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# Implementation and use of Embedded Library Services at IITs in India

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# ABSTRACT

IIT Council having the Union Minister of HRD as a Chairman, co-ordinates the activities at all the IITs and is responsible for policy matters. The Council includes the Chairpersons of the Board of Governors and Directors of each IIT, UGC Chairperson, Chairman of CSIR, Director General of CSIR, Director of IISc, as well as elected members from Loksabha and Rajyasabha and nominated members. The officer concerned with the Technical Education in Dept. of Education, Government of India. MHRD will be the Secretary of the Council. His Excellency, The President of India is the Visitor of each IIT in India. Each IIT has Senate. Deans, Departments and Centres as well as the Board of Governors. Central Library, Laboratories, Research labs, etc. for smooth working of academic activities as well as other facilities for running the administration and campus life.

Embedding requires more direct and purposeful interaction than acting in parallel with another person, user group, or activity. Dewey sees embedded librarianship as a means thoroughly which academic librarians become more integrally involved and participate in collaboration with faculty research, participate as a member of research project team, strategic campus development and growth: through faculty senate, strategic planning committees, the Librarian creates a content module within Blackboard and provides relevant materials (Research Project), etc.

**KEYWORDS:** EL Services, IIT's in India, Embedded Library and Information Services, Informationist, Embedded Librarianship, Indian Institute of India.

# **1. INTRODUCTION**

Studies on Implementation and use of the EL services relating to the general Implementation and use of the Embedded Library services is considered. This covers the Implementation of Embedded Library services by Institutions or library professional's and use of the Specialized Information services by potential users (i.e., Faculty/scientists/students, etc.) for performing the jobs that are assigned to them.

Studies on Model programs: initiating, operating and evaluating covers the assessment of embedded library and information services made with an increase in the sense of initiating and operating by library professionals. This group covers services of all types of embedded library and information services: General like 'Quick Fact checking' service as well as specific services like 'In-depth-topical research' or, 'Competitive Intelligence for Research work team' etc.

# 2. Training Underwent for use of EL Service

Figure: 1. and Table 1. exhibits that, Training Underwent for use of Embedded Library and Information Services for Embedded Users (Faculty & Scientists) of central libraries of IITs wherein old IITs, the highest 267 (99.26%) Embedded Users (Faculty & Scientists) of central libraries of IITs, trained by 'Library Professional' for the use of EL Services; and 2 (0.74%)Embedded Users (Faculty & Scientists) of central libraries of IITs, trained by 'Webmasters' for use in EL Services.

In new IITs, all145 (100%) Embedded Users (Faculty & Scientists) of central libraries of IITs, trained by 'Library Professional' for use EL Services.

"India	an Institutes of	Training Underwent fo	or use of EL Serv	vice	
Techr	ology"	1	2	3	
		Library Professional	Webmasters	Database Vendor	
	IITKGP48	48	0	0	
	IITB 40	40	0	0	
$\mathbf{c}$	IITK 49	49	0	0	
Old IITs (N=7)	IITM 14	12	2	0	
ITs (	IITD 46	46	0	0	
I PI	IITG 37	37	0	0	
0	IITR 35	35	0	0	
Total	=	267 (99.26%)	2 (0.74%)	0 (0%)	
	IITBBS 10	10	0	0	
	IITGN 34	34	0	0	
	IITRPR 12	12	0	0	
	IITI 10	10	0	0	
( <b>6</b> =)	IITBHU 36	36	0	0	
New IITs (N=9)	IITPKD 12	12	0	0	
V III	IITTP 8	8	0	0	
New	IITISM 15	15	0	0	
	IITGOA 8	8	0	0	
Total	=	145 (100%)	0 (0%)	0 (0%)	
Gran	d Total=	412 (99.52%)	2 (0.48%)	0 (0%)	

Table: 1. Training underwent for use of EL Service

(Source: Compile by Researcher)

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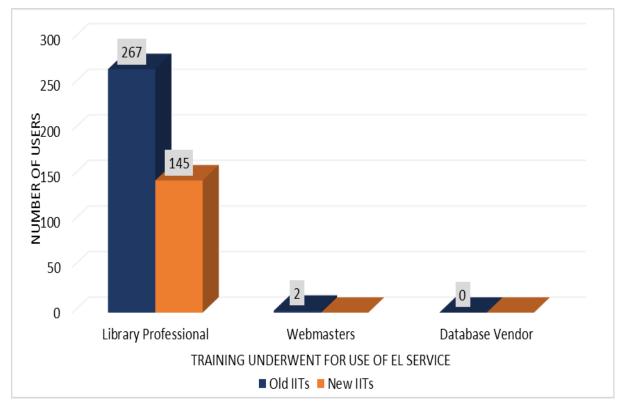


Figure: 1. Multiple bar diagram showing Training Underwent for use of EL Service

# It is concluded that:

a)99.52% (412) Embedded Users (Faculty & Scientists) of central libraries of IITs, trained by 'Library Professional' for the use EL Services; out of 414 Embedded Users (Faculty & Scientists).

b)0.48% (2) Embedded Users (Faculty & Scientists) of central libraries of IITs, trained by 'Webmasters' for use EL Services; out of 414 Embedded Users (Faculty & Scientists). and

c)0% (0) Embedded Users (Faculty & Scientists) of central libraries of IITs, trained by 'Database Vendor' for use of EL Services; out of 414 Embedded Users (Faculty & Scientists).

