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UTILIZATION OF E-RESOURCES BY THE FACULTY MEMBERS OF MEDICAL COLLEGES IN TAMIL NADU AND PUDUCHERRY : A STUDY

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INTRODUCTION

Information is one of the basic needs of human existence. It is undoubtedly and increasingly being recognized that information is a vital resource. Information is an indispensable raw material for right decision-making from the governmental and institutional level to the personal level. It is in fact a vital ingredient for the social development of any nation especially developing countries like India. It is a well-accepted generalization that a country, which is rich in information, is rich in the socio-economic spheres.

INFORMATION AND COMMUNICATION TECHNOLOGY

Information and Communication Technology (ICT) is the scientific, technological and Engineering disciplines and the management Technologies used in the handling of information, Processing and application related to computers. It is also concerned with the interactions with man and machines; and associated socio-economic and cultural matters (UNESCO in Osuagun, 2001)

OBJECTIVES

To study the respondents' information sharing and communication Technology in the selected Medical Colleges in Tamilnadu and Puducherry.

RESULTS AND DISCUSSION

A study of data in table 1 indicates Medical College wise respondents' extent of information needs. It could be noted that out of the total 839 respondents, 17.25 percent of them highly require review of literature information and 18.25 percent of them frequently require review of literature information. Of the total 839 respondents 21.00 percent of them occasionally require review of literature information and 16.75 percent of them rarely require review of literature information. Moreover, 26.75 percent of them never require review of literature information.

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Out of the total 839 respondents, 17.25 percent of them highly require theoretical background information and 18.25 percent of them frequently require theoretical background information. Of the total 839 respondents 15.75 percent of them occasionally require theoretical background information and 23.25 percent of them rarely require theoretical background information. Moreover, 25.50 percent of them never require theoretical background information.

In this study that out of the total 839 respondents, 16.00 percent of them highly require method process and procedure information and 19.75 percent of them frequently require method process and procedure information. Of the total 839 respondents 16.75 percent of them occasionally require method process and procedure information and 29.25 percent of them rarely require method process and procedure information. Moreover, 18.25 percent of them never require method process and procedure information.

It is seen from the table that out of the total 839 respondents, 18.00 percent of them highly require experimental design result and application oriented information and 25.50 percent of them frequently require experimental design result and application oriented information. Of the total 839 respondents 19.25 percent of them occasionally require experimental design result and application oriented information and 17.00 percent of them rarely require experimental design result and application oriented information. Moreover, 20.25 percent of them never require experimental design result and application oriented information.

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Table 1 Medical College wise distributions of respondents according to their information usage

		Rev	view of literature	:			Т	heoretical backg	round			Method,	process and proc	edures	
Colleges	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
MMMC & GH	8	12	13	4	10	16	6	12	8	2	8	6	2	8	20
MINIME & GH	(18.18)	(27.27)	(22.73)	(9.09)	(22.73)	(36.36)	(13.64)	(27.27)	(18.18)	(4.55)	(18.18)	(13.64)	(4.55)	(18.18)	(45.45)
Chengalpattu	30	4	8	28	8	12	32	6	8	16	8	16	16	28	6
Medical College	(35.14)	(5.14)	(10.81)	(37.84)	(10.81)	(16.22)	(43.24)	(8.11)	(10.81)	(21.62)	(10.81)	(21.62)	(21.62)	(37.84)	(8.11)
Madruai Medical	70	25	12	18	56	16	68	12	42	36	42	64	36	16	12
College & Hospital	(37.65)	(11.76)	(7.06)	(10.59)	(32.94)	(9.41)	(37.65)	(7.06)	(24.71)	(21.18)	(24.71)	(37.65)	(21.18)	(9.41)	(7.06)
Kilpauk Medical	52	34	42	46	26	38	2	52	40	42	40	42	34	42	38
College	(23.81)	(21.43)	(26.19)	(19.05)	(9.52)	(19.05)	(2.38)	(30.95)	(23.81)	(23.81)	(23.81)	(19.05)	(14.29)	(16.67)	(26.19)
Stanley Medical	16	22	31	10	14	32	42	14	14	10	14	36	10	15	16
College	(18.60)	(23.26)	(30.23)	(11.63)	(16.28)	(37.21)	(18.60)	(16.28)	(16.28)	(11.63)	(16.28)	(41.86)	(11.63)	(13.95)	(16.28)
Tanjore Medical	12	10	6	20	2	17	6	4	12	16	15	8	15	15	2
College	(27.27)	(22.73)	(13.64)	(31.82)	(4.55)	(27.27)	(13.64)	(4.55)	(22.73)	(31.82)	(22.73)	(13.64)	(31.82)	(27.27)	(4.55)
Thirunelvelli	6	8	20	11	6	16	10	12	6	13	8	23	10	7	14
Medical College	(12.00)	(16.00)	(40.00)	(20.00)	(12.00)	(32.00)	(16.00)	(24.00)	(12.00)	(16.00)	(12.00)	(36.00)	(16.00)	(12.00)	(24.00)
Coimbatore	20	10	32	8	17	33	25	10	17	8	12	30	10	20	14
Medical College	(25.00)	(12.50)	(40.00)	(10.00)	(12.50)	(35.00)	(27.50)	(12.50)	(15.00)	(10.00)	(15.00)	(35.00)	(10.00)	(25.00)	(15.00)
Jipmer	10	16	12	8	6	34	4	10	6	2	6	20	8	15	12
Jipiner	(19.23)	(30.77)	(23.08)	(15.38)	(11.54)	(65.38)	(7.69)	(11.54)	(11.54)	(3.85)	(11.54)	(34.62)	(11.54)	(19.23)	(23.08)
Total	224	141	176	153	145	214	195	132	153	145	153	245	141	166	134
10(4)	(26.75)	(16.75)	(21.00)	(18.25)	(17.25)	(25.50)	(23.25)	(15.75)	(18.25)	(17.25)	(18.25)	(29.25)	(16.75)	(19.75)	(16.00)

