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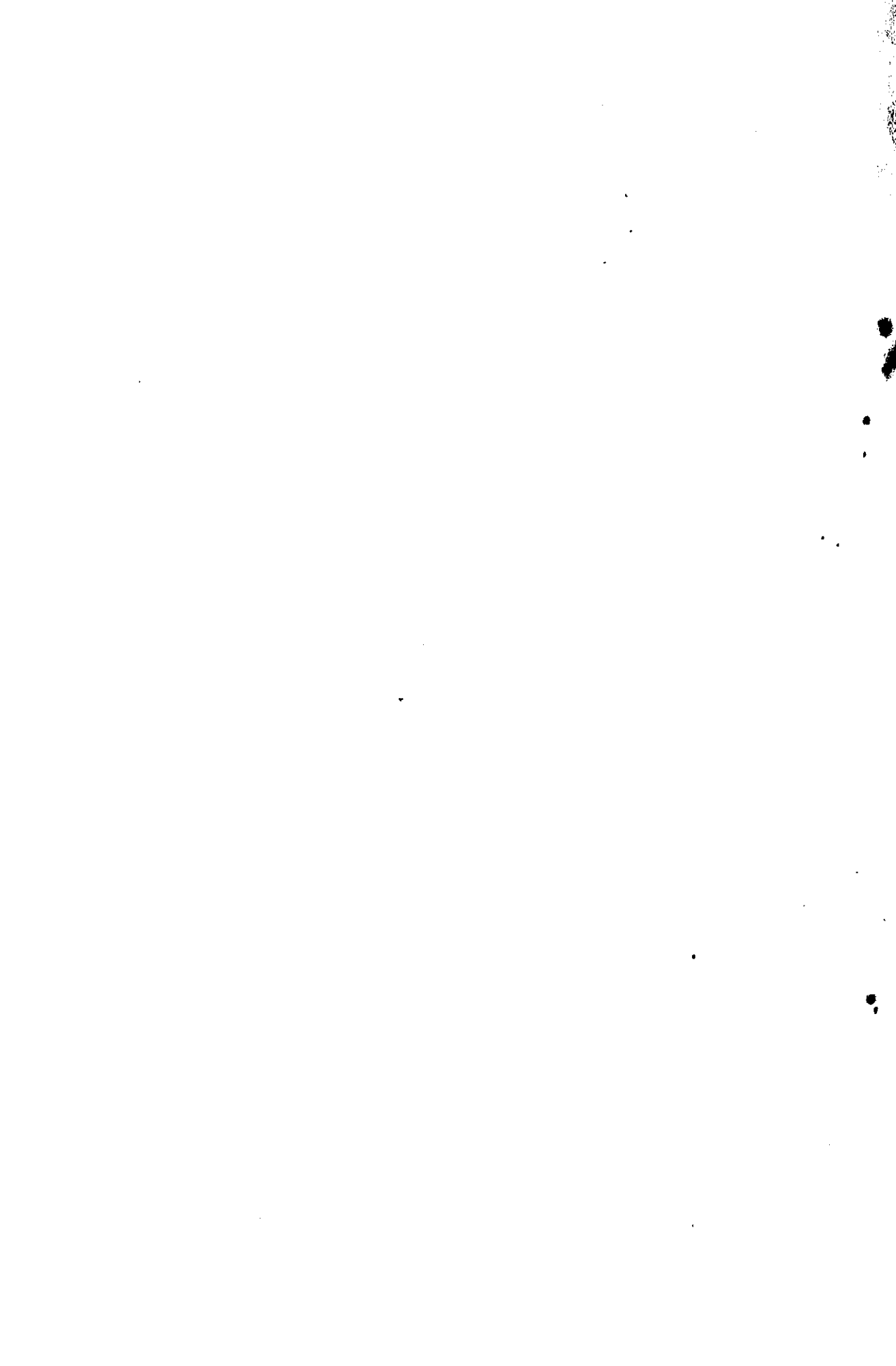
Government of Kerala