#### 3. Embedded Library Services Provided by Central Libraries of IITs in India

Figure: 2 and Table No. 2 reveal that, Embedded Library Services are provided by Central Libraries of IITs in India. Where in the old IITs, at251 (93.31%) Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Citation verification, Quick Fact checking for Researcher' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 217 (80.67%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'In-depth, topical research' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;205 (76.21%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Competitive Intelligence for Research work 'Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;202 (75.09%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'E-Mail Based specialized reference service' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;189 (70.82%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'research-focused discussion forum' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;186(69.14%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'research-focused discussion forum' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;186(69.14%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'research-focused discussion forum' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;186(69.14%)Embedded Users (Faculty & Scientists) of central libraries

of old IITs responded 'Evaluating, synthesizing, summarizing the literature' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 183(68.03%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Current awareness, news alerting' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;180 (66.91%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Support to Access to Network Consortia's, Institutional Repository's Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;171(63.57%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Support to Online database search' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;165 (61.34%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'content module within Blackboard (Research Project/work)' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 157 (58.36%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded with 'Data analysis (such as trends, industry, research)' and 'Provide "How To" Pathfinders or Manuals' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;155 (57.62%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Graded Discussion Board' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;142(52.79%)Embedded Users (Faculty & Scientists) of central libraries old IITs responded

Embedded Library Services	Old IITs							
	IITKG P 48	IITB 40	IIT K 49	IITM 14	IITD 46	IITG 37	IITR 35	Total
Development & Evaluating Information Resources	30	21	16	11	24	17	14	133 (49.44)
Citation verification, Quick Fact checking for Researcher	46	36	46	14	42	33	34	251 (93.31)
In-depth, topical research	44	35	43	14	34	22	25	217 (80.67)
Interlibrary Loan and/or document delivery		26	8	8	7	15	16	123 (45.72)
Evaluating, synthesizing, summarizing the literature	40	32	35	9	35	18	17	186(69.14)
Current awareness, news alerting	40	23	34	5	26	29	26	183(68.03)
Competitive Intelligence for Research work	42	33	39	10	33	27	21	205 (76.21)
Data analysis (such as trends, industry, research)	37	29	26	4	28	12	21	157 (58.36)
Provide "How To" Pathfinders or Manuals	31	23	30	8	21	22	22	157 (58.36)
Content management for wiki, intranet and web sites	23	15	13	0	9	4	11	75 (27.88)
As an 'Embedded librarian' playing role of a classroom instructor	18	19	33	0	23	17	9	119 (44.24)
Training on the use of information services	24	16	14	7	7	9	14	91 (33.83)
Dissemination of specialized information on What's app Group	18	14	24	4	21	14	6	101(37.55)