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		Experime	ental design and	application			Informatio	on about previou	is work done			Informatio	n about current	development	
Colleges	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
MMMC & GH	6	4	16	8	10	2	6	12	8	16	8	8	2	6	20
winning & GIT	(13.64)	(9.09)	(36.36)	(18.18)	(22.73)	(4.55)	(13.64)	(27.27)	(18.18)	(36.36)	(18.18)	(18.18)	(4.55)	(13.64)	(45.45)
Chengalpattu	8	26	12	24	4	16	32	6	8	12	8	28	16	16	6
Medical College	(10.81)	(35.14)	(16.22)	(32.43)	(5.14)	(21.62)	(43.24)	(8.11)	(10.81)	(16.22)	(10.81)	(37.84)	(21.62)	(21.62)	(8.11)
Madurai Medical	32	18	23	64	40	36	76	10	52	16	48	36	46	80	20
College	(18.82)	(10.59)	(9.41)	(37.65)	(23.53)	(21.18)	(38.82)	(5.88)	(24.71)	(9.41)	(22.35)	(11.76)	(21.18)	(37.65)	(7.06)
Kilpauk Medical	32	42	28	32	34	32	26	42	34	26	28	26	24	32	30
College	(23.81)	(16.67)	(19.05)	(19.05)	(21.43)	(23.81)	7.14	(26.19)	(23.81)	(19.05)	(21.43)	(19.05)	(14.29)	(19.05)	(26.19)
Stanley Medical	26	15	28	32	20	20	23	12	16	44	19	25	12	23	27
College	25.58	(11.63)	(27.91)	(18.60)	(16.28)	(11.63)	(20.93)	(13.95)	(16.28)	(37.21)	(16.28)	(23.26)	(11.63)	(20.93)	(27.91)
Tanjore Medical	6	12	10	18	10	14	6	2	15	17	12	8	16	8	12
College	(13.64)	(22.73)	(13.64)	(27.27)	(22.73)	(31.82)	(13.64)	(4.55)	(22.73)	(27.27)	(22.73)	(13.64)	(31.82)	(13.64)	(18.18)
Thirunelvelli	24	10	9	10	8	8	13	10	6	25	6	12	10	17	12
Medical College	(40.00)	(20.00)	(12.00)	(12.00)	(16.00)	(16.00)	(16.00)	(16.00)	(12.00)	(40.00)	(12.00)	(20.00)	(16.00)	(28.00)	(24.00)
Coimbatore	20	8	24	18	10	13	22	13	12	28	12	28	8	20	12
Medical College	(25.00)	(10.00)	(30.00)	(22.50)	(12.50)	(10.00)	(27.50)	(12.50)	(15.00)	(35.00)	(15.00)	(35.00)	(10.00)	(25.00)	(15.00)
linmor	16	8	12	8	14	4	4	6	6	34	6	16	6	14	10
Jipmer	(23.08)	(11.54)	(23.08)	(15.38)	(26.92)	(3.85)	(7.69)	(11.54)	(11.54)	(65.38)	(11.54)	(30.77)	(11.54)	(26.92)	(19.23)
Total	170	143	162	214	150	145	206	113	151	218	147	187	140	216	149
10(d)	(20.25)	(17.00)	(19.25)	(25.50)	(18.00)	(17.25)	(24.50)	(13.50)	(18.75)	(26.00)	(17.50)	(22.25)	(16.75)	(25.75)	(17.75)

