on job i.e. 30.6%, self employed (5.6%) and unemployed 5.6%). The students of Auto engineering technology were mostly on job employment (50%) and the remaining students pursuing higher education and self employed i.e. 25% and 12.5% respectively while 12.5% were unemployed. Most of CGDM are pursuing higher education i.e. 50.0% followed by job employment i.e. 16.7%, self employment 16.6% and the rest of the students i.e. 16.7% were unemployed. Insurance students mostly (36.1%) are doing job whereas 16.7% are self-employed while 33.3% are pursuing higher education and 13.9% are unemployed. The Accounting & Auditing students are 80% pursuing higher education and 20% are employed on job. Most of the marketing & salesmanship students are job employed i.e. 42.9% whereas 28.6% are unemployed and 14.3% each are pursuing higher education and doing own business. Computer techniques students are mostly job employed i.e. 42.9% while 32.1% are continuing education whereas 21.4% are unemployed and 3.6% self-employed. Most of travel and tourism students are employed on job i.e. 41.6% while 33.3% and 25% were unemployed and pursuing higher education. Most of the UNID stream of MCA students i.e. 92.9% are on full time job employment and rest 7.1% are self employment while majority of MFS students (72.7%) are employed on full time basis and remaining on part time job i.e. 27.3%. The two courses shown no much difference since most of the MCA and MFS students are employed on full time job. Few students are self-employed from MCA and none in MFS.

Most of the students from all courses of ITI are on job employment i.e. electrician (82.4%), COPA (63.6%), plumber (62.5%), Welder (50.0%), fitter (73.3%) and hotel management (68.8%) except students from diesel mechanic (50.0%) and electronic mechanic (31.2%) are unemployed and pursuing higher education respectively. The Majority of DTPO, home nursing, refrigerator are going for job i.e. 64.7%, 100% and 55.6% respectively while computer application, business application i.e. 90% and 53.8% are pursuing higher studies and only beautician students are 50% unemployed, 37.5% job employed and 12.5% self-employed. The trainees from EDP and Security guards (100%) joined for the full time employment while trainees from tailoring and embroidery of TrCPC are unemployed i.e. 39.5% followed by self employed (31.5%), job employed (18.4%) and 10.5% were pursuing higher education. The data of Apprenticeship training shows that most of the trainees of diesel mechanic 50% are job employed and 50% are unemployed while welder 100% job employed. The trainees of electrician 80%-40%, Hotel management 75%-25% and fitter 50%-50% are self employed and job employed respectively. Most of the Lab Assistant are pursuing higher education i.e. 57.1% while CNC are employed on job i.e. 66.7% and PLC are unemployed 40% each unemployed and doing job respectively. The trainees of OITSG from agriculture 100% and 50% of animal husbandry are self employed while urban development (45%) is unemployed.

The course wise interpretation reveals that all 100% of NSQF students have gone for higher studies while majority of vocational students from catering, automobile engineering, marketing & salesmanship, computer techniques and travel and tourism have joined for full time or part time job employment. The students of MCA and MFS have joined for job employment and hardly one students of MCA has started his own business. It means that those students who acquire higher degree are more interested in joining for the job and doing self employment is very negligible. Most of the students from ITI are doing job either full time or part time job. Out of the job employment most them are on full time employment and part time are very negligible. Most of them going for are student from job electrician, plumber and fitter. An another group of students are still unemployed which are mostly from course like diesel mechanic and electronic mechanic which means that diesel mechanic students do not get jobs in Goa. It might be because there are less auto dealers or no manufacturing unit in Goa. There is a similar situation in case of electronic mechanic that the demand for electronics is less in Goa. An equal and good number of students from electronic mechanic course are employed for job and pursuing higher education. It shows that majority of the students from ITI have not joined for self-employment. It means that still ITI students are not ready to accept self employment. The HRDFS students are also mostly going for job but majority are full time and very tiny number of students are on part time basis which is followed by pursuing higher education, unemployed and very few are self employed. The majority of students accepted jobs are DTP, home nursing and refrigerator. It means that the students from three different courses get jobs easily specially in case of Home Nursing all the students joined for the job or doing their own business. The DTP and refrigerator students have shown mixed response and even some students are unemployed. The students who have opted for computer application and business application are mostly joined for higher studies. These students can opt for similar subjects in commerce stream and other courses for higher education. It is important to note that half of students from business course are unemployed and half are joined for job. No students of beautician course have started their own business even though there are lots of opportunities to start their own beauty parlours by which they can become self employed. Majority of the students from EDP, GHRDC, Apprenticeship training have joined for the job unemployment which means there is a good demand for the students who passed out from those courses while trainees of tailoring and embroidery from TrCPC are unemployed and OITSG are self employed.

Table 6.15: Table showing ANOVA-value for fitment model (Trade)

N	Model	Sum of Squares	Df	Mean Square	F	Sig.	
	Regression	113.390	1	113.390	49.696	.000	
1	Residual	1419.200	622	2.282			
	Total	1532.590	623				
a. Dependent Varia	a. Dependent Variable: Present Status of the respondents						
b. Predictors: (Cons	stant), Trade						

Table 6.16: Table showing Coefficients-value for impact on employment (Trade)

	Model	Unstandardized	l Coefficients	Standardized Coefficients	T	Sig.
		В	Std. Error	Beta	1	
1	(Constant)	4.471	.122		36.654	.000
1	Trades	036	.005	272	-7.050	.000
a. Dep	endent Variable	: Present Status of the re	espondents			

Table 6.17: Table showing ANOVA-value for fitment model (Trade)

present status	Model		Sum of Squares	Df	Mean Square	F	Sig.
	Regression		5.197	1	5.197	50.041	.000
Self-Employment	1	Residual	9.243	89	.104		
		Total	14.440	90			
		Regression	.322	1	.322	6.623	.011
Job Employment	1	Residual	13.897	286	.049		
		Total	14.219	287			
a. Dependent Variab	le: Present	Status of the resp	ondents				
b. Predictors							
: (Constant), Trade							

Table 6.18: Table showing Coefficients-value for impact on job employment and self-employment (Trade)

present status new	Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.
			В	Std. Error	Beta		
Calf Employment	1	(Constant)	1.752	.085		20.536	.000
Self-Employment	1	Trade	019	.003	600	-7.074	.000
Joh Employment	1	(Constant)	3.126	.031		99.404	.000
Job Employment	1	Trade	003	.001	150	-2.573	.011
a. Dependent Variab	le: Present	Status of the responde	ents				

Table 6.19: Table showing multinomial Logistic Regression (Trade)

Present Status of the	respondents ^a	В	Std. Error	Df	Sig.	Exp(B)
	Intercept	-1.212	.634	1	.056	
C-16 E1	[Q9=11]	-71.232	.000	1		1.160E-031
Self-Employment (Full Time)	[Q9=15]	.793	.000	1		2.209
(Full Tille)	[Q9=42]	2.957	.914	1	.001	19.238
	[Q9=43]	0 _p		0		
	Intercept	-4.400	2.758	1	.111	
	[Q9=7]	6.052	3.034	1	.046	425.143
Self-Employment	[Q9=9]	6.493	2.840	1	.022	660.607
(Part Time)	[Q9=11]	-56.845	.000	1		2.055E-025
	[Q9=15]	2.581	.000	1		13.211
	[Q9=43]	0 _p		0		
	Intercept	907	.566	1	.109	
	[Q9=6]	2.228	.994	1	.025	9.280
	[Q9=11]	-18.420	.000	1		1.001E-008
	[Q9=14]	3.998	1.500	1	.008	54.511
	[Q9=16]	3.240	1.126	1	.004	25.525
	[Q9=18]	2.389	.741	1	.001	10.900
T.1 F. 1	[Q9=20]	2.726	1.001	1	.006	15.265
Job Employment (Full Time)	[Q9=22]	2.493	.772	1	.001	12.096
(Full Tille)	[Q9=26]	1.829	.843	1	.030	6.227
	[Q9=27]	4.164	1.829	1	.023	64.315
	[Q9=30]	4.164	2.025	1	.040	64.315
	[Q9=31]	4.164	1.237	1	.001	64.315
	[Q9=37]	2.706	1.229	1	.028	14.971
	[Q9=43]	$0_{\rm p}$		0		
	Intercept	-4.583	3.018	1	.129	
T 1 1	[09=7]	6.904	3.253	1	.034	995.933
Job employment (part	[Q9=36]	7.433	3.624	1	.040	1690.819
time)	[Q9=43]	$0_{\rm p}$		0		

The **One way** *ANOVA test* (table 6.15) is significant (0.000) which shows that the model is fitted for present status of the respondents with respect to trades. The **Coefficients value** (6.16) shows that t value is 36.654 and it corresponding P value is 0.000 which less than 0.05 at 5% level of significance. The coefficient table clearly indicates that there exist a significant impact of Skill training programmes conducted through various trades and the present status of the past students (employment and self-employment) in the state of Goa.

The **One way** *ANOVA test* (table 6.17) is significant (0.000 and 0.011) which shows that the model is fitted for present status of the respondents (self employment and job employment) with respect to trades respectively.

The **Coefficients value** (6.18) for both self-employment and job employment shows significant (*p* value is .000 and .011) respectively which less than 0.05 at 5% level of significance which indicates that there is a significant impact of trades on self-employment as well on job employment.

The **multinomial logistic regression** (table 6.19) shows the trade wise impact on employment and self-employment which indicates that there is a significant impact of trades like livestock training (P value = .001) on fulltime employment and Automobile (P value = .046) on Part time self-employment. So also there is a high significant impact of various trades on full time employment like OSS (.025). MCA (.008), Electrician (.004), Plumber (.001), Fitter (.006) Hotel management (.001), DTPO (.030), Home Nursing (.023), EDP (.040), Security Guards (.001), CNC operator (.028) and courses such as welder (.034) and fitter (.040) on part time job employment. **Thus the null hypothesis is rejected.**

6.3.3 Reason for Joining and employability

An attempt was made in table to find the reason behind joining for the course from past students of different streams. Each and every student has their different intention while joining for the course. The researcher made an attempt to understand their purpose of joining for the course. The purpose of each and every student is different based on their likings, their future career, past friends from lower classes, place of education, campus of institution, travelling distance to the institution, transport facility available, etc. The Students were given 4 options to select for which the student has joined for the course. The various options are "Scope for self-employment", "Scope for job", "Scope for Higher Education" and any other reason. The objective was to know whether students had opted for a particular course because of starting their own business, whether they want to go for job or after completing a course they want to join higher studies and last option was kept open to know their purpose apart from the options offered. Those other reasons expected by the researcher could be they do not like the course or they do not like general stream or they didn't get admission for other course etc. The various reasons disclosed by the past students are shown in the above table as follows:-

H03: There is no significant association between reason for joining and employability of past students in Goa.

Table 6.20: Table showing cross tabulation of present status and reason for joining

	Present Status	of the respondents * Reason					
			Re	eason for joinin	g the Corse		Total
			Scope for Self- Employment	Scope for Job	Scope for Higher Education	Others	
		Count	57	15	1	0	73
	Self-Employment (Full Time)	% within Present Status of the respondents	78.1%	20.5%	1.4%	0.0%	100.0%
	,	% of Total	9.1%	2.4%	0.2%	0.0%	11.7%
		Count	7	5	6	0	18
	Self-Employment (Part Time)	% within Present Status of the respondents	38.9%	27.8%	33.3%	0.0%	100.0%
		% of Total	1.1%	0.8%	1.0%	0.0%	2.9%
	Job Employment (Full Time)	Count	41	211	16	5	273
		% within Present Status of the respondents	15.0%	77.3%	5.9%	1.8%	100.0%
Present Status of		% of Total	6.6%	33.8%	2.6%	0.8%	43.8%
the respondents		Count	2	9	4	0	15
	Job Employment (Part Time)	% within Present Status of the respondents	13.3%	60.0%	26.7%	0.0%	100.0%
		% of Total	0.3%	1.4%	0.6%	0.0%	2.4%
		Count	2	70	60	2	134
	Pursuing Higher Education	% within Present Status of the respondents	1.5%	52.2%	44.8%	1.5%	100.0%
		% of Total	0.3%	11.2%	9.6%	0.3%	21.5%
		Count	28	65	15	3	111
	Unemployed	% within Present Status of the respondents	25.2%	58.6%	13.5%	2.7%	100.0%
		% of Total	4.5%	10.4%	2.4%	0.5%	17.8%
		Count	137	375	102	10	624
Total		% within Present Status of the respondents	22.0%	60.1%	16.3%	1.6%	100.0%
		% of Total	22.0%	60.1%	16.3%	1.6%	100.0%

It is revealed from the above table (6.20) that majority of the past students (60.1%) from different streams have joined the course because of scope for the job whereas some students (22.0%) had joined because of scope of self employment and the remaining students (16.3% and 1.6%) chose the course for the purpose of joining higher education and due to some other reasons.

The data of present status shows that most of the students are full time job employed (43.8%) and part time job employed (2.4%) whereas 11.7% and 2.9% are full time and part time Self-employed while 21.5% are pursuing higher education and the remaining students (17.8%) are unemployed due to some or the other reasons.

It can be interpreted from the above analysis that most of students from different streams have joined for the course with an intention that there is a scope for the job and they will get the job if skill courses are chosen in the respective field of studies. Some students have joined for the purpose of starting their own business in which skill education imparted by the institutions. Another group of students from various streams

had an intention to pursue higher education and few students cited some other reasons. The data also reveals that most of the students who joined with the specific intention have fulfilled either joining for the job, by starting their own business or going for further studies. It shows that there is a relation of reason for joining the course to the present status of the students. The department of Education and Ministry of Skill Development had introduced skill courses with an intention that students will start their own business and they will become highly competent on the job. But it is seen from the above analysis most of the students from different streams are not interested in starting their own business whereas they are willing to go for job and the remaining students want to go for higher studies.

Table 6.21: Table showing Chi-square value

	Chi-Square Tests					
	Value	Df	Asymp. Sig. (2-sided)			
Pearson Chi-Square	278.633ª	15	.000			
Likelihood Ratio	253.868	15	.000			
Linear-by-Linear Association	76.415	1	.000			
N of Valid Cases	624					
a. 10 cells (41.7%) have expected count less than 5. The minimum expected count is .24.						

Table 6.22: Table showing Coefficients value

			Coefficients ^a			
Model		Unstandard	ized Coefficients	Standardized Coefficients	T	Sig.
		В	Std. Error	Beta		
1	(Constant)	2.101	.184		11.437	.000
1	Reason for joining the Course	.821	.088	.350	9.325	.000
a. Depo	endent Variable: Present Status of	the respondents				

The *Chi-square test* (table 6.21) was run to see whether there is any association between the expectations of the students and present status of the students to know whether they are employed on job, self-employed, pursuing higher education or still unemployed. The **Pearson** *Chi-square* **test** value (278.633) at 5% significance (2-tailed) is 0.000. The *Coefficients value* (table 6.22) also significant, *t*=11.437 and its corresponding *p* value is 0.000 which is less than 0.05 at 5% level of significance. This signifies that there is a significant association between the reason for joining the course and present status of the students with respect to job employment, self-employment and pursuing higher education. It indicates that the students who have joined with a specific intention whether to join for the job or to start self employment or to pursue higher education have been fulfilled which shows that there is direct relation of reason for joining the course and the present status of the students in the state who have pass out from the respective trades. **Thus, the null hypothesis is rejected.**

6.4 Conclusion:

Table 6.23: Table showing a brief summary impact and association on employment and self-employment

Aspects of impact on employment and self-employment	Stream	Trade	Reason
Status of Past students	Rejected	Rejected	Rejected
1) Self- Employment and Job Employment	.000	.000	.000
1) Self-Employment (Full time/part time)	.000	.010	
3) Job-Employment (Full time/Part time)	.000	.011	

With the help of above table 6.23, and the hypothesis formed, it can be conclude from the past students that it shows a significant impact on employment (Self and Job employment) Stream wise and trade wise in the state of Goa. So also it reveals that there is a significant association between the reason for joining the course and status of past students. Thus based upon the above brief important findings, we can conclude that, "impact of skill development programmes on employment and self-employment is significant". It means a good number of past students are employed either on job or on self employment. So, the null hypothesis is rejected and alternate hypothesis is accepted. In general most of the past students are employed either on job or have started their own business in the field of education acquired. The association between reason for joining the course and status of the past students indicates that skill development programmes have benefited a lot to get employed on the job or to start self-employment.

This chapter has covered in detail data analysis and interpretation of selected sample respondents from the Past Students. The questionnaire was prepared by the researcher which was asked during the field work to fulfil the concerned objective. The researcher has also framed hypothesis for testing of the related sample respondents. The researcher has tried to cross verify the outcomes of the Past Students to make a detailed study and to draw a reliable conclusion. The researcher has tried to give applied suggestions on the basis of the conclusion. The researcher has collected data from from Past students are interpreted in this chapter. The researcher has made differentiation for making detailed and descriptive study of the collected data and has extracted results from it.

7. 1) Perception of Industrialists

7.1.1 Introduction

To evaluate skill development programmes in Goa, the industrialist views were also taken into consideration to know their opinions on the prevailing situation on training. Hence industrialists were also asked to give their opinions through structured close ended questionnaires. A total of 72 industries were considered for the study out of which 40 were Industrial units and 32 Startup companies from 12 different talukas in Goa. Most of the owners of industries were not willing to provide information whereby the Human Resource (HR) managers were asked to fill the required information. But, most of the startup eagerly supplied information required for the study. The industries consist of manufacturing, trading, service and some other category. Startup companies comprise of categories like manufacturing, trading and service concern were also considered for the study. The below analysis shows the various tables, interpretation and findings they are as follows:-

7.1.2 Social Profile

The table below (7.1) shows the profile of the industrialist collected gender wise, district wise and taluka wise for the study, which is as follow;

Table 7.1 Social Profile of the respondents (Gender, District, Taluka)

	Particulars	Frequency	Percentage
Gender	Male	63	87.5%
	Female	9	12.5%
	Total	72	100%
District	North	47	72.5%
	South	25	27.5%
	Total	72	100%
Taluka	Bardez	26	36.1%
	Pernem	5	6.9%
	Ponda	3	4.2%
	Tiswadi	12	16.7%
	Salcete	24	33.3%
	Mormugao	2	2.8%
	Total	72	100%

(Source: Field Work)

The total numbers of respondents were 72 out of which 63 were males and 9 were females i.e. 87.5% and 12.5% respectively. It means that most of the owners, managers and executives are male. It also depicts that there are two districts in Goa i.e. North districts and South districts. A study was undertaken in both the district north as well as South district to find the views of industrialists on skill development Programmes in Goa.

Out of 72 industries and startup companies 47 industries were from North district and 25 were from South district i.e. 72.5% industrialist were from North and 27.5% were from South district. An attempt was made by a researcher to select industries from all talukas in Goa. But it was quite difficult to find industries from all talukas since some talukas have less industries like Bicholim, Sattari in North district and Quepem, Sanguem, Dharbandora and Canacona in South district. Hence, only six talukas were considered and industrialists were collected from six talukas namely Pernem, Bardez, Tiswadi, Ponda, Salcete and Mormugao for the survey. Among the 6 talukas majority of the industrialist/ companies were from Bardez Taluka i.e. 36.1% followed by Salcete Taluka i.e 33.3% and remaining industrialist were from Tiswadi, Pernem, Ponda and Mormugao i.e. 16.7%, 6.9%, 4.2% and 2.8% respectively.

7.1.3: Sector of business

Table 7.2 (A, B, C) shows the sector of business in which the respondents are involved for the business they are manufacturing, trading and service. Besides 3 options of sector one more option was provided i.e. any other sector. The respondents were asked to tick mark the respective option in which the respondent involved in the business. So also various sub-options were also provided under each sector of manufacturing, trading and service sector. For manufacturing sector the options available were whether they produce "Consumer goods", "Fast Moving goods", "Industrial products" and "any other products". Under trading sector options were "Retailing", "Distributorship", "Warehousing" and "any other". So also for service sectors options allotted were "Tourism", "Event Management", "Consultancy", "Hotel / Restaurant", "Health care" and "any other".