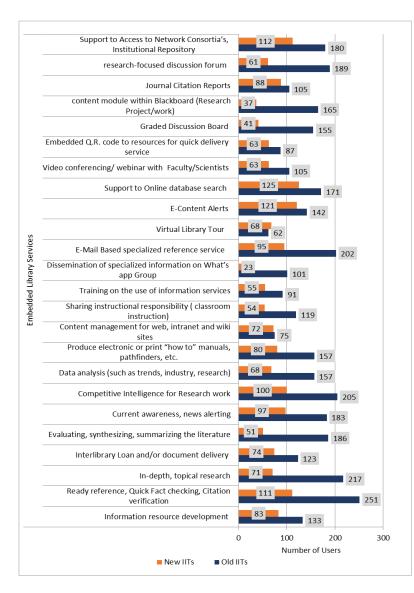
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	ased specializ	ed specialized reference service			34	33	39	12	38	23	23	202 (75.09)
Virtual Li	ibrary Tour				14	11	11	0	12	5	9	62 (23.05)
E-Conten	t Alerts				24	21	19	13	18	24	23	142 (52.79)
Support to	Support to Online database search					27	27	9	34	27	23	171
X7' 1	Video conferencing/ webiner with					23	8	4	15	16	8	(63.57) 105 (39.03)
	Video conferencing/ webinar with Faculty/Scientists					23	0		15	10	0	105 (59.05)
	Embedded Q.R. code to resources for quick delivery service					15	20	5	13	6	10	87 (32.34)
Graded D	biscussion Boa	ard			27	21	33	11	32	25	8	155 (57.62)
content m Project/w	odule within ork)	Blackboard	l (Resea	rch	31	23	33	8	35	22	9	165 (61.34)
Journal C	itation Repor	ts			24	15	13	11	12	13	15	105 (39.03)
research-f	focused discu	ssion forum	1		37	19	36	1	33	33 28 25		
												(70.82)
	o Access to N nal Repository		nsortia's	,	34	27	28	12	30	24	22	180
Institution	iai Repositor	y										(66.91)
												(00.91)
					New IITs							
IITBBS 10	IITGN 34	IITRPR 12	11TI 10	IITBHU 36	New IITs IITPKD 12	11T 8		ITISM 15	IITGOA 8		Total	Grand Total
	<b>HTGN 34</b> 28				IITPKD						<b>Total</b> (57.24)	
10		12	10	36	IITPKD 12	8		15	8	83		Grand Total
<b>10</b>	28	<b>12</b>	<b>10</b> 3	<b>36</b> 30	<b>IITPKD</b> 12	<b>8</b> 0		<b>15</b> 15	<b>8</b>	83	(57.24)	Grand Total 216 (52.17)
<b>10</b> 4 10	28	12 2 6	<b>10</b> 3 5	<b>36</b> 30 33	IITPKD           12           1           6	8 0 2		<b>15</b> 15 15	8 0 2	83	(57.24)	Grand Total 216 (52.17) 362 (87.44)
10 4 10 5 2 1	28 32 25	12 2 6 4	10 3 5 3	<b>36</b> 30 33 19	IITPKD         12           1         6           2         2	8 0 2 0		<b>15</b> 15 13	8 0 2 0	83 111 71 74 51	(57.24) 1 (76.55) (48.97) (51.03) (35.17)	Grand Total 216 (52.17) 362 (87.44) 288 (69.57)
10 4 10 5 2	28 32 25 23	12 2 6 4 2	10           3           5           3           8	<b>36</b> 30 33 19 19	IITPKD         12           1         6           2         1	8 0 2 0 0 5		15       15       15       13       14	8 0 2 0 0	83 111 71 74 51	(57.24) 1 (76.55) (48.97) - (51.03)	Grand Total 216 (52.17) 362 (87.44) 288 (69.57) 197 (47.58)
10 4 10 5 2 1	28 32 25 23 22 30 32	12 2 6 4 2 6	10           3           5           3           8           1           2           8	36           30           33           19           19           1	IITPKD         12           1         6           2         1           2         2	8 0 2 0 0 5 5 4 0 0 0 0		15       15       15       13       14       13	8 0 2 0 0 0 0 7 5	83 11: 71 74 51 97 100	(57.24) 1 (76.55) (48.97) (51.03) (35.17) (66.90) 0 (68.97)	Grand Total           216 (52.17)           362 (87.44)           288 (69.57)           197 (47.58)           237 (57.25)           280 (67.63)           305 (73.67)
10 4 10 5 2 1 5 5 0	28 32 25 23 22 30	12 2 6 4 2 6 6 6	10           3           5           3           8           1           2	36           30           33           19           19           1           24           21           17	IITPKD         12           1         6           2         1           1         2           9         9	8 0 2 0 0 5 5 4 0		15       15       15       13       14       13       14       13       14	8 0 2 0 0 0 7	83 11: 71 74 51 97 100	(57.24) 1 (76.55) (48.97) (51.03) (35.17) (66.90)	Grand Total           216 (52.17)           362 (87.44)           288 (69.57)           197 (47.58)           237 (57.25)           280 (67.63)
10       4       10       5       2       1       5       5       0       3	28 32 25 23 22 30 32	12 2 6 4 2 6 6 5	10           3           5           3           8           1           2           8	36           30           33           19           19           1           24           21           17           20	IITPKD         12           1         6           2         1           1         2           9         9           0         1	8 0 2 0 0 5 5 4 0 0 0 0 5 0		15       15       15       13       14       13       14       14       14       14       14       14       14       14       14	8       0       2       0       0       0       0       7       5       5       0       0	83 111 71 74 51 97 100 68 80	(57.24) 1 (76.55) (48.97) (51.03) (35.17) (66.90) 0 (68.97) (46.90) 1 (55.17)	Grand Total           216 (52.17)           362 (87.44)           288 (69.57)           197 (47.58)           237 (57.25)           280 (67.63)           305 (73.67)           225 (54.35)           237 (57.25)
10 4 10 5 2 1 5 5 0	28           32           25           23           22           30           32           27	12           2           6           4           2           6           6           5           2	10       3       5       3       8       1       2       8       3	36           30           33           19           19           1           24           21           17	IITPKD         12           1         6           2         1           1         2           9         9           0         0	8 0 2 0 0 5 5 4 0 0 0 0 5		15       15       15       13       14       13       14       14       14       14       14       14	8           0           2           0           0           0           7           5           5	83 111 71 74 51 97 100 68 80	(57.24) 1 (76.55) (48.97) (51.03) (35.17) (66.90) 0 (68.97) (46.90)	Grand Total           216 (52.17)           362 (87.44)           288 (69.57)           197 (47.58)           237 (57.25)           280 (67.63)           305 (73.67)           225 (54.35)
10       4       10       5       2       1       5       5       0       3	28       32       25       23       22       30       32       27       30	12       2       6       4       2       6       6       5       2       4	10       3       5       3       8       1       2       8       3       8       3	36           30           33           19           19           1           24           21           17           20           20           15	IITPKD         12           1         6           2         1           1         2           9         9           0         1	8 0 2 0 0 5 5 4 0 0 0 0 5 0		15       15       15       13       14       13       14       14       14       14       14       14       14       14       14	8       0       2       0       0       0       0       7       5       5       0       0	83 111 71 74 51 97 100 68 80 80 72	(57.24) 1 (76.55) (48.97) (51.03) (35.17) (66.90) 0 (68.97) (46.90) 1 (55.17)	Grand Total           216 (52.17)           362 (87.44)           288 (69.57)           197 (47.58)           237 (57.25)           280 (67.63)           305 (73.67)           225 (54.35)           237 (57.25)
10       4       10       5       2       1       5       0       3       2	28       32       25       23       22       30       32       27       30       25	12       2       6       4       2       6       6       5       2       4       1	10           3           5           3           8           1           2           8           3           8           7	36         30         33         19         19         19         1         24         21         17         20         20	IITPKD         12           1         6           2         1           1         2           9         9           0         1           0         0	8           0           2           0           5           4           0           0           5           4           0           0           0           3		15       15       15       13       14       13       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14       14	8       0       2       0       0       0       0       7       5       0       0       0       0	83 11: 71 74 51 97 100 68 80 80 72 54	(57.24) 1 (76.55) (48.97) (51.03) (35.17) (66.90) 0 (68.97) (46.90) 1 (55.17) (49.66)	Grand Total           216 (52.17)           362 (87.44)           288 (69.57)           197 (47.58)           237 (57.25)           280 (67.63)           305 (73.67)           225 (54.35)           237 (57.25)           147 (35.51)