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	Com	puter progra	mme and model b	ouilding inform	ation		Ma	anagement inform	nation				Standard and pate	ent	
Colleges	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
MMMC & GH	20	6	8	4	6	6	14	10	8	6	2	6	8	8	20
MIMIMC & OH	(45.45)	(13.64)	(18.18)	(9.09)	(13.64)	(13.64)	(31.82)	(22.73)	(18.18)	(13.64)	(4.55)	(13.64)	(18.18)	(18.18)	(45.45)
Chengalpattu	40	18	6	4	6	16	14	4	24	16	26	28	34	13	6
Medical College	(54.05)	(24.32)	(8.11)	(5.14)	(8.11)	(21.62)	(18.92)	(5.14)	(32.43)	(21.62)	(21.62)	(21.62)	(37.84)	(10.81)	(8.11)
Madras Medical	16	60	20	88	26	46	38	62	60	18	48	84	40	43	18
College	(9.41)	(29.41)	(5.88)	(45.88)	(9.41)	(21.18)	(16.47)	(24.71)	(31.76)	(5.88)	(21.18)	(37.65)	(11.76)	(22.35)	(7.06)
Kilpauk Medical	38	6	32	26	28	44	14	28	22	32	12	20	20	18	30
College	(26.19)	(7.14)	(26.19)	(21.43)	(19.05)	(38.10)	7.14	(21.43)	(19.05)	(14.29)	(14.29)	(19.05)	(19.05)	(21.43)	(26.19)
Stanley Medical	36	26	12	14	26	19	18	-26	21	18	12	20	25	16	26
College	(18.60)	(20.93)	(13.95)	(16.28)	(30.23)	(18.60)	(20.93)	(23.26)	(18.60)	(18.60)	(11.63)	(20.93)	(23.26)	(16.28)	(27.91)
Tanjore Medical	19	8	2	15	14	15	9	15	10	12	16	10	6	15	10
College	(31.82)	(13.64)	(4.55)	(22.73)	(27.27)	(22.73)	(13.64)	(22.73)	(18.18)	(22.73)	(31.82)	(13.64)	(13.64)	(22.73)	(18.18)
Thirunelvelli	8	17	12	8	19	12	18	10	10	10	10	14	10	6	16
Medical College	(16.00)	(28.00)	(16.00)	(12.00)	(28.00)	(24.00)	(28.00)	(16.00)	(16.00)	(16.00)	(16.00)	(28.00)	(20.00)	(12.00)	(24.00)
Coimbatore	19	21	12	13	28	14	18	16	30	4	8	20	28	12	13
Medical College	(15.00)	(22.50)	(12.50)	(15.00)	(35.00)	(17.50)	(22.50)	(17.50)	(37.50)	5.00	(10.00)	(25.00)	(35.00)	(15.00)	(15.00)
UDMED	18	10	6	6	12	6	10	14	16	6	6	14	16	16	10
JIPMER	(34.62)	(19.23)	(11.54)	(11.54)	(23.08)	(11.54)	(19.23)	(26.92)	(30.77)	(11.54)	(11.54)	(26.92)	(30.77)	(11.54)	(19.23)
T-4-1	214	172	110	178	165	178	153	185	201	122	140	216	187	147	149
Total	(25.50)	(20.50)	(13.00)	(21.25)	(19.75)	(21.25)	(18.25)	(22.00)	(24.00)	(14.50)	(16.75)	(25.75)	(22.25)	(17.50)	(17.75)

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			Statistical data				Inform	nation about lab p	procedure			Scie	ntific and technic	al news	
Colleges	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
MMMC & GH	4	4	22	4	10	18	10	4	4	8	4	10	6	18	14
	(9.09)	(9.09)	(50.00)	(9.09)	(22.73)	(40.91)	(22.73)	(9.09)	(9.09)	(18.18)	(9.09)	(22.73)	(13.64)	(22.73)	(31.82)
Chengalpattu	12	17	36	6	6	14	18	14	6	30	14	18	8	26	22
Medical College	(16.22)	(18.92)	(48.65)	(8.11)	(8.11)	(18.92)	(24.32)	(18.92)	(8.11)	(29.73)	(18.92)	(16.22)	(10.81)	(24.32)	(29.73)
Madurai Medical	26	30	80	16	62	18	84	10	26	66	18	48	20	66	56
College	(9.41)	(12.94)	(37.65)	(9.41)	(30.59)	(7.06)	(44.71)	(5.88)	(9.41)	(32.94)	(5.88)	(21.18)	(5.88)	(38.82)	(28.24)
Kilpauk Medical	24	20	62	10	24	24	36	16	44	18	18	37	16	28	18
College	(14.29)	(11.90)	(50.00)	(7.14)	(16.67)	(16.67)	(30.95)	(9.52)	(33.33)	(9.52)	(9.52)	(40.48)	(14.29)	(26.19)	(9.52)
Stanley Medical	15	17	53	16	13	26	24	24	28	10	19	23	44	21	20
College	(11.63)	(16.28)	(53.49)	(6.98)	(11.63)	(18.60)	(23.26)	(16.28)	(30.23)	(11.63)	(16.28)	(23.26)	(27.91)	(20.93)	(11.63)
Tanjore Medical	10	9	21	4	10	10	10	8	16	12	6	8	4	27	2
College	(22.73)	(13.64)	(36.36)	(9.09)	(18.18)	(18.18)	(18.18)	(13.64)	(31.82)	(18.18)	(13.64)	(18.18)	(9.09)	(54.55)	(4.55)
Thirunelvelli	6	5	29	6	6	17	30	2	4	8	6	17	10	16	9
Medical College	(12.00)	(16.00)	(48.00)	(12.00)	(12.00)	(28.00)	(48.00)	(4.00)	(8.00)	(12.00)	(12.00)	(28.00)	(16.00)	(32.00)	(12.00)
Coimbatore	8	16	32	8	18	22	18-	10	21	19	8	18	6	36	21
Medical College	(10.00)	(20.00)	(40.00)	(10.00)	(20.00)	(25.00)	(22.50)	(10.00)	(22.50)	(20.00)	(10.00)	(22.50)	(5.00)	(42.50)	(20.00)
JIPMER	6	10	26	10	4	12	20	10	6	4	10	14	8	18	4
JIFWIEK	(11.54)	(19.23)	(50.00)	(11.54)	(7.69)	(23.08)	38.46	(19.23)	(11.54)	(7.69)	(19.23)	(26.92)	(11.54)	(34.62)	(7.69)
Total	111	128	361	86	153	161	250	98	155	175	103	193	122	256	166
Total	(13.25)	(15.25)	(43.00)	(10.25)	(18.25)	(19.25)	(29.75)	(11.75)	(18.50)	(20.75)	(12.25)	(23.00)	(14.50)	(30.50)	(19.75)

