




## Report on Library Automation

  
LIBRARIAN  
QUANTUM UNIVERSITY  
ROORKEE

  
Registrar  
Quantum University

- The Library is fully automated with LYBSYB ILMS.
  - It has a diverse collection of Books, E-books, Journals, E-journals, Video Lectures ,Magazines, Newspapers, Databases etc.
  - The Library subscribes all types of newspapers and magazines and has a rich collection of various reference sources such as encyclopaedia, dictionaries, atlas, and yearbooks, etc.
  - The Library also provides access to e-journals and e-books through N-List Program of INFLIBNET and a host of high-quality electronic databases
  - There reading halls for students and teachers with computer and internet facilities.
  - Campus Web OPAC (Online Public Access Catalogue) is provided through Wi-fi and one OPAC machine is also installed in the Library to ensure easy access of books.
  - For visually impaired students, Braille kits consisting of 286 Braille books, 10 IPODS, 33 Angel (Talking Digital Portable Daisy Player), and other facilities are available in the library.
- **ERP Access:** At Quantum University, every student, staff, and administration is provided with access to the university's ERP (Enterprise Resource Planning) system. Through this platform, they can conveniently access various features and information, including notifications, semester exam schedules, events, fee details, library resources, placement updates, etc. The ERP system serves as a centralized hub for them and students especially to stay informed and engaged with essential aspects of their academic journey.
  - **Online Catalog and Resource Management:** Quantum University utilizes integrated library management systems that allow users to search and access the library's collection online. These systems enable easy cataloging, classification, and tracking of physical and digital resources, making it convenient for students and faculty to find and request materials.

- **Online Renewal and Reservations:** Through e-governance, library users can renew borrowed materials and reserve items online without physically visiting the library. This streamlines the process, saves time, and reduces administrative workload. (Libcyb)
- **Digital Document Delivery:** University aims to provide electronic document delivery services, enabling users to request and receive articles, book chapters, or other resources in digital format. It eliminates the need for physical document retrieval and allows for quick and convenient access to information.
- **Remote Access to E-Resources:** e-Governance facilitates remote access to electronic resources such as databases, e-books, manuals, previous year question papers, journals, etc. Students and faculty can access these resources off-campus by logging in with their university credentials, expanding their research capabilities. and receive notifications electronically.
- **Data Analytics and Reporting:** e-Governance systems collect data on library usage, resource popularity, and other metrics. This data can be analyzed to gain insights into user behavior, identify trends, and make informed decisions regarding resource allocation, collection development, and service improvements.
- **Digital Preservation and Archiving:** University's e-governance system helps to digitize and preserve valuable resources, ensuring long-term access and conservation. Digital archival systems help safeguard historical materials, special collections, and research outputs.
- **Virtual Reference Services:** Understanding the need for more convenience and online feasibility in terms of library, Quantum University Libraries is working on offering virtual reference services, where users can interact with librarians and seek assistance through online chat, email, or video conferencing. This enables users to receive guidance and support remotely, even if they cannot visit the library in person.

**Online Library Account Management:** e-Governance systems allow library users to manage their accounts online, including tracking borrowed items, due dates, fine payments, and personal preferences. Users can update their contact information, track their reading history

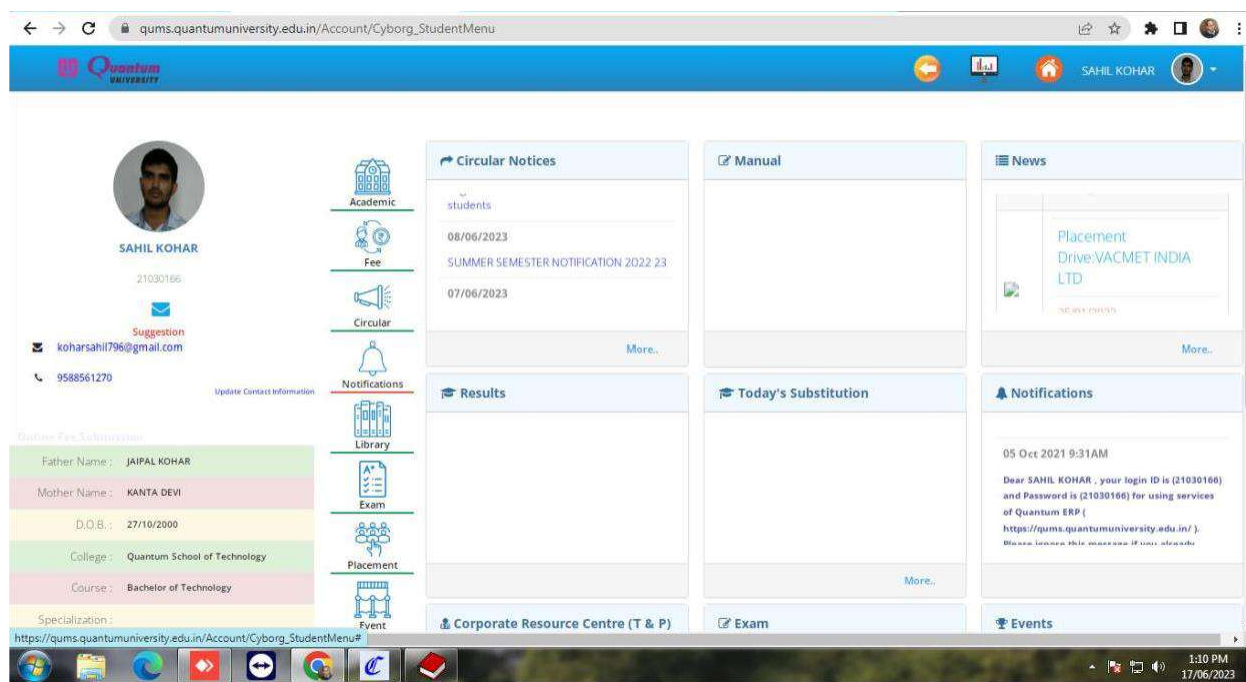
By implementing e-governance practices in the library, Quantum University fosters access to resources, enhances user experience, simplifies administrative processes, and facilitates efficient and effective library services.

## **1) Student Library Access**

Quantum University ensures that every student has the privilege of accessing the institution's comprehensive ERP (Enterprise Resource Planning) system. The ERP system allows students to stay up-to-date with important notifications and semester exam schedules, explore upcoming events, learn about fees, and access library resources. Moreover, students can also benefit from the latest placement updates, making it easier to navigate and plan their professional careers. Through this integrated and user-friendly ERP system, Quantum University fosters an environment where students can remain well-informed, engaged, and empowered throughout their academic journey. It shows a library section where the student sees the Library Home Page, and Library Dashboard, from where he/she can access the required information.

