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Usage Summary of Institute of Physics Publishing e-Journals from Jan 2015 to May 2018: A Study of Dr. Bhim Rao Ambedkar Library, Guru Jambheshwar University of Science & Technology Hisar-125 001, Haryana - India

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Abstract

Purpose- Since inception e-journals have proved mile stone in the history of the research and academics. Undoubtedly, after emerging e-resources the research activities got new pace and new dimension particularly in higher educational institutions especially since last two decades. No issue of physical distance with e-journals as these may be accessible from any corner of the world without doing physical efforts even available in abundance on single platform and access with single click. Moreover, anyone can download the same, store and keep safe for existing and budding scholars without occupying the physical space. In addition, in fraction of seconds, the information may be exchanged and spread all over the world. It won't be an exaggeration to say that the data from e-journals may be searched without beginning and without ending. The paper aims to extract the information from its usages log book (from January 2015 to May 2018) that how much use of this product which shall help to take decision for its further renewal.

Methodology- Secondary data has been used. The summary of usages has been demanded from the product vendor's. After receiving the usages summary, the data has been analyzed and whatever was valued for my proposed study, the same has been incorporated in the paper.

Findings- After analyzing the usages summary data revealed that the users are more concerned with the current issues and retrieve of information from archive is very less. The same finding

shall help to take decision whatever can be subscribed for their scholars; thereby funds burden may be released.

Originality/value- This attempt surely helpful to those institutes whom funds availability is underprivileged. In fact Guru Jambheshwar University Science & Technology can take decision for its further renewal according to its usages as findings shown that the current issues are in more use instead of archive.

Key-Words: IOP, e-Journals, GJUS&T, h-index, Physics, Usage.

Introduction

E-journals are having substantial value and consequently dominating the research activities all over the world in general and concerned institute in particular. Hence, due to availability of qualitative & quantitative e-journals in Guru Jambheshwar University of Science & Technology Hisar, the research is on its apex level and having 74 h-index as per Scopus which is one of the highest among the region and among technical universities all over India. E-journals are offering their services according to the course/s and concerned choices. Institute of Physics Publishing e-Journals are also among them which are offering the e-contents to Physics Discipline. It is exclusive for physics and very prominent e-database in its core area physics.

Up to December 2017, the access of IOP was free through INFLIBNET under eShodhSindhu Project and the same was access through Campus Wide Network of GJUS&T, Hisar. However, from this year, the INFLIBNET has issued a letter vide which it was cleared that for 2018 subscriptions under eSS, the concerned institutions would have an option to select resources from a comprehensive list of resources that are being subscribed by the consortium. Further, institutions would themselves be responsible for paying the required e-resources from their own funds. Finally INFLIBNET provided us the access nine e-resources excluding IOP, however it is continued up to May 2018 as its negotiated prices are uploaded late on the INFLIBNET Portal. Further, for the continue subscription for the year 2018, the Library has started the process. Meanwhile the firm has sent the usage of IOP from January 2018 to May 2018 so that its subscription renewal decision may be taken accordingly.

About Institute of Physics Publishing: IOP Publishing– Delivering Impact, Recognition, and Value to the Scientific Community.

“Working closely with the global scientific community has been at the heart of our publishing activity for more than a century. With a portfolio including journals, books, conference proceedings and science news resources, we focus on physics, materials science, biosciences, astronomy and astrophysics, environmental sciences, mathematics and education. IOP Publishing also publishes on behalf of other scientific organizations and represents their needs and those of their members. With almost 400 staff in locations across the world, we support researchers, librarians, and societies in their endeavors”.