Table 7.2A): Table showing Manufacturing industries

Sr No	Course		Particulars						
		Consumer goods	FMG	Industrial product	Any other				
1	Start-Ups	1(25.0)	1(25.0)	2(50.0)	-	4(100)			
2	Industries	5(13.5)	2(5.4)	17(45.9)	13(35.2)	37(100)			
3	Total	6(19.3)	3(9.7)	19(61.3)	13(31.7)	41(100)			

Table 7.2B): Table showing Trading industries

Sr No	Course		Total			
SI NO	Course	Retailing	Distributorship	Warehousing	Any other	Total
1	Start-Ups	-	-	-	-	-
2	Industries	-	1(100)	-	-	1(100)
3	Total	-	1(100)	-	-	1(100)

Table 7.2 C): Table showing Service industries

Sr	Course			Particula	ırs			Total
No		Tourism	Event	Consul-	Hotel/Re	Health	Any	
			Management	tancy	staurant	- care	other	
1	Start-Ups	4(21.0)	1(5.3)	6(31.6)	1(5.3)	-	7(36.8)	19(100)
2	Industries	-	=	3(27.3)	1(9.1)	-	7(63.6)	11(100)
3	Total	4(13.3)	1(3.3)	9(30.0)	2(6.7)	-	14(46.7)	30(100)

(Source: Field Work)

Out of the 72 respondents majority of the respondents i.e. 41 were in manufacturing sector while other major sector was service sector i.e. 30 and only 01 respondent was in trading sector. Out of 41 respondents from manufacturing sector, 61.3% were involved in Industrial product, whereas 19.3% were consumer goods producer, 9.7%b was FMG and remaining 31.7% were producing some other type of product. If it is seen from trading sector hardly one respondent was involved in trading activity that too he is in distributorship business. In the service sector most of the respondents i.e. 46.7% have not disclosed their business area and they do not fall under the various options available to them. Consultancy is an another broader area under service sector where the 30.0% of the respondents fall under this category followed by 13.3% tourism, 6.7% Hotel/ restaurant and 3.3% event management.

From the above analysis it can be interpreted that most of the industrialist involved in training students whether on the job, internship or short term training are from manufacturing sector (56.9%) followed by service sector (41.7%) and remaining respondents were from trading sector (1.4%). Majority of the industrialist fall under the category of manufacturing sector and the least of the respondents were in trading sector whereas a good number of respondents after manufacturing were surveyed from service sector. In manufacturing majority of the respondents were involved in industrial goods followed by consumer goods, FMG and some other products. Industrial goods are those goods which included plant, material and machinery used by other factories and industries/firms for manufacturing purpose. Consumer and eatable items, fast moving good are those goods that are sold quickly at a low cost which includes non-durable or perishable goods like soft drinks, toiletries, over the counter drugs, processed foods and many other consumables such as milk, gum, fruits, vegetables, soda beer etc. Only one respondent was survey from Trading sector i.e. Distributorship whereas Retailing and Warehousing were nil. In service sector majority of the respondents were consultants, event management while many respondents did not mention the area of service business (46.7%).

7.1.4 Firms / Companies provides training to the students

Table No.7.3 gives information of the training provided by the firm / department in the various industries in Goa. Hence the entrepreneurs were asked to give their responses using two options "Yes" or "No" which is shown below;

Table 7.3: Table showing Firms / Companies provides training to the students

Sr No	Course	Partic	Particulars				
	Course	Yes	No	Total			
1	Start-Ups	26(83.9%)	5(16.1%)	31(100%)			
2	Industries	35(97.2%)	1(2.8%)	36(100%)			
3	Total	61(91.0%)	6(9.0%)	67(100%)			

(Source: Field Work)

 $(Note: All \ sample \ respondents \ have \ not \ responded, so \ total \ sample \ respondent \ are \ less.)$

It was observed that most of the firms / companies do provide training to the student. On the whole 91.0% of the firms / companies stated that they provide training whereas only 9% claimed that they do not provide any sort of training to the students. Most of the HR managers and entrepreneurs of the companies i.e. 97.2% of the industries and 83.9% of startups companies provide training whereas only 2.8% and 16.1% respectively do not provide training to the students.

It can be interpreted that most of the firms / companies take students for training during the course or after the course work. There is no difference between start-up companies and industrialists existing for a long time. Very few respondents said that they do not provide training to the students. It indicates that most of the companies in Goa are ready to accept students for training purpose in the industries. It is necessary to find companies and send students for practical training in those companies. The firms/ companies should be selected for the training on the basis of those who are ready to accept students for training in the industries. It is necessary for the government to make it mandatory for all the companies to accept students for practical training on the job as internship for 6 months. The government should pay per student to the industrialist and the industry should pay stipend to the students for taking training on-the job. The government should prepare a model to provide practical training in industries rather than providing such training in the institutions itself. The concerned teacher should be made in-charge to look after students and to keep track on students. The principal and government officers should also check that the system is working properly though a surprise visit every fortnight or monthly to the industries wherever students are deployed for the training.

7.1.5 Type of training provided by company

Table No.7.4 indicates the type of training provided by the company during the course work or before recruitment on the job. The respondents were given four option to rank the type of training offered by the industries i.e. "on-the job training", "internship", "apprenticeship" or "any other type of training", which are as follows;

Table 7.4: Table showing type of training provided by companies

Sr	Course		Particulars						
No		On the Job training	Internship	Apprenticeship	Any other				
1	Start-Ups	25(78.1)	8(25.0)	1(3.1)	2(6.3)	36 (N=32) **			
2	Industries	34(85.0)	14(35.0)	14(35.0)	1(2.5)	63 (N=40) **			
3	Total	59(81.9)	22(30.6)	15(20.8)	3(4.2)	99 (N=72) **			

(Source: Field Work)

Note: * Multiple responses so total is more than N.

** Percentage to number of respondents N=72.

The researcher has calculated percentage with regards to total sample size (N=72) and not based on multiple responses given by the respondents. The respondents were given option to make multiple responses and as per multiple responses ranked the total respondents comes to 99, 63 and 36 which is not considered for calculating percentage that is why the total percentage is more than 100%. Majority of the respondents disclosed that they provide training in the form job training i.e. 81.9% followed by internship to the students i.e. 30.6%, apprenticeship i.e. 20.8% and remaining 4.2% some other type of training. Most of the industries i.e. 85.0% provide job training and equal number of respondents i.e. 35.0% each provide internship and apprenticeship training and few some other type of training i.e. 2.5% while most of the startup companies i.e.78.1% provide on-the job training followed by 25.0% internship and few provide apprenticeship and some other type of training i.e. 3.1% and 6.3% respectively.

It is interpreted from above analysis that most of the industrialist provides job training which means students are trained on the job at work place along with the other employees working in the industry for a limited period. Some of the industrialist takes students on internship ranging from one month to 6 months period as per the guidelines of the institutions. Some other industrialist accept students on apprenticeship training for a longer period of time from 6 months to 2 years as a part of course work where the students are paid in the form of stipend and certificate is issued to the students. The study reveals that most of the industries and startup companies provide training on the job.

7.1.6 Number of students trained by your firm

Table 7.5 indicates the number of students trained for last 4 years i.e. 2012 to 2015 in the industries whether it is for short period, medium or long term. The students were trained on the job, internship basis, apprenticeship and any other type of training is provided to the students and trainees those who undergo various types of skill courses under skill development programmes are shown below;

Table 7.5: Table showing number of students trained by your firm

Sr	Course		Pa	rticulars		Total
No		2012	2013	2014	2015	
1	Start-Ups	25 (4.9)	43 (0.6 times)	108 (4.3 times)	331 (13.2)	507(100)
			(8.5)	(21.3)	(65.3)	
2	Industries	168(17.2)	208 (1.2 times)	258 (1,5 times)	340 (2.1 times)	974(100)
			(21.3)	(26.6)	(34.9)	
3	Total	193 (13.1)	251 (1.3 times)	366 (1.9 times)	671 (3.5 times)	1481
			(16.9)	(24.7)	(45.3)	(100)

(Source: Field Work)

It can be observed from the above table that training provided to students and trainees has been increased from 193 trainees in 2012 to 251, 366 and 671 trainees in 2013, 2014 and 2015 respectively. So also in case of industries it has gone up from 168 to 208, 258 and 340 from 2012 to 2015 respectively where the startup shows the increasing trend from 25 in 2012 to 43, 108 and 331 in 2013, 2014 and 2015 respectively.

The above table 7.5 shows that the industries provide training to the students or trainees is increasing year after year. It means the industrialist accept more and more students for training from 2012 to 2015. To calculate trend of the trainees trained in the companies, year 2012 was taken as a base. On the basis of year 2012 it shows increasing trend i.e. 1.3, 1.9 and 3.5 times from 2013 to 2015. Industries shows upward trend i.e. 1.2, 1.5 to 2.1 times from 2013 to 2015 respectively whereas startups too indicates upward trend i.e. 0.6, 4.3 and 13.2 times from 2013 to 2015. Most of the students are trained in 2015 i.e. 34.9% followed by 26.6%, 21.3% and 17.2% in the year 2014, 2013 and 2012 respectively in industries where as 65.3%, 21.3%, 8.5% and 4.9% are trained by startup from 2015 to 2012 respectively.

It can be interpreted that the students accepted by the industrialists and start-up companies for training shows an increasing trend every year from 2012 to 2015. It shows slow increase for 2013 and 2014 which has increased to 1.9 times as compared to 2012. But in the year 2015 the acceptance of students for training purpose has increased in many fold i.e. 3.5 times as compared to 2012. It is a positive sign shown by the industrialist for accepting students for training. The industrialist has realized the

importance of students taken for training because students learn better during the course work and they learn requirements of job needed after completion of course to be done on the job. The industrialist even gets their work done at a low cost by just paying small amount as stipend. The trend of trainees accepted between industries and startup companies shows increasing trend but the number of trainees accepted by startup companies are more than the industries. The trainees taken for training by startup companies are many folds more than the other industries. The startup companies have trained 13.2 times more in the year 2015 as compared to 2012 and 4.3 times and 6 times in the corresponding years whereas industries show only 2.1 times increased in year 2015 as compared to 2012. Since startup companies are newly established unit they depend upon the freshers studying in the institution or recently past out. It become a cost cutting factor for them for accepting students and getting their work done at a lower cost. Majority of the students are trained in the year 2015 as compared to previous years. Startup companies shows more percentage of students as compared to industries trained in the year 2015 i.e. 65.3% and 34.9% respectively where as for other years the percentage of trained students are more by other industries than startup companies.

7.1.7 Number of students employed by the firm after training

Table 7.6 indicates the number of students employed by firms or industries after training in the industries. The number of years considered for the study was 4 years i.e. 2012 to 2015. An attempt was made to find the number of student employed by the same company after they are trained in the industry.

Table no. 7.6 Number of students employed by the firm after training

Sr	Course		Pa	rticulars		Total
No		2012	2013	2014	2015	
1	Start-ups	16(3.7)	32 (2.0 times) (7.5)	88 (5.5 times) (20.5)	293 (18.3 times) (68.3)	429(100)
2	Industries	120(22.8)	114 (0.10 times) (21.7)	135 (1.1 times) (25.7)	157 (1.3 times) (29.8)	526(100)
3	Total	136(14.2)	146 (1.1 times) (15.3)	223 (1.6 times) (23.4)	450 (3.3 times) (47.1)	955(100)

(Source: Field Work)

It reveals from the above table 7.6 that the number of student employed by the firm / company shows increasing trend i.e. 1.1 times, 1.6 times and 3.3 times from the year 2013, 2014 and 2015 respectively. The year 2012 was taken as a base to find the trend of the students employed by the firm. Startup companies shows higher trend as compared to other industries. Startup companies employed more students in percentage

wise to other industries. The employed students of startups after training have gone up from 2 times, 5.5 times and 18.3 times in the year 2013, 2014 and 2015 respectively whereas other industries have employed at the rate of 0.10 time, 1.1 times and 1.3 times during the same years respectively. Most of the students i.e. 47.1% are trained in the year 2015 followed by 23.4%, 15.3% and 14.2% in the corresponding previous years.

It can be interpreted from the above analysis that majority of the students are employed in the years 2015 compared to past years from 2015. A difference is seen between startup companies and other industries that more number of students are employed i.e.68.3% by startup companies in the year 2015 as compared to other industries during the same year whereby for the previous 5 years i.e. 2012 to 2014 more students were employed by other industries as compared to startup companies. There is an overall increasing trend of students taken on which has gradually increased from 2012 to 2015. But, startup companies shows faster trend of accepting students for employment than other industries. The trend of training students of startup has increased to 18.3 time in 2015 with reference to 2012 as compared to other industries during the same period i.e. 1.3 times.

7.1.8 Type of candidate preferred for the job

Table No.7.7 depicts the type of candidate companies and industrialist expect for the job. The respondents were given different option to rank such as "skilled", "unskilled", "trained", "untrained", "experienced" and "inexperienced". The total numbers of respondents are 72 but one of multiple responses, the number of respondents shown in the table is 71, 46 and 117.

Table 7.7: Table showing type of candidate preferred for the job

Sr				Par	ticulars			
No	Course	Skilled	Un- skilled	Trained	Un- Trained	Experi- ence	In Experience	Total
1	Start-ups	18(56.3)	2(6.3)	12(37.5)	2(6.3)	10(31.3)	2(6.3)	46 (N= 32)* **
2	Industries	25(62.5)	4(10.0)	17(42.5)	6(15)	18(45)	1(2.5)	71 (N= 40) * **
3	Total	43(59.7)	6(8.3)	29(40.3)	8(11.1)	28(38.9)	3(4.2)	117(N= 72)* **

(Source: Field Work)

(Note: * Multiple responses so total is more than N.

** Percentage to number of respondents N=72.

The percentage is calculated on the basis of N=40, N=32 and N=72 with regards to industries, startup companies and total respectively and not on the total respondents responded i.e. 71, 46 and 117 respectively. Most of the respondents i.e. 59.7% prefer skilled employees for job followed by trained and experienced i.e. 40.3% and 38.9% respectively whereas few respondents prefer untrained, unskilled and inexperienced candidates for the job i.e. 11.1%, 8.3% and 4.2% respectively. There is no difference in expectation between startup companies and other industries both of them prefer skilled candidates i.e. 56.3% and 62.5% respectively followed by experience and trained candidates in case of other industries whereas trained and experience candidates in case of startup companies.

7.1.9 Testing Hypothesis:

To verify the fifth objective of the study i.e. to identifying the gap between Human Resource Requirements by Industries and the Availability of Human Resources in the state of Goa, the following hypothesis was formed;

H0: Requirement of Human Resources to the Availability of manpower is adequate. H1: Requirement of Human Resources to the Availability of manpower is inadequate.

Two hypotheses were framed with reference to skills and qualification and tested with various statistical tools such as *mean and independent sample t-test* were used to serve the objective. Further the data collected from industries and start-up companies was grouped together and tabulated to find out whether there is any gap between requirement in the industries and availability of manpower in the market based on skills and qualification in the state of Goa. The data collected from the respondents was grouped into four important areas for skills and eleven areas for qualification to find out any gap in requirement and availability of manpower in the following aspects they are;

- A) For skills 1) Specialized skilled, 2) Highly Skilled, 3) Semi-skilled and 4) Minimally skilled
- B) For qualification 1) NSQF certificate Holders, 2) Vocational certificate Holders,3) PG Degree holders, 4) ITI Certificate holder, 5) Diploma Holders, 6) HRDFS

Technical Students, 7) EDP Trainees, 8) Security Guards, 9) Tailoring and Embroidery trainees and 10) Apprentices. The information was collected on the above area from 72 industrialists and proprietors of start-up companies from all over the Goa.

7.1.10 Gap between Requirement and availability of workers.

H01: There is no significant gap between the requirement and the availability of skilled workers based on skills in the State of Goa.

Table 7.8 Table showing required and available skilled manpower (Level of skills)

Types	Skills	(a) Req	(a) Requirement of Manpower			(b) Availability of manpower			
		Low	%	High	%	Low	%	High	%
Levels of	Specialized skills	25	(34.7)	47	(65.3)	64	(88.9)	8	(11.1)
skills	Highly Skilled	23	(31.9)	49	(68.1)	57	(79.2)	15	(20.8)
	Semi skilled	33	(45.8)	39	(54.2)	31	(43.1)	41	(56.9)
	Minimally skilled	46	(63.9)	26	(36.1)	10	(13.9)	62	(86.1)

Table 7.8 shows the quantitative skill gap analysis of human resource in the industries for which the researcher has included the demand side and supply side i.e. 'Requirement of Manpower' by the industries and "Availability of Manpower" which were trained by the centers. An attempt was made to find the gap between industry academia linkage and the gap that exist between them. The analysis was made on the basis of level of skills. Skills were divided into 4 categories which are specialized skills, highly skilled, semi-skilled and minimally skilled depending upon the nature, duration of training and education received by the students; the various employees are categorized to match the different 4 level of skills. Specialized skilled workers are those who are specialized in one of the trade and little knowledge of other trades, these types of employees are generally post graduates, engineers etc. The Highly skilled employees include graduates and diploma holders whereas semi skilled workers are ITI pass outs, Xth and XIth pass outs. The minimally skilled are in other words they are minimally qualified or uneducated labourers like early school drop-outs, 10th or 12th standard dropouts etc.

The majority of the industrialist opined that there is a high requirement / demand for manpower in Specialized skills, highly skilled and semi-skilled workers i.e. 65.3%, 68.1% and 54.2% whereas low requirement/demand of manpower for minimally skilled employees i.e. 63.9%. On the contrary most of the respondents revealed that there is a low availability/supply of highly skilled and semi-skilled workers i.e. 88.9% and 79.2% whereas high availability of workers in case of semi skilled and minimally skilled employees i.e. 56.9% and 86.1% respectively.

From the above analysis it can be interpreted that demand for manpower is high in case of specialized skilled and highly skilled workers but the supply side of trained youth is low. In case of semi-skilled workers requirement of manpower is high so also availability of manpower is also high and for minimally skilled requirement of workers is high. It means it is a matter of concern with regards to specialized skilled and highly skilled workers since there is a negative gap between requirement and availability or demand and supply. There is a lot of demand for specialized skilled and highly skilled workers but there is low supply or scarcity for availability of trained employees for the job. In case of semi-skilled workers there is no gap which means there is no difference between requirement and availability of workers. The demand and supply are both high which means as there is a high requirement of workers in industry the institutions and the training centers also train or prepare students in the respective trades required by the industries. The minimally skilled worker does not need to be worried because there is a positive gap between the requirement and availability of workers. It indicates that there are lot of minimally skilled workers available in the market on daily basis at a lower rate due to high population and lot of uneducated people in India. They search for the job to earn their livelihood and day today life.

Table 7.9: Table showing group statistics

		Mean	N	Std. Deviation
Pair 1	Specialized Skills Required	1.64	72	.484
Pair 1	Specialized Skills Available	1.10	72	.298
Pair 2	Highly Skilled Required	1.68	72	.470
rall Z	Highly Skilled Available	1.18	72	.387
Pair 3	Semi Skilled Required	1.54	72	.502
rall 3	Semi Skilled Available	1.60	72	.494
Pair 4	Minimally Skilled Required	1.38	72	.488
i ali 4	Minimally Skilled Available	1.86	72	.348

Table 7.10: Table showing 2 t-test

		Mean	Std. Deviation	Т	Df	~	Null hypothesis
Pair 1	Specialized Skills Required - Specialized Skills Available	.542	.627	7.335	71	.000	Reject
Pair 2	Highly Skilled Required – Highly Skilled Available	.500	.712	5.958	71	.000	Reject
Pair 3	Semi Skilled Required – Semi Skilled Available	056	.767	615	71	.541	Retain
Pair 4	Minimally Skilled Required – Minimally Skilled Available	486	.692	-5.962	71	.000	Reject

The table 7.10 clearly indicates that there is significant difference between the requirement and availability of specialized skilled, highly skilled and minimally skilled labours. The mean values (table 7.9) indicate that the requirement of specialized skilled and highly skilled labours is more but the availability is less whereas in case of minimally skilled labours availability is more than the requirement of workers. No significant difference is shown in-between the requirement and availability of semi skilled labours, thus Null hypothesis is rejected.

7.1.11 Gap between Requirement and availability of workers (Qualification).

H02: There is no significant gap between the requirement and the availability of skilled workers based on Qualification in the State of Goa.