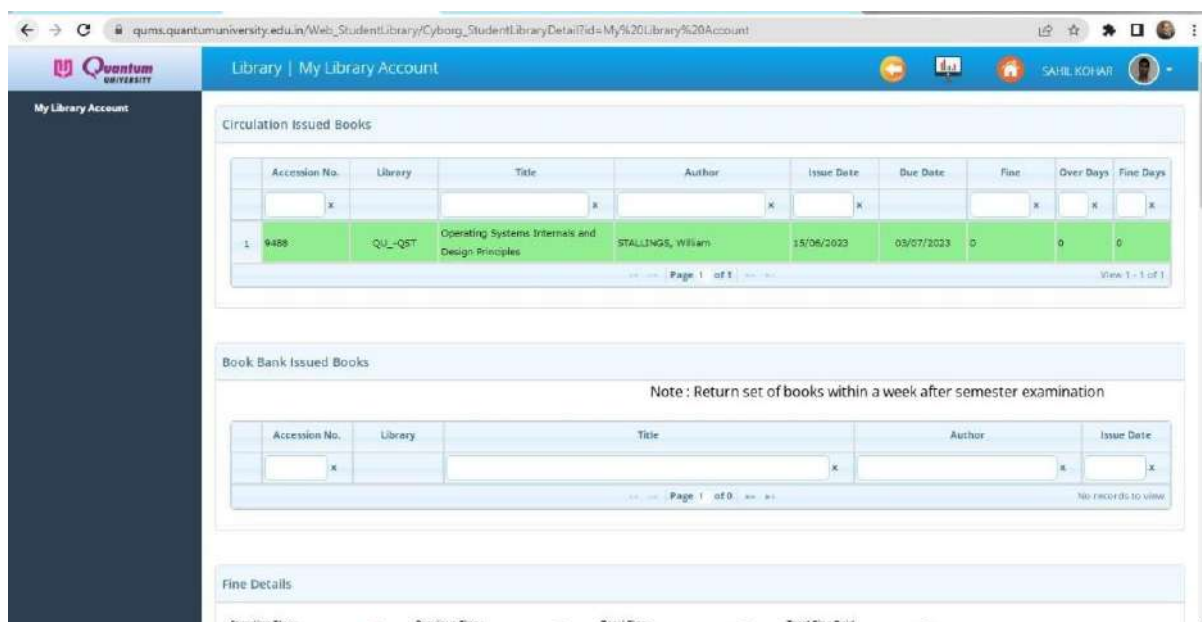
### **1.1 Student Library Homepage**

The screenshot below shows the student login to erp where he/she can have access to multiple resources from academics to events and from notifications to placements. By clicking on the library section on the homepage, the student can get access to a range of features and information specific to their library-related needs.



## 1.2 Student Library Dashboard

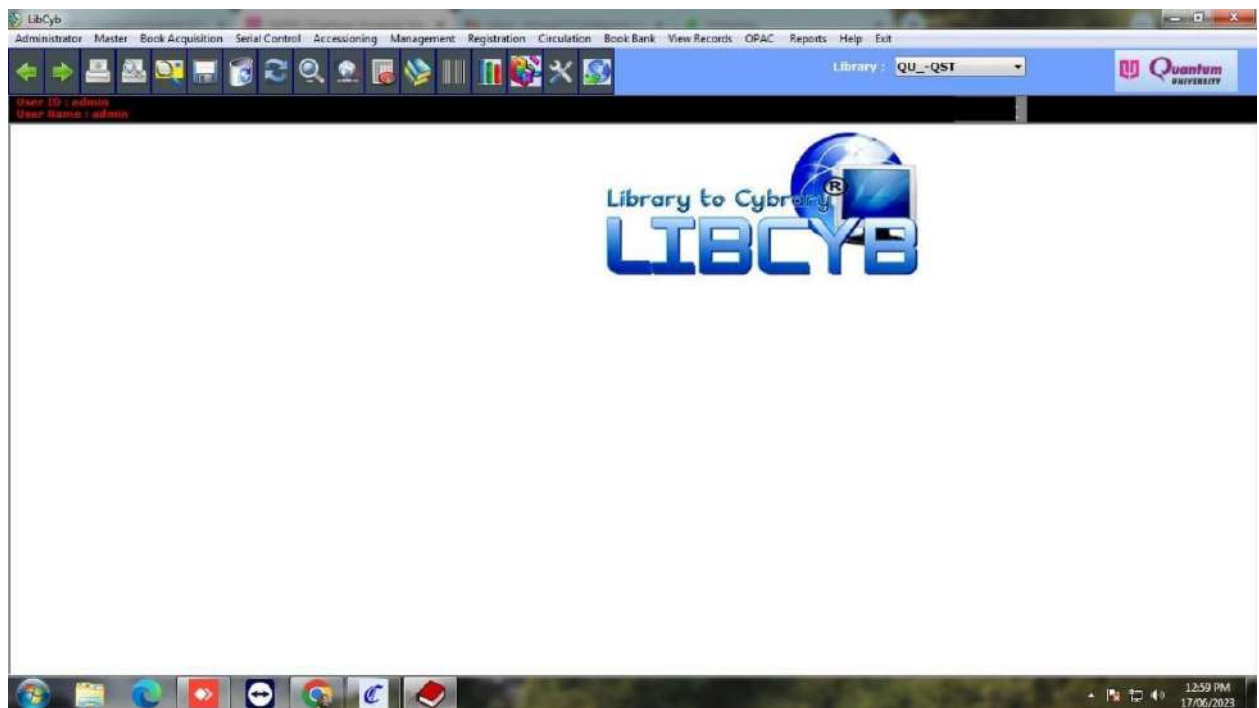
With Quantum University's ERP system, students have access to a range of library-related features and information. Below we can see the student's My Library Account from where the student can check the books he has issued, the date of issue, the due date, the fine, etc.



## 1.3 ERP Library Home

The library administration at Quantum University possesses the necessary access privileges to maintain records of books issued to students and staff. They diligently oversee and manage

all aspects of the library operations, ensuring accurate and up-to-date record-keeping. They maintain the records of borrowed books, track due dates, manage renewals, and efficiently handle any administrative tasks related to the library's functioning. The library administration ensures the smooth operation and organization of library resources for the benefit of the university community.



#### **1.4 Accessioning Records Online Register**

The library administration maintains an online register that comprehensively records the total books available within the library. This register includes essential details such as the names of books, authors, subjects, editions, and other related information. The online register also tracks the number of copies available for each book, allowing for efficient inventory management. The library administration ensures accurate and up-to-date information about the library's book collection, facilitating easy access and retrieval for students, faculty, and staff.



## 1.6 Registered Records of Students

Within the ERP system, the library administration maintains and records a comprehensive list of students who have been issued books from the library. This list includes the names of the students along with their corresponding details, ensuring accurate record-keeping. The library administration can effectively track the borrowing history of each student, monitor due dates, and manage the return process. This systematic approach enables efficient management of library resources and promotes a smooth and organized borrowing experience for the students at Quantum University.