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		Не	ealth informati	on		Informa	tion about	Government de technology	ecision on sci	ence and
Colleges	Not required	Rarely required	Occasiona lly required	Frequent ly required	Highly require d	Not require d	Rarely require d	Occasionall y required	Frequent ly required	Highly require d
MMMC & GH	16	20	2	6	12	8	14	2	14	6
	(36.36)	(31.82)	(4.55)	(13.64)	(13.64)	(18.18)	(31.82)	(4.55)	(31.82)	(13.64)
Chengalpattu Medical	28	24	16	32	12	22	10	16	36	32
College	(24.32)	(24.32)	(21.62)	(21.62)	(8.11)	(16.22)	(13.51)	(21.62)	(24.32)	(24.32)
Madurai Medical College	32	92	54	4	28	20	80	42	36	32
Madurar Medicar Conege	(12.94)	(47.06)	(24.71)	(2.35)	(12.94)	(10.59)	(41.18)	(18.82)	(16.47)	(12.94)
Kilmault Madical Callage	20	18	22	32	25	20	26	12	30	28
Kilpauk Medical College	(21.43)	(19.05)	(14.29)	(19.05)	(26.19)	(21.43)	(19.05)	(14.29)	(23.81)	(21.43)
Stanley Medical College	16	15	12	20	-28	18	30	12	24	24
Stamey Wedical Conege	(16.28)	(23.26)	(11.63)	(20.93)	(27.91)	(18.60)	(23.26)	(11.63)	(23.26)	(23.26)
Tanjore Medical College	10	16	10	8	6	4	17	11	10	8
Tanjore Medical College	(18.18)	(36.36)	(18.18)	(13.64)	(13.64)	(9.09)	(31.82)	(18.18)	(22.73)	(18.18)
Thirunelvelli Medical	18	6	-10	12	10	16	8	8	6	18
College	(32.00)	(12.00)	(16.00)	(20.00)	(20.00)	(32.00)	(12.00)	(16.00)	(12.00)	(28.00)
Coimbatore Medical College	12	43	8	10	12	12	36	8	25	10
Combatore Medical Conege	(15.00)	47.50	(10.00)	(12.50)	(15.00)	(15.00)	(37.50)	(10.00)	(25.00)	(12.50)
Linmor	8	16	6	4	18	8	16	4	16	8
Jipmer	(15.38)	(30.77)	(11.54)	(7.69)	(34.62)	(15.38)	(30.77)	(7.69)	(30.77)	(15.38)
Total	160	260	140	128	151	128	237	115	197	162
10(a)	(19.00)	(31.00)	(16.75)	(15.25)	(18.00)	(15.25)	(28.25)	(13.75)	(23.50)	(19.25)
e computed Figures in p	arentheses de	enote percenta	ages							

Sourc e computed

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		ANOVA			
Source of Variation	SS	df	MS	F	F crit
Rows	1344.207	9	149.3563	8.84753	1.960817
Columns	147.1214	13	11.31703	0.670395	1.804693
Error	1975.093	117	16.88114		
Total	3466.421	139			

It is significant to observe that out of the total 839 respondents, 26.00 percent of them highly require information about previous work done in their area and 18.75 percent of them frequently require information about previous work done in their area. Of the total 839 respondents 13.50 percent of them occasionally require information about previous work done in their area and 24.50 percent of them rarely require information about previous work done in their area. Moreover, 17.25 percent of them never require information about previous work done in their area.

It is clear from the table data that out of the total 839 respondents, 17.75 percent of them highly require information about current development in their field and 25.75 percent of them frequently require information about current development in their field. Of the total 839 respondents 16.75 percent of them occasionally require information about current development in their field and 22.25 percent of them rarely require information about current development in their field. Moreover, 17.50 percent of them never require information about current development in their field.

A keen observation of data in table reveals that out of the total 839 respondents, 19.75 percent of them highly require computer programme and model building information and 21.25 percent of them frequently require computer programme and model building information. Of the total 839 respondents 13.00 percent of them occasionally require computer programme and model building information and 20.50 percent of them rarely require computer programme and model building information. Moreover, 25.50 percent of them never computer programme and model building information.

Out of the total 839 respondents, 14.50 percent of them highly require management information and 24.00 percent of them frequently require management information. Of the total 839 respondents 22.00 percent of them occasionally require management information and 90

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18.25 percent of them rarely require management information. Moreover, 21.25 percent of them never require management information.

It is observed that out of the total 839 respondents, 17.75 percent of them highly require standard and patented information and 17.50 percent of them frequently require standard and patented information. Of the total 839 respondents 22.25 percent of them occasionally require standard and patented information and 25.75 percent of them rarely require standard and patented information. Moreover, 16.75 percent of them never require standard and patented information.

A keen observation of data in table reveals that out of the total 839 respondents, 18.25 percent of them highly require statistical data information and 10.25 percent of them frequently require statistical data information. Of the total 839 respondents 43.00 percent of them occasionally require statistical data information and 15.25 percent of them rarely require statistical data information. Moreover, 13.25 percent of them never require statistical data information.

It is seen from the table that out of the total 839 respondents, 20.75 percent of them highly require information about lab procedure and 18.50 percent of them frequently require information about lab procedure. Of the total 839 respondents 11.75 percent of them occasionally require information about lab procedure and 29.75 percent of them rarely require information about lab procedure. Moreover, 19.25 percent of them never require information about lab procedure.

Out of the total 839 respondents, 19.75 percent of them highly require scientific and technical news information and 30.50 percent of them frequently require scientific and technical news information. Of the total 839 respondents 14.50 percent of them occasionally require scientific and technical news information and 23.00 percent of them rarely require scientific and technical news information. Moreover, 12.25 percent of them never require scientific and technical news information.