Table 7.11 Table showing required and available skilled manpower (Qualification)

Types	Skills	(a) Re	quiremen	t of Man	power	(b) Availability of manpower			
		Low	%	High	%	Low	%	High	%
	a)NSQF certificate Holders	55	(76.4)	17	(23.6)	37	(51.4)	35	(48.6)
	b) Vocational certificate Holders	40	(55.6)	32	(44.4)	18	(25.0)	54	(75.0)
	c)ITI Certificate holder	17	(23.6)	55	(76.4)	27	(37.5)	45	(62.5)
a1 !!!	d) PG Degree holders	25	(34.7)	47	(65.3)	30	(41.7)	42	(58.3)
Skills	e) Diploma Holders	18	(25.0)	54	(75.0)	40	(55.6)	32	(44.4)
Qualification	f) HRDFS Technical Students	35	(48.6)	37	(51.2)	38	(52.8)	34	(47.2)
	g) EDP Trainees	54	(75.0)	18	(25.0)	39	(54.2)	33	(45.8)
	h) Security Guards	48	(66.7)	24	(33.3)	35	(48.6)	37	(51.4)
	i) Tailoring and Embroidery trainees	55	(76.4)	17	(23.6)	31	(43.1)	41	(56.9)
	J) Apprentices	19	(26.4)	53	(73.6)	46	(63.9)	26	(36.1)
	1)Others(specify)	0	0	0	0	0	0	0	0

(Source: Field Work)

Table 7.11 shows the quantitative skill gap analysis of human resource in the industries on the basis of 'Requirement of Manpower by the industries' and "Availability of Manpower" to find the gap between industry academia linkage and the gap that exist between them based on skills qualification. The various types of qualification considered were NSQF certificate holders, vocational certificate holders, ITI students, post graduate holders, Diploma holders, HRDFS students, EDP certificate holders, security guards, tailoring and embroidery trainees, apprentices and other trainees from agriculture, animal husbandry and urban development to know the deficit or surplus created in each and every skill of imparted skills. The qualification wise analysis shows that there is low demand for NSQF certificate holders, vocational certificate holders, entrepreneurship development trainees, security guards, tailoring and embroidery trainees are other initiative trainees i.e. 76.4%, 55.6%, 75%, 66.7%, and 76.4% respectively whereas there is a high demand for workers in case of ITI pass-outs students, PG degree holders, diploma holders, HRDFS students, and apprentices i.e. 76.4%, 65.3%, 75%, 51,2% and

73.6% respectively. on the other hand there is a low availability of manpower incase of NSQF, certificate holders, diploma holders, HRDFS students, EDP trainees, and apprentices i.e. 51.4%, 55.6%, 52.8%, 54.2% and 63.9% whereas the availability of workers is high in case of vocational certificate holders, ITI certificate holders, PG degree holders, security guards, tailoring and embroidery trainees trainees i.e. 75%, 62.5%, 58.3%, 51.4% and 56.9% respectively.

The qualification wise interpretation reveals that the requirement of workers as well as availability of workers with regards to NSQF certificate holders, EDP is low which indicates that demand for workers these three categories of certificate holders is less in the industries as well as their students trained and supplied is also low. In case of vocational students, security guards, tailoring and embroidery students and OITSG trainees the requirement of workers is low but the availability of workers is high. It means that in these 4 categories of workers industries should not worry since there are sufficient institutions to train manpower and they are easily available whereby their requirement is low to the industries. The requirement for ITI students and post graduate students from universities is high but their availability of workers is equally high. It shows that even though there is a high demand for workers for these types of works there are enough institutes to train such type of workers. In case of diploma holders, HRDFS students and apprentices, the requirement of workers is high but the availability of workers is low. It indicates that in these categories of workers there is a good demand for workers but the institutions are less to train students in respective trades which is a great concern of the industries.

Table 7.12: Table showing Crosstabs (Qualification)

		Mean	N	Std. Deviation
Pair 1	NSQF Certificate Required	1.19	72	.399
rall I	NSQF Certificate Availability	1.50	72	.504
Pair 2	Vocational Certificate Required	1.47	72	.503
rali Z	Vocational Certificate Availability	1.75	72	.436
Pair 3	ITI Certificate Required	1.78	72	.419
rall 3	ITI Certificate Availability	1.60	72	.494
Pair 4	PG Degree Required	1.64	72	.484
Pall 4	PG Degree Availability	1.60	72	.494
Pair 5	Diploma Required	1.81	72	.399
Pail 5	Diploma Availability	1.40	72	.494
Pair 6	HRDFS Courses certificate Required	1.49	72	.503
Pall 6	HRDFS Courses certificate Availability	1.53	72	.503
Pair 7	Entrepreneurship Development certificate Required	1.25	72	.436
Pali /	Entrepreneurship Development certificate Availability	1.40	72	.494
Pair 8	Security Guards Required	1.39	72	.491
Pall o	Security Guards Availability	1.50	72	.504
Pair 9	Tailoring & Embroidery Required	1.22	72	.419
Pail 9	Tailoring & Embroidery Availability	1.58	72	.496
Pair 10	Apprentices Required	1.72	72	.451
raii 10	Apprentices Availability	1.32	72	.470

Table 7.13: Table showing t-test values (Qualification)

		Mean	Std.	Т	Df	Sig. (2-	Null Hypothesis
			Deviation			tailed)	(H0)
Pair 1	NSQF Certificate Required – NSQF Certificate Availability	306	.705	-3.678	71	.000	Reject
Pair 2	Vocational Certificate Required - Vocational Certificate Availability	278	.697	-3.384	71	.001	Reject
Pair 3	ITI Certificate Required – ITI Certificate Availability	.181	.699	2.193	71	.032	Reject
Pair 4	PG Degree Required – PG Degree Availability	.042	.740	.478	71	.634	Retain
Pair 5	Diploma Required – Diploma Availability	.403	.705	4.846	71	.000	Reject
Pair 6	HRDFS Courses certificate Required - HRDFS Courses certificate Availability	042	.740	478	71	.634	Retain
Pair 7	Entrepreneurship Development certificate Required - Entrepreneurship Development certificate Availability	153	.725	-1.788	71	.078	Retain
Pair 8	Security Guards Required – Security Guards Availability	111	.848	-1.111	71	.270	Retain
Pair 9	Tailoring & Embroidery Required - Tailoring & Embroidery Availability	361	.775	-3.955	71	.000	Reject
Pair 10	Apprentices Required – Apprentices Availability	.403	.705	4.846	71	.000	Reject

The table 7.13 *independent sample t-test* indicates that there is significant difference between the requirement and availability of workers in NSQF certificate holders, Vocational certificate holders, ITI holders, Diploma holders, Tailoring and embroidery trainees, apprentices and other certificate holders like agriculture, animal husbandry, urban development. The mean values in (table 7.12) indicate that the requirement of ITI certificate holders, Diploma holders, Apprentices are more but the availability is less whereas NSQF certificate holders, Vocational certificate holders Tailoring and embroidery trainees, availability is more but their requirement is less. There is no significant difference between the requirement and availability of PG certificate holders, HRDFS technical students, EDP trainees, and Security guards. So in most of the variable (7) there exist a significant difference, **thus Null hypothesis is rejected.**

7.1.12 Conclusion:

Table No: 7.14 Table showing a brief summary of requirement and the availability of skilled workers

Aspects of requirement and Availability of human resource	Skills	Qualification
Gap between Requirement and availability	Rejected (sig.)	Rejected (sig.)
1) Specialized skills	.000	
2) Highly Skilled	.000	
3) Semi Skilled	.541	
4) Minimally Skilled	.000	
5) NSQF certificate Holders		.000
6) Vocational certificate Holders		.001
7) PG Degree holders		.032
8) ITI Certificate holder		.634
9) Diploma Holders		.000
10) HRDFS Technical Students		.634
11) EDP Trainees		.078
12) Security Guards		.270
13) Tailoring and Embroidery trainees		.000
14) Apprentices		.000

With the help of above table (7.14) and the hypothesis formed, it can be conclude that according to industrialist there is a significant gap in most of the variables tested above for requirement and availability of workers related to skills and qualification. Based on skills it is observed that there is difference between requirement and availability in specialized skills, highly skilled, and minimally skilled workers whereas no difference is found in semi-skilled workers. Further with reference to qualification there is a significant gap between requirement and availability in NSQF certificate holders, Vocational certificate holders, ITI holders, Diploma holders, Tailoring and embroidery trainees, apprentices and other certificate holders.

Thus based upon the above brief findings, we can conclude that, "requirement of Human Resources to the availability of skilled workers is significant". It means that there is a significant gap between requirement of skilled workers and the availability of workers. In other words requirement and availability of workers is inadequate. So null hypothesis is rejected and alternate hypothesis is accepted.

In general it indicates that the supply of trained workers is not sufficient to cope up with the requirement of workers in the industries for specialized skills and highly skilled whereas supply of minimally skilled workers is more than the requirement. The requirement of skilled workers and availability with regards to semi skilled is more or less same whereby there is no need to concentrate more on training semi skilled workers.

7.2. Perception of Skill Development programmes

7.2.1 Introduction:

To evaluate perception of skill development programmes in Goa, all stakeholders were taken into consideration to know their opinions on the prevailing situation on introduction of skill programmes in Goa. Hence all respondents were asked to give their opinions through structured close ended questionnaires. A total 1280 respondents were considered for the study out of which 81 were institutional heads, 503 present students, 624 past students and 72 were industrialist from 12 different talukas in Goa. The below analysis shows the various tables, interpretation and findings which are as follows:-

7.2.2 Hypothesis testing

To verify the sixth objective of the study i.e. to compare the perceptions of different stakeholders regarding skill development programmes in the state of Goa, the following hypothesis was framed;

H0: Perceptions of different stakeholders regarding skill development programmes is not significant.

H0: Perceptions of different stakeholders regarding skill development programmes is significant.

Three hypotheses were framed with reference to introduction of skill development programmes, responsibility of failure and reason for failure and they were tested with the help of various statistical tools such as *cross tabulation*, *ANOVA*, *multiple comparison* and post Hoc test to serve the objective. Further the data collected from all four stakeholders i.e. institutional heads, present students, past students and industrialist was grouped together and tabulated into tables to find out any difference in perception of different stakeholders towards skill development programmes in the state of Goa. The objective was specially formulated by keeping in mind to know the overall perceptions of all the stakeholders which are considered separately in the previous objectives to find results for the respective objective. This objective was framed in such a way that the perception of all four different stakeholders were combined together to know their opinion on three different variable on Skill Development Programmes in Goa.

7.2.3 Perceptions regarding Introduction of Skill Development programmes

H01: There is no significant difference in the perceptions of different stakeholders regarding introduction of skill development programmes in the State of Goa.

Table No. 7.15: Table showing cross tabulation (introduction of skill development

programmes)

introd	introduction of skill Development Programmes in Goa * categories Crosstabulation										
				Categ	ories		Total				
			H.O.D	Present student	Past student	Industr- ialist					
		Count	50	331	370	36	787				
introduction of	-	% within categories	61.7%	65.8%	59.3%	50.0%					
skill Development		% of Total	3.9%	25.9%	28.9%	2.8%	61.5%				
Programmes	Failure	Count	31	172	254	36	493				
1 Togrammes		% within categories	38.3%	34.2%	40.7%	50.0%					
		% of Total	2.4%	13.4%	19.8%	2.8%	38.5%				
Total		Count	81	503	624	72	1280				
		% within categories	100.0%	100.0%	100.0%	100.0%	100.0%				
		% of Total	6.3%	39.3%	48.8%	5.6%	100.0%				

Table No. 7.16: Table showing ANOVA test

ANOVA										
Introduction of skill Development Programmes in Goa										
Sum of Df Mean Square F Sig.										
	Squares									
Between Groups	2.212	3	.737	3.130	.025					
Within Groups	300.148	1274	.236							
Total	302.361	1277								

Table No. 7.17: Post Hoc Tests

(I) categories	(J) categories	Mean Difference (I-J)	Std. Error	Sig.
	Present student	.025	.059	.669
H.O.D	past student	040	.058	.491
	Industrialist	133	.079	.093
	H.O.D	025	.059	.669
Present student	past student	065	.029	.025
	Industrialist	158 [^]	.061	.010
	H.O.D	.040	.058	.491
past student	Present student	.065	.029	.025
•	Industrialist	093	.060	.124
	H.O.D	.133	.079	.093
Industrialist	Present student	.158	.061	.010
	past student	.093	.060	.124

The *Cross tabulation* (table 7.15) shows that whether skill Development programmes are successful or failure in the state of Goa. The students were asked to rank on the basis of whether skill development programmes in Goa is "Successful" or "Failure". 61.5% of the institutional heads said that skill development programmes are successful while 38.5% said it is failure in the state of Goa. It means that the perception of most of the respondents from different categories on introduction of skill development programmes is successful in Goa whereas some of the respondents feels that skill development programmes are failure in Goa except in case of industrialist they feel it is neither successful nor failure i.e.50%-50%.

The *One way ANOVA* Table (7.16) shows that p value (0.025) which is less than 0.05 at 5% level of significance shows that a significant difference in the perception of different categories of respondents towards the introduction of skill development programmes in Goa. It indicates that there exists a significant difference between the perception from different categories towards successful or failure of skill programmes tested above.

The *Post Hoc test* table (7.17) reveals that there is a significant difference between the present students and past students (*p* value is .025) and present students and industrialist (*p* value is .010). It means even though all categories perceive that the skill programmes introduced in Goa, HoD and present students feels that skill programmes are more successful as compared to past students and industrialists, **thus it is concluded that null hypothesis is rejected.**

7.2.4 Perceptions regarding reason for failure

H02: There is no significant difference in the perceptions of different stakeholders regarding reason for failure of skill development programmes in the state of Goa.

Table No. 7.18: Table showing cross tabulation of reasons for failure

Skill Education Imparted Count 5 30 34 4 73					Cate	gories		Total
Skill Education Imparted Count S 30 34 4 73 73 74 74 73 74 74			H.O.D	Present	Past	Industri-		
Skill Education Imparted % within categories 16.1% 17.4% 13.2% 11.1%					student	student	alist	
Syllabi/Curriculum Framed Count 8 23 29 8 68 68 68 68 68 68 68				5		34	4	73
Syllabi/Curriculum Framed Count 8 23 29 8 68 68 68 68 68 68 68		Skill Education Imparted	% within categories	16.1%	17.4%	13.2%	11.1%	
Syllabi/Curriculum Framed % within categories 25.8% 13.4% 11.2% 22.2%			% of Total	1.0%	6.0%	6.8%	0.8%	14.7%
Framed % within categories 25.8% 13.4% 11.2% 22.2% 13.7%		Svllabi/Curriculum	Count	8	23	29	8	68
Reason for failure				25.8%	13.4%	11.2%	22.2%	
Implementation of Policy % within categories 41.9% 30.2% 29.8% 52.8% % of Total 2.6% 10.5% 15.5% 3.8% 32.4% 25.0% % within categories 29.0% 33.1% 24.4% 25.0% 27.8% 27		Tamed	% of Total	1.6%	4.6%	5.8%	1.6%	13.7%
Reason for failure Lack of Funds Count 9 57 63 9 138			Count	13	52	77	19	161
Reason for failure Lack of Funds Count 9 57 63 9 138		Implementation of Policy	% within categories	41.9%	30.2%	29.8%	52.8%	
Reason for failure			% of Total	2.6%	10.5%	15.5%	3.8%	32.4%
Reason for failure		Lack of Funds	Count	9	57	63	9	138
Failure Incompetent Teachers Count 6 14 32 8 60			% within categories	29.0%	33.1%	24.4%	25.0%	
Incompetent Teachers	Reason for		% of Total	1.8%	11.5%	12.7%	1.8%	27.8%
Mode Total 1.2% 2.8% 6.4% 1.6% 12.1%	failure	Incompetent Teachers	Count	6	14	32	8	60
Infrastructure in Institutions			% within categories	19.4%	8.1%	12.4%	22.2%	
Infrastructure Institutions Within categories 29.0% 15.1% 12.8% 22.2%			% of Total	1.2%	2.8%	6.4%	1.6%	12.1%
Institutions				9	26	33	8	76
Practical Training/Internship Count Coun			% within categories	29.0%	15.1%	12.8%	22.2%	
Practical Training/Internship % within categories 19.4% 0.0% 15.1% 38.9% % of Total 1.2% 0.0% 7.8% 2.8% 11.9% Count 7 10 15 0 32 Within categories 22.6% 5.8% 5.8% 0.0% % of Total 1.4% 2.0% 3.0% 0.0% 6.4%			% of Total	1.8%	5.2%	6.6%	1.6%	15.3%
Training/Internship		Described	Count	6	0	39	14	59
Count 7 10 15 0 32 Others % within categories 22.6% 5.8% 5.8% 0.0% % of Total 1.4% 2.0% 3.0% 0.0% 6.4%			% within categories	19.4%	0.0%	15.1%	38.9%	
Others % within categories 22.6% 5.8% 5.8% 0.0% % of Total 1.4% 2.0% 3.0% 0.0% 6.4%		Training/internship	% of Total	1.2%	0.0%	7.8%	2.8%	11.9%
% of Total 1.4% 2.0% 3.0% 0.0% 6.4%			Count	7	10	15	0	32
		Others	% within categories	22.6%	5.8%	5.8%	0.0%	
Count 31 172 258 36 497			% of Total	1.4%	2.0%	3.0%	0.0%	6.4%
	Total		Count	31	172	258	36	497
Total % of Total 6.2% 34.6% 51.9% 7.2% 100.0 %			% of Total	6.2%	34.6%	51.9%	7.2%	
Percentages and totals are based on respondents.	Percentages a	and totals are based on res	pondents.	•	i l			
a. Dichotomy group tabulated at value 1.	a. Dichotomy	group tabulated at value 1.						

Table No. 7.19: Table showing ANOVA test

Reasons									
	Sum of Squares	Df	Mean Square	F	Sig.				
Between Groups	5505.955	3	1835.318	9.443	.000				
Within Groups	4858.804	25	194.352						
Total	10364.759	28							

Table 7.20: Table showing Post Hoc Tests (Multiple Comparisons)

I) categories	(J) categories	Mean Difference (I-J)	Std. Error	Sig.
,	(-)8	= ()		3-8.
	Present student	-22.66071*	7.21517	.004
I.O.D	Past student	-32.62500*	6.97051	.000
	Industrialist	-3.37500	7.52901	.658
	H.O.D	22.66071*	7.21517	.004
Present student	Past student	-9.96429	7.21517	.179
	Industrialist	19.28571*	7.75607	.020
	H.O.D	32.62500*	6.97051	.000
ast student	Present student	9.96429	7.21517	.179
	Industrialist	29.25000*	7.52901	.001
	H.O.D	3.37500	7.52901	.658
ndustrialist	Present student	-19.28571*	7.75607	.020
	Past student	-29.25000*	7.52901	.001

The above table 7.18 highlights the reasons for failure of the course under skill development programmes in Goa. The various variables considered for the study were skill education imparted, Syllabus, Implementation of policy, availability of funds, Competency of teachers, infrastructure, practical training and any other reason they felt suitable for failure of the course. The Cross tabulation table shows that most of the respondents from different categories perceive it is the government or the system which is responsible for the failure of skill development programmes in Goa. Most of the respondents (32.4%) stated that policy framed by the ministry of skill development programmes is not implemented properly either by the state government or by the institutions. 27.8% of the respondents cited reason that funds are lacking and insufficient to develop infrastructure in the institute. 15.3% of the respondents are of the opinion that infrastructure in the institution is inadequate to create good atmosphere for the students to learn and also to lure students to join skill courses. 14.7% of the respondents are of the opinion that skill education imparted, 13.7% of the respondents feels that syllabus framed is not adequate and need to change as per the need of the industry, teachers (12.1%) and practical training (11.9%) are also some of the reasons for failure of the skill development programmes in Goa. There is no specific reason for the failure of Skill Development Programmes but many reasons make it unsuccessful.

The ongoing students (172 respondents) during personal interview mentioned that skill development programmes are failure in Goa for which lack of fund is an important issue followed by implementation of the policy. It is because the ongoing students feels that development of programmes possible only when the management has enough funds to improve infrastructure, proper laboratory for experiments, sufficient space in the building and other facilities required in the campus. Apart from lack of funds the ongoing students perceive that implementation of policy in the institutions, skill education imparted to students, infrastructure, syllabus framed, untrained teachers and some other factors too are responsible for failure of skill education programmes in Goa. The past students also stated that the implementation of the policy is one of the important reason for failure of skill development programmes in Goa.

Most of the Industrialists during personal interaction revealed that implementation of the policy is the main reason for failure of skill development programmes in Goa which is similar to the perception expressed by institutional heads and past students. It is followed by practical training or internship offered, syllabus and lack of funds, incompetent teachers, infrastructure in the institution, skill education imparted and some other reasons are responsible for failure.

It is interpreted from the above analysis that majority of the respondents from institutional heads, present students, past students and industrialists perceive that policy of skill mission of ministry of skill development is not properly implemented by the state government as well as institutions. Even Head of the institutions feels that the various institutions in the state are not even serious in implementing the policy. So also infrastructure in the institutes is a serious concern stated by institutional heads, present students, past students and industrialist which is unattractive and does not motivate students to join skill courses. Some feel that funds are not sufficient to purchase required equipments and also to improve overall infrastructure of the institute. Even some feels that syllabus framed by the authority is not up to the mark and need to be changed to meet the present challenges of the market and also the expectations of the industries. Some of respondents are of the opinion that skill education imparted is inadequate and the trainers/ teacher are not well trained to teach required syllabus as per the expectations of the students. Practical training in the various institutions is also not properly conducted in the institutions to train students at international level.