Report on
Survey on Computer Institutions
1999

Department of Economics and Statistics
Thiruvananthapuram

2000





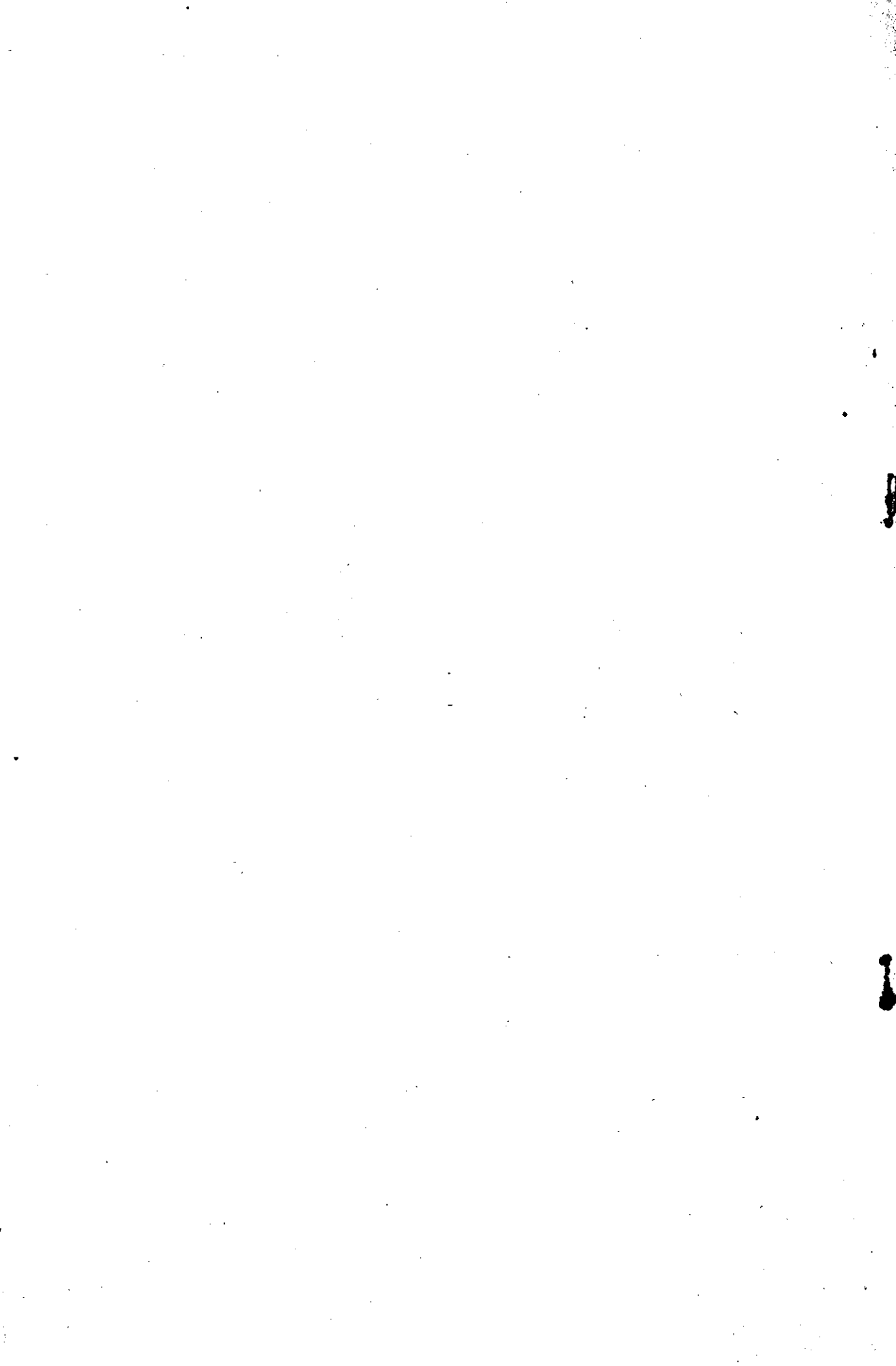
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Preface

After Industrial revolution invention of Computers affected all walks of life. This has served in improving the quality of life. The use of computer was increased to the extend that it has become a part of one's every day life. It is becoming a household article just like a TV or Radio. As a result a no. of Computer Institution have come up to provide education and other services. It is a fact that their no. is increasing day by day. At present there is no data available in respect of this all pervasive field. In order to fill up this data gap a benchmark census was conducted by this department in order to collect some basic details of computer institutions prevailing in the State. The data was collected by the investigators of the department by visiting all the units and the same was tabulated by the computer units in the district offices. The first tabulation and analysis is done in the computer division of this department who prepared the necessary software also. The survey was co-ordinated by the publication division in the Head Quarter. This report was prepared by publication division with the assistance of computer division.

