10.4. Library and Internet (20)

(Exhibit : Library)

10.4.1. Quality of learning resources (hard/soft) (10)

Library is a resource center for teaching, learning & research. Being the heart of the academic center, it is home for all the information services. The library @ ATME college of engineering is all set provide the best of the resources for the faculties, students and research scholars. The major objective of our library is to provide right information/knowledge to the right users at the right time.
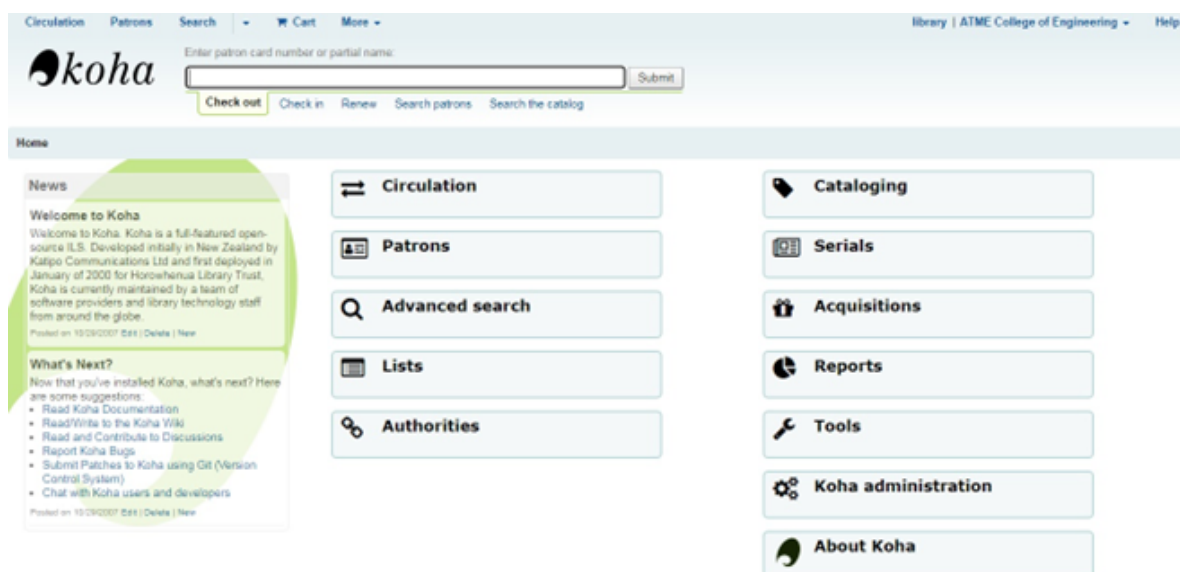
Table. 10.4.0 : Library Resources (Soft and Hard)

Particulars	**Quantity**
Text Books	21,933
E-Books	25,908
Print Journals	78
E-Journals	7,529

OPAC – KOHA

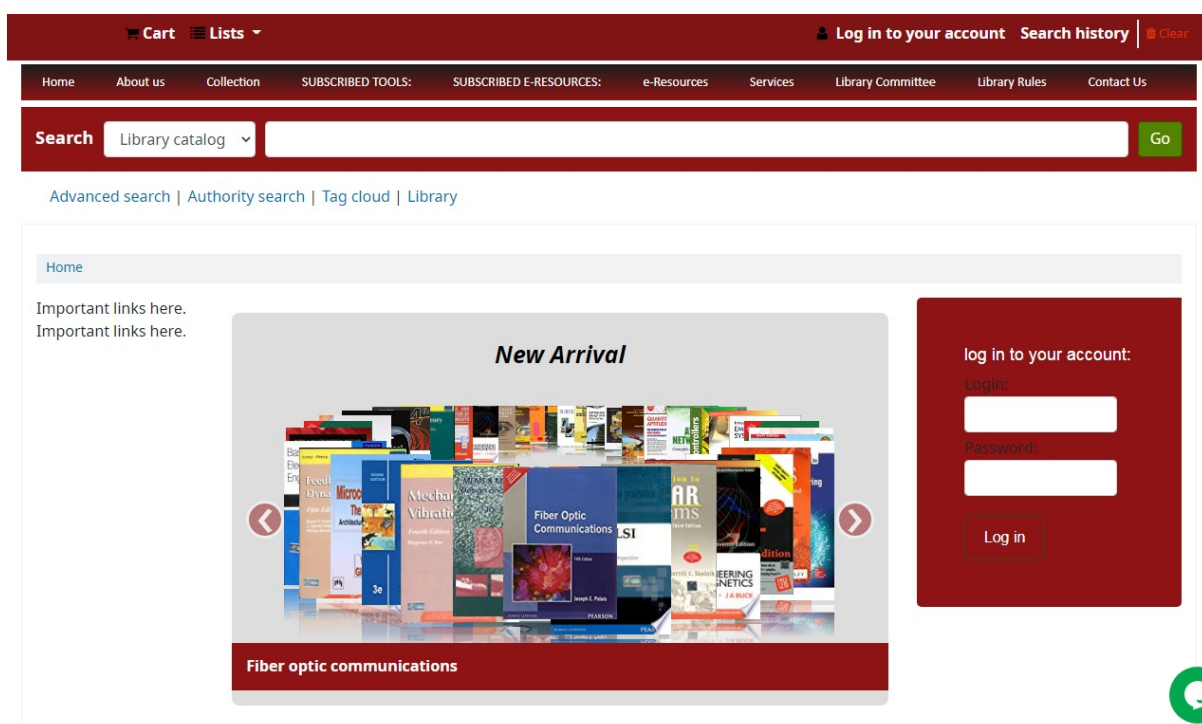Online Public Access Catalog (OPAC) is available for library users through IP http://118.151.209.133:8001/ on the intranet.

