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User

Information needs and Information Seeking Behaviour of Physics Department at the University of

Burdwan

Amit Kumar Das* & Dr. SukumarMandal**

Abstract

Purpose – The study found on the University of Burdwan physics department faculties and research scholars' information needs and information seeking behaviour.

The purpose is to find out the information needs, source use, satisfaction level, and improvement needs for library infrastructure, sources and services.

Methodology – In this information needs and seeking behaviour study, two sets online questionnaire has been developed to achieve the objective. Only physics faculties and regular registered research scholars (session 2011 – 2020) in the University of Burdwan have been selected as main respondents. Data has been collected using Google form. Online questionnaire have been served through email to all the physics faculty members and one hundred five registered research scholars in the University of Burdwan. The response rates from respondents are 47.62% (faculty) and 64.86% (scholars). The ratio of male – female respondents' of physics faculty members and scholars are 9:1 and 38:10 respectively.

Findings – The study depicted the physics department faculty members and research scholars' information needs and information seeking behaviour the University of Burdwan. Information need and information seeking behaviour of physics department faculty members and regular research scholars was in-depth understanding of the major roles on overall university library development in the angle from the students; purview on Burdwan university library.

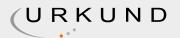
Originality/value – The current findingare original and reflected latest observation on the physics department faculties and research scholars'information-seeking behaviour in the University of Burdwan. The study benefits information Seekers and as well as library policy makers who provide the library collection development and services to the users of the University.

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Introduction



Information plays a pivotal role in day-to-day activities of the human being. Everyone use information for their regular personal, societal, professional and official needs. Optimum use of information determines the level of satisfaction on the fulfillment of information needs. The perspective and effective usage of information depends upon the attitudes is called as information seeking behaviors that the information seeker applies in the process of information seeking. The application of information seeking behaviors in the information seeking process becomes complex in a situation where the flow of information in various forms of information resources.

Information seeking behavior has its prime significance since it is the dynamic action to achieve the goal in academic, research and social information needs. In academic eco system, the arrays of resources of information are delivered through academic libraries, classroom lecture notes, web, various media and peers.

The academic libraries especially in higher educational institutions like traditional academic university plays a pivotal role in servingvarious information resources and services related to academic, research activities and general awareness. University libraryserves arrays of information resources and services with various formats.

In 1960, the University of Burdwan was established as the first higher education centre. The university started journey with twelve post graduate science departments. Pure science departmentstarted namely Physics (1960), Chemistry (1961), Mathematics (1960) and others since its establishment.

The Department of Physics started footprint with four teachers, two non-teaching employees and twenty students in September, 1961 in the initial phase of The University of Burdwan. The department shifted to a newly constructed building at the central position of the Golapbag campus of the University. The department began with the objective to meet the academic needs and to fulfill the demand of a large section of students in rural Bengal for studying higher education in the Post Graduate level.

With increasing demand, the department made an initiation of courses programs, such as Ph. D program, M. Tech in E&CE (Microwaves) and M.Phil.in Physics. The department has got assistance from several major research funding agencies such as UGC, DST, DRDO, ARDB, ISRO, CSIR, BRNS, etc. Now the department has achieved recognition as a Center of Advanced Study (CAS) by UGC since 2011. Moreover, the Department is funded by DST under the FIST program (Phase-II).

Related works

The review of literature in an important and essential part of any research investigation, review of related literature is very essential in conducting a new research. The main function of review of literature is to determine the work which has been done before so that it helps is delineation of plethora of problems of an area. Review of literature is one of the most important tools my research as it provides background knowledge on the work already carried out in the concerned field of investigation.



During the study of this literature review, various sources such as books, print journals, online journals and databases, etc. have been consulted.

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Directory of Open Access Journals (DOAJ), Directory of Open Access Repositories (DOAR), Registry of Open Access Repositories (ROAR),

Google Scholar, Emerald Insight, Taylor & Francis Online, Project Muse, Sage Journals, Library and Information Science Abstract (LISA), Doctoral Dissertations Abstracts and Indian Library Science Abstract (ILSA) have been consulted for obtaining relevant literature.