It is observed that out of the total 839 respondents, 18.00 percent of them highly require health information and 15.25 percent of them frequently require health information. Of the total 839 respondents 16.75 percent of them occasionally require health information and 31.00 percent of them rarely require health information. Moreover, 19.00 percent of them never require health information.

It is significant to note that out of the total 839 respondents, 19.25 percent of them highly require information on government's decision on science and technology and 23.50 percent of them frequently require information on government's decision on science and technology. Of the total 839 respondents 13.75 percent of them occasionally require 91

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information on government's decision on science and technology and 28.25 percent of them rarely require information on government's decision on science and technology. Moreover, 15.25 percent of them never require information on government's decision on science and technology.

The Medical College wise analysis reveals the following facts. The respondents of Madurai Medical College occupy the first position with respect to high requirement of review of literature information (32.94%) and to statistical data information (30.59%), information about lab procedure (32.94%) and scientific and technical news information (28.24%). The respondents of Thootukudi Medical College constitute more number with respect to high requirement of experimental design result and application oriented information (26.92%), information about previous work done in their area (65.38%) and health information (34.62%) than those of others. The respondents of Kilpauk Medical College constitute more number with respect to high requirement of theoretical background information (23.81%) and information about current development in their field (26.19%). The respondents of MMMC & GH Medical College constitute more number with respect to high requirement of method process and procedure information (45.45%), information about current development in their area (45.45%) and standard and patented information (45.45%). The respondents of Thirunelveli Medical College occupy the first position with respect to high requirement of information about government's decision on science and technology (28.00%). The respondents of Coimbatore Medical College (35%) constitute more number with respect to high requirement of computer programme and model building information.

The ANOVA two way model is applied for further discussion. At one point, the computed ANOVA value is 8.84, which is greater than its tabulated value at 5 percent level of significance. Hence, there is a significant variation among the chosen components of information needs with respect to views of respondents of different Medical Colleges. From another point of view, the computed ANOVA value is 0.67, which is lesser than its tabulated value at 5 percent level of significance. Hence, variation among the chosen Medical Colleges is statistically identified as insignificant with respect to information needs of faculty members.

It could be seen clearly from the above discussion that respondents rated first order priority to high requirement of information about previous work done in their area followed by information about lab procedure, information on government's decision on science and technology, scientific and technical news information and statistical data information. In general, respondents give less importance to review of literature information, theoretical background information, and health information.

A study of data in table 2 indicates education wise respondents' extent of information needs. The education wise analysis reveals the following facts. The respondents of MS level

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educated respondents occupy the first position with respect to high requirement of review of literature information (38.67%) theoretical background information (34.67%), method process and procedure information (28%), scientific and technical news information (40%) and information on government's decision on science and technology (34.67%). The M.B.B.S. level educated respondents constitute more number with respect to high requirement of experimental design result and application oriented information (23.33%), standard and patent information (27.78%) and health information (27.78%).

The MD degree level educated respondents occupy the first with respect to high requirement of information about previous work done in their area (37.78%), information about current development in their field (24.77%), statistical data information (25.23%), information about lab procedure (25.23%) and scientific and technical information (40%).

It could be seen clearly from the above discussion that MS and MD level educated respondents highly require various types of information than M.B.B.S. with Diploma level and M.B.B.S. degree level educated respondents.

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Table 2 Education wise distributions of respondents according to their information needs

		I	Review of literat	ure			Tł	neoretical backgr	ound			Metho	d, process and pr	ocedures	
Education	Not	Rarely	Occasionally	Frequently	Highly	Not	Rarely	Occasionally	Frequently	Highly	Not	Rarely	Occasionally	Frequently	Highly
	required	required	required	required	required	required	required	required	required	required	required	required	required	required	required
M.B.B.S.	60	20	30	50	22	42	56	26	40	14	42	56	26	42	14
WI.D.D.S.	(33.33)	(11.11)	(16.67)	(27.78)	(11.11)	(23.33)	(31.11)	(14.44)	(23.33)	(7.78)	(23.33)	(31.11)	(14.44)	(23.33)	(7.78)
M.B.B.S	12	8	14	4	4	17	8	17	4	4	4	22	8	4	4
with	(28.57)	(19.05)	(33.33)	(9.52)	(9.52)	(28.57)	(19.05)	(33.33)	(9.52)	(9.52)	(9.52)	5(2.38)	(19.05)	(9.52)	(9.52)
Diploma	(20.57)	(1).03)	(33.33)	().52)	().52)	(20.57)	(17.05)	(33.33)	().32)	().52)	(9.52)	5(2.50)	(17.05)	().52)	().52)
M.D	116	89	111	69	61	129	87	70	89	70	84	128	71	100	68
MI.D	(27.10)	(20.09)	(25.23)	(14.49)	(13.08)	28.97	(19.16)	(16.36)	(19.63)	(15.89)	(19.63)	(27.57)	(14.95)	(21.96)	(15.89)
M.S	36	24	21	30	58	26	44	19	20	57	23	39	36	20	48
141.5	(17.33)	(13.33)	(10.67)	(20.00)	(38.67)	(17.33)	(26.67)	(10.67)	(10.67)	(34.67)	(10.67)	(25.33)	(24.00)	(12.00)	(28.00)
Total	224	141	176	153	145	214	195	132	153	145	153	245	141	166	134
10(a)	(26.75)	(16.75)	(21.00)	(18.25)	(17.25)	(25.50)	(23.25)	(15.75)	(18.25)	(17.25)	(18.25)	(29.25)	(16.75)	(19.75)	(16.00)