Fig 10.4.1 : KOHA front page

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KOHA, an open source library automation system is used for OPAC. Users can search for the availability of the desired resource through advanced search options. The software provides and easy access to the racks of the library. This will also bring in the transparency in the resources available in the library.
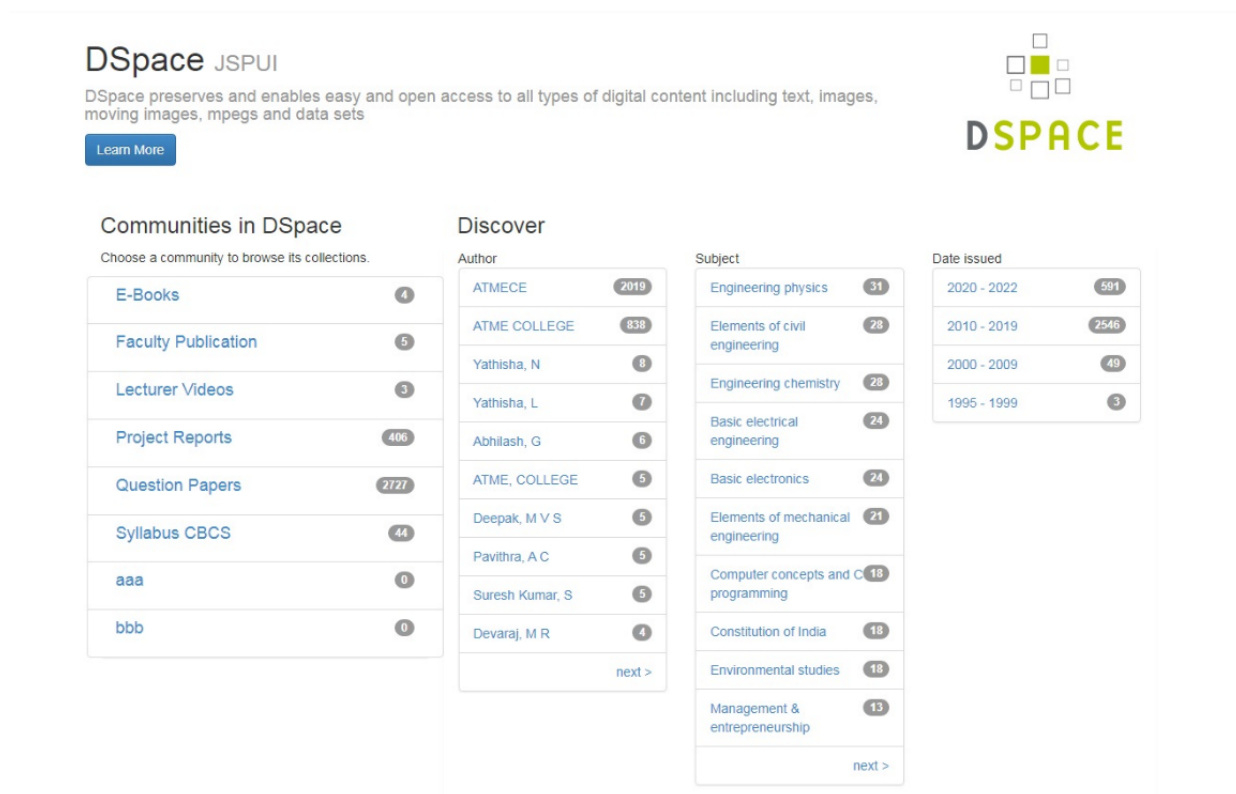
Fig 10.4.2 : OPAC-KOHA Login page