The One way ANOVA (table 7.19) shows that p value (.000) which is less than 0.05 at 5% level of significance which indicates that there is a significant difference in the perception of different categories of respondents towards reasons for failure of skill development programmes in Goa. The Post Hoc test (table 7.20) shows that there is a significant difference between the HoD and present students (P value is .004), HoD and past (p value is .000), present students and industrialist (p value is .020), past students and industrialists (p value is .001), It means even though all categories perceive that the implementation of policy is an important reason for failure of skill programmes in Goa, among all four categories, HoD and past students are having high significant difference in perception towards reason for failure as compared to present students and industrialist for all the variables tested, thus based on one way ANOVA test and multiple comparison table, null hypothesis is rejected.

It is suggested that ministry of skill development should make more provision in the budget to provide funds so that the institutions can make use of that money for the speedy development of skill programmes in Goa and improvement of infrastructure. In fact an attempt is made by the government of India to increase provision in the budget from 1000 cr. in 2013 to 3016/- cr. in 2017-18. So there is a continuous increase in provision for skill development in each and every past budget from last 5 years i.e. from 2013 to 2017. The increase was 3 times more in the budget for Ministry of Skill Development in 2017 as compared to 2013 but still it was one of the lowest budget only one step ahead to the Ministry of Development of North Eastern region with 2682/crores. The funds allocated for other ministries like Ministry of Human Resource Development is Rs 79686/- crores and Ministry of Urban Development with Rs. 34212/crores which are in many fold as compared to ministry of skill development in the current budget. It is necessary to consider ministry of skill development at par with other ministries for the overall development of the skill development so that the problem of funds shortage could be solved. The other reason is skill education imparted for which institutions need to look into the matter and see that whether skill courses are really relevant to the present market demand and as per requirement of the industries. So also it is the responsibility of the government, department of skill development and bureaucrats to see that policy should be framed with due care and there should be proper mechanism to check every year whether policy is implemented as it is and in the same manner framed by the department in the various institutions. It is further suggested that teacher should be trained properly and then employed for the teaching job. The department should frame guidelines for appointment of the teacher for the betterment of the students. So also curriculum framed by the department of skill development should be changed or modified after every 2 years as per the requirement of the market demand. Infrastructure also should be improved so that students should be proud enough to tell their friends that it is their institute and also feel like good atmosphere in the institute. The other reason is skill education imparted in the institutions which should be relevant to the present market demand and as per requirement of the industries. So also internship should be made compulsory to the all the streams and a separate model should be prepared for each course. Syllabus should be reframed after every 2 years.

7.2.4 Perceptions regarding responsibility of failure

H03: There is no significant difference in the perceptions of different stakeholders regarding responsibility of failure for skill development programmes in the State of Goa.

Table No 7.21: Table showing cross tabulation

			\$Responsibility*categories C	rosstabulation				
					Categ	ories		Total
				H.O.D	H.O.D Present Past Industr-			
					student	student	ialist	
			Count	19	117	157	27	320
		Government	% within categories	61.3%	67.6%	60.9%	77.1%	
			% of Total	3.8%	23.5%	31.6%	5.4%	64.4%
			Count	5	17	31	15	68
		Institutions	% within categories	16.1%	9.8%	12.0%	42.9%	
			% of Total	1.0%	3.4%	6.2%	3.0%	13.7%
			Count	4	33	31	12	80
		Students	% within categories	12.9%	19.1%	12.0%	34.3%	
		Students	% of Total	0.8%	6.6%	6.2%	2.4%	16.1%
			Count	5	5	14	6	30
		Parents	% within categories	16.1%	2.9%	5.4%	17.1%	
			% of Total	1.0%	1.0%	2.8%	1.2%	6.0%
Responsibility	for	Trainers/ Teachers	Count	3	11	36	11	61
failure			% within categories	9.7%	6.4%	14.0%	31.4%	
			% of Total	0.6%	2.2%	7.2%	2.2%	12.3%
			Count	6	7	10	7	30
		Media	% within categories	19.4%	4.0%	3.9%	20.0%	
			% of Total	1.2%	1.4%	2.0%	1.4%	6.0%
		G : . /	Count	6	13	20	10	49
		Society/ Public	% within categories	19.4%	7.5%	7.8%	28.6%	
		Public	% of Total	1.2%	2.6%	4.0%	2.0%	9.9%
			Count	6	5	19	6	36
		Industrialists	% within categories	19.4%	2.9%	7.4%	17.1%	
			% of Total	1.2%	1.0%	3.8%	1.2%	7.2%
			Count	2	12	7	4	25
		Others	% within categories	6.5%	6.9%	2.7%	11.4%	
			% of Total	0.4%	2.4%	1.4%	0.8%	5.0%
T 1			Count	31	173	258	35	497
Total			% of Total	6.2%	34.8%	51.9%	7.0%	100.0%
Percentages and to	tals	are based on respo	ondents.	•	<u> </u>	<u> </u>		
a. Dichotomy grou	p tal	oulated at value 1.						

Table No 7.22: Table showing ANOVA test

ANOVA										
Responsibility for failure										
	Sum of Squares	Df	Mean Square	F	Sig.					
Between Groups	5010.306	3	1670.102	1.909	.148					
Within Groups	28000.000	32	875.000							
Total	33010.306	35								

Table No 7.23: Table showing Post Hoc Tests

	Multi	ple Comparisons		
Dependent Variable: Re	esponsibility for failure (LSD)			
Categories	Categories1	Mean Difference	Std. Error	Sig.
	Present student	-18.44444	13.94433	.195
H.O.D	Past student	-30.11111*	13.94433	.038
	Industrialist	-4.88889	13.94433	.728
Present student	H.O.D	18.44444	13.94433	.195
	Past student	-11.66667	13.94433	.409
	Industrialist	13.55556	13.94433	.338
	H.O.D	30.11111*	13.94433	.038
Past student	Present student	11.66667	13.94433	.409
	Industrialist	25.22222	13.94433	.080
	H.O.D	4.88889	13.94433	.728
Industrialist	Present student	-13.55556	13.94433	.338
	Past student	-25.22222	13.94433	.080

The *Cross tabulation* (table 7.21) indicates that those respondents who mentioned that skill development programmes are failure have expressed their opinion on the actual responsible for failure. The respondents were asked to mark the various authorities responsible for failure they are Government system, Institutions, students, parents, Trainers and teachers, Media, Society, Industrialist, and any other.

It means that most of the respondents from different categories perceived that it is the government (64.4%) responsible for failure of skill development programmes in Goa followed by 16.1% students, 13.7% institutions, 12.3% trainers/teachers, 9.9% society/public, 7.2% Industrialist, 6.0% each parents and media and 5% others.

The majority of institutional heads perceive that the government is most responsible for failure of skill development programmes followed by media, society industrialist, institutes, parents, students, trainers and other stakeholders.

The most of the students have mentioned that skill development programmes is successful but still some feels that it is a failure in Goa. Out of the respondents who perceived skill development is a failure, majority of respondents feels that government is highly responsible for failure followed by students, institutions, society, etc.

From the above analysis it gives a clear indication that majority of the stakeholders from four different categories perceive that government and the government system is responsible for overall failure of skill development programmes in the state of Goa. It means that students are not happy with the way government has introduced skill courses and implemented in the state of Goa. The government system is also lacking because the programmes of skill development are launched whereby there no proper publicity is made by the government. So the government should plan properly to put all activities into the system. The courses introduced should be combined together under one Ministry and then different skill courses should be offered to different departments. NSQF in schools and vocational courses fall under directorate of Education, university degrees comes under Directorate of education, technical courses are taken by Directorate of Technical education whereby other course like ITI course, Apprenticeship training, training cum production centre, etc are shared by Directorate of Craftsmen training. Training for security guards is given Goa human resource Skill Development Corporation, some other technical courses are offered by Human resource development foundation society and other initiatives for fisheries, agriculture, urban development, etc are shared by respective departments. So there is no proper system for skill development courses offered by government. Different types of courses are scattered from one department to other department and from one place to another place which make difficult for the students to find skill courses for taking admission. There is no accessibility of skill course on the internet and even there is no proper mechanism to check quality of skill education imparted by the institutions which differs in the institutions while teaching students. There are no proper guidelines for appointment of teachers and so on. The second category responsible for the failure is a student. Even though courses taught by the teachers are well enough and the learner is not interested in learning then teaching becomes a bucket of waste. The students have agreed that they themselves are also responsible for the failure because some are not interested in acquiring knowledge, they don't attend sessions properly and bunk significant sessions, they don't like to do their home work, most of the students are remains busy in chatting and most important is skill education is not accepted positively by the students to build their career. The category which students hold responsible is trainers and teacher because all trainers are not well trained to teach skill courses. The same teachers who were teaching other general course are given responsibility of teaching skill courses too based on the appointment made by the particular institute and they cannot teach as per the expectation of the students whereby some teachers are also responsible for the failure of skill course. Teachers are not appointed on full time basis and not paid enough salary as full time teachers. So also some students claimed that institutions are also responsible since they do not take keen interest in imparting skill courses since there are no much facilities and income to the institute. Students have also hold responsible for parents since the parents are not openly accept skill courses and do not allow their children to join for the skill courses. Few students said that parents and public are also equally responsible for failure of skill development programs. The parent's mentality is that their children should do degree courses and they should join for white collar jobs. They feel it is dignified for the parents if their child completes degrees courses and not skill courses. The Public is also still not well matured and not aware of skill courses which discourages child to go for skill courses. Some respondents mentioned that other stakeholders like media, experts too are responsible for overall failure of skill courses in Goa. According to industrialists, they hold responsible to public for not motivating children to accept skill courses. Some respondents feels that institutions are responsible for not promoting skill courses as like other general courses, students and parents are equally responsible for accepting skill courses positively. Few respondents hold responsible to media for not making proper publicity of the mission and industrialist too for not accepting students for training.

The *One way ANOVA* (table 7.22) shows that *p* value (.148) which is more than 0.05 at 5% level of significance. It indicates that there is no significant difference in the perception of different categories of respondents towards responsibility for failure of skill programmes in Goa. The *Post Hoc test* (table 7.23) shows also that there is no significant difference in perception towards responsibility for failure. Even though all categories perceive that the government is responsible for the failure of skill programmes in Goa, among all four categories, only difference was noticed with HoD and past students towards responsibility for failure for all the variables tested, **thus one way ANOVA test and multiple comparison table shows no significant difference, thus null hypothesis is accepted.**

It is suggested that government should introduce a proper system in which students should be offered job in their respective field after the completion of the course. The duration of course should be changed. There should be a proper mechanism instead of fixed duration to check student's performance for checking their skills and allotting certificates. The grants of NSQF courses in government schools are not allotted as per their requirement in the respective areas, villages and talukas. The institutions should

improve infrastructure and make human friendly administration so that students should feel it is their institute. Students need to accept skill course without any hesitation and with full co-operation. It should not be considered as exceptional only if admission is denied for general courses by the other institutions. So also parents should give full support and cooperation when their child wishes to join for skill courses. Teachers should not take skill courses for granted and only for the sake of salary but they should put up their hard efforts and show keen interest in the subject. The role of media like TV, newspaper hoarding boards, etc is also important in making publicity and awareness of skill mission. Every news channel, entertainment channel, kids channel and compulsorily education channel should put up advertisement and documentaries of skill education to create awareness of skill education. Public and society need to accept skill mission positively and ask their children to take skill courses. Industrialist need to accept students for internship and training whenever the institutes and students approach for training purpose. The mission will hang half the way if industrialists do not allow and support students for training.

The ministry of skill development, government and bureaucrats should conduct a regular checking of institutes to keep system on the proper track. It is not only the duty of government to develop skill programmes but the institutions should offer courses which are relevant to present market demand and students too should show interest in learning and attending regular sessions. Teachers need to be appointed those who are highly qualified and they should be paid equally and similar to teachers of other streams on full time basis. Parents should try to understand the wish of a child and help their children in deciding stream of further studies and respond to them positively. Public should encourage children to take skill courses rather than discouraging them.

7.2.6 Conclusion:

Table 7.24: Table showing a brief summary of perceptions of different stakeholders towards skill development programmes.

Aspects of perceptions towards skill development programmes	All Respondents
Perceptions of stakeholders	Rejected (sig.)
1) Introduction of skill development programmes	.025
2) Reason for failure	.000
3) Responsibility of failure	.148

With the help of above table and the hypothesis formed, it can be conclude that the there is a significant difference in case of two variables tested i.e. introduction of skill development programmes and reason for failure whereas no difference was noticed in the variable responsibility of failure in the state of Goa. It is observed that there is a significant difference in perception of different stakeholders towards introduction of skill development programmes in the state of Goa whereby most of the respondents felt that it is successful.

Further with reference to reason for failure too there is a significant difference between the various stakeholders whereby implementation of the policy is an important reason for failure of skill development programmes in Goa.

With regards to responsibility of failure most of the respondents feels that government is responsible for failure. It is noticed that there is a no significant difference expressed by the different stakeholders towards responsibility of failure. Thus based upon the above brief findings, we can conclude that, there is a significant difference in perception of various respondents whereby the "Perceptions of different stakeholders regarding skill development programmes is significant". It means that the majority of the respondents from different categories show a significant difference towards skill development programmes in Goa. Thus null hypothesis is rejected and alternate hypothesis is accepted.

This chapter covered detailed data analysis and interpretation of selected sample respondents. The researcher has covered two types of sample respondents i.e. Industrialists and all four stakeholders related to skill programmes. There are questions covered by the researcher which were asked during the field work. The researcher has also covered hypothesis testing of the related sample respondents. The researcher has tried to make cross verify the outcomes of industrialists and other stakeholders to make deep study and to draw reliable conclusion. The researcher has tried to give applied suggestions on the basis of conclusion. The researcher has made differentiation for making detailed and descriptive study of the collected data and extracting results from it.

8.1 Introduction:

This chapter covers findings, suggestions, scope for future research and suggestive models for Skill Development Programmes and its impact on Employment and Self-Employment. It covers 62 findings and 41 suggestions regarding the study. The chapter focuses on present scenario of skill development programmes and various impacts on employability faced by students of different streams in the state of Goa. The selected subject is very committed because skill development activity in the state is taking keen interest in developing skills but the various ministries are seen lacking about development of employees within their own department. Skill development has to go a long way to achieve its goal in Goa. The students showed unhappiness with government system prevailing in the state and also with infrastructure, trainers and other facilities available in the various institutes.

8.2 Summary:

Employment and Self-Employment: A study with reference to state of Goa" was carried out to study six objectives and 19 hypotheses. The entire report was divided into eight chapters. The topic is introduced in Chapter No 1, which gives the background of the topic, objectives, hypothesis, methodology, significance and limitations of the study. The literature review of the topic is presented in Chapter No 2, to establish that the present study does not resemble with any other study in the State, National or International level. The first objective is dealt in detail in Chapter No 3- "Skill development programmes: An overview", "Perspectives of Institutional Heads for Skill Development Programmes in the State" is discussed in Chapter No 4. Chapter 5 covers the "attitude of ongoing students towards facilities available and curriculum" while Chapter 6 deals with "Skill Development Programmes and its impact on Employment and Self-Employment", chapter 7 focuses on "Gap of human resources and perceptions of skill development programmes" and the final conclusion is drawn in chapter 8.

Table 8.1: Tabular representation of the Hypothesis

Sr.	Aspects of Skill development	Gender	Locality	District	Taluka	Stream	Trade
No	Programmes Tested based on:						
1	Opinions of Institutional Heads	Accepted	Accepted	Accepted	Accepted	Accepted	
2	Attitude of ongoing students	Accepted		Accepted	Rejected	Rejected	Rejected
	Aspects of impact on employment	Trade	Reason				
3	Status of Past students				Rejected	Rejected	Rejected
	Aspects of requirement and Avail	ability of hun	an resource	based on:		Skills	Qualification
4	Gap between Requirement and avail	Rejected	Rejected				
	Aspects of perceptions regarding	All Respond	dents				
5	Perceptions of stakeholders						

In order to test the hypothesis, several statements were designed. The statements were tested individually and then the result was compiled to accept or reject the hypothesis. The consolidated result is given in the **Table No. 8.1.** The overall decision on acceptance or rejection is taken based on the total number of acceptance or rejection of individual statements. This result is shown in **Table no. 8.2.**

Table 8.2: Tabular representation of the Hypothesis Testing Carried out

Н0	Aspects of Skill development Programmes Tested based on the Objectives	Gender	Locality	District	Taluka	Streams
	-					
1	Opinions of Institutional Heads	Accepted	Accepted	Accepted	Accepted	Accepted
	1) Students acquire enough job skills after the	.188	.558	.592	.269	.640
	completion of the course.	.100	.556	.372	.207	.040
	2) Training/internship provided is sufficient	.093	.967	.901	.338	.024
	for them to place on the job.					
	3) Confident that the trained students are	.294	.980	.705	.101	.185
	competent to take up the job.					
	4) Curriculum framed by the concern authority	.345	.957	.701	.352	.275
	is relevant to the job required by the industries.					
	5) Changes in course should be made to meet	.874	.352	.382	.154	.035
	the expectation of the employer.	.674	.552	.362	.134	.033
	6) Need of the hour to proper implementation	.464	.024	.235	.888	.091
	of skill development mission in the state.		.021	.200	.000	.071
	7) Skill development courses are better than	.642	.049	.579	.612	.727
	general courses to get jobs.					
	8) Skill courses has very much scope in the	.147	.044	.966	.962	.985
	present employment field.					
	9) Students with skill courses are more	.044	.094	.880	.229	.573
	competent than the general stream.	20=		0.44		
	10) Trained students get job soon after	.307	.776	.961	.633	.797
Н0	completion of course. Aspects of facilities available and	Gender	Districts	Talukas	Streams	Trades
nu	Aspects of facilities available and curriculum tested based on the Objective	Gender	Districts	Tatukas	Streams	Trades
2			A 4 . 3	Rejected	D : 4 1	
	A LULIDO OL ONGOING SUIDENIS	Accepted	Accepted		Rejected	Rejected
	Attitude of ongoing students 1) Class rooms	Accepted .817	Accepted .103		Rejected .000	Rejected .000
	1) Class rooms	.817 .115	.103	.000	.000 .000	.000
		.817	.103		.000	
	1) Class rooms 2) Library facility	.817 .115	.103 .008	.000	.000	.000
	1) Class rooms 2) Library facility 3) Teaching aids	.817 .115 .072	.103 .008 .404	.000 .000 .030	.000 .000 .000	.000 .000 .000
	Class rooms Library facility Teaching aids Infrastructure facilities On the job training/ internship Latest tools and equipments.	.817 .115 .072 .007 .012	.103 .008 .404 .803	.000 .000 .030 .194 .000	.000 .000 .000 .000 .000	.000 .000 .000 .000 .000
	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course	.817 .115 .072 .007 .012	.103 .008 .404 .803 .444 .160	.000 .000 .030 .194 .000 .045	.000 .000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000
	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places	.817 .115 .072 .007 .012 .010 .000	.103 .008 .404 .803 .444 .160 .018	.000 .000 .030 .194 .000 .045 .033	.000 .000 .000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000 .000
	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class	.817 .115 .072 .007 .012 .010 .000 .035	.103 .008 .404 .803 .444 .160 .018 .417	.000 .000 .030 .194 .000 .045 .033 .000	.000 .000 .000 .000 .000 .000 .000	.000 .000 .000 .000 .000 .000 .000 .00
	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course 12) Overall Curriculum of the course	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007 .119 .000	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
Н0	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course 12) Overall Curriculum of the course Aspects of impact on employment and self-en Status of Past students	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007 .119 .000	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
НО	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course 12) Overall Curriculum of the course Aspects of impact on employment and self-en Status of Past students 1) Self- Employment and Job Employment	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007 .119 .000 .016 Stream	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
НО	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course 12) Overall Curriculum of the course Aspects of impact on employment and self-en Status of Past students	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007 .119 .000 .016 Stream	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
НО	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course 12) Overall Curriculum of the course Aspects of impact on employment and self-en Status of Past students 1) Self- Employment and Job Employment 2) Self-Employment (Full time/part time)	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007 .119 .000 .016 Stream Rejected	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
НО	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course 12) Overall Curriculum of the course Aspects of impact on employment and self-en Status of Past students 1) Self- Employment and Job Employment	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007 .119 .000 .016 Stream Rejected .000 .000	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
НО	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course 12) Overall Curriculum of the course Aspects of impact on employment and self-en Status of Past students 1) Self- Employment and Job Employment 2) Self-Employment (Full time/part time)	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007 .119 .000 .016 Stream Rejected	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00
Н0	1) Class rooms 2) Library facility 3) Teaching aids 4) Infrastructure facilities 5) On the job training/ internship 6) Latest tools and equipments. 7) Teachers/ Faculty of the Course 8) Instructors for internship/training places 9) Theory teaching in the class 10) Practical training in the institution 11) Syllabus framed for the course 12) Overall Curriculum of the course Aspects of impact on employment and self-en Status of Past students 1) Self- Employment and Job Employment 2) Self-Employment (Full time/part time)	.817 .115 .072 .007 .012 .010 .000 .035 .617 .780 .148	.103 .008 .404 .803 .444 .160 .018 .417 .848 .280	.000 .000 .030 .194 .000 .045 .033 .000 .007 .119 .000 .016 Stream Rejected .000 .000	.000 .000 .000 .000 .000 .000 .000 .00	.000 .000 .000 .000 .000 .000 .000 .00

Н0	Aspects of requirement and Availability of human resource	Skills	Qualific- ation
4	Gap between Requirement and availability	Rejected	Rejected
	1) Specialized skills	.000	
	2) Highly Skilled	.000	
	3) Semi Skilled	.541	
	4) Minimally Skilled	.000	
	5) NSQF certificate Holders		.000
	6) Vocational certificate Holders		.001
	7) PG Degree holders		.032
	8) ITI Certificate holder		.634
	9) Diploma Holders		.000
	10) HRDFS Technical Students		.634
	11) EDP Trainees		.078
	12) Security Guards		.270
	13) Tailoring and Embroidery trainees		.000
	14) Apprentices		.000
	15) Other trainees		.001
Н0	Aspects of perceptions regarding skill development programmes		All
			Respond-
			ents
5	Perceptions of stakeholders		Rejected
	1) Introduction of skill development programmes		.025
	2) Reason for failure		.000
	3) Responsibility of failure		.148

8.3 Findings:

As stated before, for each objective a separate hypothesis was formed and it was set in separate chapters. The hypothesis were analyzed with the help of appropriate statistical tools and tested separately to draw the conclusion.