8	26	8	3	26	2	7	15	0	95 (65.52)	297 (71.74)
2	26	9	1	19	9	0	0	2	68 (46.90)	130 (31.40)
10	31	9	4	32	12	0	15	8	121 (83.45)	263 (63.53)
9	32	6	10	30	12	7	15	7	125 (86.21)	296 (71.50)
2	23	3	2	17	7	0	9	0	63 (43.45)	168 (40.58)
8	26	3	7	1	5	3	10	0	63 (43.45)	150 (36.23)
9	0	1	1	14	0	3	13	0	41 (28.28)	196 (47.34)
1	0	0	1	15	4	3	13	0	37 (25.52)	202 (48.79)
9	27	4	8	26	1	4	9	0	88 (60.69)	193 (46.62)
1	26	4	2	14	0	2	12	0	61 (42.07)	250 (60.39)
8	32	9	9	32	4	6	12	0	112 (77.24)	292 (70.53)

(Figures within parenthesis are percentage)

Figure: 2. Multiple bar diagram showing Embedded Library Services Provided by Central Libraries of IITs in India



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'E-Content Alerts' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;133 (49.44%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Development & Evaluating Information Resources ' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;123 (45.72%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Inter-library Loan and/or document delivery' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 119 (44.24%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Sharing instructional responsibility (classroom instruction)' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;105 (39.03%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Video conferencing/ webinar with Faculty/Scientists' and 'Journal Citation Reports'Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;101(37.55%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Dissemination of specialized information on What's app Group' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;91 (33.83%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Training on the use of information services' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;87 (32.34%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Embedded Q.R. code to resources for quick delivery service' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;75 (27.88%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Content management for wiki, intranet and web sites' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; and 62 (23.05%)Embedded Users (Faculty & Scientists) of central libraries of old IITs responded 'Virtual Library Tour' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs.

In new IITs, 125(86.21%)Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Support to Online database search' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 121(83.45%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'E-Content Alerts' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;112 (77.24%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Support to Access to Network Consortia's, Institutional Repository' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;111 (76.55%)Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Citation verification, Quick Fact checking for Researcher' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;100 (68.97%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Competitive Intelligence for Research work' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;97 (66.90%)Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Current awareness, news alerting' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;95 (65.52%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'E-Mail Based specialized reference service' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 88 (60.69%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Journal Citation Reports' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 83 (57.24%)Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Development & Evaluating Information Resources' Embedded Library Services provided to faculty, Scientists

and Research Scholars at CLIITs;80 (55.17%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Provide "How To" Pathfinders or Manuals' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 74 (51.03%)Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Interlibrary Loan and/or document delivery' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 72 (49.66%)Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Content management for wiki, intranet and web sites' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;71 (48.97%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'In-depth, topical research' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 68 (46.90%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Data analysis (such as trends, industry, research)' and 'Virtual Library Tour' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;63 (43.45%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Data analysis (such as trends, industry, research)' and 'Embedded Q.R. code to resources for quick delivery service' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;61 (42.07%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'research-focused discussion forum' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 55 (37.93%)Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Training on the use of information services' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;54 (37.24%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Sharing instructional responsibility (classroom instruction)' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; 51 (35.17%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Evaluating, synthesizing, summarizing the literature' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;41 (28.28%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Graded Discussion Board' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs;37 (25.52%) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'content module within Blackboard (Research Project/work)' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs; and 23 (15.86%)Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Dissemination of specialized information on what's app Group' Embedded Library Services provided to faculty, Scientists and Research Scholars at CLIITs.