IOP Publications

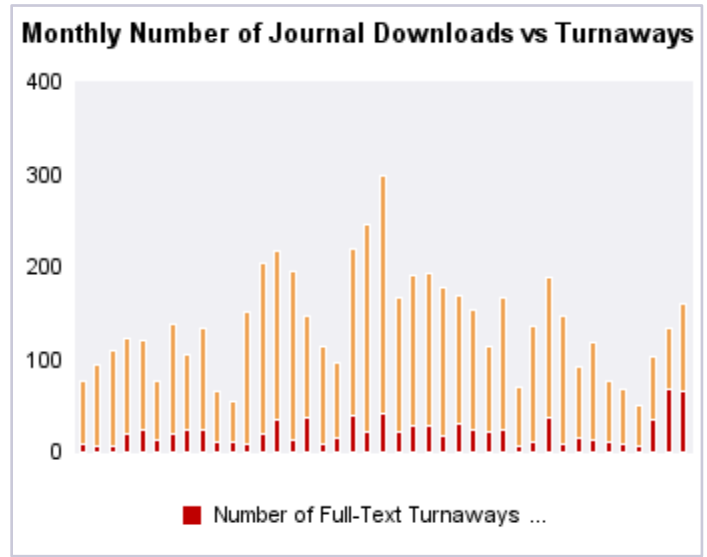
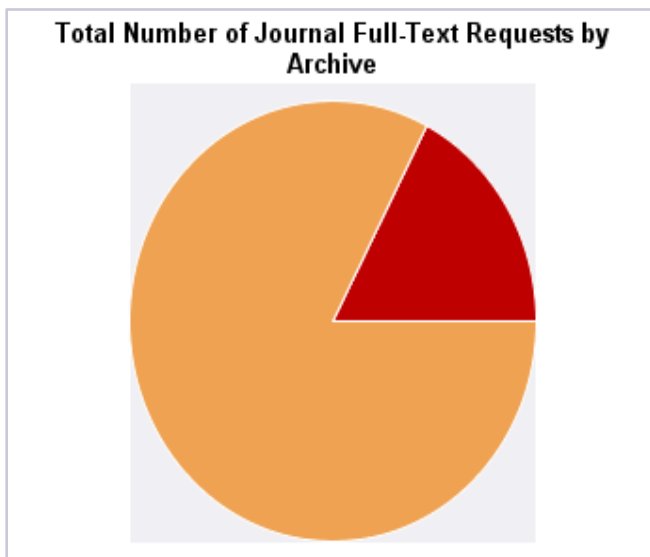
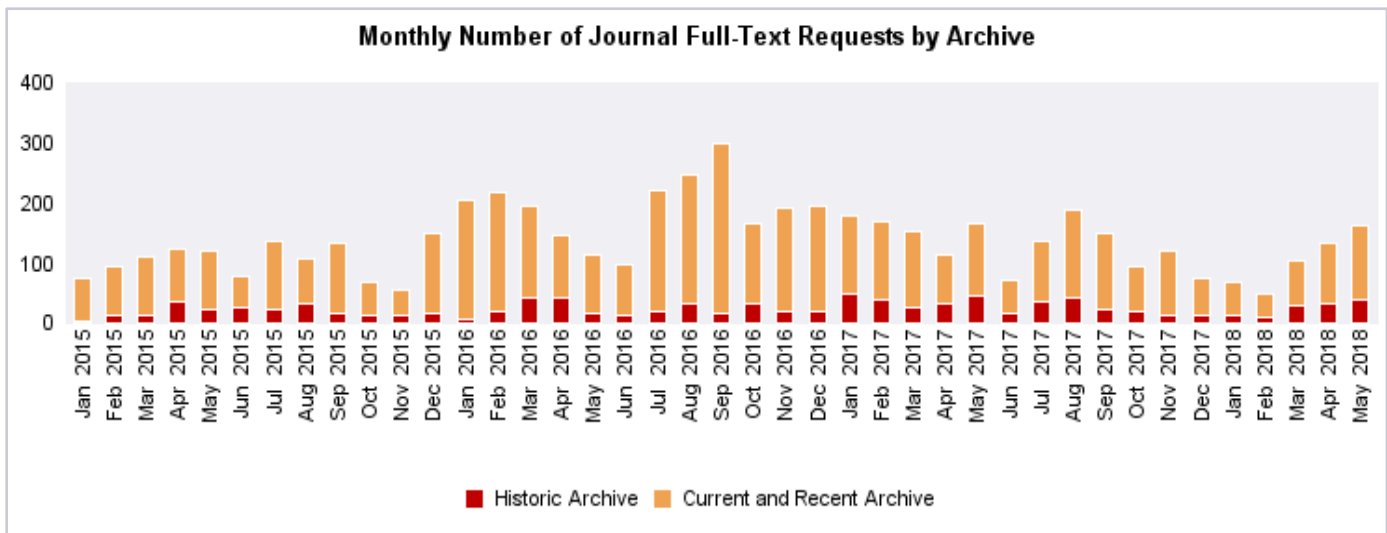
IOP publishes more than 70 academic journals, books, and conference proceedings. All academic publications are hosted on IOPscience, a platform specifically designed to help readers access scientific, technical and medical content quickly and easily. They also provide expert science journalism through Physics World, a trusted source of science news.