I place on record my sincere thanks to all the officers and staff, especially that of field staff of the districts who have captured the data by visiting all the Institutions, Publication Division and Computer Division, who have rendered their valuable services for bringing out this publication. In spite of the various limitations of the census data I hope that this report would be found highly useful to planners and researchers. Any suggestions for improvement are welcome.

A. Meera Sahib
Director

Thiruvananthapuram

10th August, 2000



Contents

Preface	
Introduction	1
Main findings of the survey	3
Tables	
1. <i>Computer Institutions – Management wise</i>	4
2. <i>Details & Educational status of Employees</i>	5
3. <i>Computer Institutions – Activity wise</i>	6
4. <i>Details of Internet Services</i>	7
5. <i>Details of course conducted</i>	8
6. <i>Details of placement</i>	8
7. <i>Details of Machines</i>	9
8. <i>Details of operating system and networking</i>	10



Introduction

In an age where a person unacquainted with the computers may be considered as illiterate, it is imperative to know how Kerala State performs in this field. With most of the services and business to be conducted in future through computers, our state, which has achieved total literacy, should have total computer literacy too. Computer education may vary from basic awareness in handling office and DTP packages to efficiency in advanced programming languages and mainframe operation, programming from the Internet etc. Over the past some years hundred of computer training centres and software development firms have come up through out our state. It is high time that a survey is conducted into the nature of these institutions, the type of training provided, the softwares and hardwares being used and the qualification of training personnel, etc. The study report attached is an attempt to focus on a few of these details.

The survey was conducted by the Department of Economics and Statistics using the services of the field staff of the department on a census pattern, visiting all the units during the period from 1-1-1999 to 31-3-1999. The Computer facilities available in the Directorate and in the District headquarters were made use of for data entry and table generation. The results are published in the form of tables and graphs.

Results of the Survey

The Institutions have been divided on the type of management and on the type of activity.

Based on the type of management of the 1776 institutions, 1087 (61.2%) are single proprietorship firms. 441 (24.8%) are run by partnerships. The rest are run by Trusts, Co-operative sector and the corporate sector. Central and State Government franchisees and directly run institutions are classified under 'other category'.

The second table cover the educational status of the employees (mainly training personnel and software developers). The other staff includes student counsellors, office and managerial staff, etc. It is observed that there is a predominance of technical graduates in this field. Gender wise breakup shows that of the 6057 employees, 3744 (ie. 62.4%) are males.

The third table devides the institutions on the basis of activity carried out. It is observed that the majority of the Institutions cite Education (training) as their main vocation. Software development is the second objective. From the figures it can be seen that the same

institutions may have multiple objectives. There are several institutions, which have both training and software development activities or data entry and software development work.

Table 4 gives details of various Internet related services provided by the Institutions. In the State, institution with website designing and web browsing facilities like cybercafes are emerging.

The 5th table gives details of the various courses imparted. There are 12 Institutions providing MCA course. DCA or Diploma in Computer Applications comes foremost as 1063 Institutions are conducting the course. Hard ware courses are conducted in 103 Institutions.

Table 6 supplies the details of placement offered by the training centres. While 1367 firms guarantee placement, number of students cited to have obtained placement is only 1654.

Table 7 gives a picture of the type of computers in use in various institutions. The bulk of the computers are PCs ranging from 286 to Pentium II. Eight Institutions are found to have 11 AS 400 machines. It can be seen that there is predominance of Dot Matrix Printers in number over the sophisticated Inkjet or Laser printers.

Table 8 gives a list of the operating systems in vogue. The Microsoft owned DOS and Windows 95/98 or the network o/s windows NT are the most common. Novell NetWare has the next rank in the list. OS/2 and Macintosh are least popular in the Kerala Information Technology Industry.

The tables have also been converted to bar charts and pie diagrams to make easy comparative study.