## 1.7 Record of Issued Books

In the ERP, the library administration keeps track of the total number of books issued to students and staff. As you can see in the screenshot below, the list includes Library, Member, Date of issuing books, Transaction ID, Accession No, Title, etc.

LibCyb - [View Records/Issued Items]

Administrator Master Book Acquisition Serial Control Accessioning Management Registration Circulation Book Bank View Records OPAC Reports Help Exit

Library: QU-QST

User ID: admin User Name: admin

Issued Items

Library: Select All Member: All From: 01/06/2022 To: 17/06/2023 View

Total Book(s) Issued: 8415 Current Status: All Issued/Renewed All Books

| Transaction ID | Member ID | Name              | Accession No. | Title                                | Issued Date | All Books |
|----------------|-----------|-------------------|---------------|--------------------------------------|-------------|-----------|
| 1              | 19030069  | SARAS KUMAR YADAV | 21995         | Artificial intelligence              | 12/06/2023  | 1         |
| 1              | 19030069  | SARAS KUMAR YADAV | 6735          | Fundamentals of Data Structures in C | 14/06/2022  | 1         |
| 1              | 19030171  | DIVYA PRABHAT     | 13323         | Digital Signal Processing            | 13/09/2022  | 1         |
| 1              | 19170013  | MANISH VERMA      | P4370         | RESEARCH METHODOLOGY                 | 15/06/2022  | 1         |
| 1              | 19190010  | ADITI GUPTA       | P1482         | RESEARCH METHODOLOGY                 | 11/06/2022  | 1         |
| 1              | 19280001  | AASHA KUMARI      | H183          | SEED TECHNOLOGY                      | 10/06/2022  | 1         |
| 1              | 19280074  | VARUN GUPTA       | AG973         | ESSENTIALS OF PLANT BREEDING         | 11/04/2023  | 1         |
| 1              | 19410004  | ABHISHEK KUMAR    | 19002389      | PHARMACOGNOSY                        | 12/06/2023  | 1         |
| 1              | 19410017  | JAYKISHOR KUMAR   | L1496         | PHARMACEUTICAL ANALYSIS              | 05/12/2022  | 1         |
| 1              | 19410022  | MOHD AZEEM        | L2060         | HOSPITAL PHARMACY                    | 07/11/2022  | 1         |
| 1              | 19410032  | RIYA BHARDWAJ     | 19002449      | Research Methodology                 | 08/05/2023  | 1         |
| 1              | 19410032  | RIYA BHARDWAJ     | 19002676      | Social and preventive Pharmacy       | 24/05/2023  | 1         |
| 1              | 20030085  | KALPANA KUMARI    | 18924         | ENGINEERING MATHEMATICS VOL-III      | 16/05/2023  | 1         |
| 1              | 20170002  | AMISHA KUSHWAHA   | M1219         | Research Methodology                 | 18/03/2023  | 1         |
| 1              | 20170014  | JESSICA PASRICHA  | X576          | CORPORATE ACCOUNTING                 | 30/12/2022  | 1         |
| 1              | 20170017  | GAURAV SINGH      | P2484         | RESEARCH METHODOLOGY                 | 17/04/2023  | 1         |
| 1              | 20170018  | PRIYANSHI AGGARWA | BS2 31        | DISASTER MANAGEMENT AND PREPAR       | 10/05/2023  | 1         |
| 1              | 20170027  | SHIVANI AHUJA     | X570          | CORPORATE ACCOUNTING                 | 12/11/2022  | 1         |
| 1              | 20170046  | PRADEE            | P2495         | RESEARCH METHODOLOGY                 | 04/04/2023  | 1         |
| 1              | 20170056  | RAKHI KUMARI      | P4240         | RESEARCH METHODOLOGY                 | 21/02/2023  | 1         |

Print Close

## 1.8 Record of Books Circulation

The provided screenshot displays the circulation records of books in an online format. It captures important details such as the Year, Month, Number of Books Issued, and Number of Books Returned. This helps in the efficient tracking and monitoring of book circulation within the library. The circulation records presented in the screenshot provide valuable insights into the utilization and return of library materials, contributing to the smooth operation and effective administration of the library at Quantum University.

LibCyb - [FromAvgBookCirculate]

Administrator Master Book Acquisition Serial Control Accessioning Management Registration Circulation Book Bank View Records OPAC Reports Help Exit

Library: QU-QST

User ID: admin User Name: admin

From: Year: 2022 Month: January To: Year: 2022 Month: December Library: Invert View

Record: 14

| S No | Year | Month     | No of Issued Books | No of Returned Books |
|------|------|-----------|--------------------|----------------------|
| 1    | 2022 | January   | 384                | 725                  |
| 2    | 2022 | February  | 588                | 393                  |
| 3    | 2022 | March     | 835                | 896                  |
| 4    | 2022 | April     | 788                | 844                  |
| 5    | 2022 | May       | 843                | 793                  |
| 6    | 2022 | June      | 138                | 608                  |
| 7    | 2022 | July      | 16                 | 39                   |
| 8    | 2022 | August    | 379                | 125                  |
| 9    | 2022 | September | 1800               | 1445                 |
| 10   | 2022 | October   | 817                | 923                  |
| 11   | 2022 | November  | 775                | 848                  |
| 12   | 2022 | December  | 1115               | 961                  |
|      |      | Total     | 8478               | 8565                 |
|      |      | Average   | 706.5              | 713.75               |