- **8.3.1:** Chapter 3 titled "Skill development programmes: An overview" deals with the first objective of the study. It depicts the current scenario of skill development programmes in the state of Goa for which the collected data was analyzed on the basis of Institutions (Streams, Location, District and Taluka), Trades (Stream, Location, District and Taluka) and Enrolment (Stream, Year, Location, District and Taluka). No hypothesis was formed for the objective and the analysis were made with the help of secondary data collected from various Government departments and institutions in the state of Goa. Following are the brief findings;
- 1. The study reveals that the majority of the institutions offering skill programmes are HS (31.9%) followed by HRDFS (22.6%) and the least institutes are EDP and GHRSDC (0.4%) each.

- 2. It is found that most of the institutions involved in skill development programmes are in rural area as compared to urban area. The major difference is identified in case of High Schools as only 15% institutes located in Urban area and 85% institutes located in Rural area. So also UNID, EDP and GHRSDC 100% institutes are in Urban area and no institutes are located in Rural areas. Most of the TRCPC are in Urban (88%) and only 12% in Rural whereas in case of Industries majority of the institutions are in Urban area (83%) and very few in Rural (17%).
- **3.** The majority of the institutions are located in North District (60%) whereas in South District (40%). A major difference was found in case of UNID, GHRSDC, EDP, TRCPC whereas minor differences are found in other streams.
- **4.** it is found that majority of the institutions located in different talukas are in Salcete (17.9%) followed by Tiswadi (12.8%) and least of the institutes are located in Dharbandora (1.7%).
- 5. It is found that most of the courses are offered by HRDFS streams (22%) followed by ITI (16%) and the least Trades are offered under GHRSDC and TRCPC (1%) each.
- **6.** The location wise analysis reveals that most of the trades (72%) are offered by institutions from Urban area while less trades (56%) are offered in Rural area. A major difference was identified in case of UNID, EDP and GHRSDC as Urban (100%) and Rural (0%) while ApprT more trades are offered in Urban (70%) as compared to Rural (47%) and some minor differences are found in other streams.
- 7. The most of the courses (76%) are offered in North District as compared to South district (53%). A difference found mainly in case of UNID, GHRSDC as North offers (100%), and South (0%) whereas in case of EDP 100% trades offered in South and North (0%). The rest of the institutes like HS show North (100%) South (60%) HSS North (94%) and South (65%), ITI, HRDFS, Industries and OITSG are also showing minor difference in the courses. TRCPC shows (80%) in North and (20%) South whereas minor difference were found in case of other streams.

- **8.** It found that most of the taluka wise trades offered in Tiswadi (46%) followed by Bardez (43%), Salcete (40%) and least of the course are offered in Dharbandora (1%).
- **9.** The enrolment for five years (2011-2012 to 2015-16) shows that there is an increasing trend of the students in 2015-16 as compared to 2011-12. The highest enrolment of students during the past five years was found in the year 2014-15 due to overall increase of students for all the streams and also due to introduction of new streams like NSQF courses for HS and security guards training by GHRSDC. The lowest number of enrolment was found in the year 2013-14.
- **10.** It is found that most of the students (stream wise) are enrolled for ITI (35.2%) followed by Vocational (27.9%) and the least number of students are enrolled in EDP (1.6%).
- 11. The location wise enrolment of the students found to be more in rural area (57.9%) and less in urban area (42.1%). A major difference was found in case of GHRSDC and TrCPC where in urban area enrolment is just (9.1% and 9.2%) and in rural area (90.9% and 90.8%) respectively and a minor difference was also found in other streams.
- 12. It is found that most of the students are enrolled in North district (60%) and (40%) in South district. The major differences were located in case of UNID, GHRSDC as North shows (79.4% and 78.8%) whereas in South (20.6% and 21.2%) respectively and rest of the streams HS, HSS, ITI, HRDFS, TrCPC, Industries and OITSG shows some minor difference in two different districts.
- 13. It is found that most of the students are enrolled in Salcete taluka (19.7%) and least number of the students enrolled in Sanguem taluka (1.3%). The remaining streams like Bardez, toswadi, Bicholim and Ponda have shown more or less similar trend for the enrolment of students.

8.3.2 Chapter - 4 titled as "Perspectives of Institutional Heads for Skill Development Programmes in the State" deals with the second objective of the study which focuses on analyzing the perspectives of Institutional Heads on skill development programmes in Goa in terms of ten different aspects. The hypothesis formed was: "Perspectives of Institutions Heads for skill development programmes is favorable".

The data collected was organized and classified based on Gender (Male and female), Location (Urban and Rural), District (North and South), **7** Talukas (Pernem, Bardez, Tiswadi, Ponda, Salcete, Mormugao and Dharbandora), and **10 Streams** (HS, HSSC, UNID, ITI, HRDFS, EDP, GHRSDC, TrCPC, APPRT, OITSG). The statistical tools such as *Percentage, Mean score, Independent sample t-test and one-way ANOVA* were used to analyze and test the hypothesis. The findings are summarized as under:

- 1. It is found that most of the institutions have started skill courses well before 2013-14 in Goa and moving in a right direction by taking a significant step to commence skill courses in the various institutions in Goa. The institutions too have overwhelmingly accepted the challenge of skilling youth of Goa to meet the expectations of the industries.
- 2. It is found that majority of the institutes do not have MoU with the industries to train students on-the job or to provide internship or some short term training courses to get better knowledge in the respective course taught in various institutions.
- **3.** It is observed from the study that most of institutions do not have placement cell for the students to place them on the job which is against the interest of the students except few institutes. The students need to find their job on their own for getting job to make their career.
- **4.** It is found that majority of the institutional heads are agreed and strongly agreed (78.8%) to the students acquire enough job skill through skill courses after the completion of the course. They are the respondents of male, rural, south district, Bardez taluka and streams of UNID, EDP, GHRSDC and ApprT are most favourable for the fact that the students acquire enough job skill required for the job through skill courses after the completion of the course.

- 5. The study reveals that majority of the respondent (43.8%) and (16.2%) of the respondents agreed and strongly agreed respectively to the internship provided in the industry or practical training by the institutes are quite sufficient for them to be placed on their respective jobs. Even though the Head of the Departments also believe that it is necessary to make internship mandatory at least for one term for each and every trade irrespective of any stream. The male respondents as well as respondents from Rural area, North District, Ponda taluka and streams of UNID, GHRSDC are most favourable to the internship and practical training provided by the industries and respective institutions.
- **6.** It is found from the institutional heads that 77.8% are favourable and have confidence in the students to take up job in their respective fields. It indicates that the majority of the respondents i.e. Male, Urban, South District, Bardez Taluka and respondents of UNID, ITI, EDP, GHRSDC, ApprT and OITSG are MORE favourable to the students confidence for taking up job in their respective skill courses.
- 7. The study reveals that 53.8% of the respondents agreed and 20% strongly agreed which means that the majority of the respondents (i.e. 73.8%) of the respondents are favourable. It shows that the curriculum framed by the concerned authority is relevant as per the requirement of the industries. The Male respondents, Urban area, South District, Salcete taluka and respondents from UNID, EDP and GHRSDC and ApprT streams are favorable towards curriculum framed by the concern authority is appopriate to the requirement of industries.
- **8.** The study reveals that the curriculum framed by the authority is good but most of the respondents (61.3%) feel that the courses should be modified every year from time to time as per the requirement and changing demands of the employers. They are the male respondents as well as most of the respondents from Rural area, North District, Bardez taluka and respondents from UNID, EDP and GHRSDC and ApprT streams are most favorable to make changes in the course.
- **9.** It is found that the majority of the respondents (95%) strongly opined that skill development mission is still not yet fulfilled and need to be implemented properly implemented in the state of Goa with due care, so that students may get utmost

benefit out of it to develop their skills and make them competent to get jobs. They are the Female respondents as well as most of the respondents from Rural area, North District, Ponda taluka and respondents from HSSC, UNID, EDP, GHRSDC, TrCPC, ApprT and OITSG streams are the respondents who feels that there is a need to make proper implementation of skill development mission in Goa.

- 10. The study indicates that most of the respondents (80%) are in the favour of skill courses that they are better than the general courses. The institutional heads feels that students who join skill courses help them to get jobs easily and faster as compared to students from general courses. More of Male respondents, Rural respondents, North District, Bardez taluka and respondents from UNID, EDP, GHRSDC, ApprT and OITSG streams are in favor of skill development courses in the state of Goa.
- 11. It is found that the majority of the respondents (i.e. 85%) opined that there is a lot of scope for skill courses in the present employment field for the students who take up skill courses which has a demand for jobs in the industries and employment market. They are the Male respondents as well as most of the respondents from Rural area, South District, Dharbandora taluka and respondents from UNID, EDP, GHRSDC, ApprT and OITSG streams are the respondents who feels that there is a good scope for skill courses in the industries.
- 12. The study shows that the majority of the respondents (70%) are perceived to be students with skill courses are more competent than the general streams when they take up job. It can be seen from the study that most of the respondents from Rural area, South District, Salcete taluka and respondents from UNID, EDP, GHRSDC and ApprT streams who opined that skill courses students are very competent than general courses.
- 13. It is found that most of the respondents (58%) are favourable towards students passing out from skill courses gets job easily and soon after the completion of their course. They are the Male respondents as well as most of the respondents from Rural area, North District, Dharbandora taluka and respondents from UNID, ITI and HRDFS streams are the respondents who feels that trained students get job soon.

8.3.3 Chapter - 5 titled "Attitude of ongoing students towards facilities available and curriculum." deals with the third objective of the study and focuses on analyzing the attitude of ongoing students towards facilities available and curriculum with respect to 12 attributes. The hypothesis, "Attitude of On-going students towards facilities available and curriculum is satisfactory" was formed for which information was collected using the Likert scale.

The data collected on the above attributes was organized and classified based on **Gender** (Male and female), **District** (North and South Goa), 12 Talukas (Pernem, Bardez, Tiswadi, Bicholim, Sattari, Ponda, Salcete, Quepem, Mormugao, Sanguem, Dharbandora and Canacona), **10 Streams** (HS, HSSC, UNID, ITI, HRDFS, EDP, GHRSDC, TrCPC, APPRT, OITSG) and 41 trades. The statistical tools such as *Percentage, Mean score, Independent sampleit' test, One way ANOVA and Post hoc* test were used. The findings are summarized as follows;

- 1. It is found that students from all the streams are fully confident in selecting the courses on their own and not dependent on parents or someone else while deciding a course. The other factors like Friends, media, parents and publicity of the course plays a minor role in choosing vocational courses.
- 2. The study reveals that majority of the students claimed that the prevailing condition of the class rooms provided by the institutions is satisfactory. It is found that HS and HSSC class rooms are in good condition while ITI class rooms were improved recently. The EDP class rooms are really excellent whereby most of the UNID students were dissatisfied. Trainees of TrCPC disclosed that classes are conducted in a house containing one room which is taken on rental basis without any much more facilities. The Male students and the students of South district while Talukas of Bicholim, Dharbandora, Stream of EDP and Trades of IT, PLBR, WLDR, HM, EM, DTPO, HN, BTCN, ED, AGRIT, T&FP are highly satisfied with the class conditions prevailing in the institutions.
- **3.** It is also observed from the study that most of the institutions do provide library facility in their respective institution but students are not satisfied. UNID students avail higher standard of library facilities in Goa followed by HRDFS students. But students of 4 streams namely GHRSDC, TrCPC, ApprT and OITSG trainees do not avail of qualitative library facility. The trainees cannot develop their knowledge due

- to lack of library facilities available at the training centers. They are the Male students and the students of South District while Talukas of Bardez, Dharbandora and Streams of HSSC, UNID and Trades of IT, MCA, MFS, DTPO, HN, ED, ST are highly satisfied and receive the quality of library facility.
- 4. It is found that majority of the ongoing students said the institutions do have proper provision of equipments for teaching aids but they are not highly satisfied. This means that most of the Males students, South students, Dharbandora, Salcete, Bardez talukas and Stream of EDP and Trades of IT, AM, WLDR, DTPO, HN, ARM, BTCN, ED, DM, LA, EM, PLBR, AGRIT, ST are more satisfactory with facilities of equipments for teaching aids used in the institutions while rest of them are not satisfied. It is noticed that trainers from Trcpc do not make use of any teaching equipments but only stresses on practical teaching.
- 5. It is observed from the study that most of the students commented to be satisfactory with the infrastructure facility provided by the institutions. It is noticed that government and private institutions have made rigorous improvement in the infrastructure to attract students in their own institute. The Government has offered funds in the past years for the improvement of infrastructure which benefited most of the institutes to build their premises. Even some buildings of the institutes are shifted to some other places to provide better infrastructure to the institutions. It is found that majority of male students and the students of south district while talukas of pernem, sattari, sanguem, dharbandoraand, streams of HS,HRDFS and trades of IT, AA, ELTR, EM, BA, DTPO, HN, ARM. BTCN, ED, DM, LA, EM, PLBR, CNC, AGRIT, ST are highly satisfied.
- 6. It is found that most of the students are unsatisfied with on-the job and internship provided in the industries or at work place. It can be interpreted that most of the students from different streams receive better internship or on-the job training during the course work. The students of all the streams except trainees from OITSG are not sent for any sort of training in the industries in their respective field. The Female students and the students of South District while Talukas of Bicholim, Dharbandora, Streams of ITI, HRDFS and Trades of IT, AA, ELTR, WLDR, HM, HN, ARM, BTCN, FTR, DM, EM are the only satisfied students with on-the job training and internship provided by the industries.

- 7. The study shows that majority of the students are not satisfied with the facility of latest tools and equipments in the institutions allowed to use in the institutions. It is also noticed that each and every institution is trying their best to provide upgraded tools and equipments for the benefit of the students and also to make students highly skilled. The study reveals that ITI students are allowed with new and latest tools and equipments followed by students from other streams while ApprT trainees are still trained on the same old machines and equipment used for several years before by the industrialist. The Male students and the students of South District while Talukas of Bicholim, Quepem, Sanguem, Dharbandora, Stream of HS, HRDFS, ApprT, OITSG and Trades of IT, HC, AET, ISR, WLDR, DTPO, HN, ARM, BTCN, ELTR, LA, EM, PLBR, CNC, AGRIT are the most satisfied students with the latest tools and equipments allowed to use in the institutions.
- 8. It is found that majority of the students are satisfied with trainers and faculties teaching in the various institutions. It shows the teachers/faculties teaching in the institutes are excellent, well trained and competent enough to accept responsibility of the current mission of skilling India. Few students from HSSC, UNID, ITI, TrCPC and ApprT streams are unsatisfactory. The Female students, students from South District and Talukas of Quepem, Mormugao, Sangem, Dharbandora and Canancona while Streams of HS, HRDFS, EDP, GHRSDC, ApprT, OITSG and Trades of IT, HC, AM, OSS, AET, AA, ELTR, WLDR, FTR, DM, EM, CA, BA, DTPO, HN, ARM, BTCN, ED, SG, WLDR, FTR, DM, ELTR, LA, EM, PLBR, CNC, AGRIT, ST, T&EP are the most satisfied students with trainers and faculties in the institutions.
- 9. The study found that most of the ongoing students are quite satisfied with respect to instructors for internship or at training places. It means the trainers or faculties teaching in the various institutions are adequate and competent enough to teach various courses in different institutions. The Female students, South District, Talukas such as Bicholim, Quepem, Streams of ITI, HRDFS and Trades of IT, BA, DTPO, HN, ARM, BTCN, WLDR, FTR, DM, DM, EM, PLBR, CNC, AGRIT, are the most satisfactied with instructors for internship.

- 10. It is found that most of the students are satisfied about the theory teaching in the class. The overall results reveals that Majority of Female students, students of South District, Bicholim, Sattari, Quepem, Sanguem, Dharbandora, Canacona taluka, Streams of EDP, GHRSDC, TrCPC and trades of IT, HC, CGDM, ISR, AA, ELTR, PLBR, WLDR, DM, HM, DTPO, HN, ARM, BTCN, ED, SG, T&E, WLDR, DM, LA, EM, PLBR, CNC, ST, T&EP are highly satisfied towards theory teaching in the class.
- 11. It is observed from the study that majority of the students are highly satisfied towards practical training offered by the various institutions. It shows most of the institutes are emphasizing on offering advance training to the students in their respective trade so that students can successfully take up job in their respective field. The institutions are taking keen interest and efforts in providing quality practical training for students to learn the required job skills in advance during the course and give them confidence in taking up jobs in their respective field. The Male students, North District students, students of Bicholim, Sattari, Quepem, Sanguem, Dharbandora, Canacona, Streams of HS, ITI, HRDFS, EDP, GHRSDC, TrCPC, ApprT, OITSG and trades of IT, HC, OSS, AET, AA, CT, MREEA, PLBR, WLDR, DM, HM, EM, CA, BA, DTPO, HN, ARM, BTCN, ED, SG, T&E, WLDR, FTR, DM, ELTR, LA, EM, PLBR, CNC, AGRIT, T&FP are more satisfied with the practical training provided in the institutions.
- 12. The study reveals that the majority of the students are unsatisfied with the syllabus framed for the course by the concerned authority. The students from some streams disclosed that syllabus framed for the course is good but it is necessary to update every year as per the current changes in the market and expectations of the employers. It is the Male students, South District students, Pernem, Sattari, Sanguem and Canacona taluka students, Streams of HS, ITI, HRDFS, EDP and trades of IT, HC, AM, AA, ELTR, COPA, WLDR, FTR, DM, EM, CA, BA, DTPO, ARM, BTCN, DM, LA, EM, PLBR, CNC, ST are most satisfied towards syllabus framed for the course.

- 13. It is found that attitude of most of the students with respect to curriculum framed by the concerned authority for the course is inappropriate and unsatisfactory. It is necessary to change as the years passes with respect to curriculum framed for the course. The Female students, South District students, students of Pernem, Bardez, Salcete, Quepem, Dharbandora, Canacona, Streams of HS, HRDFS, EDP, GHRSDC, ApprT, OITSG and trades of IT, HC, AM, OSS, AA, CT, ELTR, COPA, EM, BA, DTPO, HN, ARM, BTCN, ED, FTR, DM, ELTR, LA, PLBR, AGRIT, T&FP are mostly satisfied with the curriculum of the course.
- **8.3.4** Chapter 6 titled "Skill Development Programmes and its impact on Employment and self-Employment" deals with fourth objective which focuses on analyzing the impact of skill development programmes on present status of past students with respect to 4 variables. The hypothesis, "Impact of Skill development programmes on Employment and Self-Employment is insignificant" was formed.