		Experime	ntal design and	application			Informatio	n about previou	s work done			Information	n about current	development	
Education	Not required	Rarely required	Occasionally required	Frequently required	Higher sought after	Not required	Rarely required	Occasionally required	Frequently required	Higher sought after	Not required	Rarely required	Occasionally required	Frequently required	Higher sought after
M.B.B.S.	44	38	22	34	42	40	64	22	34	20	38	54	26	46	16
M.D.D.3.	(24.44)	(21.11)	(12.22)	(18.89)	(23.33)	(22.22)	(35.56)	(12.22)	(18.89)	(11.11)	(21.11)	(30.00)	(14.44)	((25.56))	(8.89)
M.B.B.S	10	16	6	4	4	16	12	6	4	4	8	10	8	12	4
with Diploma	(23.81)	((42.86))	(14.29)	(9.52)	(9.52)	(38.10)	(28.57)	(14.29)	(9.52)	(9.52)	(19.05)	(23.81)	(19.05)	(28.57)	(9.52)
MD	80	68	76	128	85	62	81	55	74	170	70	94	72	100	106
M.D	(18.69)	(14.95)	(17.76)	(29.91)	(18.69)	(14.49)	(19.16)	(11.68)	(17.29)	(37.38)	15.42	(21.96)	(16.82)	(21.03)	(24.77)
MC	36	21	57	48	20	27	48	30	46	24	31	29	34	58	23
M.S	(18.67)	(10.67)	(33.33)	(25.33)	(12.00)	(13.33)	(25.33)	(20.00)	(25.33)	(16.00)	(18.67)	(13.33)	(18.67)	(38.67)	(10.67)
T (1	170	143	161	214	151	145	205	113	158	218	147	187	140	216	149
Total	(20.25)	(17.00)	(19.25)	(25.50)	(18.00)	(17.25)	(24.50)	(13.50)	(18.75)	(26.00)	(17.50)	(22.25)	(16.75)	(25.75)	(17.75)

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	Co	mputer progr	amme model bui	lding informati	on		Ma	nagement inform	ation			:	Standard and pate	ent	
Education	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
M.B.B.S.	46 (25.56)	48 (26.67)	22 (12.22)	38 (21.11)	26 (14.44)	38 (21.11)	21 (23.33)	26 (14.44)	42 (23.33)	32 (17,78)	20 (11.11)	44 (24.44)	28 (15.56)	38 (21.11)	50 (27.78)
M.B.B.S with Diploma	8 (19.05)	10 (23.81)	8 (19.05)	12 (28.57)	4 (9.52)	12 (28.57)	5 (23.81)	6 (9.52)	12 (28.57)	4 (9.52)	8 (19.05)	10 (23.81)	8 (19.05)	12 (28.57)	4 (9.52)
M.D	132 (28.50)	96 (20.09)	57 (12.15)	70 (14.49)	109 24.77	70 (14.49)	37 (17.29)	16 (27.10)	(23.36)	80 (17.76)	48 (11.21)	128 (27.57)	120 (25.70)	75 (16.36)	82 (19.16)
M.S	28 (18.67)	20 (13.33)	22 (14.67)	58 (38.67)	27 (14.67)	58 (38.67)	10 (13.33)	36 (20.00)	38 (25.33)	6 2.67	64 (38.67)	34 (22.67)	32 (21.33)	20 (13.33)	14 (4.00)
Total	214 (25.50)	172 (20.50)	109 (13.00)	178 (21.25)	166 (19.75)	178 (21.25)	153 (18.25)	184 (22.00)	202 (24.00)	122 (14.50)	140 (16.75)	216 (25.75)	188 (22.25)	145 (17.50)	150 (17.75)

			Statistical data				Inform	ation about lab p	rocedure			Scier	tific and technica	al news	
Education	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
M.B.B.S.	16	36	90	20	18	20	64	24	40	32	24	56	28	40	32
M.D.D.3.	(8.89)	(20.00)	(50.00)	(11.11)	(10.00)	(11.11)	(35.56)	(13.33)	(22.22)	(17.78)	(13.33)	(31.11)	(15.56)	(22.22)	(17.78)
M.B.B.S	10	8	12	8	4	10	12	4	8	8	8	8	4	12	10
with Diploma	(23.81)	(19.05)	(28.57)	(19.05)	(9.52)	(23.81)	(28.57)	(9.52)	(19.05)	(19.05)	(19.05)	(19.05)	(9.52)	(28.57)	(23.81)
M.D	32	48	217	40	115	110	138	54	49	116	52	87	76	182	60
M.D	(7.48)	(9.81)	(49.07)	8.41	(25.23)	(23.83)	(29.44)	(11.68)	(9.81)	(25.23)	(11.21)	(19.16)	(16.36)	(40.19)	(13.08)

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MS	53	36	42	18	16	22	36	16	58	18	18	42	14	22	64
M.S	(32.00)	(24.00)	(21.33)	(12.00)	(10.67)	(14.67)	(24.00)	(10.67)	(38.67)	(12.00)	(12.00)	(25.33)	(9.33)	(13.33)	(40.00)
Total	111	128	361	86	153	162	250	98	155	174	102	193	122	256	166
Total	(13.25)	(15.25)	(43.00)	(10.25)	(18.25)	(19.25)	(29.75)	(11.75)	(18.50)	(20.75)	(12.25)	(23.00)	(14.50)	(30.50)	(19.75)