Digital Library Repository

ATME College of Engineering has set up a institutional repository built using "Dspace". The repository could be accessed both through internet and intranet using the IP address http://172.16.18.97/jspui/ . The contents of the repository which the stake holders of the library could access and use are

1. Faculty Publications in peer reviewed journals
2. Faculty publication in conference proceedings
3. E-Books
4. Project Reports
5. Course and Syllabus
6. Question Paper Bank

Fig. 10.4.3: Dspace-Institutional Repository

VTU Library Consortium

The ATME College of Engineering is subscribed for the membership of Visvesvaraya Technological University. The consortium provides access to the number of e-journals and e-books. The consortium facilitates the stakeholders with nearly 7,529 e-journals, 1,800 conference papers, reports and other from the different databases like Springer Knimbus, IEEE, Elsevier, Science Direct, Taylor & Francis, Proquest. The number of e-Books that could be accessed are around 25,000+ E-Books (EBSCO).

NPTEL & Edusat Repository

ATME college of Engineering has setup up one more repository for accessing NPTEL & Edusat E-Learning resources from the VTU thorough the IP http://172.16.46.46/atmedigi/ for the benefit of faculties, students & research scholars.

Journals (Print Version)

The college has subscribed to 48 printed journals of various disciplines.

Table 10.4.1 : List of Journals

Sl. No.	PRINT JOURNALS
	CSE AIML
1	International Journal of Data Science, Bioinformatics and Cyber Security
2	Journal of Advanced Research in Applied Chemistry and Chemical Engineering
3	Journal of Artificial Neural Networks and Learning System
4	Journal of Fuzzy Sets and Fuzzy Logic Design
5	Journal of Intelligent Decision Technologies and Applications
6	Journal of Soft Computing and Computational Intelligence
	BCA

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7	International Journal of Digital Electronics and Microprocessor Technology	
8	Journal of Big Data Technology and Business Analytics	
9	Journal of Computer Science Engineering and Software Testing	
10	Journal of Data Mining and Management	
11	Journal of Information Technology and Sciences	
12	Journal of Web Development and Web Designing	
CSE		
13	International Journal of AI and Machine Learning Innovations in Electronics and Communication Technology	
14	International Journal of Artificial Intelligence of Things (AIoT) in Communication Industry	
15	International Journal of Digital Technology and Network Security System	
16	International Journal of Emerging IoT Technologies in Smart Electronics and Communication	
17	International Journal of Internet of Things and Smart Computing Environment	
18	International Journal of Mobile and Cloud Systems Engineering	
19	Journal of Advanced Research in Applied Artificial Intelligence and Neural Network	
20	Journal of Advanced Research in Cloud Computing, Virtualization and Web Applications	
21	Journal of Advanced Research in Computer Technology and Software Applications	
22	Journal of Advanced Research in Information Technology, Systems and Management	
23	Journal of Information Security System and Cyber Criminology Research	
24	Recent Trends in Artificial Intelligence & it's applications	
CV		
25	International Journal of Advanced Research in Artificial Intelligence and Machine Learning Reviews	
26	International Journal of Advanced Research in Civil and Structural Engineering	
27	International Journal of Advanced Research in Water Resources and Hydraulic Engineering	
CSE CYBER SECURITY		
28	International Journal of Artificial Intelligence, Machine Learning and Intelligent Systems	
29	Journal of Advanced Research in Applied Physics and Applications	
30	Journal of Cyber Security in Computer System	
31	Journal of Cyber Security, Privacy Issues and Challenges	
32	Journal of Hacking Techniques, Digital Crime Prevention and Computer Virology	
33	Journal of Security in Computer Networks and Distributed Systems	
CSE DATA SCIENCE		
34	International Journal of Computer Science, Algorithms and Programming Languages	
35	Journal of Big Data Analytics and Business Intelligence	
36	Journal of Data Engineering and Knowledge Discovery	
37	Journal of Innovations in Data Science and Big Data Management	
38	Journal of Intelligent Data Analysis and Computational Statistics	
39	Journal of Knowledge in Data Science and Information Management	
CSE DESIGN		
40	International Journal of Neural Systems and Applications	
41	Journal of Advanced Research in Applied Mathematics and Statistics	
42	Journal of IoT Security and Smart technologies	