The data collected for the purpose was organized and classified based on **10 Streams** (HS, HSSC, UNID, ITI, HRDFS, EDP, GHRSDC, TrCPC, APPRT, OITSG), 43 trades and 4 reasons for joining the course. The statistical tools such as *Percentage, Mean score, Independent sample t-test, one-way ANOVA, Post hoc test and chi-square test* were used to analyze the data. The given below are some of the important findings;

1. It is found that majority of the students have started self employment recently and the remaining from one year to 2 years. No students were found from NSQF who have started any one business yet but all have joined for further studies. Few students from other streams have owned their business where majority of them have started during last 6 months they are from Insurance course. A good number of trainees from Apprenticeship training were found who started their business for last 2 years and 1 year especially from electrician and CNC course. Most of the trainees of agriculture from OITSG have started business before 2 to 3 years while animal husbandry from last one year and urban development from last 6 months. The HRDFS students have 100% started own business before 2 years who are mostly from DTPO trade.

- 2. It is found that none of the NSQF joined for the job whereas most of the vocational and UNID students got jobs within six months period followed by a good number of students within one year and at the most few students had to struggle for job for one year whereby nobody waited for 3 years. Most of the trainees from EDP, Trcpc, ApprT and OITSG have been employed within 6 months and very few joined within years while no trainees has spent more than 1 year to get the job. Most of the vocational students from different course have received job within six months except two course namely A/c and auditing, marketing and salesmanship had to wait for one year. Most of the trainees of ApprT who are employed after six months and within 1 year are CNC apprenticeship. Trainees of OITSG from agriculture more trainees have joined for the job than animal husbandry and urban development within 6 months while the rest of the trainees from all training courses were employed within a period of 1 year except one trainee from Urban Development trade.
- 3. It is found that most of the trainees from EDP, TrCPC, ApprT are satisfied about their present job while some of the trainees from EDP and TrCPC are highly satisfied about the job they carry out. Most of the GHRSDC trainees have shown dissatisfaction for their job while trainees from OITSG are mostly neutral which means most of them are neither satisfied nor dissatisfied for the jobs who are 100% from agriculture course. The level of satisfaction in doing agriculture job is deterioting day by day and no one like to do agriculture job.
- 4. It is found that majority of the students from different streams disclosed that there job related to the studies they have learnt except EDP course trainees denied that their job is different from their course studied by them. All 100% UNID, GHRSDC, TrCPC students/trainees have fully agreed that their job is 100% related to the respective field of studies. But vocational students from 3 courses such as automobile engineering, CGDM and A/c and auditing majority claimed that their job has no relation to the studies or course they have studied in the past. Majority of ITI and HRDFS students disclosed that their jobs are related to their studies except COPA students and refrigerator from ITI and HRDFS respectively. So also some trainees from courses like welder, CNC, Hotel management, electrician and PLC from ApprT and animal husbandry and urban development from OITSG disclosed that they are doing some different job as compared to their course studied by them.

- 5. It is found that most of the students from different streams mentioned that they are unemployed due to lack of expected salary which is the main reason of past students being unemployed followed by unwillingness to join for the job, lack of finance, no confidence in themselves, startup problems, lack of government support and unwillingness to start their own business.
- **6.** It is found that most of the students from different streams have joined for the job but very few students have started their own business and also joined for the higher studies. A good number of students are unemployed too. The study shows a significant impact of skill development programmes on employment (job employment as well as self-employment).
- 7. The study found that there is a significant impact of skill development programmes on employment (self-employment as well as job employment). The streams such as HSS, ITI, HRDFS, TRCPC and OITSG have more impact on full time self-employment whereas no impact is noticed on part time self-employment in any stream. The students of streams like HSS, ITI, HRDFS, and ApprT show impact on full time job employment whereas HSS, ITI, and HRDFS on part time job employment.
- 8. All the students from NSQF stream have pursued for higher studies, vocational students have also shown interest in going for higher studies whereas majority of UNID, ITI, HRDFS students have joined for job employment. 43% of vocational and 100% of UNID have joined for employment and self employment respectively. The trainees of EDP are GHRDC are employed on job. The Trcpc are mostly unemployed whereas ApprT are job employed while OITSG trainees are self employed. Lab Assistant trainees are mostly pursuing higher education whereas CNC trainees are employed for job and PLC trainees are unemployed.
- 9. It is found to be a significant impact on self-employment and job employment (*p* is 0.000 and 0.010) respectively at 5% significant value which is less than 0.05 at 5% level of significance. It shows that there is a high significant impact of Skill development programmes on job employment as compared to self-employment (stream wise and trade wise) in the state of Goa.

- 10. The study shows a significant impact on employment and self-employment for trades like livestock training on fulltime employment and Automobile on Part time self-employment. So also there is a high significance of various trades on like OSS, MCA, Electrician, Plumber, Fitter, Hotel management, DTPO, Home Nursing, EDP, Security Guards, CNC operator on full time employment and courses such as welder and fitter on part time job employment.
- 11. It is found that majority of the past students chose a course with an intention to take up a job whereas some other students want to go for higher studies and few students have shown willingness to start their own business. The study signifies that there is a significant association between the reason for joining the course and present status of the students with respect to job employment, self-employment and pursuing higher education. Most of NSQF students choose a course since there is a scope for higher studies followed by scope for job and self employment. In case of vocational, majority of the past students would like to go for job followed by higher studies and scope for self employment.
- 12. It is found that most of the UNID students joined because there is a scope of self employment and rest of the students due to scope for job. Most of the ITI and HRDFS students joined with the intention to join for the job followed by scope for self employment, higher studies and others. Majority of EDP trainees, GHRDC trainees apprenticeship trainees from most of the training course joined due to scope for job employment while trainees from Trcpc and OITSG most of the course students had joined for the purpose of starting their own business.
- 13. It is found that majority of the students from different streams are doing their job which are related to the studies they have studied except EDP course trainees stated that their job is different from their course studied by them. It shows that the courses studied by the various students from different are useful in getting job in the industries. It also reveals that there is a good for the skill courses taught by the various institutions to get in the industries. The EDP students stated that they are employed but it is not because skill course they have studied but other qualification they possess.

8.3.4 Chapter - 7 titled as "Gap of Human Resources and Perceptions of Skill Development Programmes" deals with fifth and sixth objective of the study. It focuses on analyzing the gap of human resource and perception of different stakeholders towards skill development programmes with respect to the skill issues in the state of Goa. The hypothesis framed was "Requirement of human resources to the availability of manpower is adequate" and "Perceptions of different stakeholders regarding skill development programmes is not significant" respectively. The brief summary of findings is given below;

The study reveals that majority of the firms / companies disclosed that they take students for training like on-the job, internship, apprenticeship, etc. while few companies do not have facility of training for students. Both type of companies whether start-up companies or existing industries, they take students for training during the course or after completion of course before recruiting on the job.

- 1. It is found that majority of the industrialist provides on the job training followed by internship and apprenticeship and few some other type of training. Most of the industrial companies provide all types of training whereas few starts up companies accept students for internship and apprenticeship type of training besides on-the job training.
- 2. It is found that industrialist are positive in accepting students for training which has increased 3.5 times in 2015 as compared to 2012 so also startup companies are highly positive in accepting students in many fold as compared to other industries.
- **3.** It is found that most of the students were employed in the year 2015 compared to corresponding previous years. The trend of employment has grown to 3.3 times in 2015 compared to 1.6 times and 1.1 times in the years 2014 and 2013 respectively as compared to 2012. It is seen from the study that Startup companies are better than industries for employing students after on-the job training.
- **4.** It is found that most of industrialists prefer skilled candidates for the job followed by trained and experienced. There is no much difference between industries and startup companies' in their expectation of candidates for the job.

- 5. It is found on the basis of skills that requirement for specialized skilled and highly skilled workers is high and their availability of workers is low whereas demand for semiskilled workers is high but their supply is also equally high. The requirement for minimally skilled worker is low but such workers are atleast available in the market. It means there exist a negative gap in-between requirement and availability of specialized and highly skilled workers whereas a positive gap is observed in case of minimally skilled worker and no difference for semi-skilled workers.
- **6.** The study reveals on the basis of qualification that there exist a negative gap or difference in the case of Vocational, Diploma holders, HRDFS students and apprentices where there is high requirement of workers but the availability is low. It means that is a shortfall of trained students. It is therefore necessary to either increase the number of institutions or increases the number of seats in the same institutions. In some cases availability of workers is high i.e. vocational, security guards, tailoring and OITSG so there is no need of putting some extra efforts. In case of NSQF certificate holders where there is no requirement and in case of ITI certificate holders' requirement and availability of workers is high.
- 7. It is found from all the stakeholders (HOD, ongoing students, present students and industrialists) that the skill development mission is successful in the state of Goa, but still Skill mission in Goa needs to go a long way to become really successful in toto. Industrialists thinks that lot of improvement and development need to be made in skill development programmes to make Skill India Mission successful.
- **8.** It is found that the important reason for the failure of skill mission is due to improper implementation of policy followed by lack of funds, infrastructure, skill education imparted, syllabus, incompetent trainers, practical training imparted in the institution and some other factors like passion for study, attractiveness of the course are factors which are also contributing to the failure of the programmes. There is an urgent need to revise the policy, improve infrastructure in the institutes, provide more funds and modify syllabus, provide adequate training to all the teachers and sufficient training to the students.

- **9.** It is found that most of the respondents feels that government is a highly responsible authority for failure of skill courses followed by students, institutions, society and industrialist whereas trainers, media, parents and are partially responsible for the failure if skill development programmes in Goa.
- 10. It is found that most of the employer find it difficult to get experienced candidates followed by technically skilled degree holders, ITI students, vocational, apprenticeship, trainees, unskilled and other type of candidates there is no much difference in the two different categories of companies finding it difficulty to get skill candidates for the job.

8.4 Conclusion of the study

In the present study a separate hypothesis were formed for each objective which were arranged in separate chapters except for first objective no hypothesis were framed. Each hypothesis was then analyzed and tested separately with the help of a suitable statistical tool to draw the conclusion.

Chapter -3 titled "Skill development programmes: An overview" deals with the overview of skill development programmes at international, national and state level. It also covers the first objective of the study which is verified on the basis of 3 variables such as institutions, trades and enrolment. The data was collected from the various government departments, educational institutes, skill training departments and industries from all over Goa.

From the consolidated data it can be concluded that "skill development programmes are unequally distributed" based on location, district and taluka. The allotment of institution is one of the significant reason due to which trades and enrolment in different streams, locality, district and taluka are also not equally distributed in the state of Goa.

Chapter -4 titled "Perspectives of Institutional Heads for Skill Development Programmes in the State" deals with the second objective of the study which consists of various perspectives of the institutional heads on different variables towards skill development programmes in Goa. For the purpose, the data was collected from the institutional heads from all over the Goa.

The hypothesis such as: "Perspectives of Institutional Heads for skill development programmes is favourable" was formed based on the Gender, Locality, District, Taluka and Stream. This hypotheses were tested with the help of statistical tools such as Mean, Independent sample test and One way ANOVA test. Information was collected on the basis of ten aspects such as Students acquire enough job skills after the completion of the course, Training/internship provided is sufficient for them to place on the job, Confident that the trained students are competent to take up the job, Curriculum framed by the concerned authority is relevant to the job required by the industries, Changes in course should be made to meet the expectations of the employers, Need to proper implementation of skill development mission in the state, Skill development courses are better than general courses to get jobs, Skill courses has very much scope in the present employment field, Students with skill courses are more competent than the general stream and Trained students get job soon after completion of course.

From the consolidated *independent sample t-test and one way ANOVA* testing *p* values shown in above Table No. 8.1 and table No 8.2, it becomes clear that *"Perspectives of Institutional Heads for Skill Development Programmes is favourable and positive. So, the null hypothesis is accepted.* The institutional heads in general are not different whether they are male or female, rural and urban, north and south, various talukas and streams for skill development programmes conducted in the state of Goa and also they have shown a great deal of maturity towards skill development programmes in Goa.

The chapter -5 focuses on third objective titled "Attitude of ongoing students towards facilities available and curriculum" which was framed for ongoing students to collect data in terms of twelve aspects which consist of six aspects related facilities available and six curriculum such as Class rooms, Library facility, Teaching aids, Infrastructure facilities, On the job training/internship and Latest tools and equipments for facilities available.

The variable used for curriculum were *Teachers/ Faculty of the Course, Instructors for internship/training places, Theory teaching in the class, Practical training in the institution, Syllabus framed for the course and Overall Curriculum of the course.*

The hypothesis formed was: "Attitude of Ongoing-students towards Facilities available and Curriculum is satisfactory" with reference to Gender, District, Talukas, Streams and Trades. The statistical tools such as Mean score, Independent sample t- test and One way ANOV test were used to analyze the data and to test the hypothesis.

From the above Tables No. 8.1 and Table No. 8.2 it can be concluded that "attitude of ongoing students towards facilities available and curriculum is significantly different and unsatisfactory". It means the ongoing students are not happy about facilities available and curriculum framed by the concerned authority. So the null hypothesis is rejected and alternate hypothesis is accepted. The ongoing students in general are not satisfied and unhappy with facilities offered and curriculum in the state of Goa. It means that the attitude shown by the present students towards facilities available and curriculum offered by the concern authority is not satisfactory.

The chapter- 6 titled "Skill Development Programmes and its impact on Employment and self- Employment" deals with fourth objective of the study. This chapter stresses on analyzing the impact of skill development programmes on employment and self-employment in terms of four aspects which consist of Self-employment (full time), Self-employment (part time), Job employment (full time), Job employment (Part time).

The hypothesis formed was "Impact of Skill Development Programmes on employment and self-employment is insignificant" with reference to streams and Trades. The statistical tools such as one-way ANOVA, Coefficient test, Chi-square test and Multinomial Logistic regression test were used to analyze the data and to test the hypothesis.

From the consolidated one way ANOVA, Coefficient test and Chi-square test testing p values shown in above Table No.8.1 and Table No. 8.2, it can be concluded that "Impact of skill development programmes on employment and self-employment is significant". It means the more number of past students are employed either on job or self employed. So, the null hypothesis is rejected and null hypothesis is accepted. This is because, in most of the individual cases, the P values are less than 0.05 at 5% level of significance. It shows a significant impact on employment (Self employment and Job employment) Stream wise and trade wise in the state of Goa. A high significant impact of

Skill training programmes conducted through various streams and trades was noticed on job employment rather than self-employment in the state of Goa. So also there was a significant association between reason for joining the course and status of past students which indicates that the students have fulfilled their ambition for which they had joined the course.

Chapter - 7 titled "Gap of human resources and perceptions of skill development programmes" deals with the fifth and sixth objectives of the study. The fifth objective analysis the various aspects of requirement and availability of workers based on different skills and qualifications in the state of Goa. For the purpose, the data was collected from the industrialists all over the Goa. The hypothesis such as: "Requirement of Human Resources to the availability of manpower is adequate" was formed based on various skills and qualification.

This hypothesis was tested with the help of statistical tools such as *Mean score* and *Independent sample t-test*. Information was collected on the basis of fifteen aspects which are divided into skill and qualifications. The four skills were categorized in one group and eleven qualifications in another group for collecting data. The skills taken for study were "Specialized skills, Highly skilled, Semi skilled and Minimally skilled workers and qualifications considered were NSQF certificate Holders, Vocational certificate Holders, PG Degree holders, ITI Certificate holder, Diploma Holders, HRDFS Technical Students, EDP Trainees, Security Guards, Tailoring and Embroidery trainees, Apprentices, and Other trainees like Agriculture, Animal Husbandry and Urban development certificate holders.

From the consolidated mean score and independent sample t-test testing, p values shown in above table No. 8.1 and Table No. 8.2, it becomes clear that "Requirement of Human Resources to the availability of manpower is inadequate". It means that there is a significant gap between requirement of skilled workers and the availability of workers. In other words requirement and availability of workers is inadequate. So null hypothesis is rejected and alternate hypothesis is accepted. It indicated that the supply of trained workers is not sufficient to cope up with the requirement of workers in the industries for specialized skills and highly skilled whereas supply of minimally skilled workers are surplus than the requirement in the industries.

Chapter – 7 also deals with the sixth objectives of the study. The sixth objective analysis the perception of all stakeholders which includes institutional heads, present students, past students and industrialists towards skill development programmes in the state of Goa. For the purpose, the data was collected from all four categories of respondents from all over Goa. The hypothesis such as: "perceptions of different stakeholders regarding skill development programmes is not significant" was formed based on cross tabulation, ANOVA and multiple comparison post Hoc test introduction of course, responsibility for failure and reason for failure.

The hypothesis was tested with the help of statistical tools such as *cross* tabulation, ANOVA and multiple comparison post Hoc test. Information was collected on the basis of three aspects "introduction of course, responsibility for failure and reason for failure".

From the consolidated cross tabulation, ANOVA and multiple comparison post Hoc test testing, p values shown in above table No. 8.1 and Table No. 8.2, becomes clear that the hypothesis formed for fifth objective is rejected since significant. This is because, in most of the cases, the P values are less than 0.05 at 5% level of significance. Therefore it can be concluded that "perceptions of different stakeholders regarding skill development programmes is significant". It means majority of the respondents from different categories shows significant difference towards skill development programmes in Goa. Thus null hypothesis is rejected and alternate hypothesis is accepted.

8.5 Suggestions for policy alternatives:

Based on the research findings, the following suggestions are made in order to improve skill development programmes in the state of Goa.

1. It is suggested that teachers and parents should motivate students and create interest in the minds of the students to start their own business and not to hang around for getting jobs only. Students should start their small startups business by which they can be future entrepreneurs to provide jobs for the students rather than depending on others to provide jobs. It is always better to do something rather than remaining unemployed since some students are doing nothing after the completion of course and remains unemployed.

- 2. It is suggested that more and more students should come forward to start their self-employment business and become an entrepreneurs for which government should help them by providing some schemes, loan facility and easy formation of unit since they are quite immatured to understand and carry out all the formalities. The institutions and teachers too should assist pass-out students in setting up of industrial unit and inspire them to start their own business. The procedure of setting own business should be made available through each and every institutions so that self employment formalities can be easily completed in the institute itself.
- 3. It is suggested that the students and institute should try to start atleast some part time job in their respective fields while learning a course so that the students can work practically and get better experience while learning further studies. They can earn while learning and overcome difficulties faced by them by solving in the class room. The institute should make necessary arrangement to send students to work on part time basis and simultaneously learning to get more knowledge. The students should work and gain better experience and knowledge. The government and education department should try to take some steps in providing part time job and stipend scheme should be launched to create interest in the mind of the students.
- **4.** It is suggested that vocational courses like A/c and Auditing, Marketing and Salesmanship and other institutions providing various courses should try to improve the techniques of placement of the students through placement cell, campus interviews and MOU with industries and companies for providing jobs to the students soon after completion of the course.
- 5. It is suggested that students should wait for some time to form their career in the samilar field or at least after getting some experience at the beginning they should redivert their career in a similar field of studies they have studied to remain satisfied on their job. Placement cell in the institutes can also play a major role in deputing students in the respective areas or at least they can inform to the unemployed students about advertisement and help them to get employed in the similar field.

- 6. It is suggested by the researcher that whether it is a new employee or experienced employee they should be paid as per their talents, potential to work on the jobs, skills possessed by the candidate, confidence on the job, smartness and other factors necessary for the job. The new employees should not be taken for granted but they should be treated at par with other employees while paying salary. The new employees are paid very low salary for the similar work carried out by the seniors due to this the newly passed out students does not like to join for the job and willing to go abroad. They get handful salary in the foreign countries and they feel our employers are paying peanuts by playing with their life. A proper benchmark ad minimum salary should be fixed which is to be applicable to all industrial units.
- 7. It is suggested that the government should at least provide easy finance scheme to the students through each and every bank without any guarantor so that newly passed out students who really interested in starting their business can at least start their own business. The institutions and teachers should try to increase the confidence level of the students by solving their problems to start self employment business.
- 8. It is suggested that the government can play a significant role in making education easy and attractive by way of making it job oriented. So that the students will join willingly on their own. Trainers need to pay attention to the students as much as possible in the class as well outside by having friendly relations with helping motto in mind and without expecting any benefits from students. Institutions preferably during the course and after course should help students to get jobs or to motivate students for starting self-employment. Students also need to pay utmost attention to their studies without bunking classes. Public and society if they can't inspire students to take up skill course then at least they should not discourage students those who wish to opt for skill courses. The parents should give freedom to the children to choose their education with full support.
- **9.** It is suggested by the researcher that the Ministry of Skill Development and entrepreneurship should ask for increase in funds in the budget so that the institutions should get enough money to spend for the speedy development of skill programmes in Goa. In fact an attempt is made by the government of India to increase provision in the budget from 1000 cr. in 2013 to 3016 cr. in 2017 which is almost 3 times more in the

budget for skill development in 2017 as compared to 2013 but still it one of the low budget ministry compared to other departments. It is necessary to make more provision in the budget for ministry of skill development so that the problem of lack of funds could be solved.