Even though this census has limitations the study is a comprehensive one and points a finger towards the necessity of streamlining the computer education centres in to a cohesive force that will integrate computer education the coming generation and provide it as an instrument of attaining professional edge over or at least on par with the rest of the world.

Main findings of the survey

1. There are 1776 Computer Institutions in the State as on 1-4-1999. Eranakulam district have got the maximum number (240) followed by Thrissur (219). Wayanad district has only 21 Institutions.
2. There are 1087 proprietorship firms (61.2%) and 441 (24.8%) Partnership firms. (table 1)
3. There are 6057 Employees working in various Institutions. Of these 38% (2313) are female employees (table 2)
4. Educational qualifications of employee's ranges from certificate course to post graduation in Computer Science. 51 persons are having higher qualification of M.Sc./M.Tech. (table 2) and 279 persons are MCAs.
5. Of the various Computer firms in Kerala 1553 are educational Institutions (87.4%) (see table 3)
6. In the computer educational field Thrissur district came at the top with 217 institutions (table 3)
7. Taking Kerala as a whole 937 Institutions are engaged in DTP work and 789 institutions are engaged in software development (table 3)
8. There are 64 web-site designing and 112 web-site-browsing institutions in Kerala. Thiruvananthapuram have fourteen web designing and twenty-four web-site browsing centres and in Kasaragod there are no such centres (table 4)
9. There are 12 Institutions in Kerala providing MCA Course short term courses are conducted in 1169 centres (table V)
10. 1367 firms guarantee placement and 1654 students have obtained placement during 1998-99(table 6)
11. Eight Institutions are found to have A.S.400 (Main frame). There is a predominance of Dot Matrix printer in number over the sophisticated Inkjet or Laser printers (table 7)
12. In the operating systems division Window 95/98 and DOS are the most in use. Unix, Window NT and Novell Netware are also used (table 8)

Table 1 - Computer Institutions – Management wise

District	No. of Institutions	Proprietorship	Partnership	Trust	Cooperative	Corporate	Others	Not reported
Thiruvananthapuram	185	130	34	4	2	5	8	2
Kollam	164	130	20	6	0	0	4	4
Pathanamthitta	110	80	15	2	0	2	7	4
Alappuzha	77	49	17	5	0	1	3	2
Kottayam	165	120	25	8	5	0	6	1
Idukki	58	31	8	3	2	6	6	2
Ernakulam	240	167	51	12	0	5	2	3
Trissur	219	123	67	14	4	2	6	3
Palakkad	68	38	18	3	1	2	5	1
Malappuram	114	47	37	11	0	2	16	1
Kozhikode	175	81	72	13	0	0	8	1
Wynad	21	14	2	3	0	0	1	1
Kannur	138	59	59	12	4	2	1	1
Kasaragod	42	18	16	3	2	0	0	3
Kerala	1776	1087	44	99	20	27	73	29
Percentage to total	100	61.21	24.83	5.57	1.13	1.52	4.11	1.63