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All data refers to members of Guru Jambheshwar University, as at the point of access

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1. Journals Usage Summary



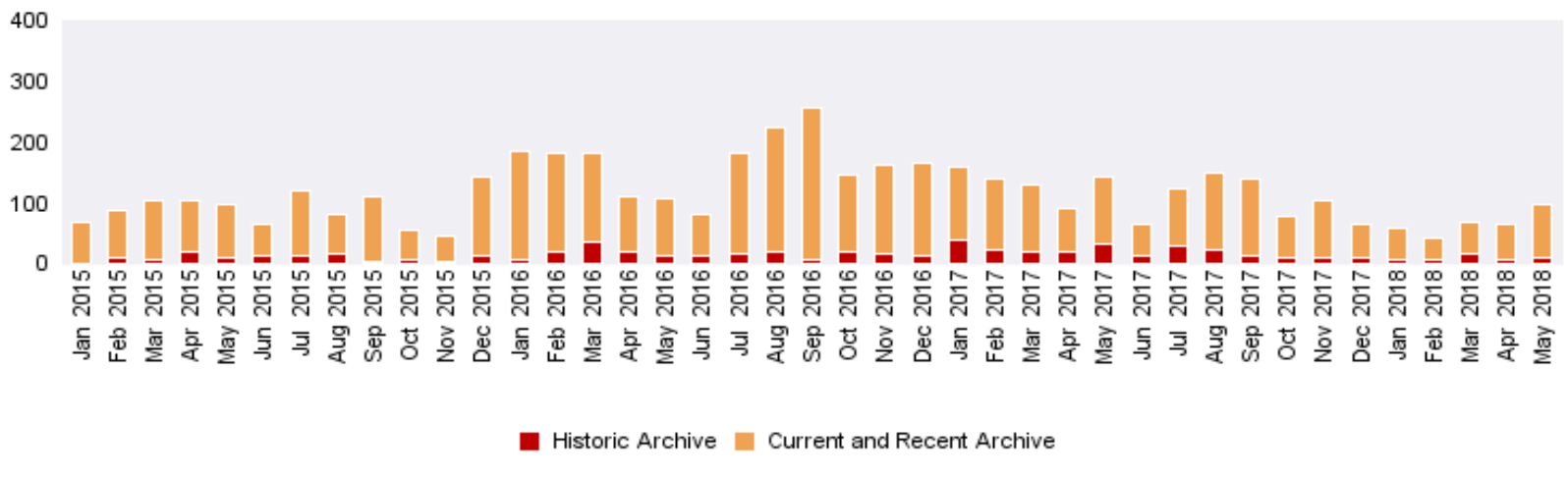
Month	Year	Full-Text Downloads	Full-Text Turnaways	Full-Text Requests	Full-Text Downloads	Full-Text Turnaways	Full-Text Requests	Full-Text Downloads	Full-Text Turnaways	Full-Text Requests
Jan	2015	68	4	72	0	4	4	68	8	76
Feb	2015	79	1	80	9	5	14	88	6	94
Mar	2015	96	1	97	8	5	13	104	6	110
Apr	2015	87	2	89	18	17	35	105	19	124
May	2015	86	13	99	11	11	22	97	24	121
Jun	2015	50	1	51	14	12	26	64	13	77
Jul	2015	107	7	114	12	12	24	119	19	138
Aug	2015	64	8	72	17	17	34	81	25	106
Sep	2015	106	13	119	3	12	15	109	25	134
Oct	2015	51	4	55	5	7	12	56	11	67
Nov	2015	40	2	42	4	9	13	44	11	55
Dec	2015	129	6	135	14	2	16	143	8	151
Jan	2016	180	17	197	5	3	8	185	20	205
Feb	2016	164	34	198	19	1	20	183	35	218
Mar	2016	148	5	153	35	8	43	183	13	196
Apr	2016	89	17	106	21	20	41	110	37	147
May	2016	94	3	97	12	5	17	106	8	114
Jun	2016	70	14	84	12	1	13	82	15	97
Jul	2016	164	35	199	17	4	21	181	39	220
Aug	2016	204	8	212	21	13	34	225	21	246
Sep	2016	249	35	284	8	7	15	257	42	299
Oct	2016	125	9	134	20	12	32	145	21	166
Nov	2016	148	23	171	15	6	21	163	29	192
Dec	2016	152	24	176	13	5	18	165	29	194
Jan	2017	121	8	129	39	10	49	160	18	178
Feb	2017	115	16	131	24	15	39	139	31	170
Mar	2017	111	16	127	18	8	26	129	24	153
Apr	2017	72	11	83	20	11	31	92	22	114
May	2017	112	11	123	31	13	44	143	24	167
Jun	2017	53	1	54	12	5	17	65	6	71
Jul	2017	95	5	100	30	7	37	125	12	137
Aug	2017	129	18	147	22	20	42	151	38	189
Sep	2017	125	1	126	14	8	22	139	9	148
Oct	2017	67	8	75	10	8	18	77	16	93
Nov	2017	96	10	106	9	4	13	105	14	119
Dec	2017	56	6	62	9	5	14	65	11	76
Jan	2018	53	2	55	7	6	13	60	8	68
Feb	2018	35	4	39	8	3	11	43	7	50
Mar	2018	54	22	76	15	13	28	69	35	104
Apr	2018	58	45	103	7	24	31	65	69	134
May	2018	87	34	121	9	31	40	96	65	161
Total		4,189	504	4,693	597	389	986	4,786	893	5,679