- 10. The researcher has suggested that the skill education imparted in the institutions should be relevant to the present market demand and as per requirements of the industries. So also it is the responsibility of the government and the department of Skill Development to check whether the policy is implemented properly as it is and in the same manner framed by the concern department. A proper training should be imparted to the teachers and they should be made competent and well trained to teach students.
- 11. The researcher has suggested that the government and the Directorate of Skill Development need to look into the matter of the existing course model and introduce a new model which is convenient, students friendly and fully acceptable to the students by changing syllabus, timing, period, etc. and also making awareness and publicity of skill programmes to the public. More funds for the improvement of infrastructure is also a need of the hour which is to be considered for skill development programmes in Goa.
- 12. It is suggested that institutions, industries and students should co-operate with each other. The student should be willing to go for training, institutions should also show their readiness to send students for training and industrialist should also show willing to accept students for training. There should be a MOU between institutes and industries for practical training in industries rather than conducting in the institutions itself. There should be a separate Board or Training centre at state level to register students / institutions who wish to go for training and on the other side provide training in industries at the par level of apprenticeship training in Goa. As apprenticeship training is only meant for ITI students, other students from other streams should also be given opportunity to go for training.

- 13. It is suggested that the industrialist should take students for training during their course work so that when they pass-out they will be an experienced candidates for the job. The period of training should be made mandatory in the curriculum as per the requirements of the industries. The students should be paid remuneration in the form of stipend more or less equal to other employees working in the industries.
- 14. It is suggested that it is necessary to set a benchmark to maintain standard of education taught, technical knowledge and skills acquired by the students in their respective field of training acquired by the students in the various institutions. Thorough checking should also be done to test the level of knowledge acquired which need to be certified by the industrialist apart from regular written examination conducted by the Board of Education and other responsible authority. There is also a need to provide practical training on the job in the industries rather than in the respective institutions. The institutions need to check the job expectation by the industrialist in their respective area and on the basis of expectations of industrialist the various courses should be started by the institutions. It is also suggested that courses should be offered by the education department to those institutions only as per the need of the industrialist in a particular area, so that students can get jobs easily in the same area.
- 15. It is suggested that there is a need to either increase the number of institutions or increase the number of seats in the same institutions to fill shortfall of trained students. The other way of filling the gap is to make publicity in the remote areas and attract students towards skill courses. In some cases availability of workers is high so there is no need of taking some extra efforts but there is necessary to make awarenees for courses like ITIs, EDP where there is high demand for the students but less availability of workers.
- 16. It is suggested that government should put into place a proper system of policy implementation. The public should inspire children's to accept skill courses, institutions should take utmost interest as usual on par level with general stream. Students should attend regular training in the industries for internship and the trainers should be the watchdog for daily attendance of students. Media should take interest in making publicity of skill mission.

- 17. It is suggested that Ministry of Skill Development and the Education Department should frame syllabus relevant to each and every course and it necessary to modify every after 2 years. The teachers should be send for training every year to learn new and modern updates in the respective course so that skill education for students can be imparted properly.
- 18. The researcher has suggested that the there is a need to identify hidden skills prevailing in each and every child at the school level and the particular child need to trained in their interested field. Psychologist and the Counselors are necessary to be appointed at the school level so that the talents and skills can be identified and the students should be trained in the specific area only for their career development by clubbing together similar type of students in the class. A child with different skills and level of knowledge cannot be taught together but the similar type of students should be combined together to impart education.
- 19. It is suggested that skill courses should be introduced well in advance right from 5th standard in those trades as per the capacity of the students so that they can start building their interest in specific trades as per their likings. This will help students to find their interested trades to build up their career in the future along with other general subjects instead of starting at IXth standard which is prevailing at present in the Government schools only. It should be made open to all aided schools like government schools so that talented students who are studying in aided schools should also get opportunity to learn skill courses and become skilled employees to build a nation and fulfill Skill India Mission.
- 20. It is suggested that internship should be made mandatory for each and every stream right from school level to the university and other institutes those who are involved in skill development programmes at least for six months i.e. for one term similar to University degrees. It will help students and trainees to get well equipped with the requirements of jobs and also they will get trained in the respective trade more thoroughly. Along with the practical training provided by the institutions in their own institutes, they should provide on-the-job training in industries so that students will get the opportunity to know the job and experience it.

- 21. Since the skills possessed by the ancestors are dying in the country and no child want to continue their parents occupation specially skill works, the researcher suggested that it is necessary for the Government and Department of Craftsmen training to identify those skills which were prevailing in villages and should be made as recognized courses by affiliated to the Ministry of Skill Development and Entrepreneurship by offering certificate courses. It will help ministry to provide training to the youngsters to acquire skills in their own villages and also encourage their future generations to continue their ancestors business rather than searching for Government and industrial job in their respective fields.
- 22. The trades allotted to the various government and private institutions should be done as per the requirement of the area so that trades required in particular village will get fulfilled and they can afford to get job in the same area. It is important to see the demand for skills and jobs in the respective area and as per the requirement trades should be allotted to that taluka where it will become fruitful to the students to use their skills and get jobs in the nearby area.
- 23. It is suggested to implement education system prevailing in Japan to encourage more and more students to start their own employment and to be their own boss of the business. Government should make necessary arrangements to help students by way of necessary finance, infrastructure and other requirements so that the system can make it easy for the businessman to their own business.
- **24.** It is suggested that the attitude of parents as well students need to be changed by providing necessary knowledge through awareness programmes in the school and also at public department so that parents will not get discouraged and also not discourage their child to accept skill courses.
- 25. The employees in the institutions teaching skill courses are mostly on temporary or lecture basis. It is suggested to increase salary of the employees by bringing them at the par with other employees those who are teaching other courses in the schools and various other institutions. The teachers should be made compulsory to go for training and if they fulfill the required criteria they should be made permanent as like other employees in government and aided institutions.

- 26. The instructors and teachers should be trained every year so that they can upgrade their knowledge and get equipped with current requirements which in turn it will benefit to the students. Experienced and trained teachers are expected by the institutions to bring reputation for the institutions. It is also suggested that once in a six months, two hours of training should be provided to the trainers at District or Taluka level. Training should be related to soft and hard skills which are demanded by the employers. It is also suggested that Government of Goa should prepare 3-5 years plan for imparting skill based training to the trainers.
- 27. The Department of skill development should do regular check-up to see that they are implemented properly by the various institutes involved in skill development programmes as per the guidelines framed by the department. It is also suggested that templete based feedback mechanism should be developed through which Government can measure the skill development activities. At the central level skill development mapping should be established to check the skills acquired before training and skills acquired after training by the candidates. It is specially suggested that ICT (Information communication & Technology) based skill mapping technique should be developed and implanted at the central and state level.
- 28. There should be a proper system or method in place to do performance appraisal by the tertiary institution in the zone in order to ensure that the teachers are doing their duties effectively. This will ensure that the lecturers will discharge their duties diligently and increase efficiency of education in the institutions. It is also suggested that the performance of trainers and teachers should be measured every after six months though questionnaire system or feedback sheet technique. The performance can be checked and evaluated by the third party or by the NGOs thoroughly. There should be an accreditation system to all the skill education institutions on the basis of pre-determined parameters conducted by the Government agency and the grades could be allotted depending on the performance of each and every institution.

- 29. To upgrade skill development programmes it is necessary to sharpen skills of both teachers and administrators as a subject expert who should be trained regularly to make highly competent trained and experience teachers to impart high quality education to the students and trainees. Education department should make it mandatory to the trainers for acquiring higher skills. Every year atleast one skill can be accomplished by each and every teacher and the concern teacher should produce certificate along with the annual performance appraisal. The salary of the teacher granted by the Government (Finance department) should be based on his performance and the new skills acquired by him during the academic year. Those teachers acquire extra skills can be offered yearly increment as well as grade. A good skill teacher can be recognized and felicitated during a special state and central programmes and if possible awards can be offered to the best teachers.
- **30.** The use of quota systems should be introduced for employment concerned to each and every stream in order to accommodate every students and trainees for the job whenever available which are related to specific courses. The candidates should be selected purely on the basis of specific skills possessed, knowledge and abilities acquired to match with the required job. It will help to solve unemployment problems of the students in Goa.
- **31.** It is suggested by the researcher that the recruitment and selection of each and every Government department and industries should be made clear and unambiguous in order to ensure that all prospective candidates are fully aware of the conditions of employment. This will help students to choose the appropriate trade while seeking admission and also to get specific employment.
- 32. It is suggested that skill development department should plan in advance and it should be put into place future challenges of skills requirement in the form of skill shortages in order to meet challenges of 21st century by skilling students through proper training in the various institutions. It is necessary to find challenges faced at the global level and the students need to train in such a way that they are not only prepared to face the challenges in the country but they are ready to face globally.

- 33. The success of any implementation of well designed plan is follow-up. It is suggested that an adequate and systematic follow-up network must be encouraged after training and development sessions in other to ratify that learning has taken place and that the important issues that have been addressed are implemented. This should include a two way communication network system that will be able to address and answer all difficulties of the stakeholders.
- **34.** It is suggested that the government should make more provisions in the budget at both Central and state level especially for training, development of infrastructure, administrators and teachers to make them regular. This would strengthen intuitions to face global competitiveness and modern trends in the areas of skill education.
- **35.** It is suggested that complete information of skill courses should be made available on media and internet to create publicity and awareness to the students so that any information required should be quickly accessible to the students for taking their own take decision for choosing a course.
- **36.** It is suggested that a separate website should be developed by the central and state government on which all details of skill development activities should be made available. Skill development campaigns should be organized at public places to make publicity of the skill activities carried out by the government and various institutions. A brand ambassador can be nominated from the field of industry, cinema, sports, etc. to do publicity of skill programmes at state and central level. The funds can be raised from companies under CSR to spend for publicity.
- 37. The researcher has suggested that industries and companies should provide opportunities for the students to work on internship or apprenticeship basis. So, that students would get industrial work atmosphere and students will get used to industrial culture so that they can be easily get adjusted on the job after completion of course. If students want to learn what is thought in the institutions then practical knowledge on the job in the industries is very much important for the students. Hence, it is necessary for the industries to provide sufficient opportunities in the industries to curtail unwanted problems on the job after completion of course.

- **38.** The industries should provide sufficient training opportunities to the students during their course work so that the students can pass out as skilled and trained candidates who can become eligible and suitable candidate for a particular job. The researcher has also suggested that the industries should declare the requirement of manpower for imparting skills under internship and apprenticeship training programmes. The industries should provide rigorous skill training for which government should appreciate them in the form sharing their financial burden partly or fully or tax concessions concession can be offered to those industries who offer skill development training.
- **39.** It is suggested that industries should accept newly past out candidate on the job so that they will get experience on the job or otherwise the students should be taken on apprenticeship basis whereby they will get atleast some sort of experience of work on the job rather than remaining unemployed at home with idle mind. The researcher has suggested that the industrialist should help all type of students irrespective of marks acquired but on the basis of skills possessed and smartness of the candidate.
- **40.** The researchers has suggested that the government should introduce a new course model, the ministry should make more and more publicity of the mission, need to change mind set of the students, public and parents to accept skill courses, need to change existing syllabus, need to provide more funds, more awareness to the public for the improvement of skill development programmes in Goa.
- **41.** It is suggested that along with skill youth education, the Ministry of Skill Development and Entrepreneurship should also concentrate on adult and women education in Goa to boost self-employment business at taluka level. The Ministry should provide option for adult who have crossed their age of formal education but still if they feel that they should learn skill education or any other equivalent education could be imparted to help them to acquire knowledge or to start some small business.

8.6 Scope for Further Research

The present study is confined to four different stakeholders of Skill Development Programmes in Goa they are Institutional head, Present students, Past Students and HR mangers, owners of Industries and Start-up Companies. The study covered some important aspects like opinions of Institutional heads and Present students, impact of Skill Development Programmes on Employment and Self-Employment, Skill gap between requirement and availability of employees and perception of various skill development programmes in Goa. However, there are many more issues associated with Skill Development Programmes which are not covered in the present study which can be considered for further research, they are:

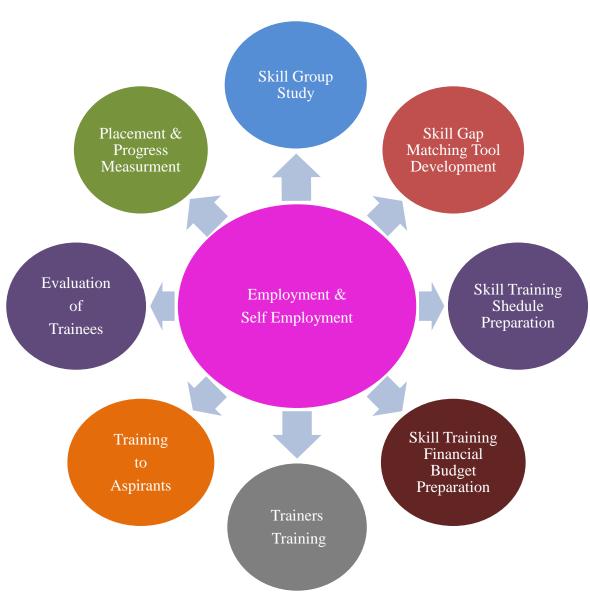
- 1. Sector wise detail study based on Manufacturing, trading and service sector.
- 2. Sector wise study based on Primary, Secondary and Tertiary Sector.
- 3. Individual Ministries involved in Skill Programmes.
- 4. Evaluation of Community College Programmes.
- 5. Impact of Prime Minister Kaushalya Vikas Yojana.
- 6. Performance of Skill India.
- 7. Impact of Make in India.
- 8. Different Industrial Training Programmes.
- 9. Employability Skills in Industries
- 10. Comparative Study between Goa and other States.
- 11. Comparative study between India and other Countries.
- 12. Expectations and Satisfaction of Employers towards Skilled Employees.
- 13. Reason for Joining, Aspiration and fulfillment for each Stream.
- 14. Sector wise acquied Skills before and after joining the job
- 15. Performance Measurement of Trainers

The Skill development courses have gained tremendous importance at present in India as well as in Goa. The above list suggested is in fact insufficient since many other topics can be added in which good research can be conducted to fill the gap in the present study on the topic "An evaluation of Skill Development Programmes and its impact on Employment an Self-Employment: A study with reference to the State of Goa". A research can be under taken on any of the above topic individually or in combinations with senior professor of the university. Even the existing study can be studied by taking each and every objective separately and the detail study can be conducted to make it more meaningful by using some other statistical techniques for different variable.

8.7 Suggestive Models:

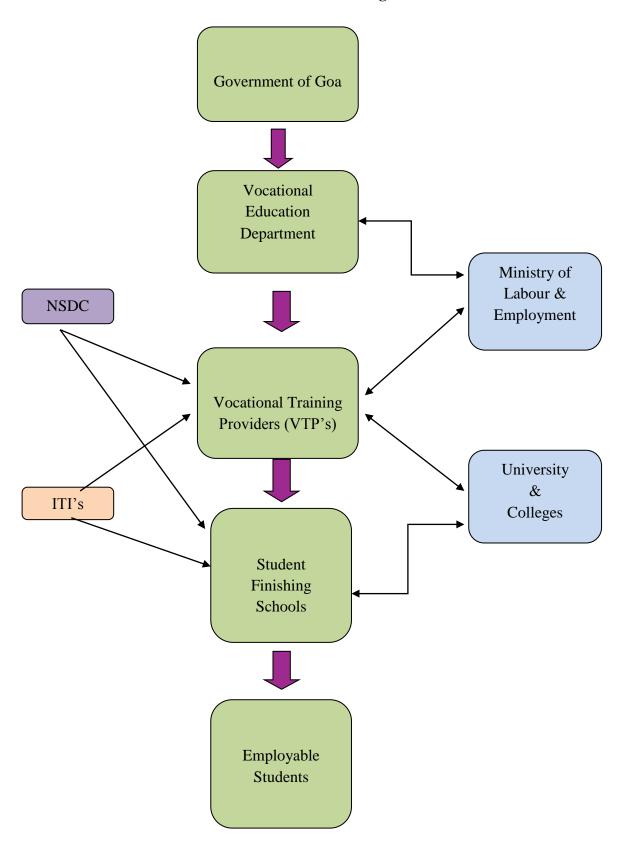
On the basis of data collected from the various respondents in the state of Goa and the inferences drawn from the study, the researcher has developed the following suggestive models which will help in preparing a roadmap of Skill Development Programmes and to implement in the state. The models are developed on the basis of keen observation made by the researcher in the field of Skill Development Programmes prevailing in the state of Goa.

Model No. 8.1: Employment and Self-Employment



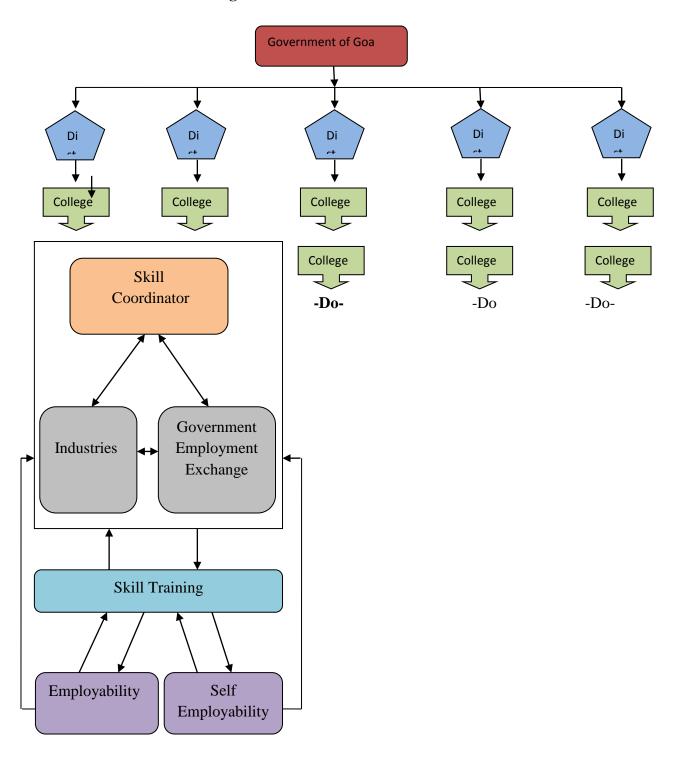
The above model No. 8.1 shows how Skill Development Programmes can be effective in generating Employment and Self-Employment in the state. The main objective of the skill development programmes is to train students to create their own employment avenues or to make them employable in the areas of skill of their choice. In order to improve the potentiality of the students for employment and self-employment, the Ministry of Skill Development has to follow a Skill development Model consist of following steps: (Refer Model No. 1) i.e. Skill Group Study, Skill Gap Matching Tool Development, Skill Training Schedule Preparation, Skill Training Financial Budget, Trainers Training, Training to Aspirants, Evaluation of Trainees and Placement and Progress Measurement. In order to find a suitable job it is necessary for the candidate to understand his liking and then accordingly choose a proper course and improve his skill so that the students is assured of a placement in a job of his choice. The Ministry of Skill Development and the Education Department need to study a skill group in the state to find the requirement of industries and the availability of skills taught in the institutions. It is necessary to find a matching tool to develop skills which can be applied right from school level upto post graduation to make them specialized in a particular field. The Ministry of Skill Development and the Education Department should prepare and develop a proper training schedule for the future and that could be modified every after 2-3 years to adopt latest changes in the market and as per the expectations of the industrialist. A separate budget for skill training should be allocated for the skill development programmes which can be used for the betterment and development of skill activities. It is also necessary to find trainers to train the students at international level to make them highly skilled workers so that they can avail job in the country as well as abroad. The skill training can be given to those who are aspiring to get trained and acquire skills in the respective field. At the end of the year or after completing a course the institutions and the respective authority should evaluate the level of skills acquired by the students in order to be declared "ready for the job". Finally there should be a placement cell in each and every institution and also the Ministry should take care of job offered in the various industries so that the trained students could be absorbed in the industry and successfuly build their carrier. It is also necessary to keep track of the students to check whether students are employed on job or carry out own business. It is necessary to measure the progress of the student on the job after completion of course which will help for the trainers to apply a particular method of teaching for other students if it is effective or make changes as per the requirements of the employers.