It is observed that:

- a) 87.44% (362) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Citation verification, Quick Fact checking for Researcher' Embedded Library Services provided at CLIITs; out of a total 414 Embedded Users (Faculty & Scientists).
- b) 73.67% (305) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Competitive Intelligence for Research work' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- c) 71.74% (297) Embedded Users (Faculty & Scientists) of central libraries of IITs responded by e-mail specialized reference service' Embedded Library Services provided at CLIITs; out of a total 414 Embedded Users (Faculty & Scientists).

- d) 71.50% (296) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Support to Online database search' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- e) 70.53% (292) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Support to Access to Network Consortia's, Institutional Repository' Embedded Library Services provided at CLIITs; out of a total 414 Embedded Users (Faculty & Scientists).
- f) 69.57% (288) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'In-depth, topical research' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- g) 67.63% (280) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Current awareness, news alerting' Embedded Library Services provided at CLIITs; out of a total 414 Embedded Users (Faculty & Scientists).
- h) 63.53% (263) Embedded Users (Faculty & Scientists) of central libraries of IITs responded to 'E-Content Alerts' Embedded Library Services provided at CLIITs; out of a total 414 Embedded Users (Faculty & Scientists).
- i) 60.39% (250) Embedded Users (Faculty & Scientists) of central libraries of IITs responded with 'researchfocused discussion forum' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- j) 57.25% (237) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Evaluating, synthesizing, summarizing the literature 'and 'Providing "How To" Pathfinders or Manuals' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- k) 54.35% (225) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Data analysis (such as trends, industry, research)' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- 52.17% (216) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Development & Evaluating Information Resources 'Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- m) 48.79% (202) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'content module within Blackboard (Research Project/work)' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- n) 47.58% (197) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Interlibrary Loan and/or document delivery' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- o) 47.34% (196) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Graded Discussion Board' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- p) 46.62% (193) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Journal Citation Reports' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).

- q) 41.79% (173) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Sharing instructional responsibility (classroom instruction)' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- r) 40.58% (168) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Video conferencing/ webinar with Faculty/Scientists' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- s) 36.23% (150) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Embedded Q.R. code to resources for quick delivery service' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- t) 35.51% (147) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Content management for wiki, intranet and websites' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- u) 35.27% (146) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Training on the use of information services' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).
- v) 31.40% (130) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Virtual Library Tour' Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists). and
- w) 29.95% (124) Embedded Users (Faculty & Scientists) of central libraries of IITs responded 'Dissemination of specialized information on what's app Group's Embedded Library Services provided at CLIITs; out of total 414 Embedded Users (Faculty & Scientists).

#### 4. Embedded Library Services Using in Years

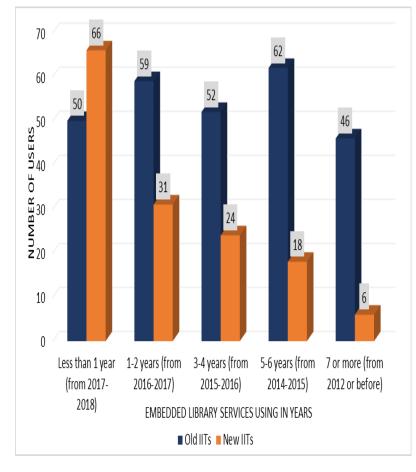
Figure: 3. and Table No. 3 exhibit that, Embedded Library Services Using in Years by Embedded Users (Faculty & Scientists) of Central Libraries of IITs in India. Where in the old IITs, at 62 (23.05%) Embedded Users (Faculty & Scientists) of central libraries of old IITs UsingEmbedded Library Services from '5-6 years (from 2014-2015)'; 59 (21.93%)Embedded Users (Faculty & Scientists) of central libraries of old IITs UsingEmbedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Library Services from '1-2 years (from 2016-2017)'; 52 (19.33%)Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Library Services from '1-2 years (from 2017-2018)'; and 46 (17.10%)Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Library Services from 'Less than 1 year (from 2017-2018)'; and 46 (17.10%)Embedded Users (Faculty & Scientists) of central libraries of old IITs Using Embedded Library Services from '7 or more (from 2012 or before)

"Indian	Embedded Library Services Using in Years						
Institutes of	1	2	3	4	5		
Technology"	Less than 1	1-2 years	3-4 years (from	5-6 years	7 or more		
	year (from	(from 2016-	2015-2016)	(from 2014-	(from 2012 or		
	2017-2018)	2017)		2015)	before)		
E IITKGP 48	5	2	11	20	10		

	IITB 40	6	6	6	11	11
	IITK 49	8	18	10	7	6
	IITM 14	1	4	2	3	4
	IITD 46	7	9	10	11	9
	IITG 37	10	11	7	5	4
	IITR 35	13	9	6	5	2
	Total=	50 (18.59%)	59 (21.93%)	52 (19.33%)	62 (23.05%)	46 (17.10%)
	IITBBS 10	3	4	3	0	0
	IITGN 34	8	11	7	8	0
(	IITRPR 12	6	4	1	1	0
(N=9)	IITI 10	3	2	3	2	0
ITs (	IITBHU 36	16	6	5	3	6
New IITs	IITPKD 12	12	0	0	0	0
Ž	IITTP 8	8	0	0	0	0
	IITISM 15	2	4	5	4	0
	IITGOA 8	8	0	0	0	0
	Total=	66 (45.52%)	31 (21.38%)	24 (16.55%)	18 (12.41%)	6 (4.14%)
G	rand Total=	116(28.02%)	90(21.74%)	76 (18.36%)	80 (19.32%)	52 (12.56%)