The table depicted that in January 2015, 68 full text articles requested from current archive and historic archive and in September 2016, 257 requests which were highest amongst the period from January 2015 to

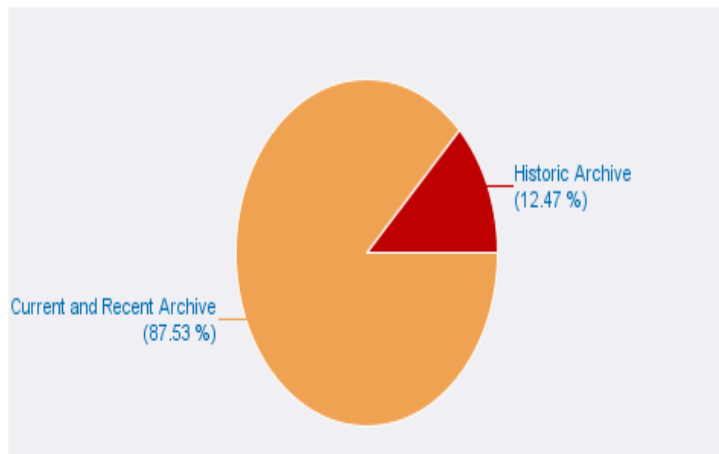
May 2018. Moreover, it has also been noticed that from November 2017 to May 2018, the full text requests are consistently decreased. This is the alarming situation for the university. The Library and concerned Department should have to take the remedial steps to increase the usage of the IOP. Downloads from current archive are higher as comparison to historic archive.

Journal Full-Text Download

Monthly Number of Journal Full-Text Downloads by Archive



Total Number of Journal Full-Text Downloads by Archive



2a. Total Journal Full-Text Downloads

Month	Year	Current and Recent Archive	Historic Archive	Total
Jan	2015	68		68
Feb	2015	79	9	88
Mar	2015	96	8	104
Apr	2015	87	18	105
May	2015	86	11	97
Jun	2015	50	14	64
Jul	2015	107	12	119
Aug	2015	64	17	81
Sep	2015	106	3	109
Oct	2015	51	5	56
Nov	2015	40	4	44
Dec	2015	129	14	143
Jan	2016	180	5	185
Feb	2016	164	19	183
Mar	2016	148	35	183
Apr	2016	89	21	110
May	2016	94	12	106
Jun	2016	70	12	82
Jul	2016	164	17	181
Aug	2016	204	21	225
Sep	2016	249	8	257
Oct	2016	125	20	145
Nov	2016	148	15	163
Dec	2016	152	13	165
Jan	2017	121	39	160
Feb	2017	115	24	139
Mar	2017	111	18	129
Apr	2017	72	20	92
May	2017	112	31	143
Jun	2017	53	12	65
Jul	2017	95	30	125
Aug	2017	129	22	151
Sep	2017	125	14	139
Oct	2017	67	10	77
Nov	2017	96	9	105
Dec	2017	56	9	65