The major demographic community that have been investigated (along with relevant citations) are as follows: general public, children, and students (Hirsh, 1997; Jacobson, & Ignacio, 1997; Neuman, 1995); research scholars (Tenopir& King, 2008; Brown, 1999; Hemminger et al., 2007; Nicholas, Huntington, & Jamali, 2007); professionals such as lawyers and nurses (Gorman, 1995; Leckie, Pettigrew, & Sylvain, 1996; Nicholas & Martin, 1997; Urquhart & Crane, 1994). Generally, previous research on academics' information searching behavior tended to focus on health science (Vibert et al., 2007), social science and humanities (Cronin, 1982; de Tiratel, 2000; Folster, 1989; Francis, 2005); and natural science and engineering (Brown, 2007; Davis, 2004; Hallmark, 1994; Henderson, 1995; Kraut, Egido, & Galegher, 1988; Stewart, 1996).

Dasgupta, Yadav and Dasgupta (2017) conducted a study on medical information seeking behavior of medical students and their teachers, worthy based in teaching hospitals in Kolkata. The main aims of the investigation are what sources are considered relevant with regard to the retrieval of crucial information by these medical professionals. The survey method was used in this paper in four medical colleges. The data collection tool was a self-designed. The respondents are nasty student (UG) and (PG) and teachers. The article highlights that a majority of the respondents had never received formal instruction on the use of information sources.

Paliwal, Bhardwaj and Sharma (2016) conducted a study on information need and seeking behaviour of faculty members of science and technology. G.B Nagar information is a pows fell thing and plays an important role in our society. Different types of documents are available but which are need and who we find. Day by day at large extent users are making use of electronic sources of information for acquiring latest information. The main than of the paper is different types of information user want and how they collected

Khan and Alam (2016) studied on users' information seeking behaviour in the energy resource institute (TERI), New Delhi andobservedvarious facets of library activities.

Yadav and Singh (2016) investigated on PG student and doctoral students' information need and information seeking behaviour and explored the seeking pattern of social science, information used.



Chinnasamy (2017) exploredengineering college students' information need and seeking behaviour in Madurai using survey method. The prime findingis (81.23%) are using the eresources.

Objective of the study

The prime research objectives are as follows:

- 1. To find out thephysics departmentfaculties and research scholars' information needs and information seeking behavior in the University of Burdwan
- 2. To find out the physics department faculty members and research scholars' prime information needs.
- 3. To find out the physics department faculties and scholars' information sources use.
- 4. To find out the improvement needed of library infrastructure, sources and services among physics department faculties and scholars.
- 5. To find out the satisfaction level of physics departmentfaculties and research scholars of the University of Burdwan library system.

Methodology

In this information needs and seeking behaviour study, two sets online questionnairehas been developed to achieve the objective. Only physics faculties and regular registered research scholars (session 2011 – 2020) in the University of Burdwan have been selected as main respondents. Data has been collected using Google form. Online questionnaire have been served through email to all the physics faculty members and one hundred five registered research scholars in the University of Burdwan.

Data Analysis Techniques:Data collected from physics department faculties and research scholars in the University of Burdwan

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80%

through online data collection tool using Google Form. Statistical Package for Social Sciences (SPSS V-25)

statistical application software was used

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61%

in this study for quantitative and qualitative data analysis.

Limitations of the Study

This study has a number of limitations. The



respondents were physics department faculty members and researchscholarsin the University of Burdwan. Guest faculties and Post Graduate Students, and faculties of arts, humanities and social science departments are excluded.

Data Analysis and Discussion

Online Google form questionnaire has been distributed through email and whatsapp application to twenty one physics faculties and seventy fourregistered research scholars. The response rates from respondents are 47.62% (faculty) and 64.86% (scholars). The ratio of male – female respondents' of physics faculty members and scholars are 9:1 and 38:10 respectively.