		He	ealth informati	on		Informa	tion about	government's technology		ience and	
Education	Not required	Rarely required	Occasion ally required	Frequentl y required	Highly required	Not require d	Rarely require d	Occasionall y required	Frequent ly required	Highly required	Total
M.B.B.S.	30	56	13	40	50	39	50	18	40	34	181
m.b.b.b.	(17.78)	(22.22)	(10.00)	(22.22)	(27.78)	(20.00)	(26.67)	(10.00)	(22.22)	(21.11)	101
M.B.B.S with	48	62	22	10	21	11	17	10	12	15	65
Diploma	(28.57)	(23.81)	(19.05)	(14.29)	(14.29)	(19.05)	(28.57)	(19.05)	(14.29)	(19.05)	0.5
M.D	19	104	69	60	62	58	145	52	122	58	435
WI.D	(11.68)	(41.12)	(17.29)	(14.02)	(15.89)	13.55	(33.64)	(11.68)	(28.04)	(13.08)	433
M.S	62	38	36	18	19	20	25	35	23	55	158
M.5	(38.67)	(14.67)	(22.67)	(10.67)	(13.33)	(13.33)	(14.67)	(22.67)	(14.67)	(34.67)	150
Total	159	260	140	128	152	128	237	115	197	162	839
TOTAL	(19.00)	(31.00)	(16.75)	(15.25)	(18.00)	(15.25)	(28.25)	(13.75)	(23.50)	(19.25)	039

Source computed

Figures in parentheses denote percentages

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Table 3 Designation wise distributions of respondents according to their information needs

Designation		Review of literature						neoretical backgr	ound		Method, process and procedures					
	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	
Tutor	62	32	38	36	60	56	62	34	36	40	36	82	34	42	34	
	(27.19)	(14.04)	(16.67)	(15.79)	26.32	(24.56)	(27.19)	(14.91)	(15.79)	(17.54)	(15.79)	(35.96)	(14.91)	(18.42)	(14.91)	
Assistant Professor	48	38	48	26	12	42	38	46	26	20	26	38	38	24	48	
	(27.91)	(22.09)	(27.91)	(15.12)	(6.98)	(24.42)	(22.09)	(26.74)	(15.12)	(11.63)	(15.12)	(22.09)	(20.93)	(13.95)	(27.91)	
Associate Professor	74	42	54	67	24	78	36	28	60	47	64	70	29	64	28	
	(27.83)	(15.65)	(20.00)	(26.09)	(10.43)	(29.57)	(15.65)	(9.57)	(26.09)	(19.13)	(26.09)	(27.83)	(10.43)	(26.09)	(9.57)	
Professor	40	30	36	24	49	38	59	24	31	39	27	55	40	36	24	
	(23.53)	(16.47)	(21.18)	(14.12)	(24.71)	(22.35)	(29.41)	(14.12)	(14.12)	(20.00)	(14.12)	(29.41)	(23.53)	(18.82)	(14.12)	
Total	224	142	176	153	145	214	195	132	153	145	153	245	141	166	134	
	(26.75)	(16.75)	(21.00)	(18.25)	(17.25)	(25.50)	(23.25)	(15.75)	(18.25)	(17.25)	(18.25)	(29.25)	(16.75)	(19.75)	(16.00)	

Designation	I	Experimenta	l design result a	nd application		Infor	mation abou	ut previous worl	done in your	field Information about current development in your field					
	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
Tutor	42	34	42	66	44	34	38	28	58	70	36	56	46	68	22
	(18.42)	(14.91)	(18.42)	(28.95)	(19.30)	(14.91)	(16.67)	(12.28)	(25.44)	(30.70)	(15.79)	(24.56)	(20.18)	(29.82)	(9.65)
Assistant	26	36	24	52	48	36	56	18	20	42	34	38	41	47	20
Professor	(15.12)	(20.93)	(13.95)	(24.42)	25.58	(20.93)	(32.56)	(10.47)	(11.63)	(24.42)	(19.77)	(22.09)	(22.09)	(24.42)	(11.63)
Associate	67	30	60	60	32	30	66	47	45	70	47	49	37	65	55
Professor	(26.09)	(11.30)	(24.35)	(26.09)	12.17	(11,30)	(26.96)	(18.26)	(17.39)	(26.09)	(18.26)	(19.13)	(14.78)	(26.09)	(21.74)
Professor	34	43	35	36	28	45	46	20	34	36	30	44	16	36	52
	(20.00)	(23.53)	(18.82)	(21.18)	(16.47)	(24.71)	(23.53)	(11.76)	(18.82)	(21.18)	(16.47)	(23.53)	(9.41)	(21.18)	(29.41)
Total	169	143	161	214	152	145	206	113	157	218	147	187	140	216	149
	(20.25)	(17.00)	(19.25)	(25.50)	(18.00)	(17.25)	(24.50)	(13.50)	(18.75)	(26.00)	(17.50)	(22.25)	(16.75)	(25.75)	(17.75)