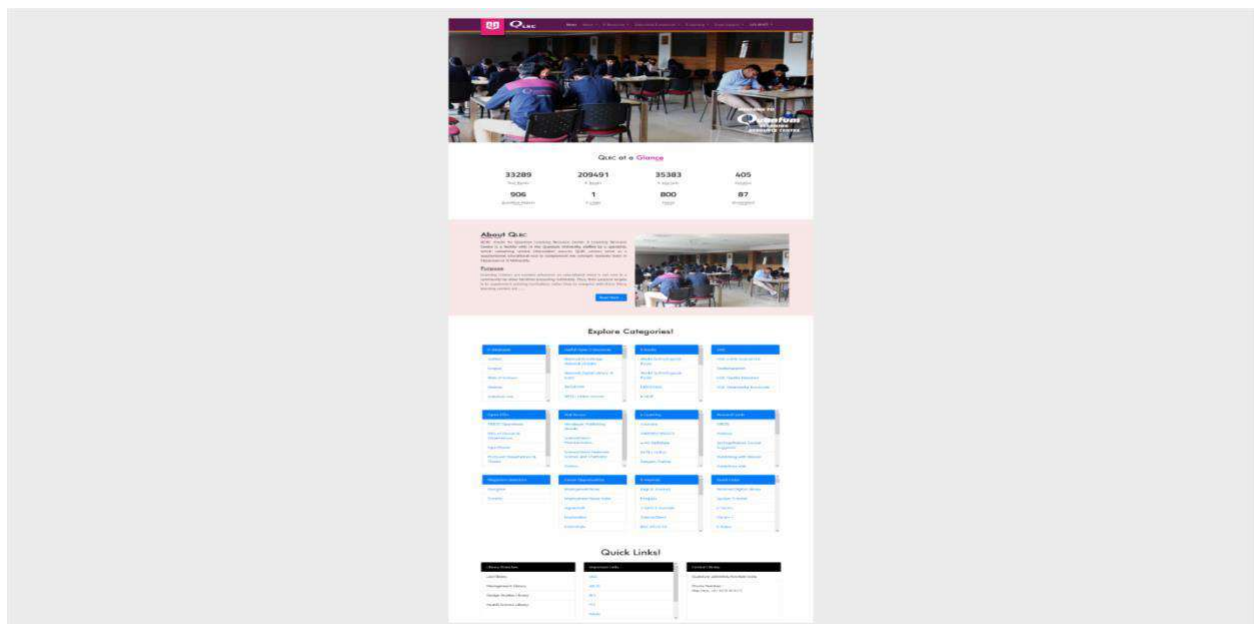
Report Close

## **2 QLRC - Quantum Learning Resource Center**

At Quantum University, the Learning Resource Center (LRC) plays a vital role in supporting students' educational endeavors. The LRC serves as a dynamic hub of knowledge and resources, catering to the diverse learning needs of students. Equipped with a vast collection of books, e-books, journals, multimedia materials, manuals, previous year question papers, and online databases, the LRC offers a rich and diverse range of resources. It includes QLRC Homepage, QLRC Question Paper, Question Paper Module, Course Files, EBooks, Student Access Logs, etc.

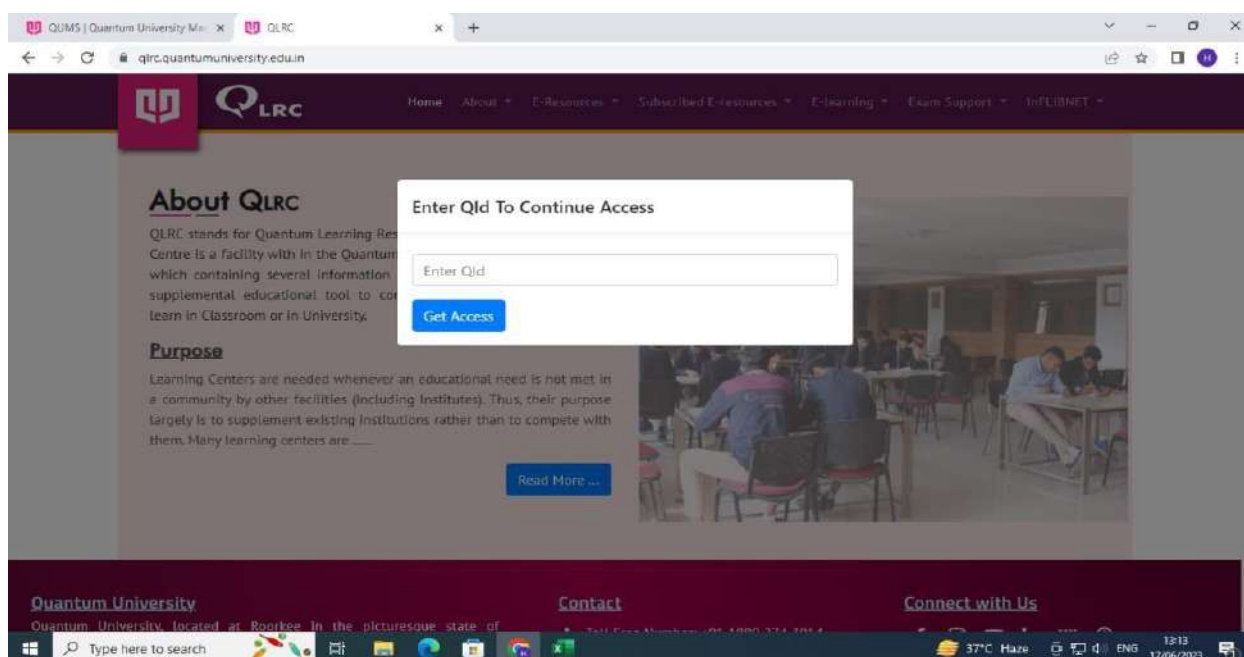
### **2.1 QLRC Homepage**

QLRC centers serve as a supplemental educational tool to complement the concepts students learn in Classroom or in University. The screenshot below displays the homepage of Quantum University's Learning Resource Center which aids the students with the resources armed with the latest collection of books, journals, magazines, e-journals, eBooks, and databases from globally known publishers. Students can access them anytime, anywhere 24x7.



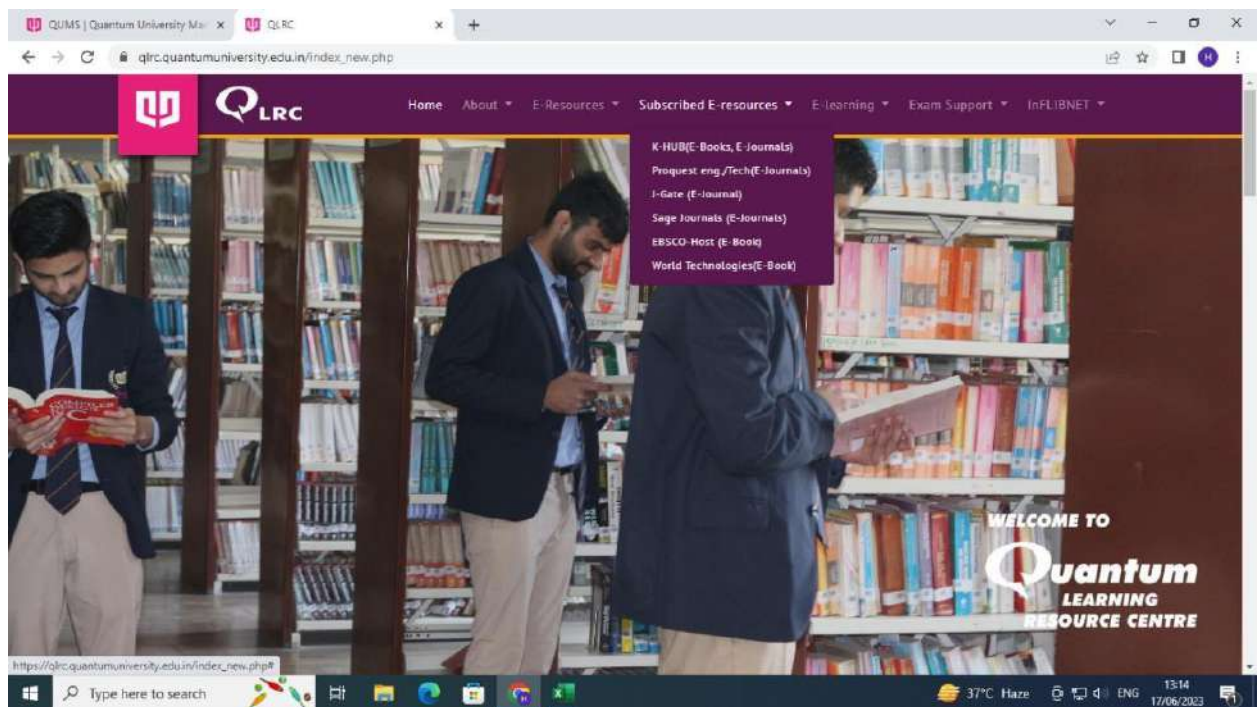
## 2.2 QLRC Login Page

The website requires a code for access, and after entering it, users are presented with a range of options such as Home, About, E-Resources, Subscribed E-Resources, E-Learning, Exam Support, etc. These options enable easy navigation and provide access to different sections and resources on the website.