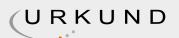
1Q. Motivation of using library Group Total Research scholar Teacher 1Q Self Count 24 6 30 % within 1Q 80.0% 20.0% 100.0% % within Group 50.0% 60.0% 51.7% % of Total 41.4% 10.3% 51.7% Parents Count 2 1 3 % within 1Q 66.7% 33.3% 100.0% % within Group 4.2% 10.0% 5.2% % of Total 3.4% 1.7% 5.2% Teachers Count 17 3 20 % within 1Q 85.0% 15.0% 100.0% % within Group 35.4% 30.0% 34.5% % of Total 29.3% 5.2% 34.5% Friends Count 5 0 5 % within 1Q 100.0% 0.0% 100.0% % within Group 10.4% 0.0% 8.6% % of Total 8.6% 0.0% 8.6% Total Count 48 10 58 % within 1Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of Total 82.8% 17.2% 100.0% Table 1 Motivation of using library

Table 1 show that 80% of physics department research scholar and 20% faculties have been self-motivated. 66.7% scholars and 33.3% faculties have been motivated by their parents.85% scholars and 15% faculties motivate by their teachers. 100% research scholars motivated by their peers among respondents. Among all the scholars' respondents, 50% physics research scholars have been motivated by self, 35% by their teachers, 10.4% by their friends and 4.2% by their parents. Where as in case of faculty members, 60%, 30% and 10% have been motivated by self, teachers and parents respectively. Among all the respondents, 51.7%, 34.5%, 8.6% and 5.2% respondents of physics department have been motivated by self, teachers, friends and parents respectively (shows in Fig – 1).

Fig – 1 Motivation of using library

2Q. Table 2 Starting of Library use Group Total Research scholar Teacher 2Q Public Library Count 2 0 2 % within 2Q 100.0% 0.0% 100.0% % within Group 4.2% 0.0% 4.2% % of Total 3.4% 0.0% 3.4% College Library Count 29 4 33 % within 2Q 87.9% 12.1% 100.0% % within Group 60.4% 40.0% 56.9% % of Total 50.0% 6.9% 56.9% School Library Count 17 6 23 % within 2Q 73.9% 26.1% 100.0% % within Group 35.4% 60.0% 39.7% % of Total 29.3% 10.3% 39.7% Total Count 48 10 58 % within 2Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of Total 82.8% 17.2% 100.0% Table 2 Starting of Library use

Table 2 depicts that all the research scholars have started using public library among respondents who have given feedback on the public library. 87.9% scholars and only 12.1% faculties have started using college library. 73.9% research scholars and 26.1% faculty members in physics department have started school library. Among all the physics department scholar respondents, 60.4%, 35.4% and 4.2% research scholars have used library from college, school, and public respectively. In case of all the faculties, 60% and 40% have



started using library from school, college respectively. Among all the respondents from physics department, majority of respondents (56.9%) have using college library. 39.7% and 3.4% respondents of physics department have started using school library and public library respectively (Fig – 2).

Fig 2 - Starting of Library use

3Q how often you visit Library Group Total Research scholar Teacher 3Q Daily Count 31 1 32 % within 3Q 96.9% 3.1% 100.0% % within Group 64.6% 10.0% 55.2% % of Total 53.4% 1.7% 55.2% 1day/week Count 12 7 19 % within 3Q 63.2% 36.8% 100.0% % within Group 25.0% 70.0% 32.8% % of Total 20.7% 12.1% 32.8% 2 day/week Count 0 2 2 % within 3Q 0.0% 100.0% 100.0% % within Group 0.0% 20.0% 3.4% % of Total 0.0% 3.4% 3.4% 3 day/week Count 4 0 4 % within 3Q 100.0% 0.0% 100.0% % within Group 8.3% 0.0% 6.9% % of Total 6.9% 0.0% 6.9% 5 day/week Count 1 0 1 % within 3Q 100.0% 0.0% 100.0% % within Group 2.1% 0.0% 1.7% % of Total 1.7% 0.0% 1.7% Total Count 48 10 58 % within 3Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% % of Total 82.8% 17.2% 100.0%