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Designation	Co	Computer programme model building information						nagement inform	ation	Standard and patent					
	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
Tutor	68	54	26	48	32	48	44	54	56	28	34	54	48	36	56
	(29.82)	(23.68)	(11.40)	(21.05)	(14.04)	(21.05)	(19.30)	(23.68)	(23.68)	(12.28)	(14.91)	(23.68)	(21.05)	(15.79)	(24.56)
Assistant	47	40	37	45	24	26	34	42	64	16	26	62	39	32	19
Professor	(24.42)	(20.93)	(18.60)	(24.42)	(11.63)	(15.12)	(18.60)	(20.93)	(36.05)	(9.30)	(15.12)	(36.05)	(20.93)	(18.60)	(9.30)
Associate	63	48	30	55	52	49	45	56	55	46	34	60	62	52	52
Professor	(25.22)	(19.13)	(13.04)	(21.74)	(20.87)	(20.00)	(17.39)	(23.48)	(21.74)	(17.39)	(13.04)	(21.74)	(24.35)	(20.00)	(20.87)
Professor	36	30	16	30	58	55	30	32	26	32	47	40	38	27	22
	(21.18)	(17.65)	(9.41)	(17.65)	(34.1552)	(29.41)	(17.65)	(18.82)	(15.29)	(18.82)	(25.88)	(23.53)	(22.35)	(15.29)	(12.94)
Total	214	172	109	178	166	178	153	184	201	122	141	216	187	147	149
	(25.50)	(20.50)	(13.00)	(21.25)	(19.75)	(21.25)	(18.25)	(22.00)	(24.00)	(14.50)	(16.75)	(25.75)	(22.25)	(17.50)	(17.75)
	•														

Designation		Statistical data						ation about lab p	rocedure	Scientific and technical news					
	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required	Not required	Rarely required	Occasionally required	Frequently required	Highly required
Tutor	30	48	78	16	56	60	68	20	36	44	18	40	24	102	44
	(13.16)	(21.05)	(34.21)	(7.02)	(24.56)	(26.32)	(29.82)	(8.77)	(15.79)	(19.30)	(7.89)	(17.54)	(10.53)	(44.74)	(19.30)
Assistant Professor	23	16	118	12	20	20	76	21	32	40	24	55	38	40	40
	(10.47)	(8.14)	(62.79)	(6.98)	(11.63)	(10.47)	(40.70)	(9.30)	(18.60)	(20.93)	(11.63)	(29.07)	(18.60)	(19.77)	(20.93)
Associate Professor	22	42	100	26	53	53	64	22	57	56	26	74	22	74	48
	(9.57)	(16.52)	(43.48)	(9.57)	(20.87)	(20.87)	(2(5.22))	(9.57)	(21.74)	(22.61)	(11.30)	(30.43)	(9.57)	(29.57)	(19.13)
Professor	36	22	65	32	24	28	42	36	30	34	34	24	38	40	34
	(21.18)	(12.94)	(34.12)	(18.82)	(12.94)	(16.47)	(24.71)	(21.18)	(17.65)	(20.00)	(20.00)	(14.12)	(22.35)	(23.53)	(20.00)
Total	111	128	361	86	153	161	250	99	155	174	102	193	122	256	166
	(13.25)	(15.25)	(43.00)	(10.25)	(18.25)	(19.25)	(29.75)	(11.75)	(18.50)	(20.75)	(12.25)	(23.00)	(14.50)	(30.50)	(19.75)

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Designation		H	Health information	tion		Information about government's decision on science and technology						
	Not require d	Rarely require d	Occasiona lly required	Frequentl y required	Highly require d	Not required	Rarely required	Occasiona lly required	Frequently required	Highly required	Total	
Tutor	31	102	36	4	44	4	76	40	46	62	228	
1 0101	(18.42)	(44.74)	(15.79)	(1.75)	(19.30)	(1.75)	(33.33)	(17.54)	(20.18)	(27.19)	220	
Assistant Professor	39	38	34	28	36	28	46	35	56	22	187	
Assistant Professor	(20.93)	(22.09)	(19.77)	(16.28)	(20.93)	(16.28)	(23.26)	(17.44)	(30.23)	(12.79)	18/	
Associate Professor	54	78	31	50	49	56	73	16	55	50	250	
Associate Professor	(19.13)	(29.57)	(10.43)	(21.74)	(19.13)	(21.74)	(29.57)	(6.96)	(21.74)	(20.00)	250	
Durfreen	35	42	40	46	22	40	42	24	40	28	174	
Professor	(17.65)	(23.53)	(23.53)	(23.53)	(11.76)	(23.53)	(24.71)	(14.12)	(23.53)	(14.12)	1/4	
T-4-1	159	260	141	128	151	128	237	115	197	162	920	
Total	(19.00)	(31.00)	(16.75)	(15.25)	(18.00)	(15.25)	(28.25)	(13.75)	(23.50)	(19.25)	839	

Source computed

Figures in parentheses denote percentages

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A study of data in table 3 indicates designation wise respondents' extent of information needs. The designation wise analysis reveals the following facts. The Professor respondents occupy the first position with respect to high requirement of review of literature information (24.71%) theoretical background information (20%), information about current development in their field (29.41%), computer programme and model building information (34.12%) and management information (18.82%). The Assistant Professor respondents constitute more number with respect to high requirement of experimental design result and application oriented information (25.58%), method process and procedure information (20.93%) than those of others.

The Tutor respondents occupy the first with respect to high requirement of information about previous work done in their area (30.70%), standard and patent information (24.56%), statistical data information (24.56%) and information on government's decision on science and technology (27.19%).

It could be seen clearly from the above discussion that Professor respondents highly require various types of information than those of others.

FINDINGS

The findings of respondents' extent of information needs indicate the following facts. The respondents rated first order priority to high requirement of information about previous work done in their area followed by information about lab procedure, information on government's decision on science and technology, scientific and technical information and statistical data information. In general, respondents give less importance to review of literature information, theoretical background information, and health and safety information. The result of education wise analysis reveals the following facts. The MS and MD level educated respondents highly require various types of information than M.B.B.S. with Diploma level and M.B.B.S. degree level educated respondents. The result of designation wise analysis reveals the following facts. The Professor respondents highly require various types of information than those of others.

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