Computer Institutions- Districtwise

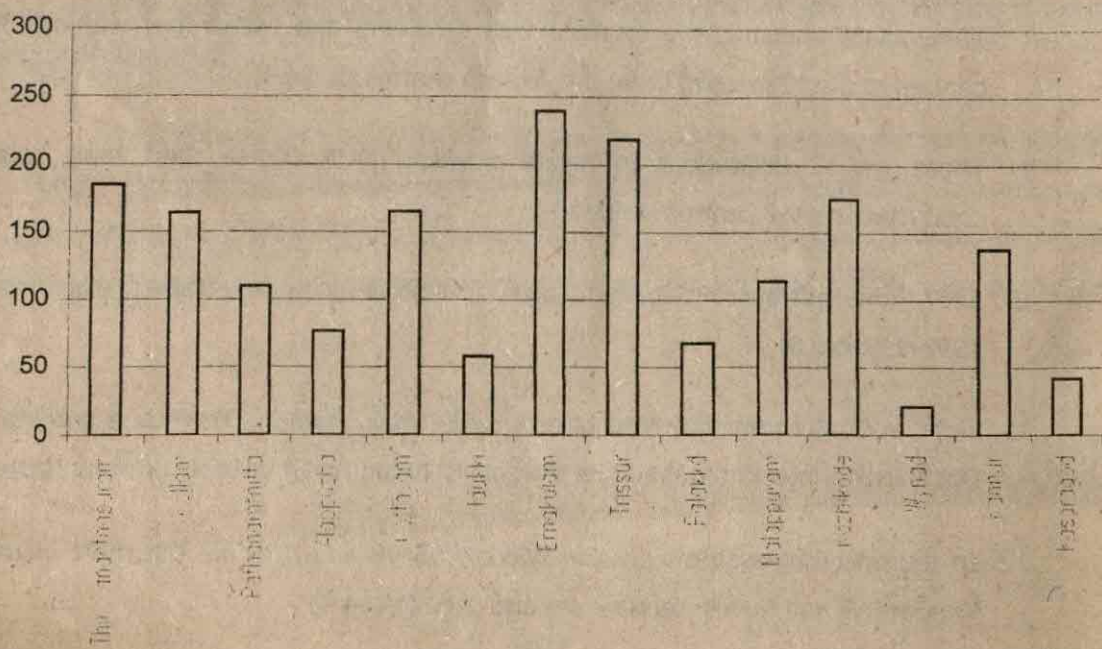


Table 2 - Details & Educational Status of Employees

District	MSc/Mtech		MCA		B.tech/BE		B.tech & MCA		B.Tech & PGDCA		B.Sc(com)	
	M	F	M	F	M	F	M	F	M	F	M	F
Thiruvananthapuram	6	3	19	13	89	14	0	0	26	12	21	10
Kollam	4	2	21	14	14	5	1	0	4	1	13	1
Pathanamthitta	4	2	15	7	13	4	2	0	4	1	11	4
Alappuzha	1	2	10	3	9	4	1	0	5	1	9	5
Kottayam	0	0	40	20	8	2	0	0	6	3	12	6
Idukki	0	2	6	3	7	1	0	0	1	0	6	7
Ernakulam	3	3	21	14	24	9	2	1	12	7	15	28
Trissur	2	1	22	7	31	9	3	0	5	2	22	14
Palakkad	4	4	7	0	11	2	1	0	2	2	14	7
Malappuram	2	0	10	3	7	0	0	0	4	0	17	4
Kozhikode	2	0	11	4	18	5	0	0	2	0	6	4
Wynad	0	0	0	0	2	0	0	0	0	0	1	0
Kannur	4	0	6	3	15	6	0	1	8	5	8	4
Kasaragod	0	0	0	0	5	0	0	0	2	0	0	2
Kerala	32	19	188	91	253	61	10	2	81	34	155	96

District	PGDCA		PDCA		DCA		OTHERS		TOTAL		
	M	F	M	F	M	F	M	F	Male	Female	Total
Thiruvananthapuram	186	128	6	9	51	38	78	49	482	276	758
Kollam	108	87	6	5	41	23	78	26	290	164	454
Pathanamthitta	102	77	3	2	34	30	54	24	242	151	393
Alappuzha	64	49	15	8	15	9	12	9	141	90	231
Kottayam	122	112	16	11	27	25	32	28	263	207	470
Idukki	51	48	8	12	14	13	7	8	100	94	194
Ernakulam	218	223	14	10	47	44	97	85	453	424	877
Trissur	227	168	8	1	65	48	95	50	480	300	780
Palakkad	80	95	12	14	15	15	25	17	171	156	327
Malappuram	116	37	10	1	44	9	45	7	255	61	316
Kozhikode	147	79	4	7	38	16	173	63	401	178	579
Wynad	22	9	10	5	5	12	5	3	45	29	74
Kannur	177	63	13	10	56	31	42	23	329	146	475
Kasaragod	53	18	8	2	14	8	10	7	92	37	129
Kerala	1673	1193	133	97	466	321	753	399	3744	2313	6057