Table 3 how often you visit Library

Table 3 shows that among all the physics department respondents in daily, 96.9% research scholars and 3.1% faculty members visit library in daily basis. 63.2% scholars and 36.8% faculties have visited university library once in a week as per day in a week respondents. 100% faculties have visited university library 2 days in a week as per two day in a week respondents. 100% research scholars have visited university library 3 days in a week from three days in a week respondents. 100% physics scholars have visited university library 5 days in a week from five days in a week respondents. Maximum 64.6% of physics research scholar have visited university library in daily. 25%, 8.3% and 2.1% research scholars have visited library in one day, 3 days and 5 days in a week respectively among all scholar respondents.70%, 20% and 10% of the faculty members visit library in one day, 2 days in a week and daily basis respectively among all the physics faculty respondents. Among all the physics department respondents, maximum 55.2% respondents have visited university library daily basis. 32.8%, 6.9%, 3.4%, and 1.7% respondents visit library in one day, 3 days, two days and 5 days in a week respectively (Fig – 3).

Fig 3 – how often you visit Library

4Q Spending Time in Library Group Total Research scholar Teacher 4Q 1 hr Count 4 1 5 % within 4Q 80.0% 20.0% 100.0% % within Group 8.3% 10.0% 8.6% % of Total 6.9% 1.7% 8.6% 2 hr Count 28 2 30 % within 4Q 93.3% 6.7% 100.0% % within Group 58.3% 20.0% 51.7% % of Total 48.3% 3.4% 51.7% 3 hr Count 8 4 12 % within 4Q 66.7% 33.3% 100.0% % within Group 16.7% 40.0% 20.7% % of Total 13.8% 6.9% 20.7% 4 hr Count 8 3 11 % within 4Q 72.7% 27.3% 100.0% % within Group 16.7% 30.0% 19.0% % of Total 13.8% 5.2% 19.0% Total Count 48 10 58 % within 4Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of Total 82.8% 17.2% 100.0% Table 4 Spending Time in Library



Table 4 depicts that among all the physics department respondents of one hour, 80% research scholars and 20% faculty members spend one hour in library. 93.3% scholars and 6.7% faculties have spent for two hours in university library. 66.7% scholars and 36.3% faculties have spent 3 hours in university library as per 3 hours respondents. 72.7% research scholars and 27.3% faculties have 4 hours in library from four hours respondents. Maximum 58.3% of physics research scholars have spent two hours in university library. 16.7% scholars spent three and four hours each, only 8.3% research scholars have spent minimum one hourin library. 40%, 30%, 20% and 10% of the physics faculty members have spent three, four, two hours and one hour respectively in university library among all the physics faculty respondents. Among all the physics department respondents, maximum 51.7% respondents have spent two hours in university library. 20.7%, 19%, and 8.6% among all physics department respondents have spent three, four hours and one hour in university library.

5Q Do you Use Departmental Library Group Total Research scholar Teacher 5Q Yes Count 48 10 58 % within 5Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% Table 5 Do you Use Departmental Library

Table 5 shows that all the research scholar and faculties in physics department used departmental library. Among all the respondents, 82.8% scholar and 17.2% faculty members have visited departmental library.

6Q. Do you Visit Any Library Other Than University Library Group Total Research scholar Teacher 6Q Yes Count 34 6 40 % within 6Q 85.0% 15.0% 100.0% % within Group 70.8% 60.0% 69.0% % of Total 58.6% 10.3% 69.0% No Count 14 4 18 % within 6Q 77.8% 22.2% 100.0% % within Group 29.2% 40.0% 31.0% % of Total 24.1% 6.9% 31.0% Total Count 48 10 58

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36%

Table 6 Do you Visit Any Library Other Than University Library

Table 6 depicts that among 40 respondents, 85% research scholars and 15% faculties of physics department have visited other library other than university library. Among 18 respondents, 77.8% scholars and 22.2% faculty members never visit any other library

than university library. Majority of (70.8%) research scholars have visited other than university library among 48 scholars' respondents. 60% of the faculties have visited other than university library among ten respondents. Among all the physics department respondents 69% have visited other library than university library for their information needs.