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43	Journal of IoT-based Distributed Sensor Networks
44	Journal of Sensor and Cloud Computing
45	Research & Review: Machine Learning and Cloud Computing
ECE	
46	Advance Research in Power Electronics and Devices
47	International Journal of Embedded System and VLSI Design
48	International Journal of Image Processing and Smart Sensors
49	International Journal of Modern Electrical Engineering and Intelligent Automation
50	International Journal of Renewable Energy and Electrical Power Systems
51	Journal of Advanced Research in Electronics Engineering and Technology
52	Journal of Advanced Research in Instrumentation and Control Engineering
53	Journal of Advanced Research in Power Electronics and Power Systems
54	Journal of Advanced Research in Signal Processing and Applications
55	Journal of Advancement in Electronics Signal Processing
56	Journal of Electronics Design and Technology
57	Journal of RF and Microwave Communication Technologies
EEE	
58	Journal of Advanced Research in Electrical Engineering and Technology
59	Journal of Advanced Research in Microelectronics and VLSI
60	Journal of Advanced Research in Modeling and Simulation
61	Journal of Advanced Research in Wireless, Mobile and Telecommunication
62	Journal of Control and Instrumentation Engineering
63	Journal of Electrical and Power System Engineering
MBA	
64	Innovation in Economy & Policy Research
65	Journal of Advanced Research in Accounting and Finance Management
66	Journal of Advanced Research in Business Law and Technology Management
67	Journal of Advanced Research in Economics and Business Management
68	Journal of Advanced Research in Entrepreneurship, Innovation and SME Management
69	Journal of Advanced Research in HR and Organizational Management
MCA	
70	International Journal of Human Computer Interaction and Data Mining
71	International Journal of Satellite-Based Communication and Wireless Networks System
72	Journal of Advanced Research in Computer Graphics and Multimedia Technology
73	Journal of Advanced Research in Image Processing and Applications
74	Journal of Advanced Research in Networking and Communication Engineering
75	Journal of Computer Based Parallel Programming
ME	
76	Journal of Advanced Research in Applied Mechanics and Computational Fluid Dynamics
77	Journal of Advanced Research in Manufacturing, Material Science and Metallurgical Engineering
78	Journal of Advanced Research in Mechanical Engineering and Technology

Procurement Procedure of Library Books:

1   Request for the indent for procuring the required books is sent to the Heads of all the departments.

2   Heads of the Departments submit the indent for the text and reference books to the library obtaining the recommendation from the faculty members.

3   The consolidation of the indents from various departments is done by the librarian.

4   The librarian does verification of the consolidated indent conforming to the budget approved and the final list of books for procurement is prepared.

5   The list of books to be procured is submitted to the principal and approval is sought for the further processes.

6   Based on the approval from the principal the quotations are obtained from various vendors and a comparative statement is prepared which is submitted to the principal.

7   Based on the recommendations from the Principal and the Management the purchase order will be released.

8   The delivered books are received and the regular formalities of taking the books into stock are completed.

9   The list of new arrivals are displayed and the information is shared with the departments.

Effective Utilization of Library Resources :

A library plays a crucial role in any educational institution by serving as a hub for academic and research activities. It offers a wide range of resources that support learning, teaching, and scholarly work. These resources may be available in both physical (hard copies) and digital (soft copies) formats, catering to the diverse needs of users. The primary beneficiaries of library resources are students and faculty members, who rely on them for academic growth and research endeavors.

The extent to which library resources are effectively utilized can be assessed by monitoring the frequency of visits and engagement of students and faculty. A higher footfall indicates greater utilization, suggesting that the library is successfully fulfilling its purpose of enhancing knowledge and research within the institution.