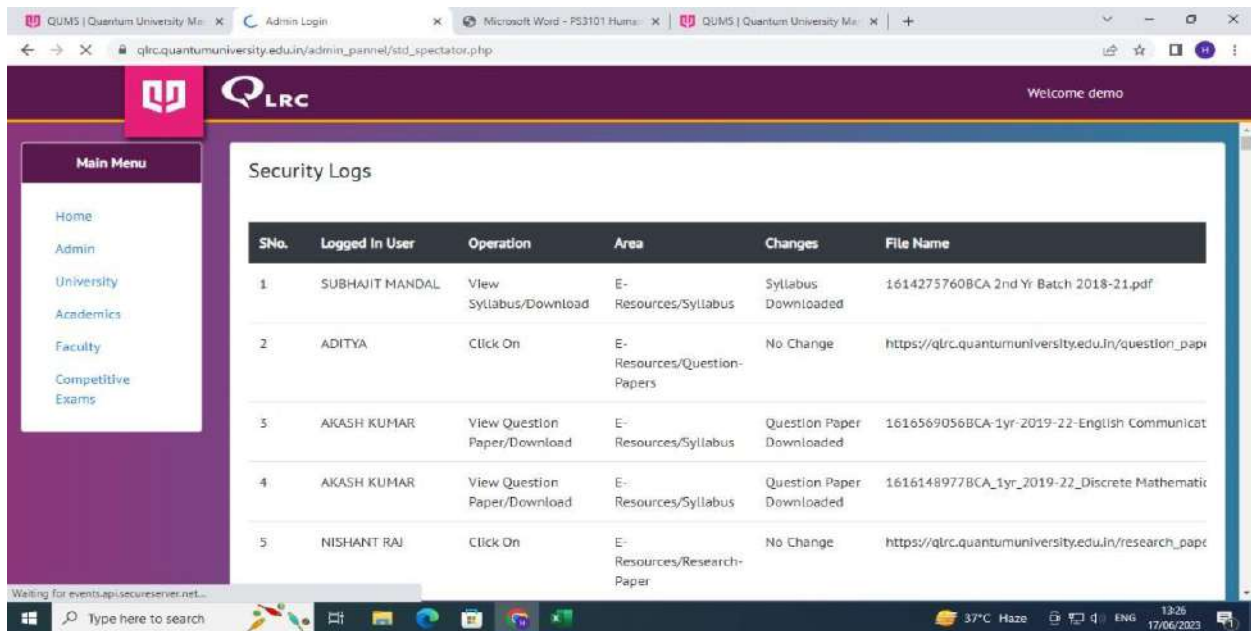
## 2.3 Subscribed Resources

The Learning Resource Center (LRC) at Quantum University includes a dedicated section for Subscribed Resources. This section grants students and faculty access to a curated collection of resources that the university has subscribed to. These resources may encompass academic journals, databases, e-books, and other digital materials that are available for educational purposes. By offering a Subscribed Resources section, the LRC ensures that users can explore and utilize high-quality, reliable, and relevant resources to support their research, studies, and scholarly pursuits.



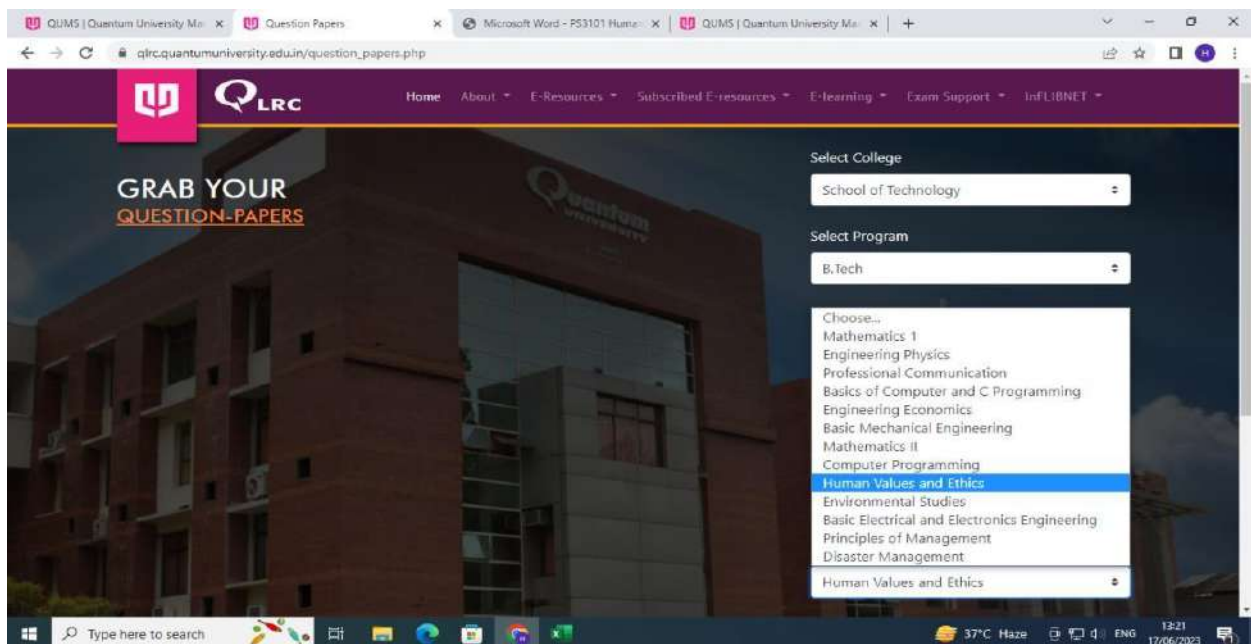
## 2.4 Student Access Logs

The administration of the Quantum Learning Resource Center holds the responsibility of recording all user access carefully and maintaining access logs. The provided screenshot illustrates key information such as the Logged in user, area, operation, changes, and file name. These logs enable the administration to monitor and track user activities, ensuring transparency, accountability, and security within the QLRC. By capturing these essential details, the administration can effectively manage access privileges and maintain a comprehensive record of user interactions within the resource center.