7Q Spending on an average in other libraries Group Total Research scholar Teacher 7Q Not to spend Count 16 4 20 % within 8Q 80.0% 20.0% 100.0% % within Group 33.3% 40.0% 34.5% % of Total 27.6% 6.9% 34.5% weekly 1 hr Count 10 2 12 % within 7Q 83.3% 16.7% 100.0% % within Group 20.8% 20.0% 20.7% % of Total 17.2% 3.4% 20.7% weekly 2 hr Count 5 2 7 % within 7Q 71.4% 28.6% 100.0% % within Group 10.4% 20.0% 12.1% % of Total 8.6% 3.4% 12.1% weekly 3 hr Count 2 0 2 % within 7Q 100.0% 0.0% 100.0% % within Group 4.2% 0.0% 3.4% % of Total 3.4% 0.0% 3.4% weekly 4 hr Count 5 0 5 % within 7Q 100.0% 0.0% 100.0% % within Group



10.4% 0.0% 8.6% % of Total 8.6% 0.0% 8.6% monthly2hr Count 0 1 1 % within 7Q 0.0% 100.0% 100.0% % within Group 0.0% 10.0% 1.7% % of Total 0.0% 1.7% 1.7% monthly3hr Count 10 1 11 % within 7Q 90.9% 9.1% 100.0% % within Group 20.8% 10.0% 19.0% % of Total 17.2% 1.7% 19.0% Total Count 48 10 58 % within 7Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of

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40%

Total 82.8% 17.2% 100.0% Table 7 Spending on an average in other libraries

Table 7 depict that 80% physics scholar and 20% faculty members never spent times in other libraries among 20 respondents. 83.3% scholars have spent one hour

in week among 12 respondents. 71.4%, 100%, and 90% scholars visited other library for two, three and four hours in a week among 7, 2, and 5 respondents respectively. 91.9% physics research scholars have spent 3 hours in a month among 11 respondents. Majority of 66.7% physics research scholars have spent time in other libraries among all the scholar respondents. 20.8%, 10.6%, 4.2%, and 20.8% of scholars spent 1 hour, 2, 3, 4 hours in a week and 3hours in a month respectively among all the scholar respondents. 60% of physics faculty members have spent times in other libraries among all the faculty respondents. 20% each faculties spent weekly 1 and 2 hours and 10% each faculties for monthly 2 and 3hours in other libraries among all the faculty respondents. 65.5% physics department respondents have spent time in other libraries. 20.7%, 12.1%, 8.6%, 3.4% and 1.7% respondents have spent time for 1 hour, 2, 4, 3 hours in a week and 2 hours in a month respectively among all the respondents. Surprisingly 19% physics department scholars and faculty members have spent three hours in a month among all the respondents (Fig 4).

Fig 4 - Spending on an average in other libraries

8Q what are the main reasons of Information Needs? Group Total Research scholar Teacher 8Q Research Count 1 1 2 % within 8Q 50.0% 50.0% 100.0% % within Group 2.1% 10.0% 3.4% % of Total 1.7% 1.7% 3.4% Study Count 7 2 9 % within 8Q 77.8% 22.2% 100.0% % within Group 14.6% 20.0% 15.5% % of Total 12.1% 3.4% 15.5% Research and Study Count 35 7 42 % within 8Q 83.3% 16.7% 100.0% % within Group 72.9% 70.0% 72.4% % of Total 60.3% 12.1% 72.4% Others Count 5 0 5 % within 8Q 100.0% 0.0% 100.0% % within Group 10.4% 0.0% 8.6% % of Total 8.6% 0.0% 8.6% Total Count 48 10 58 % within 8Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% % of

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96%

Total 82.8% 17.2% 100.0% Table 8 what are the main reasons of Information Needs?