Utilization of library by Students and Faculty:

Table 10.4.2 : Students and Faculty usage report for the academic year Aug 2023 – July 2024

Sl. No	Month	Students	Faculty
1	Aug-22	5869	851
2	Sep-22	5467	910
3	Oct-22	6041	789
4	Nov-22	6837	800
5	Dec-22	6175	506
6	Jan-23	6485	480
7	Feb-23	5992	750
8	Mar-23	5396	788
9	Apr-23	5796	751
10	May-23	5914	654
11	June-23	6068	582
12	July-23	5825	753
Total		**71865**	**8614**

Fig.10.4.4: Library usage graphical representation 2023-24

Students and Faculty Footfall

AY 2023-24
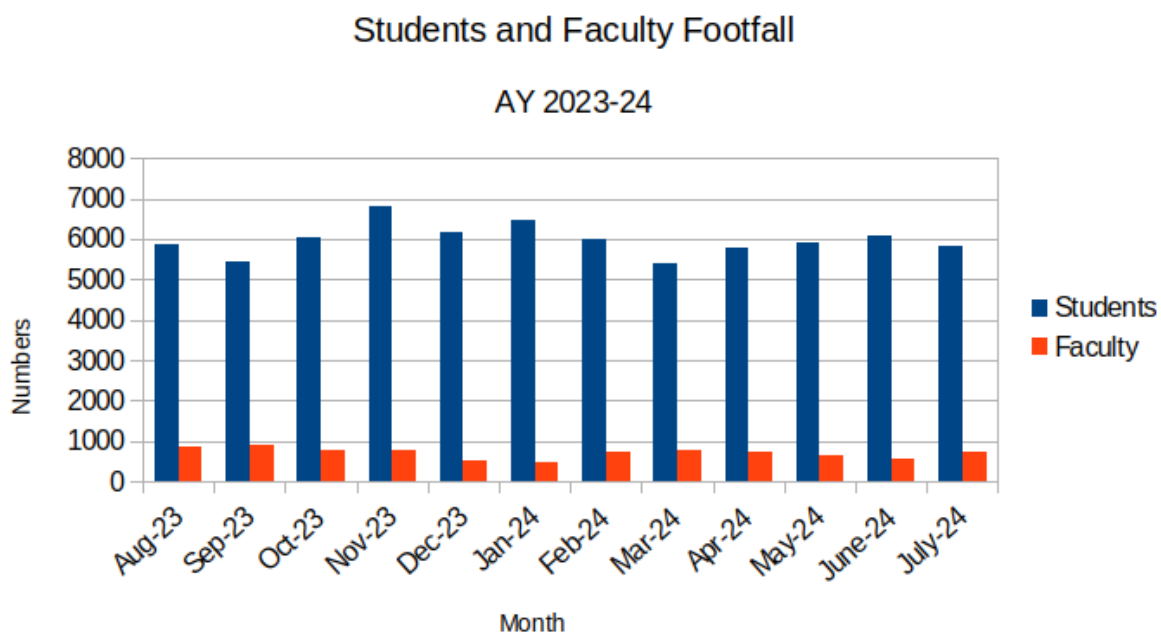

Table 10.4.3 : Students and Faculty usage report for the academic year Oct 2022 – July 2023

Sl. No	Month	Students	Faculties
1	Aug-22	5634	626
2	Sep-22	4646	516
3	Oct-22	5695	632
4	Nov-22	5929	658
5	Dec-22	6511	723
6	Jan-23	6378	708
7	Feb-23	5971	750
8	Mar-23	7039	800
9	Apr-23	4441	450
10	May-23	3576	480
11	June-23	4577	750
12	July-23	4747	506
Total		**65144**	**7599**