## 2.5 Question Paper

Within the E-Resources section, a convenient drop-down menu offers students multiple options to choose from. These options include Question Papers, Syllabus, E-Books, Journals, Research Papers, and more. It allows students to access specific resources based on their needs, enabling them to efficiently prepare for their exams. Whether they require past question papers for practice, reference books in electronic format, updated syllabi, or scholarly journals and research papers, the E-Resources section provides a user-friendly platform for students to access the materials they require to excel in their studies.



## 2.6 Admin Question Paper Module

The administration can add question papers or make changes whenever necessary to handle and manage question paper-related matters. Click the 'Academics' option on the Main Menu and you will see details related to question papers submitted. It shows Question Paper, Subject, Subject Code, Branch, Batch, Year, and Edit and Delete options.

| SNo. | Question Paper  | Subject Name                                     | Subject Code | Branch               | Batch | Year | Edit | Delete |
|------|---|--|--------------|----------------------|-------|------|------|--------|
| 1    | 16837818778.Sc (Hons.) Physics-1yr-2021-24- ELECTRICITY AND MAGNETISM.pdf         | ELECTRICITY AND MAGNETISM                        | PH3206       | B.Sc (Hons.) Physics | 2021- | 1    |      |        |
| 2    | 1616147011EE-EVT_2yr_2018-22_Electrical Measurement and Measuring Instruments.pdf | Electrical Measurement and Measuring Instruments | EE3301       | EE-EVT               | 2018- | 2    |      |        |

## 2.7 Course Files

The Main Menu section offers the staff members 'Faculty' option to access and review course files. The screenshot displays essential details such as Course File pdf and Course File Doc formats, Subject, Subject Code, Branch, Batch, and Year, providing a comprehensive overview of the course materials.

View Course File

Show 10 entries

| SNo. | Course File pdf  | View | Course File doc   | View | Subject Name                   | Subject Code | Branch | Batch   | Year |
|------|--|------|---|------|--------------------------------|--------------|--------|---------|------|
| 1    | 1629532527ME-2yr-2019-22-Applied Mechanics-PDF.pdf               |      | 1629532527ME-2yr-2019-22-Applied Mechanics-DOC.docx               |      | Applied Mechanics              | ME1303       | ME     | 2019-22 | 2    |
| 2    | 1629533644MTE-3yr-2018-22-Robotics and Vision Systems-PDF.pdf    |      | 1629533644MTE-3yr-2018-22-Robotics and Vision Systems-DOC.docx    |      | Robotics and Vision Systems    | MT3503       | MTE    | 2018-22 | 3    |
| 3    | 1629786147CSE-2yr-2019-23-Data Structure and Programming-PDF.pdf |      | 1629786147CSE-2yr-2019-23-Data Structure and Programming-DOC.docx |      | Data Structure and Programming | CS3301       | CSE    | 2019-23 | 2    |

## 2.8 E-Books

The Learning Resource Center (LRC) at Quantum University offers a diverse collection of e-books, providing students and faculty with convenient and cost-effective access to digital reading materials. The e-book collection includes textbooks, reference materials, and research publications. This digital library enhances the learning experience by offering flexibility, interactivity, and sustainability.

View E-Book/E-Link

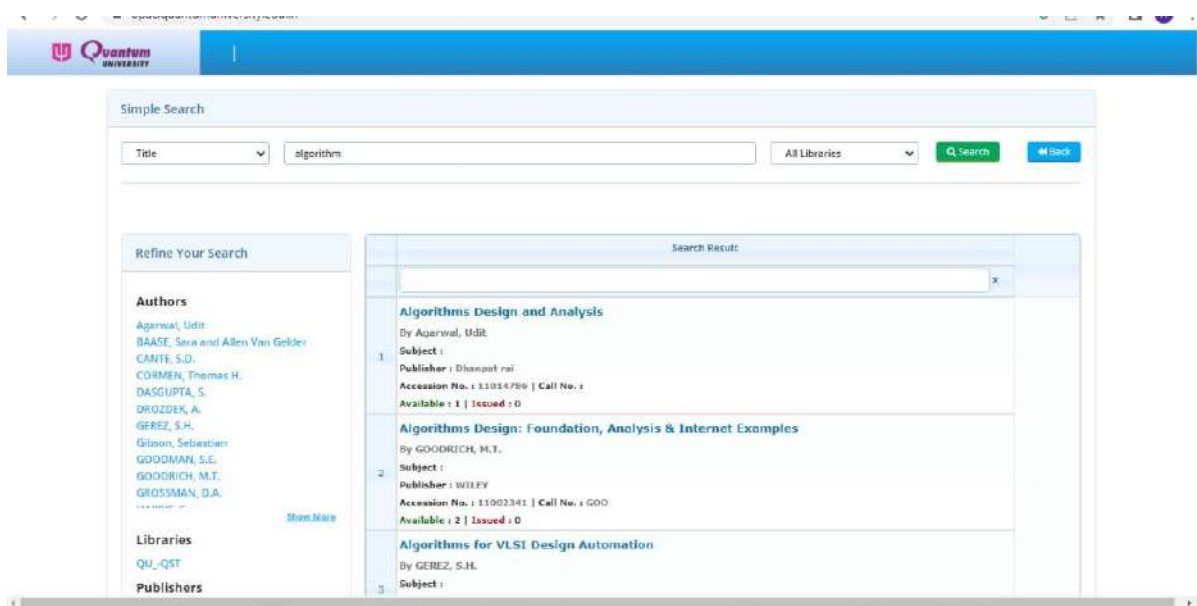
| E-Book                                 | Subject Name        | Author                   | Description   | Keywords                            | Domain                             | Type | View                 | Delete |
|--|---------------------|--------------------------|---|-------------------------------------|------------------------------------|------|----------------------|--------|
| TEXT BOOK OF ENGINEERING DRAWING       | ENGINEERING DRAWING | K VENKATA REDDY          | BS PUBLICATION  | ENGINEERING DRAWING                 | ENGINEERING DRAWING                | free | <a href="#">View</a> |        |
| APPLIED THERMODYNAMICS                 | THERMODYNAMICS      | ONKAR SINGH              | NEW AGE PUBLICATION                                     | THERMAL ENGINEERING, THERMODYNAMICS | Thermal Engineering                | free | <a href="#">View</a> |        |
| ENGINEERING DRAWING FROM THE BEGINNING | ENGINEERING DRAWING | M.F. COUSINS             | PERGAMON PRESS  | ENGINEERING DRAWING                 | ENGINEERING DRAWING                | free | <a href="#">View</a> |        |
| HEAT TRANSFER                          | HEAT TRANSFER       | JP HOLMEN                | 10TH EDITION  | HEAT                                | Thermal Engineering                | free | <a href="#">View</a> |        |
| Refrigeration and Air-Conditioning     | RAC                 | A. R. Trott and T. Welch | OXFORD AUCKLAND BOSTON JOHANNESBURG MELBOURNE NEW DELHI | Refrigeration                       | REFRIGERATION AND AIR CONDITIONING | free | <a href="#">View</a> |        |
| HANDBOOK OF AIR CONDITIONING           | RAC                 | Shan K. Wang             | McGraw-Hill   | RAC                                 | REFRIGERATION AND AIR              | free | <a href="#">View</a> |        |

## 2.9 OPAC (Anytime – Anywhere Access)

Users after entering into the library, they can check the status of the materials available in the library through the OPAC module. Computer systems are placed near the entrance of the library for checking the status of the books and the user accounts on their own.