Model No. 8.2: Vocational Training



Model No. 2 shows how Skill Development Programmes can be made successful in getting students employable in the state of Goa. The Government of Goa should focus on skill development programmes so as to prepare students and make them competent for the Job through Vocational Training or start their own business in which students are trained in a respective field of studies carried out by them. To improve the capability of the students and to get employed, the Government of Goa and Ministry of Labour and Employment should pursue a system of vocational education study for better results. The model proposes that the whole system of Vocational Studies should be headed by Government of Goa and controlled by the Vocational Education Department (VED). The department should set Vocational Training Providers (VTPs) and should ensure that students complete the education and finally the passed out students gets employed. National Skill Development Corporation (NSDC), Industrial Training Institutes (ITIs), Colleges and Universities should be the vocational training providers to the students. It is suggested that the candidate should choose a proper course and acquire skills so that the students are competent to be placed on the expected job. The Ministry of Labour and Employment along with the Vocational Education Department need to find a aspirant training providers in the state as per their requirement suitable to impart training. The training providers could be such as NSDC, Colleges and Universities should also be brought under the perview of vocational training. It is necessary to develop Skill Development Courses which can be applied right from the school level to post graduation to make them specialized skilled workers. The drop-out students should also be taken into considerations in order to impart skill training education to make them atleast capable of getting employed through vocational training. Such an important role which can played by ITIs and NSDC to help in imparting training to drop-out and downtrodden students to get skilled who can ultimately become employable. The Vocational Education Department should prepare a training schedule for vocational training to adopt latest changes and requirement in the market and as per expectations of the employers. It is also necessary to check at the end of the year that the students complete the course successfully with acquiring enough kills to get employed. Finally it is also necessary to see that students are employed on the job and the employers could accept students as skilled students. It is also suggested that the Education Department can check the performance of the employed students on the job and make necessary changes required by the employers to fulfill the expectations of the industrialists and the employers.

Model No: 8.3: Skill training



The above model No.3 shows the implementation procedure of skill training programmes in the state of Goa. The Government of Goa should emphasize on skill training to make students capable for employment and self-employment for which employability skills are essential. The Employability skills include soft skills as well as

hard skill required to carry out the job. The model proposes that Government of Goa is the head and the Controller of Skill Training Programmes followed by Skill Co-ordinator who should control the overall skill development programmes. In each and every district there should be colleges and skill development institutions to provide skill training educations to the aspirants. The skill development co-ordinator should co-ordinate with industries and government employment exchange to find the requirement of trained employees. It is necessary to supply the requirement of employees and the employment exchange needs to manage the supply of skilled trainees demanded by the various industries or the employment exchange can find out the shortage of skilled workers in the various industries and accordingly supply the trained students to fill vacancies in various industries. To meet the challenges of employability and self-employability it is necessary to provide skill training through various institutions and colleges in Goa. It is suggested that the Government of Goa and the skill development coordinator should prepare students in such a way that they possess employability and self-employability skills which can be acceptable in India as well as in foreign countries.

8.8 Outcome of the chapter:

This chapter has covered the conclusion of selected study, suggestions and future recommendation on the basis of analysis and interpretation of collected data in the field of research. The findings and suggestions will be useful to understand Quality of Work Life and its internal and external environment in selected study areas. The Skill Development programmes and their implementation in the field of employment and self employment have been studied by the researcher. The researcher has applied statistical tools and techniques to verify the results of the collected data by the various stakeholders i.e. Head of the Department (HOD), Ongoing Students/ Present Student, Past students and Industrialist. The State of Goa has made a positive growth in the field of operating Skill Development Programmes for the student which are helpful to the students to get job immediately. The Skill Development Programmes are very much important for employment and self employment.

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ANNEXURE

Questionnaire for Head of Educational Institutions/Departments

a) Rural		b) Urban	
a) Male:		b) Female:	
a) North		b) South	
		b) Vocational (HSSC)	
		d) Community College	
		f) HRDF Society	
		h) GHRSD Corporation	
luction centre	e	j) Other initiatives by	
aining		the Government	
e was introd	uced?		
		b) 2013-14	
		d) 2015-16	
he students?			
		b) No	
		b) Internship	
		d) Other (specify)	
	a) Rural a) Male: a) North uction centre aining e was introd	a) Rural a) Male: a) North cuction centre aining aining and an aining and an aining and an aining and an aining and an aining and an aining and an aining a	a) Rural b) Urban a) Male: b) Female: a) North b) South a) Wocational (HSSC) d) Community College f) HRDF Society h) GHRSD Corporation uction centre j) Other initiatives by the Government e was introduced? b) 2013-14 d) 2015-16 he students? b) No

12. Do you have a	ny MoU with Industry	firm to provide to	raining to the stud	lents?
	a) Yes		b) No	
13. If yes, give det necessary)	ails of training provide	ed (Names & add	lresses) (attach se	parate sheet if
a) 2012-13	}			
b) 2013-14	1			
c) 2014-15	5			
d) 2015-16	j			
14. Is there Placem	ent cell in the institution	on?		
a) `	Yes		b) No	
15. If Yes, No. o necessary)	f students employed the	hrough placemen	nt cell (attach sep	parate sheet if
a) 2012-13	3			
b) 2013-14	1			
c) 2014-15	j			
d) 2015-16	j			
16. How long doe course?	es it take the students/ 6 months	trainees to get th	eir first job after 2y	completion of 3y
17. Which fundin	g agency provides fun?	ds under skill de	velopment progra	mme for your
a) UGC	b) State Gove	ernment	c)Central Gover	rnment
d) Industry	e) Any other	agency(specify)		

18. Please mark ($\sqrt{\ }$) to comments on the following.

Sr. No.	Questions	Strongly disagree	Dis agree	Neutral	Agree	Strongly agree
1.	Students acquire enough job skills after the completion of the course?					
2.	Training/internship provided is sufficient for them to place on the job?					
3.	Confident that the trained students are competent to take up the job?					
4.	Curriculum framed by the authority is relevant to the job required by the industries?					
5.	Changes in course should be made to meet the expectation of the employer?					
6.	Need to implement skill development mission in the state?					
7.	Skill development courses are better than general courses to get jobs?					
8.	Skill courses has very much scope in the present employment field?					
9.	Students with skill courses are more competent than the general stream?					
10.	Trained students get job soon after completion of course.					
19. Is	s skill development mission successful a) Yes	in the state	of goa?	b) No		

7.	Skill development courses are					
	better than general courses to get					
	jobs?					
8.	Skill courses has very much scope					
	in the present employment field?					
9.	Students with skill courses are					
	more competent than the general					
	stream?					
10.	Trained students get job soon after					
	completion of course.					
20. If	No. whom you think responsible for	it?				
	a) Government system [b) I	nstitutions		
	c) Students		d) F	Parents		
	e) Trainers and teachers		f) N	Iedia		
	g) society/public		h) I	ndustrialis	ts	
	g) Others (please specify)					

21. What you think a reason for failure of the course?
a) Skill Education imparted b) Syllabi/ curriculum framed
c) Implementation of policy
e) Incompetent teachers f) Infrastructure in the institution
g) Practical training / internship h) Others (specify)
-
22. How skill courses under skill development programme can be improved?
a) By introducing new course model b)Byimproving infrastructure
c) By Changing syllabus of the existing course d) By providing more funds
e) By making more Publicity of the mission f)Bymaking public awareness
g) By changing mind set of the Student
h) By convincing parent to accept skill course
i) Any other (please specify)
23. Which new courses could be introduced under skill development programmes?
a) b)
c) d)
24. What changes you like to suggest for further improvement of skill development mission in Goa? (comment)
a) Syllabi:
b) Funds:
c) Trainers:
d)Infrastructure:
e) Awareness:
f)Other:

THANK YOU \$

Questionnaire for Present/Ongoing students/Trainees (High school, Vocational, ITI's, cc, PG, HRDFS, EDP, GSHRSDC, TrCPC, ApprenticeshipTrainees, etc.)

1. Name of the	ne respondent:		 	
2. Address:			 	
3. Gender:		a) Male:	b) Female:	
4. District:		a) North	b) South	
5. Taluka:			 	
6. Name of the	ne School/ College/ Inst	itution/unit:-	 	
7. Stream:	a) NSQF (SSC)		b) Vocational (HSSC)	
	c) University Degree		d) Community College	
	e) ITI's		f) HRDF Society	
	g) EDP		h) GHRSD Corporation	
	i) Training Cum prod	uction centre	j) Other initiatives by	
	k) Apprenticeship Tra	aining	Government	
8. Name of the	ne Course/Trade:		 	
	e reason for opting abov	e course?	b) Job-employment	
ŕ	gher education		d) Liking for the course	
,	likings for general stre	am	f) Parents pressure	
ŕ	dn't get admission in ge		h) Others (specify)	
10. How did	you choose this course?)		
a) By	your own		b) Inspired by friends	
c) For	rced by parents		d) Watching on media	
e) Pul	blicity of Course		f) Others (specify)	

11. If	f suppose there were no skill development of	courses, w	hat have yo	ou done?	
	a) Discontinued studiesc) Joined formal education		,	d own bus	
	e) Others (specify)				
	Iow did you like about the followings aspec	-	·		In u
Sr.	Description	Poor	Satisfac-	Good	Excellent
No.	Too shore / Esculture of Course		tory		
2	Teachers/ Faculty of Course Instructors for internship/training places				
3	1 01				
4	Theory teaching in the class Practical training in the institution				
5					
6	Syllabus framed for the course Class rooms				
7					
8	Library facility Teaching aids				
9	Infrastructure				
10					
11	Curriculum of the course On the Job facility				
12	Latest tools and equipments				
	What is the term of 'on the job training/ inte	rnship'?			
	a) Less than one month		b) One m	nonth	
	c) Six months		d) One Y		
	e) More than one year				

14. What you feel about the followings (please tick)

Sr. No	Description	Strongly disagree	Dis- agree	Neutral	Agree	Strongly agree
1	Practical training provided by the institution is sufficient.					
2	Institutional training hours are sufficient to acquire enough knowledge and skill.					
3	Adequate provision of internship					
4	Hours of internship provided during the course.					
6	Confidence of getting job after completion of course.					
7	Course is worth enough to get the job.					

15. RANK 5 best skill courses/ training compared to general stream from the followings?

Sr.	Description	Rank
No		(1-5)
1	NSQF (Schools)	
2	Vocational Studies (HSS)	
3	MCA, MFS, MBA (University Degree)	
4	CC (Community College)	
5	ITI's (Industrial Training Institutes)	
6	HRDFS (Human Resource Development Foundation Society)	
7	EDP (Entrepreneurship Development Programme)	
8	GHRSDC Training (Goa Human Resource Skill Development	
	Corporation)	
9	TCPC (Training Cum Production Centre)	
10	Other initiatives by state govt (Agriculture, fisheries, animal husbandry)	
11	Apprenticeship training	

	other initiatives by state gove (right	sarcare,	monetics, annual masounary)	1
11	Apprenticeship training			
16. W	That is your comment on introduction	of Skil	l Development Programmes in C	ioa? Is
t: (Pl	ease tick)			
	Г			
	a) Successful		b) Failure	
17. If	failure, why do you think it is a failur	e, is it b	because of;	
	a) Skill Education imparted		b) Syllabi/ curriculum framed	
	c) Implementation of policy		d) Lack of funds	
	c) implementation of policy		d) Lack of fullds	
	e) Incompetent teachers		f) Infrastructure in Institution	
	g) Others (specify)			
	g) Others (specify)			

a) Government system	b) Institutions	
c) Students	d) Parents	
e) Trainers and teachers	f) Society/ public	
g) Others (please specify)		
19. How skill development developmen	nt programme can be improved?	
a) By introducing new course model	b) By Changing syllabus of existing course	
c) By improving infrastructure	d) By providing more funds	
e) By making more Publicity of the mis	ssion f) By changing mind set of the Student	
g) By convincing parent to accept skill	courses h) By making awareness to public	
i) Any other (please specify)		
20. What is your aspiration to do immed	diately after the completion of your course?	
a) to go for job	b) to start own business	
c) to join higher studies	d) to go abroad	
e) others (Specify)		
21. Would you like to recommend simil	lar course to others?	
a) yes	b) No	
22. Suggestions for further improvemen	nt of skill development in Goa?	
a)		
b)		
\$	THANK YOU \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	

Research Topic: An evaluation of Skill Development programmes and its impact on Employment and Self-Employment: A study with reference to state of Goa.

Questionnaires for Past students/Trainees (High school, Vocational, HRDFS, PG. EDP. GSHRSDC, ApprenticeshipTrainees, etc.) 1. Name of the respondent:-----2. Address:-----3. Gender: a) Male: b) Female: 4. District: b) South a) North 6. Name of the School/ College/ Institution/Unit Pass-out/Trained from:-----7. Which Stream did you pass out? b) Vocational (HSSC) a) NSQF (SSC) c) University Degree d) Community College e) ITI's f) HRDF Society h) GHRSD Corporation g) EDP i) Training Cum production centre j) Other initiatives by gove k) Apprenticeship Training 8. Year of pass-out/training: a) 2013 b) 2014 c)20159. Which course did you pass out from?-----

b) Scope for the Job

d) Others (specify)-----

10. Why did you join for the course?

a) Scope for Self- employment

c) Scope for Higher education

11. What is your present status? (Please tick)
a) Self- employment (full time) (give detail)
b) Self employment (part time) and studying (give detail)
c) Job-employment (full time)
d) Job-employment (part time) and studying (give detail)
e) Pursuing Higher education (give detail)
f) Unemployed
h) Others (specify)
12. If employed, (Self) Number of years working 6 months 1y 2y 3y (Job) Number of years working 6 months 1y 2y 3y 14. How long it took to get the first job after completing your course? 6 months 1y 2y 3y 14. How long it took to get the first job after completing your course?
15. Are you satisfied about your present job?
a) Highly dissatisfied (b) Dissatisfied (c) Neutral (d) Satisfied (e) Highly Satisfied
16. Is your present job related to skill course studied by you?
a) Yes b) No
17. If No, Why? Is it due to;
a) Lack of acquired skill to start entrepreneurship
b) Insufficient skill to get job
c) No jobs available in field of training acquired
d) Any Other (specify)

18. If unemployed, reason for unemployment (please tick any one option)						
a) Unwillingness to start business e) Lack of Finance						
b) Unwillingness to join for the job f) Start-Up problems						
c)	Lack of expected salary	g) Lac	ck of Gove	rnment S	upport	
d)	No confidence to take up job in the	same stream	n h)	Others (s	pecify)	
19. N	Mention your comment for the follow	vings. (plea	se √)			
Sr. No	Descriptions	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
1	Employer prefer candidate having skill course certificate during recruitment?					
2	Skill course definitely fulfilled requirement of the job?					
3	Employers call for job soon after completion of job?					
4	Necessary to go for other Courses to get employment or self-employed?					
5	Have you gone through any other course/training after you pass-out the course?					
6	Adequate internship provided during the course.					
7	Skill courses helps in getting job					
8	Skill courses worth to get					
	sufficient and expected salary.					
	20. RANK 5 best skill courses compared to general stream from the followings?					
Sr. No	Description / Items					Rank (1-5)
1	NSQF (Schools)					
2	Vocational Studies (HSS)					
3	MCA, MFS, MBA (University Degree)					
4	CC (Community College)					
5	ITI's (Industrial Training Institutes)					
6						
7						
8	GHRSDC Training (Goa Hur Corporation)	nan Reso	urce Skil	1 Devel	opment	

TCPC (Training Cum Production Centre)
Other initiatives by state govt (Agriculture, fisheries, animal husbandry)

Apprenticeship training

kill Development Programmes in Goa?
b) Failure
b) Institutions
d) Parents
f) Media
h) Industrialists
se? b) Syllabi/ curriculum framed d) Lack of funds
f) Infrastructure in the institution
h) Others (specify)
development programme? b) By improving infrastructure
d) By providing more funds
f) By making awareness to public
h) By convincing parent to
accept skill courses
o others?
b) No
ment of skills development in Goa?

THANK YOU \$\$\$\$\$\$\$\$\$\$\$\$\$\$

QUESTIONNAIRE FOR INDUSTRIALIST / START-UP COMPANIES

1. Name									
2. Designation : Owner/ HR	Manager/ General ma	nger/ oth	ner (specify):						
3. Name and address of the	firm:								
4. Gender:	a) Male:		b) Female:						
5. District:	a) North		b) South						
6. Taluka:									
7. Educational Qualification	on:								
a) Graduate			b) Technical						
c) Post graduate			d)Other(specify)						
8. What is your present statu a) Self- employment	s? (Please tick) (full time) (give detail	l)							
b) Self -employment	(part time) and (give	detail)							
c) Self-employment	c) Self-employment (part time)								
d) Job-employment (full time) (give detail))							
e) d) Job-employmer	nt (Part time) (give det	ail)							
f) Pursuing studies (g	give detail)								
h) Others (specify)									
9. Year of commencement of	f unit/Company								
10. Which sector of business	s you are involved in?								
A) Manufacturing-	a) Consumer goods		b) FMG						
	c) Industrial product		d) Any other						
B) Trading	a) Retailing		b) Distributorship						
	c) Warehousing		d) Any other						
C) Service	a) Tourism		b) Event Management						
	c) Consultancy		d) Hotel/Restaurant						
	e) Health care		f) Any other						

11. Is your present business/job related to skill c a) Yes	ourse/degree studied by you? b) No	
12. If No, Why? Is it due to;		
a) Lack of acquired skill to start entrepreneurshi	ip b) Insufficient skill to	get job
c) No jobs available in field of training acquired	d) Any Other (specify)
13. Is your firm / department provides training? a) Yes	b) NO	
14. What type of training is provided by your a) On the job	c) Apprenticeship	
b) Internship	(d)	Any
other		
15. How many students were trained by your fir 4 Years); 2012	rm for past years? (Provide detail	
2014	2015	
16. How many students were employed by your for last 4 years)	firm after training? (please provide	le detail
2012	2013	
2014	2015	
17. What type of candidate do you prefer/expect	for the job?	
a) Skilled	b) Un-skilled	
c) Trained	d) Un-Trained	
e) Experienced	f) Inexperienced	
g) Other	_	
18. Which type of candidate is more difficult to	find for the job?	
a) NSQF	b) Vocational	
c) ITI students	d) Unskilled workers	
e) Degree Holders	f) Technical	
g) Done Apprenticeship training	h) Experienced	
i) Others		

19. What are the reasons for not finding suitable candidate for the job? Please Mark ($\sqrt{}$) any one option to the following statements given below in Likert scale from strongly disagree to strongly agree. (SDA=Stongly Disagree, DA=Disagree, N=Neutral, A=Agree, SA=Strongly Agree)

Sr.	Reasons	SDA	DA	N	A	SA
No						
1.	The level of educational knowledge is too low.					
2.	Lack of technical knowledge					
3.	Lack of required skills possessed by candidates.					
4.	The training level of applicants is too low.					
5.	Mismatching of the applicant's education / training with what is expected.					
6.	The applicants do not possess the expected work experience.					
7.	High expectation of salary of the applicant.					
8.	Job conditions is not acceptable to the applicant.					
9.	There is no job for the skills taught in the various institutions.					
10.	Students interested in starting their own business.					
11.	No sufficient courses in the institutions to train required skills.					
12	Unwillingness of students to upgrade skills.					

20. Which of the following skills areas (a) experiences the largest increase in requirements, and b) skills available? (Please tick ($\sqrt{}$) one option from both (a) and and (b) category)

Types	Skills	(a) Requirement of Manpower		(b) Availability of manpower	
		Low	High	Low	High
Levels	Specialized skills				
of skills	Highly skilled				
	Semi skilled				
	Minimally skilled				
	a)NSQF certificate				
	b) Vocational certificate				
	c)ITI certificate				
	d) PG Degrees				
Qualific	e) Diploma Holders				
-ation	f) HRDF courses				
skills	g) Entrepreneurship Dev. training				
	h) Training given by Skill dev. Corporation				
	i) Training cum production centre Courses				
	J) Other initiatives taken by the state govt.				
	j) Apprenticeship training				

21. What is your comment on the introduc	tion of sk	till mission in India? Is it	
a) Successful		b) Failure	
22. If failure, whom you think responsible	for it?		
a) Government system		b) Institutions	
c) Students		d) Parents	
e) Trainers and teachers		f) Media	
g) Society/ Public		h) Industrialist	
g) Others (please specify)			
23. What you think a reason for failure of	the cours	e?	
a) Skill Education imparted		b) Syllabi/ curriculum framed	
c) Implementation of policy		d) Lack of funds	
e) Incompetent teachers		f) Infrastructure in the instituti	on
g) Practical training / internship			
h) Others (specify)			-
24. How skill courses can be improved und a) By introducing new course model	der skill o	levelopment programme?]b) By improving infrastructure	·
c) By Changing syllabus of existing course	e	d) By providing more funds	
e) By making more Publicity of the missio	on	f) By making awareness to pul	olic
g) By changing mind set of the Student		h) By convincing parent to	
		accept skill courses	
i) Any other (please specify)			
25. Would you like to recommend skill de-	velopmei	nt courses to our youth?	
a) Yes		b) No	
26. Which new skill courses should be intr	oduced u	nder skill development progran	nmes?
a)			
b)27. What your suggestions for further impra	rovement	of skill development in Goa?	
b)&&&&&&&&	END	&&&&&&&&	