Jan	2018	53	7	60
Feb	2018	35	8	43
Mar	2018	54	15	69
Apr	2018	58	7	65
May	2018	87	9	96
Total		4,189	597	4,786

2b. Journal Full-Text Downloads

Journal	Current and Recent Archive	Historic Archive	Total
Journal of Physics D: Applied Physics	769	61	830
Nanotechnology	719	111	830
Journal of Physics: Condensed Matter	690	69	759
Journal of Physics: Conference Series	339		339
IOP Conference Series: Materials Science and Engineering	190		190
Smart Materials and Structures	179	5	184
Advances in Natural Sciences: Nan science and Nanotechnology	172		172
Measurement Science and Technology	129	19	148
Reports on Progress in Physics	101	43	144
Science and Technology of Advanced Materials	110	8	118
Japanese Journal of Applied Physics	89	7	96
Journal of Physics C: Solid State Physics		73	73
New Journal of Physics	66	1	67
Journal of Optics	66		66
Physica Scripta	54	2	56
Semiconductor Science and Technology	40	15	55
Chinese Physics B	45		45
Materials Research Express	43	2	45
Journal of Physics E: Scientific Instruments		43	43
Journal of Micromechanics and Micro engineering	31	4	35
Biomedical Materials	33		33
Chinese Physics Letters	25	7	32
Environmental Research Letters	31		31
Journal of Optics A: Pure and Applied Optics	14	12	26
IOP Conference Series: Earth and Environmental Science	25		25
Physics Education	19	3	22
EPL (Euro physics Letters)	20		20
Physics in Medicine & Biology	9	9	18
Journal of Physics B: Atomic, Molecular and Optical Physics	6	10	16
Journal of Neural Engineering	15		15
Journal of Physics G: Nuclear and Particle Physics	12	2	14
Physiological Measurement	10	3	13

The Astrophysical Journal	8	5	13
Metrologia	12		12
Physics-Uspekhi	5	7	12
Biofabrication	11		11
European Journal of Physics	7	2	9
Modeling and Simulation in Materials Science and Engineering	6	3	9
Journal of Breath Research	8		8
Proceedings of the Physical Society		8	8
Proceedings of the Physical Society. Section B		8	8
British Journal of Applied Physics		7	7
Journal of Semiconductors	7		7
Applied Physics Express	6		6
Classical and Quantum Gravity	6		6
Journal of Physics F: Metal Physics		6	6
Physics in Technology		6	6
Quantum Electronics	6		6
Inverse Problems	4	1	5
Journal of Instrumentation	5		5
Journal of Statistical Mechanics: Theory and Experiment	5		5
Proceedings of the Physical Society of London		5	5
Superconductor Science and Technology	1	4	5
2D Materials	4		4
Journal of Scientific Instruments		4	4
Bioinspiration & Biomimetics	3		3
Chinese Physics	1	2	3
Flexible and Printed Electronics	3		3
Journal of Physics A: Mathematical and General		3	3
Journal of Physics B: Atomic and Molecular Physics		3	3
Plasma Physics and Controlled Fusion	2	1	3
The Astrophysical Journal Letters	3		3
Chinese Physics C	2		2
Fluid Dynamics Research	2		2
Journal of Cosmology and Astroparticle Physics	2		2
Laser Physics	2		2
Physical Biology	2		2
Plasma Sources Science and Technology	2		2
Proceedings of the Physical Society. Section A		2	2
Quantum Science and Technology	2		2
Soviet Journal of Quantum Electronics		2	2
The Astronomical Journal	1	1	2
Clinical Physics and Physiological Measurement		1	1
Communications in Theoretical Physics	1		1
Distributed Systems Engineering		1	1
Journal of Nuclear Energy. Part C, Plasma Physics, Accelerators, Thermonuclear Research		1	1

Journal of Physics A: Mathematical and Theoretical	1		1
Journal of Physics G: Nuclear Physics		1	1
Journal of Radiological Protection	1		1
Nonlinearity	1		1
Publications of the Astronomical Society of the Pacific		1	1
Soviet Physics Uspekhi		1	1
Surface Topography: Metrology and Properties	1		1
The Astrophysical Journal Supplement Series		1	1
Transactions of the Optical Society		1	1
Translational Materials Research	1		1
Total	4,189	597	4,786

The above table shows that the number of articles downloaded from title wise. This table helps to authorities to take the decision which journals are relevant for their faculty. They can choose the title according to their need and save the money of the organization. From the above package only two journals i.e. Journal of Physics D: Applied Physics and nanotechnology which are having maximum downloads during the span of two three and half years. Total 4786 articles downloaded from all journals. However, one fact has come out from the diagram that 83.57% articles downloaded from Current and Recent Archive and 12.47% from Historic Archive.