### Web OPAC

Users can search the library material status and user accounts through WebOPAC module available in the LYBSYB software. The link is provided in the college website where user can directly login into the page and search the availability status.



Link: <https://opac.quantumuniversity.edu.in/>

## 2.10 INFLIBNET

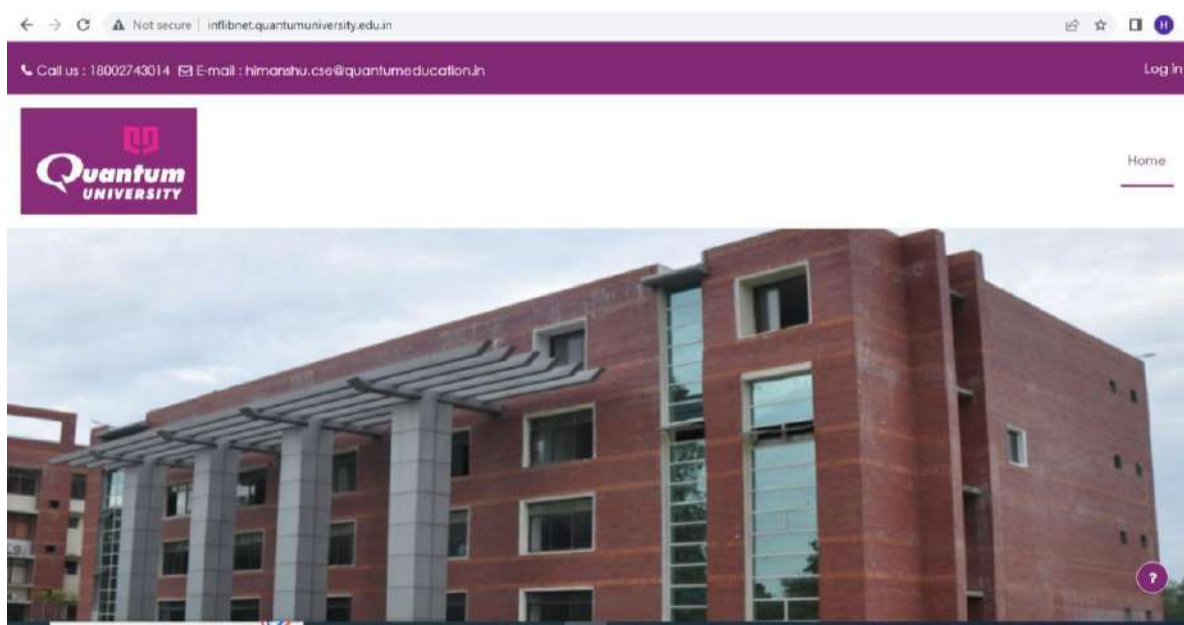
Information and Library Network (INFLIBNET) Centre is an autonomous Inter-University Centre of the **University Grants Commission (UGC)** of India. It is a major National Programme initiated by the UGC in March 1991 with its Head Quarters at Gujarat University Campus, Ahmedabad. Initially started as a project under the IUCAA, it became an independent Inter-University Centre in June 1996. INFLIBNET is involved in modernizing university libraries in India and connecting them as well as information centres in the country through a nationwide high speed data network using the state-of-art technologies for the optimum utilisation of information. INFLIBNET is set out to be a major player in promoting scholarly communication among academicians and researchers in India.

The primary objectives of INFLIBNET as envisaged in Memorandum of Association are:

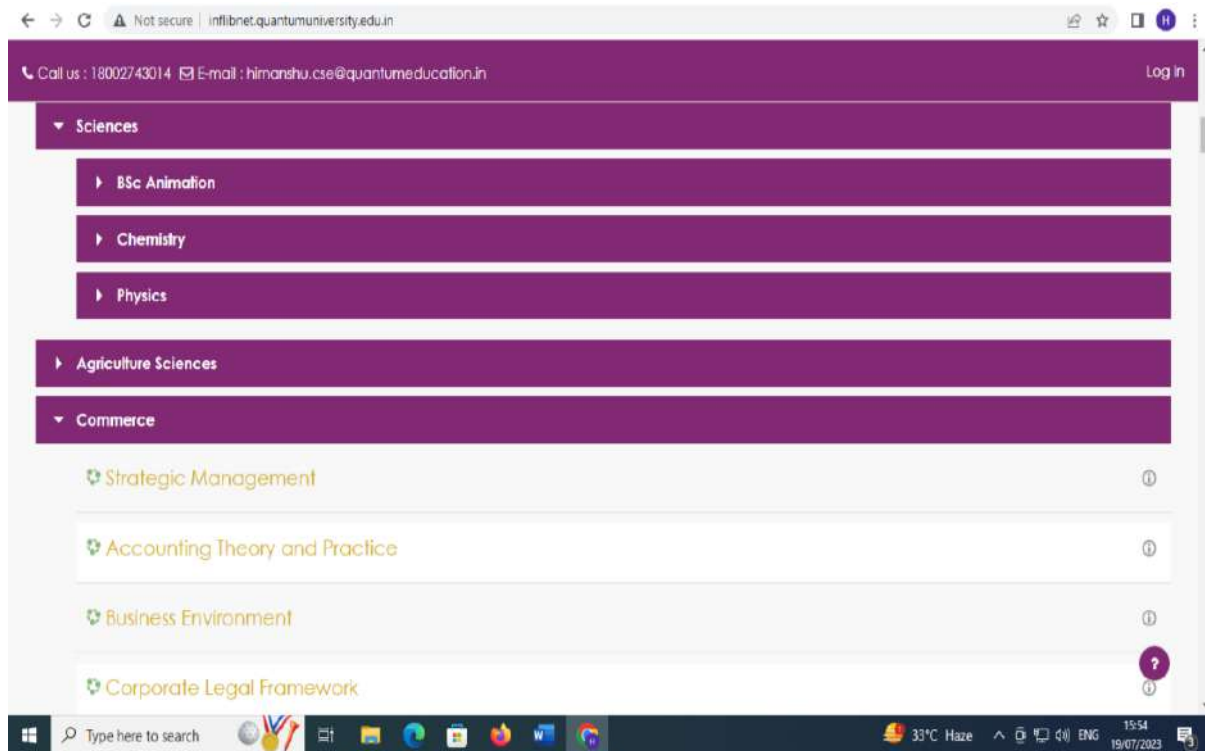
- i) To promote and establish communication facilities to improve capability in information transfer and access, that provide support to scholarship, learning, research and academic pursuit through cooperation and involvement of agencies concerned.
- ii) To establish INFLIBNET: Information and Library Network a computer communication network for linking libraries and information centres in universities, deemed to be universities, colleges, UGC information centres, institutions of national importance and R & D institutions, etc. avoiding duplication of efforts.
- iii) To facilitate academic communication amongst scientist, engineers, social scientists, academics, faculties, researchers and students through electronic mail, file transfer, computer/audio/video conferencing, etc
- iv) To undertake system design and studies in the field of communications, computer networking, information handling and data management;
- v) To establish appropriate control and monitoring system for the communication network and organize maintenance
- vi) To collaborate with institutions, libraries, information centres and other organizations in India and abroad in the field relevant to the objectives of the Centre
- vii) To promote R&D and develop necessary facilities and create technical positions for realizing the objectives of the Centre
- viii) To generate revenue by providing consultancies and information services; and
- ix) To do all other such things as may be necessary, incidental or conducive to the attainment of all or any of the above objectives.