Fig.10.4.5: Library usage graphical representation 2022-23
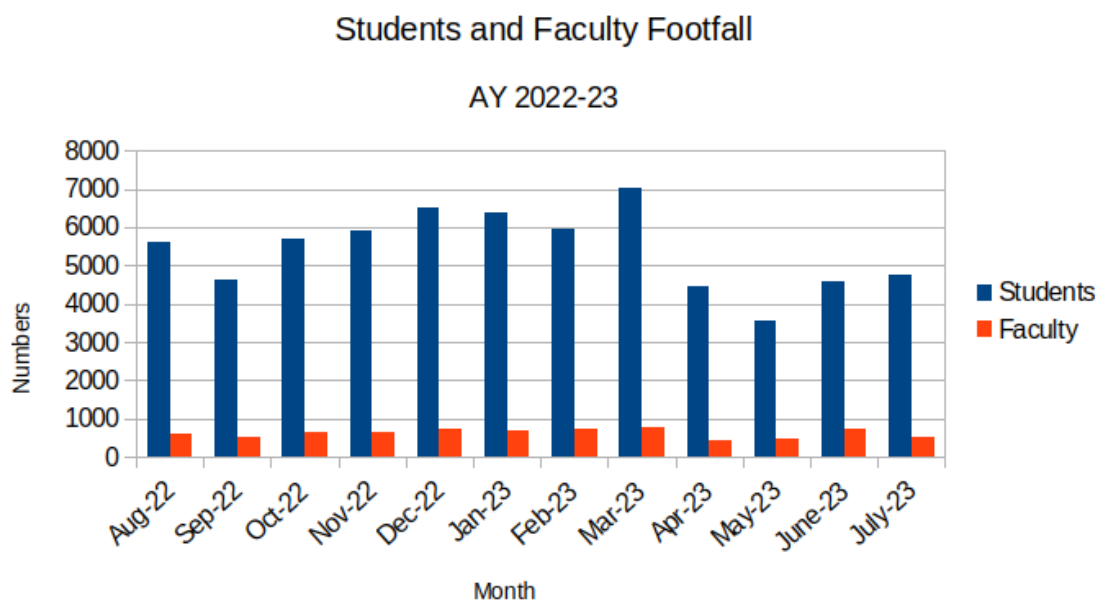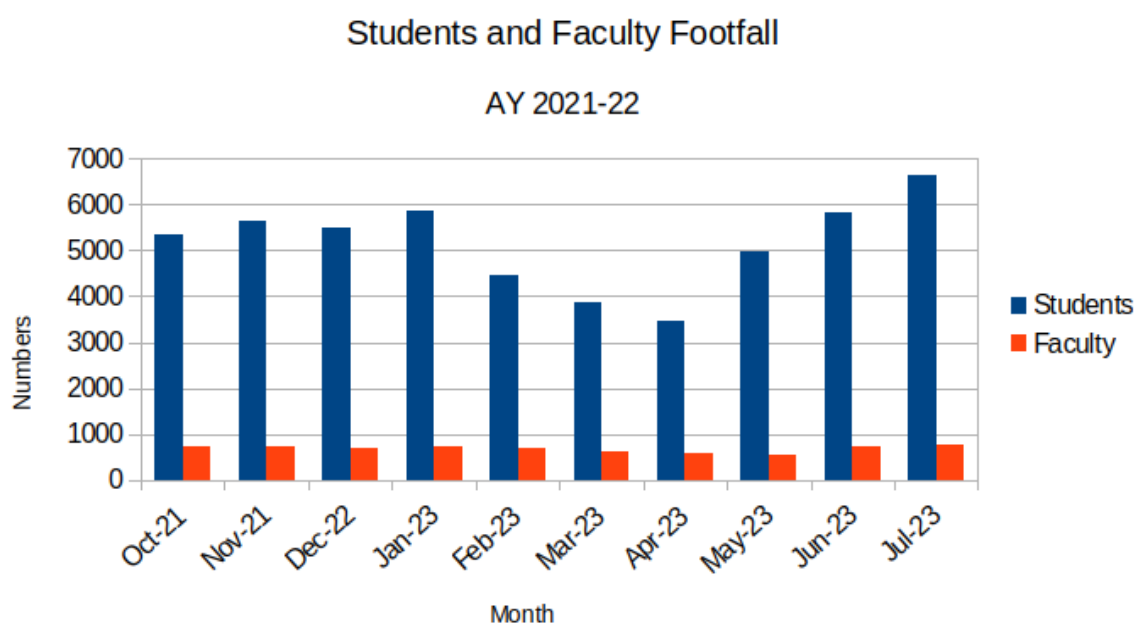

Table 10.4.4 : Students and Faculty usage report for the academic year Oct 2021 – July 2022

Sl. No	Month	Students	Faculties
1	Oct-21	5360	712
2	Nov-21	5642	736
3	Dec-21	5487	692
4	Jan-22	5868	736
5	Feb-22	4475	670
6	Mar-22	3852	621
7	Apr-22	3448	584
8	May-22	4992	536
9	Jun-22	5827	723
10	Jul-22	6651	762
Total		**51602**	**6772**

Fig.10.4.6: Library usage graphical representation 2021-22

Library Budget Utilization

The utilization of the budget in the library for the academic years 2018-19, 2019-20 and 2020-21 depicted in the following table.

Table. 10.4.5 : Library Budget Utilization

Approved and Utilization Budget	2023-24	2022-23	2021-22
Approved	9,77,000.00	27,09,000.00	33,18,100.00
Utilized	25,25,261.00	25,08,530.00	43,42,315.00

The above table indicates the the budget utilized is more than allocated in 2023-24 and 2021-22. This is due to the subscription to the e-Journals through e-Consortium.