Table 8 shows that research

and study is the prime information needs of maximum 72.4% of physics research scholars and faculty members. Only study is the second most important information needs of 15.5%



respondents among all the physics department respondents. Majority of (72.4%) respondents information needs is research and study. Only 8.6% and 3.4% respondents visit for other purpose and only study respectively. It is noted that equal number of scholars and faculties of physics department have visited university library for only satisfying their research purpose information needs. 78.8% physics scholars and 22.2% faculty members meet their information needs for only study. Majority of 83.3% physics scholars have satisfied their information needs for research and study among 42 respondents. All the physics research scholars visited library for other purpose among 5 respondents. Maximum physics research scholars (83.3%) meet their research and study, the major information needs among all the scholar respondents. Among all the scholar respondents, 14%, 10.4%, and 2.1% scholars visit for study, other purpose, and research respectively. Majority of 70% physics faculty members meet their prime information needs for research and study among all the faculty respondents. 20% and 10% faculty have visited university library for only study and research respectively (Fig 5).

Fig 5 – what are the main reasons of Information Needs?

9Q Reasons for library visit Group Total Research scholar Teacher 9Q Borrow books Count 1 1 2 % within 9Q 50.0% 50.0% 100.0% % within Group 2.1% 10.0% 3.4% % of Total 1.7% 1.7% 3.4% All of above Count 47 9 56 % within 9Q 83.9% 16.1% 100.0% % within Group 97.9% 90.0% 96.6% % of Total 81.0% 15.5% 96.6% Total Count 48 10 58 Table 9 Reasons for library visit

Table 9 depicts majority of 96.6% physics scholars and faculties access all types of university library services among all respondents. Only 3.4% scholars and faculties visit university library specifically for borrowing books among all the respondents. Among all the scholars' respondents, maximum 97.9% physics scholars access all types of resources and services from university library and only 2.1% specifically for borrowing books. Among all the physics faculty members, 90% have accessed all types of library resources and services and only 1.7% for mainly for borrowing books.

10Q Consultation with faculty members Group Total Research scholar Teacher 10Q Yes Count 48 10 58 % within 10Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of Total 82.8% 17.2% 100.0% Table 10 Consultation with faculty members

Table 10 depicts majority of 100% physics research have consulted with faculty members among all scholar respondents. All the faculties consulted with their peer members among all physics faulty respondents. 82.8% physics research scholar and 17.2% faculties agreed for consultation with their faculty members for research and study among all the respondents.

11Q Day-wise information seeking Group Total Research scholar Teacher 11Q Yes Count 48 9 57 % within 11Q 84.2% 15.8% 100.0% % within Group 100.0% 90.0% 98.3% % of Total 82.8% 15.5% 98.3% No Count 0 1 1 % within 11Q 0.0% 100.0% 100.0% % within Group 0.0% 10.0% 1.7% % of Total 0.0% 1.7% Total Count 48 10 58 % within 11Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of Total 82.8% 17.2% 100.0% Table 11 Day-wise information seeking



Table 11 shows that day-wise regular information seeking records was well-kept by 84.2% physics research scholars and 15.8% faculty members. All the physics scholars use to record their day-wise information seeking among scholar respondents. It is noted that only one faculty does not require for day-wise information seeking.

12Q Sources used Group Total Research scholar Teacher 12Q Search engine Count 1 0 1 % within 12Q 100.0% 0.0% 100.0% % within Group 2.1% 0.0% 1.7% % of Total 1.7% 0.0% 1.7% All Count 47 10 57 % within 12Q 82.5% 17.5% 100.0% % within Group 97.9% 100.0% 98.3% % of Total 81.0% 17.2% 98.3% Total Count 48 10 58 Table 12 Sources used

Table 12 shows that majority of 100% research scholars use search engine for information seeking. It is noted that no physics faculty use search engine for information seeking rather than like to access all types of library resources. 82.5% physics scholars and 17.5% faculties access all types of university library resources among all the respondents.