link <http://inflibnet.quantumuniversity.edu.in/>

### **Quantum University Inflibnet Homepage**



## Quantum University Infilibnet Course page



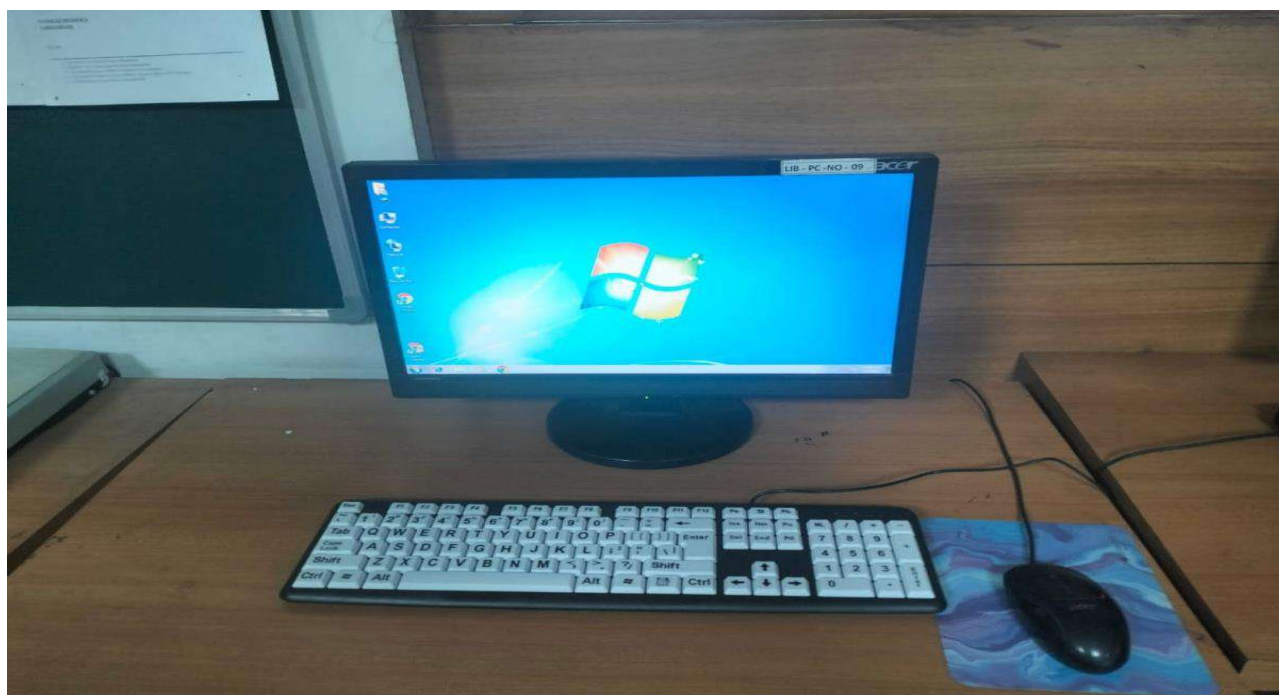
Quantum University Roorkee takes a significant leap towards inclusivity and accessibility in its library automation system with the introduction of a Braille keyboard. This innovative implementation is designed to empower visually impaired students and faculty members, fostering an inclusive learning environment.

The Braille keyboard, integrated into the library automation system, allows visually impaired individuals to interact seamlessly with the library's digital resources. With the touch-sensitive Braille keys, users can input search queries, access online catalogs, and browse electronic databases effortlessly. This enables them to retrieve information, reserve books, and renew materials independently, eliminating the need for assistance and promoting their autonomy in the library.

By embracing this technology, Quantum University acknowledges the importance of accommodating diverse learning needs. Visually impaired students can now fully engage in academic research, access e-books, academic journals, and other digital resources, thereby levelling the playing field for all users.

Moreover, the Braille keyboard is just one aspect of Quantum University's commitment to accessibility. The library is also equipped with text-to-speech software and other assistive technologies. These initiatives collectively create an inclusive and welcoming space for all members of the university community.

In conclusion, the integration of the Braille keyboard in the library automation system at Quantum University Roorkee exemplifies the institution's dedication to empowering visually impaired individuals and fostering a diverse and inclusive learning environment. Through this progressive approach, Quantum University sets an inspiring precedent for other academic institutions to follow.



## E-Journal Access Section



Quantum University Roorkee takes a leap into the digital age with its state-of-the-art E-Journal Access Section, a pivotal component of the library automation system. This cutting-edge platform provides students, faculty, and researchers with seamless access to an extensive collection of electronic journals, advancing academic pursuits and research endeavours.

The E-Journal Access Section offers a user-friendly interface, enabling users to browse through a vast array of scholarly publications from various disciplines. With just a few clicks, researchers can explore the latest research, groundbreaking discoveries, and peer-reviewed articles, enhancing the quality and depth of their academic work.

This section not only supports convenience and efficiency but also facilitates interdisciplinary research. Through its intelligent search algorithms, users can easily cross-reference topics, access related journals, and discover valuable resources they may not have encountered through traditional means.

Quantum University recognizes the paramount importance of staying up-to-date with the latest developments in various fields, and the E-Journal Access Section plays a pivotal role in achieving this goal. Furthermore, it promotes sustainability by reducing the need for physical journals, thereby contributing to the university's commitment to environmental conservation.

In conclusion, the E-Journal Access Section in Quantum University Roorkee's library automation system demonstrates the institution's dedication to fostering a dynamic and forward-thinking academic environment. By embracing digital advancements, the university empowers its academic community with unparalleled access to knowledge, ultimately driving innovation and scholarly excellence.