(Source: Compile by Researcher)

Figure: 3. Multiple bar diagram showing the Embedded Library Services Using in Years



In new IITs, 66 (45.52%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from 'Less than 1 year (from 2017-2018)';31 (21.38%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from '1-2 years (from 2016-2017)';24 (16.55%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from '3-4 years (from 2015-2016)';18 (12.41%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from '5-6 years (from 2014-2015)';and 6 (4.14%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from '7 or more (from 2012 or before)'. It is concluded that:

- a) 28.02% (116) Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from 'Less than 1 year (from 2017-2018)';out of total 414 Embedded Users (Faculty & Scientists).
- b) 21.74% (90) Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from '1-2 years (from 2016-2017)'; out of total 414 Embedded Users (Faculty & Scientists).
- c) 19.32% (80) Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from '5-6 years (from 2014-2015)'; out of total 414 Embedded Users (Faculty & Scientists).
- d) 18.36% (76) Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from '3-4 years (from 2015-2016)'; out of total 414 Embedded Users (Faculty & Scientists).
- e) 12.56% (56) Embedded Users (Faculty & Scientists) of central libraries of IITs Using Embedded Library Services from '7 or more (from 2012 or before)'; out of total 414 Embedded Users (Faculty & Scientists).

## 4. Technological Embedded Library Services

Table No. 4 reveals that "Technological Embedded Library Services" Using by Embedded Users (Faculty & Scientists) of Central Libraries of IITs in India. Where in the old IITs, at the highest 215 (79.93%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Development of Information architecture' "Technological Embedded Library Services";183 (68.03%) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Content management for wiki, intranet and websites 'and 'Information Network/Computer system management' "Technological Embedded Library Services";155 (57.62%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Structured database development and/or management "Technological Embedded Library Services";

Indian	"Technological Embedded Library Services"					
Institutes of	1	2	3	4	5	6
Technology"	Content	Structured	Manipulation	Information	Development of	Repository
	management	database	of data using	Network/Comp	Information	for
	for wiki,	development	analytical	uter system	architecture	Document
	intranet and	and/or	software	management		Managemen
	web sites	management				System

Table: 4."Technological Embedded Library Services"

	IITKGP	30	26	35	29	35	25
	48	50	20	55	2)	35	25
( <b>1</b> =	IITB 40	28	22	4	27	31	23
Old IITs (N=7)	<b>IITK 49</b>	39	32	5	36	43	26
ШI	IITM 14	7	8	7	2	12	11
Old	IITD 46	19	24	20	39	41	25
	IITG 37	31	21	11	27	23	24
	IITR 35	29	22	15	23	30	17
]	Fotal=	183	155	97 (36.06%)	183 (68.03%)	215 (79.93%)	151 (56.13%)
		(68.03%)	(57.62%)				
	IITBBS	10	1	1	8	8	5
	10						
	IITGN	32	0	1	32	7	28
	34						
	IITRPR	3	0	0	9	8	8
	12						
(6=)	IITI 10	9	2	1	10	2	9
New IITs (N=9)	IITBHU	34	20	1	24	22	16
LII v	36						
Nev	IITPKD	1	0	0	2	4	0
	12						
	IITTP 8	1	1	3	7	4	2
	IITISM	13	13	13	13	0	15
	15						
	IITGOA	0	0	0	0	0	8
	8						
]	Fotal=	103	37 (25.52%)	20 (13.79%)	105 (72.41%)	55(37.93%)	91 (62.76%)
		(71.03%)					
Gra	nd Total=	286	192	117 (28.26%)	288 (69.56%)	270 (65.21%)	242 (58.45%)
		(69.08%)	(46.37%)				
(0		nilo hy Rosparch					

(Source: Compile by Researcher)

151 (56.13%) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Repository for Document Management System' "Technological Embedded Library Services";and97 (36.06%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Manipulation of data using analytical software' "Technological Embedded Library Services".

In new IITs, at the highest 105 (72.41%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Information Network/Computer system management' "Technological Embedded Library Services"; 103 (71.03%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Content management for wiki,

intranet and web sites' "Technological Embedded Library Services";91 (62.76%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Repository for Document Management System ' "Technological Embedded Library Services"; 55 (37.93%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Development of Information architecture' "Technological Embedded Library Services"; 37 (25.52%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Technological Embedded Library Services"; 37 (25.52%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Structured database management or development' "Technological Embedded Library Services"; and 20 (13.79%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Manipulation of data using analytical software' "Technological Embedded Library Services".