13Q Success rate of users Group Total Research scholar Teacher 13Q 100% Count 10 0 10 % within 13Q 100.0% 0.0% 100.0% % within Group 20.8% 0.0% 17.2% % of Total 17.2% 0.0% 17.2% 90% Count 3 4 7 % within 13Q 42.9% 57.1% 100.0% % within Group 6.3% 40.0% 12.1% % of Total 5.2% 6.9% 12.1% 80% Count 25 5 30 % within 13Q 83.3% 16.7% 100.0% % within Group 52.1% 50.0% 51.7% % of Total 43.1% 8.6% 51.7% 70% Count 9 1 10 % within 13Q 90.0% 10.0% 100.0% % within Group 18.8% 10.0% 17.2% % of Total 15.5% 1.7% 17.2% 60% Count 1 0 1 % within 13Q 100.0% 0.0% 100.0% % within Group 2.1% 0.0% 1.7% % of Total 1.7% 0.0% 1.7% Total Count 48 10 58 % within 13Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of Total 82.8% 17.2% 100.0% Table 13 Success rate users

Table 13 shows that maximum 100% physics research scholars have hundred percent success rates for information seeking among hundred percent success respondents. 52.1% physics research scholars have 80 percent success rate for information needs and information seeking from university library resources and services.

Fig 6 – Success rate users

14Q Reasons of dissatisfaction Group Total Research scholar Teacher 14Q No dissatisfaction Count 17 8 25 % within 14Q 68.0% 32.0% 100.0% % within Group 35.4% 80.0% 43.1% % of Total 29.3% 13.8% 43.1% No comments Count 1 0 1 % within 14Q 100.0% 0.0% 100.0% % within Group 2.1% 0.0% 1.7% % of Total 1.7% 0.0% 1.7% Need more resource Count 30 2 32 % within 14Q 93.8% 6.3% 100.0% % within Group 62.5% 20.0% 55.2% % of Total 51.7% 3.4% 55.2% Total Count 48 10 58 % within 14Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of Total 82.8% 17.2% 100.0% Table 14 Reasons of dissatisfaction

Table 14 shows that 68% physics research scholars and 32% faculties have not dissatisfied on university library among twenty five respondents. Only one scholar does "no comments" on dissatisfaction. Maximum 93.8% scholars and 6.3% faculties agreed on "need more resources among rest of the respondents. All the physics scholars' respondents, majority of 62.5% demand for more resources, 35.4% have no dissatisfaction and only 2.1% said "no comments". Among all the faculty respondents, 20%% requested for more library resources, maximum



80% have satisfied on library resources and services. Overall 55.2% respondents demand more resources and services, 43.1% have satisfied on library system.

15Q Improvement needs for University library infrastructure Group Total Research scholar Teacher 15Q Yes Count 33 9 42 % within 15Q 78.6% 21.4% 100.0% % within Group 68.8% 90.0% 72.4% % of Total 56.9% 15.5% 72.4% No Count 12 0 12 % within 15Q 100.0% 0.0% 100.0% % within Group 25.0% 0.0% 20.7% % of Total 20.7% 0.0% 20.7% No comments Count 3 1 4 % within 15Q 75.0% 25.0% 100.0% % within Group 6.3% 10.0% 6.9% % of Total 5.2% 1.7% 6.9% Total Count 48 10 58 Table 15 Improvement needs for University library infrastructure

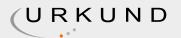
Table 15 shows that 78.6% physics research scholars and 21.4% faculty members have agreed on improvement needs for university library infrastructure among 42 respondents. Maximum 100% scholars out of 12 respondents agreed on no need on university library infrastructure development. 75% scholars and 25% faculties out of 4 respondents agreed on "no comments" on university library infrastructure development. Among all the respondents, majority of 72.4% physics respondents have agreed on improvement need on university library infrastructural development.