Employees - Genderwise



Table 3 - Computer Institutions - Activity Wise

District	Educational	Software dev	Data processing	Data Entry	DTP works	Others
Thiruvananthapuram	182	84	49	70	81	13
Kollam	128	40	19	26	66	6
Pathanamthitta	97	19	14	13	33	2
Alappuzha	75	75	75	75	75	75
Kottayam	113	22	19	17	72	7
Idukki	56	18	19	17	18	2
Ernakulam	190	98	27	65	117	5
Trissur	217	199	200	199	203	197
Palakkad	64	14	14	11	18	2
Malappuram	112	20	13	25	30	4
Kozhikode	123	31	32	38	61	15
Wynad	20	20	20	20	20	20
Kannur	137	136	136	136	136	136
Kasaragod	39	13	8	6	7	1
Kerala	1553	789	645	718	937	485

Computer Institutions- Activity wise

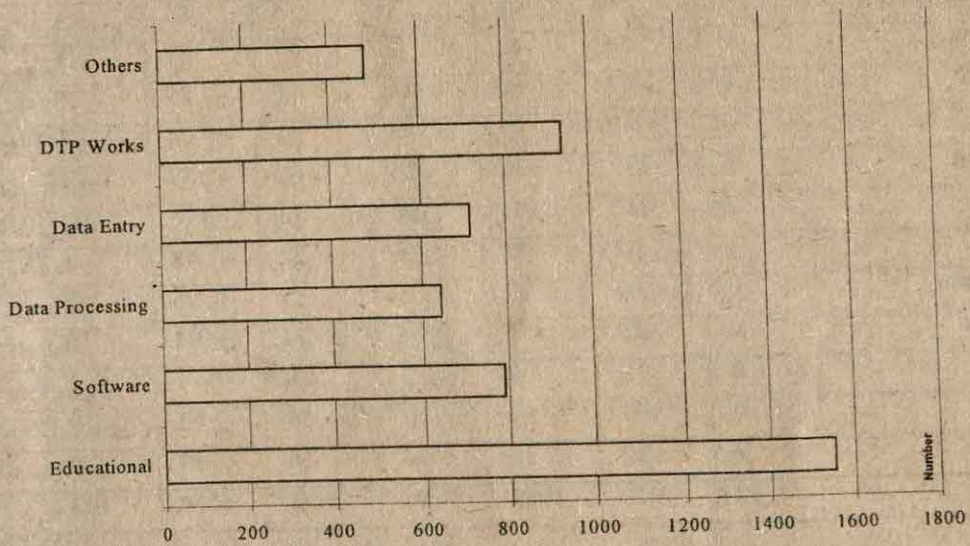


Table 4 - Details of Internet Services

District	No. of institutions		
	Website Designing	Website browsing	Others
Thiruvananthapuram	14	24	6
Kollam	8	10	9
Pathanamthitta	2	3	-
Alappuzha	5	10	10
Kottayam	5	10	1
Idukki	-	-	-
Ernakulam	4	2	3
Trissur	11	32	9
Palakkad	1	6	1
Malappuram	3	5	2
Kozhikode	9	8	4
Wynad	2	2	2
Kannur	0	-	2
Kasaragod	0	0	2
Kerala	64	112	51

Table 5 - Details of Courses Conducted

District	MCA	PGDCA	DCA	O-C Level	Data entry	Short-term	Hard-ware	Others
Thiruvananthapuram	0	89	98	7	74	153	17	51
Kollam	3	80	100	8	20	91	11	51
Pathanamthitta	1	56	64	1	5	85	4	17
Alappuzha	0	56	62	2	27	57	5	15
Kottayam	0	67	60	11	11	89	4	25
Idukki	0	47	45	3	7	40	3	27
Ernakulam	3	139	130	26	65	159	11	51
Trissur	2	157	174	10	72	176	17	69
Palakkad	1	42	52	6	22	48	1	14
Malappuram	0	67	87	6	35	78	7	45
Kozhikode	0	29	51	6	24	94	10	45
Wynad	0	8	9	1	9	7	2	10
Kannur	0	61	99	1	54	63	9	45
Kasaragod	2	27	32	3	16	29	2	7
Kerala	12	925	1063	91	441	1169	103	472