It is observed that:

- a) 69.56% (288) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Information Network/Computer system management' "Technological Embedded Library Services"; out of total 414 Embedded Users (Faculty & Scientists).
- b) 69.08% (286) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Content management for wiki, intranet and web sites' "Technological Embedded Library Services"; out of total 414 Embedded Users (Faculty & Scientists).
- c) 65.21% (270) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Development of Information architecture' "Technological Embedded Library Services"; out of total 414 Embedded Users (Faculty & Scientists).
- d) 58.45% (242) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Repository for Document Management System' "Technological Embedded Library Services"; out of total 414 Embedded Users (Faculty & Scientists).
- e) 46.37% (192) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Structured database management or development' "Technological Embedded Library Services"; out of total 414 Embedded Users (Faculty & Scientists); and
- f) 28.26% (117) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Manipulation of data using analytical software' "Technological Embedded Library Services"; out of total 414 Embedded Users (Faculty & Scientists).

# 5. Training and Educational Service

Figure: 5and Table No. 5 exhibit that, Training and Educational Services Using by Embedded Users (Faculty & Scientists) of Central Libraries of IITs in India. Where in the old IITs, at the highest 228 (84.76%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'User training on the use of Research Intelligent ' Training and Educational Services;179 (66.54%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using and Educational Services; 161 (59.85%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'As an 'Embedded librarian' playing the role of a classroom instructor ' Training and Educational Services; 131 (48.70%)Embedded Users (Faculty & Scientists) of central libraries of an author via podcasts, wikis, RSS feeds & blogs or website ' Training and Educational Services; and 123 (45.72%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Training and Educational Services.

In new IITs, at highest 120 (82.76%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'User training on the use of Research Intelligent ' Training and Educational Services;103 (71.03%) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Provide "How To" Pathfinders or Manuals' Training and Educational Services; 74 (51.03%) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'As an 'Embedded librarian' playing the role of a classroom instructor' Training and Educational Services; 73 (50.34%)Embedded Users (Faculty & Scientists) of central libraries as author via podcasts, wikis, RSS feeds & blogs or website' Training and Educational Services; and 55 (37.93%)Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Co-authorship for research report writing ' Training and Educational Services.

It is concluded that:

- a) 84.06% (348) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'User training on the use of Research Intelligent 'Training and Educational Services; out of total 414 Embedded Users (Faculty & Scientists).
- b) 68.12% (282) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Provide "How To" Pathfinders or Manuals' Training and Educational Services; out of total 414 Embedded Users (Faculty & Scientists)
- c) 56.76% (235) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'As an 'Embedded librarian' playing role of a classroom instructor 'Training and Educational Services; out of total 414 Embedded Users (Faculty & Scientists).
- d) 49.28% (204) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'E-communications as author via podcasts, wikis, RSS feeds & blogs or website 'Training and Educational Services; out of total 414 Embedded Users (Faculty & Scientists). and
- e) 43.00% (178) Embedded Users (Faculty & Scientists) of central libraries of IITs Using 'Co-authorship for research report writing 'Training and Educational Services; out of total 414 Embedded Users (Faculty & Scientists).

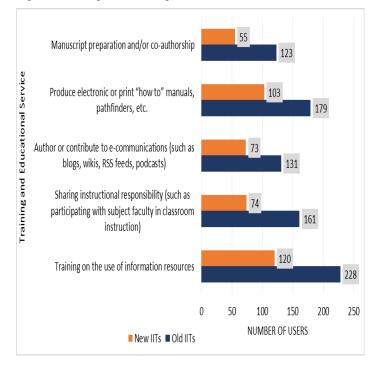
	"Indian	rvice					
Institutes of		1	2	3	4	5	
Te	echnology"	User	As an 'Embedded	E-communications	Provide "How	Со-	
		training on	librarian' playing	as author via	То"	authorship	
		the use of	role of a classroom	podcasts, wikis,	Pathfinders or	for research	
		Research	instructor	RSS feeds & blogs	Manuals	report	
		Intelligent		or website		writing	
	IITKGP	35	34	36	31	26	
(N=7)	48						
s (N	IITB 40	34	20	28	29	29	
I IITs	<b>IITK 49</b>	46	31	21	31	8	
Old	IITM 14	13	11	8	12	4	
	IITD 46	35	23	26	34	26	

Table: 5. Training and Educational Service

	IITG 37	33	20	8	20	24
	IITR 35	32	22	4	22	6
	Total=	228	161 (59.85%)	131 (48.70%)	179 (66.54%)	123 (45.72%)
		(84.76%)				
	IITBBS	10	2	6	6	3
	10					
	IITGN 34	34	27	24	29	27
	IITRPR	12	0	0	1	1
	12					
( <b>6</b> =	IITI 10	9	6	2	2	0
S	IITBHU	29	22	24	32	23
New IITs (N=9)	36					
New	IITPKD	4	0	2	11	0
	12					
	IITTP 8	7	3	3	3	1
	IITISM	15	14	12	14	0
	15					
	IITGOA 8	0	0	0	5	0
	Total=	120	74 (51.03%)	73 (50.34%)	103 (71.03%)	55 (37.93%)
		(82.76%)				
Gr	and Total=	348	235 (56.76%)	204 (49.28%)	282 (68.12%)	178 (43.00%)
		(84.06%)				