IOP Empowers the Research Activities in its Core Area

Every Higher Educational Institutes are supposed to perform the qualitative research activities for upliftment of the society in general and for concerned institutions in particular. Qualitative research activities demand the latest information; thereby gap may be identified and further research may be conducted to bridge this gap. Therefore, duplicate efforts may be avoided and the same time and efforts may be devoted to do something new. It has shown from the statistics table namely ‘Journal full text download’ wherein total 4786 articles have been downloaded by the users and 83.57% downloaded from current archive instead of historic archive. It shows that the current information is prominent for better and effective research. Moreover, the faculty members of the Department of Physics, Guru Jambheshwar University of Science & Technology Hisar have contributed more than 500 papers which are indexed in Scopus Database- a world largest indexing database. It won’t be an exaggeration to say that qualitative research is directly proportional to qualitative electronic database.

Conclusion

The categorically usage summary of IOP e-journals depicts that the users are interested in the Current and latest publications as only 12.47% articles have been downloaded by the students from historic archive, scholars and faculty members in the span of three and half years. From the usage statistics, it is also cleared that which title/s is more in use. E-journals have the capacity to change the orientation of research and academics of any institution. Therefore, these must be available in every organization especially who are offering the technical education. E-journals are in predominating position in any institutions. The prime benefit from e-journals is that these are accessible without doing copious physical efforts and consuming time. They offer their services beyond the expectations of the end users. Otherwise, in absence of e-journals, the accessing of information may take one month or more if it is published outside the country and huge financial implications may be involved in this process. E-journals have the capacity to strengthen any institution up to that level where they can sustain at International Level and fulfill the demands of the modern users. Hence, e-resources are the assets for any organization and higher academic institutions.

Suggestions

After undergoing the categorical statistical usages of data of IOP, the following suggestions are being recommended by the author that may be used to make it more effective:

- Many journals are under usage, hence the concerned institution has to start a drive vide which students, scholars and faculty members may be informed about low usage and advise and ignite them for its proper use so that whatever finance is involved that may be recovered by proper using of the product.
- The low usage journals may indicate that they are not required to faculty members of the concerned institutions; hence these can be removed from the database and more financial burden may be released.
- Users must consult the historic archive database also so that intensive research may be conducted and may familiar with the oldest research methodology which might be affected in modern time.
- Regulatory bodies should be funded to institute for the consecutively subscription of Institute of Physics so that better research activities may be conducted.

- The IOP must offer the pick and choose package to institution so that according to their use and availability of funds they may subscribe the journals even under privileged and funded institutions may also participate in the same and upgrade themselves.

References

1. Case # 00359936 FW: Usage Report Guru Jambheshwar University received through mail ID. arti.manoja@iop.org
2. Doraswamy Naick BR and Kumar K, 2014. Exploit of information resource in Jawaharlal Nehru technological university Kakinada affiliated engineering colleges library users: A survey. *International Journal of Digital Library Services*, Vol. 4, No. 1, ISSN-2250-1142.
3. Egberongbe HS, 2011. The use of impact of electronic resources at the University of Lagos. *Library Philosophy and Practice* (e-journal). 472. Fecko MB, 1997. *Electronic resources: Access and issues* (Topics in Library and Information Studies Series), Published by Bower - Saur, London. 148 pp, ISBN 1-85739- 065-2/ISBN 13: 9781857390650.
4. Haider Naqvi T, 2012. Use of electronic databases by postgraduate students and research scholars at GBPUAT Library. India: *Library Philosophy and Practice*. <http://digitalcommons.unl.edu/libphilprac>.
5. Kumar BT and Kumar GT, 2010. Perception and use of e-resources and the Internet by Indian academics. *The Electronic Journals*, Vol. 28, No. 1, pp. 137–156.
6. Leo Appleton, 2006. Perceptions of electronic library resources in further education. *The Electronic Library*, Vol. 24, Issue 5, pp. 619-634.