Table 6 - Details of Placement

District	No. of Institutions assuring placement	No. students got placement	No. of Institutions with placement cell	No. of students secured placement through cell
Thiruvananthapuram	7	45	6	82
Kollam	102	25	22	60
Pathanamthitta	96	203	94	70
Alappuzha	75	13	75	54
Kottayam	115	52	114	23
Idukki	56	0	54	0
Ernakulam	150	693	145	599
Trissur	216	163	214	261
Palakkad	67	0	67	0
Malappuram	113	145	112	76
Kozhikode	174	178	173	194
Wynad	20	7	20	4
Kannur	137	69	137	41
Kasaragod	39	61	36	49
Kerala	1367	1654	1269	1513

Table 7 -Details of Machines

District	Computers													
	286		386		486		Pentium		P II		Main frame AS 400		Other	
	Inst.	No.	Inst.	No.	Inst.	No.	Inst.	No.	Inst.	No.	Inst.	No.	Inst.	No.
Thiruvananthapuram	28	54	67	163	106	279	138	553	40	199	1	1	6	39
Kollam	26	49	67	149	97	266	128	337	25	84	1	1	8	10
Pathanamthitta	25	65	44	101	65	169	55	145	58	165	0	0	0	0
Alappuzha	17	28	30	71	45	101	54	156	19	36	0	0	5	12
Kottayam	20	47	59	124	99	250	90	245	48	96	0	0	3	6
Idukki	11	23	23	62	40	131	44	145	8	20	0	0	6	7
Ernakulam	28	53	71	189	147	552	189	631	54	199	1	2	7	12
Trissur	39	83	104	270	137	344	145	474	72	207	0	0	12	33
Palakkad	17	40	32	86	46	112	45	192	14	33	0	0	1	2
Malappuram	34	80	55	149	67	204	74	246	22	66	2	2	3	7
Kozhikode	42	83	68	165	86	215	104	309	27	68	2	3	13	17
Wynad	1	2	10	35	10	24	16	36	8	10	1	2	0	0
Kannur	27	49	69	154	97	250	98	309	17	50	0	0	3	4
Kasaragod	4	7	21	51	29	72	29	83	2	3	0	0	1	1
Kerala	319	663	720	1769	1071	2969	1209	3861	414	1236	8	11	68	150

District	Printers									
	Dot Matrix		Inkjet		LaserJet		Scanner		Others	
	Inst.	No.	Inst.	No.	Inst.	No.	Inst.	No.	Inst.	No.
Thiruvananthapuram	126	153	66	74	34	35	36	29	19	21
Kollam	85	102	69	71	60	60	34	34	8	18
Pathanamthitta	68	81	28	29	33	35	22	22	14	20
Alappuzha	51	56	25	26	15	16	13	14	10	14
Kottayam	102	111	54	55	56	58	36	39	3	3
Idukki	49	54	16	17	9	9	10	11	4	4
Ernakulam	141	162	71	76	51	52	27	27	11	12
Trissur	147	173	57	58	27	28	18	18	19	24
Palakkad	56	75	18	19	11	12	9	9	4	5
Malappuram	82	88	23	23	17	17	16	17	17	20
Kozhikode	95	129	31	32	46	47	38	38	17	34
Wynad	14	17	8	8	7	7	7	8	1	1
Kannur	103	125	14	14	14	14	8	8	7	15
Kasaragod	28	31	4	4	5	5	5	5	2	6
Kerala	1147	1357	484	506	385	395	279	279	136	197

Table 8 - Details of Operating System & Networking

District	Number of Institutions having							
	DOS	MACINT OSH	UNIX	OS/2	WIN 95/98	WIN NT	NOVELL	OTHERS
Thiruvananthapuram	158	1	42	3	178	44	26	11
Kollam	152	6	29	1	161	27	30	3
Pathanamthitta	86	1	28	8	89	24	21	47
Alappuzha	75	1	25	4	75	20	20	10
Kottayam	157	2	6	1	143	21	12	2
Idukki	50	2	7	2	52	6	14	4
Ernakulam	218	5	71	12	227	76	42	16
Trissur	246	6	101	4	245	76	72	23
Palakkad	61	0	19	2	60	16	25	2
Malappuram	107	0	14	0	105	22	29	18
Kozhikode	166	4	23	0	157	24	32	16
Wynad	20	16	16	16	20	17	17	16
Kannur	125	1	14	-	123	19	24	2
Kasaragod	39	0	7	0	34	5	16	8
Kerala	1660	45	402	53	1669	397	380	178



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