16Q Improvement needs for University library services Group Total Research scholar Teacher 16Q Yes Count 27 8 35 % within 16Q 77.1% 22.9% 100.0% % within Group 56.3% 80.0% 60.3% % of Total 46.6% 13.8% 60.3% No Count 18 1 19 % within 16Q 94.7% 5.3% 100.0% % within Group 37.5% 10.0% 32.8% % of Total 31.0% 1.7% 32.8% No comments Count 3 1 4 % within 16Q 75.0% 25.0% 100.0% % within Group 6.3% 10.0% 6.9% % of Total 5.2% 1.7% 6.9% Total Count 48 10 58 % within 16Q 82.8% 17.2% 100.0% % within Group 100.0% 100.0% 100.0% % of Total 82.8% 17.2% 100.0% Table 16 Improvement needs for University library services

Table 16 depicts that Majority of 60.3% physics respondents have agreed for enhancing university library services. 77.1% physic research scholar and 22.9% faculty members out of 35 respondents have suggested for improvement needs for library services. Out of 19 respondents, 94.7% physics scholars and 5.3% faculties said no needs for improvement of university library services. 75% physics research scholar and 25% faculty members said "no comments" among rest of the respondents. Among all the physics scholar respondents, majority of 56.7% have agreed on improvement needs for library services. Maximum 80% faculties have responded on the improvement needs for university library services among all the faculty respondents.

Conclusion

Information need and information seeking behaviour of physics department faculty members and regular research scholars because it wasin-depth understanding of the major roles on overall university library development in the angle from the students; purview on Burdwan university library. The physics faculties need for information influenced on their course requirements and research related educational resources. The information seeking activity are based on accessibility of library resources, awareness of information sources; skills associated with information seeking process; interaction with peers and faculties. Majority of the faculties and scholars demand on more resources need, improvement needs on library



infrastructure and services. Interestingly, majority of the physics department faculty members and scholars satisfied on university library services.

Practical implication

The study is about physics department faculties and research scholars' information needs and seeking behaviour in the University of Burdwan. It

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93%

should give top priority to quality education, staff training, and user education with IT based

library resources and services. This in-depth quantitative and qualitative analysis of faculties and research scholars'

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79%

information needs and seeking behaviour in the University of Burdwan helps decision makers, planners and policy makers

to design a modern library centric education system based on the users' need.

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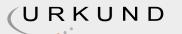
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80%

61%

36%



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2 80%

through online data collection tool using Google Form. Statistical Package for Social Sciences (SPSS V-25)

3 61%

in this study for quantitative and qualitative data analysis.

Limitations of the Study

This study has a number of limitations. The

4 36%

Table 6 Do you Visit Any Library Other Than University Library

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through online data collection tool using Google Form are evaluated and analyzed by using Statistical Package for Social Sciences (SPSS V-25)

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In this study, qualitative and quantitative methods are applied.

Limitations of the Study

This study has a number of limitations. The

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Table 6 Do you Visit Any Library Other Than Central Library



Table 6 depicts that among 40 respondents, 85% research scholars and 15% faculties of physics department have visited other library other than university library. Among 18 respondents, 77.8% scholars and 22.2% faculty members never visit any other library

Table 6 shows 80.6% mathematics research scholars and 19.4% faculty members have visited other than university library for their research works and study. 64.4% of scholars and 35.7% of faculty members never visit other library

5 40%

Total 82.8% 17.2% 100.0% Table 7 Spending on an average in other libraries

Table 7 depict that 80% physics scholar and 20% faculty members never spent times in other libraries among 20 respondents. 83.3% scholars have spent one hour

6 96%

Total 82.8% 17.2% 100.0% Table 8 what are the main reasons of Information Needs?

Table 8 shows that research

7 93%

should give top priority to quality education, staff training, and user education with IT based

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40%

Total 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% Table 7 Spending on an average in other libraries

Table 7 shows among all the respondents 80% mathematics scholars and 20% faculties have never spent time in other libraries. 100% of research scholars spend one hour

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96%

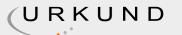
Total 100.0% 100.0% 100.0% 100.0% Table 8 what are the main reasons of Information Needs?

Table 8 shows that 100% of research

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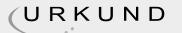


8 79%

information needs and seeking behaviour in the University of Burdwan helps decision makers, planners and policy makers 8: Article of Amit Kumar Das 12-04-2021.doc

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information needs and seeking behaviour on facultiesand research scholars in the University of Burdwan for decision makers, planners and policy makers



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