(Source: Compile by Researcher)

Figure: 5. Multiple bar diagram showing the Training and Educational Service



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# 6. Overall, Response of Faculty and Scientists to EL Services

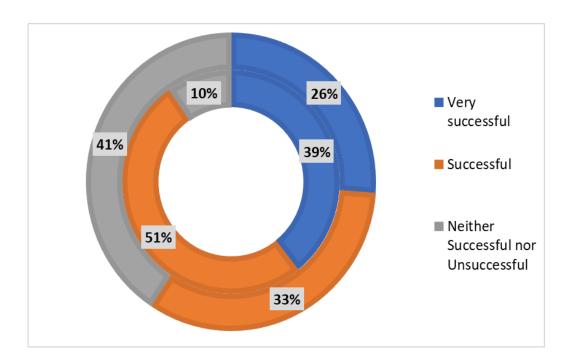
Table: 6 and Table No. 6 shows that, Overall, Response of Faculty and Scientists to Embedded Library Services in IITs in India. Where in the old IITs, at highest 137 (50.93%)of central libraries of IITs, Overall Response of Embedded Users (Faculty & Scientists) are 'Successful'; 106 (39.41%) of central libraries of IITs, Overall Response of Embedded Users (Faculty & Scientists) are 'Very Successful'; and 26 (9.67%) of central libraries of IITs, Overall Response of Embedded Users (Faculty & Scientists) are 'Nery Successful'; and 26 (9.67%) of central libraries of IITs, Overall Response of Embedded Users (Faculty & Scientists) are 'Neither Successful'; and 26 (9.67%) of central libraries of IITs, Overall Response of Embedded Users (Faculty & Scientists) are 'Neither Successful nor Unsuccessful'.

Indi	ian Institutes of	Overall, I	Response of Facul	ty and Scientists to EL Services
	Technology	1	2	3
		Very successful	Successful	Neither Successful nor Unsuccessful
	IITKGP 48	32	14	2
( <b>L</b> =	<b>IITB 40</b>	16	21	3
Old IITs (N=7)	IITK 49	16	31	2
	IITM 14	4	8	0
	IITD 46	20	20	6
	IITG 37	9	24	4
	IITR 35	8	18	9
	Total=	106 (39.41%)	137 (50.93%)	26 (9.67%)
	IITBBS 10	1	7	2
	IITGN 34	14	12	8
<b>6</b>	IITRPR 12	1	6	5
S. S	IITI 10	4	5	1
TII	IITBHU 36	10	13	13
New IITs (N=9)	IITPKD 12	0	0	12
	IITTP 8	0	0	8
	IITISM 15	8	5	2
	IITGOA 8	0	0	8
	Total=	38 (26.21%)	48 (33.10%)	59 (40.69%)
	Grand Total=	144 (34.78%)	185 (44.69%)	85 (20.53%)

Table: 6. Overall, Response of Faculty and Scientists to EL Services

# (Source: Compile by Researcher)

**Table: 6.** Doughnut chart showing Overall, Response of Faculty and Scientists to EL Services (Inner Layer - Old IITs, Outer Layer - New IITs)



In new IITs, at highest 59 (40.69%) of central libraries of IITs, Overall Response of Embedded Users (Faculty & Scientists) are 'Neither Successful nor Unsuccessful'; 48 (33.10%) of central libraries of IITs, Overall Response of Embedded Users (Faculty & Scientists) are 'Successful'; and 38 (26.21%) of central libraries of IITs, Overall Response of Embedded Users (Faculty & Scientists) are 'Very Successful'.

It is concluded that:

- a) 44.69% (185) Overall Response of Embedded Users (Faculty & Scientists) of central libraries of IITs are 'Successful'; out of total 414 Embedded Users (Faculty & Scientists).
- b) 34.78%% (144) Overall Response of Embedded Users (Faculty & Scientists) of central libraries of IITs are 'Very Successful'; out of total 414 Embedded Users (Faculty & Scientists).
- c) 34.78%% (144) Overall Response of Embedded Users (Faculty & Scientists) of central libraries of IITs are 'Neither Successful nor Unsuccessful'; out of total 414 Embedded Users (Faculty & Scientists).

# CONCLUSION

Relationships, as the director of our library will almost daily remind me, are everything we have both witnessed and experienced the power of relationships to transform experience, nurture collaboration, and then sustain those collaborative efforts. As librarians, we have traditionally played in our own backyard, not particularly feeling as though we were wanted (or needed) anywhere but the building we were housed in-ready and waiting when and if we were called upon for our expertise.

Traditionally, faculty have not seen librarians as equals, and have, in react, seen them strictly in the sense of being in a position to offer support if they gave any thought to what their actual role happened to be in the first place. Library Professionals staff have often felt themselves to be in a subordinate and submissive position, figuratively, not only speaking when spoken to, but harbouring both secret frustrations and desires for more involving collaboration and teaching.

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