

CHAPTER - 7

UNIVERSITY LIBRARY & INFORMATION TECHNOLOGY

7.1 University Library

i. Reference Services



The Library is one of the most important centers of the University, which facilitates the teaching, research and extension programme. Both students and faculty extensively use the facility. The Junagadh Agricultural University has given key prominence to the development of the library facilities at the headquarters as well as the constituent colleges and research stations. Books, periodicals, theses, reports, maps and encyclopedia relevant to the mandate areas of the university have been stacked in the University Library and its constituent centre. Our library provides services to five constituent colleges, which come under Junagadh Agricultural University, viz., College of Agriculture, Junagadh, College of Agriculture Engineering & Technology, Junagadh, College of Veterinary & Animal Husbandry, Junagadh, Post Graduate Institute of Agri. Business Management, Junagadh, College of Horticulture, Junagadh, College of Fisheries, Veraval. Polytechnic in Agro- Processing, Junagadh, Polytechnic in Horticulture, Junagadh.

Collection:

We have a rich library with double storeyed stack room with capacity of 1.5-lakh books. Our library possesses around 46,703 books. These books are very valuable and are helpful to students &

facilities in their studies, research and for preparation of different competitive examinations. Our library provides Indian & Foreign journals and 14,000 back volumes. Library has valuable books, which are helpful to students in different competitive exams.

Online Access of Journals :

University library is privileged with the Online access of Journals through Consortia for e-Resources in Agriculture (CeRA), a Project by ICAR, New Delhi. JAU users can access the references of Journals.

Cyberary:

Efforts have been made to keep abreast of information technology and introduce modern systems of library management and service. Cyberary in two different well furnished cells with 40 workstations. Cyberary with 100 mbps LAN connectivity facilitates for students with databases like CAB, AGRIS, AGRICOLA which are obtained through CD-ROM version. This has facilitated a tremendous improvement in the usage of library for referencing purposes as full time internet facility, scanning and CD writing are also available for the students in the Cyberary. *Krishiprabha* online agricultural doctoral theses database and J-Gate is also available online.

The internet access through BSNL with 100 mbps connectivity and existing database facilities enabled students to update their General Knowledge along with latest information in their respective disciplines. This facility is being extensively utilized by both faculty and students on a average of daily 80 to 100 users for about 12 hours per day. This has facilitated and achieved tremendous improvement in the usage of library for referencing purposes especially by the research students and staff.

Mechanism to Access books, Journals, Theses, etc. :

University Library has adopted open access system with card catalogues (Author, subject and Title) and Dewey Decimal Classification Scheme.



These are also available in soft copies for the access of the users.

University Library is kept open from 8.00 a.m. to 6.10 p.m. during working days while the Cyberary section of the library remains open from 8.00 a.m. to 8.00 p.m. Outsiders are permitted to consult the Library.

Book Bank:

There is a Book Bank from which students who are the members of the library can borrow books on rental bases, in addition to borrowing facilities from the general collections. Reading materials which are useful for competitive examinations, are maintained separately in the Library and the students appearing for competitive examinations can refer them in the Library.

Apart from the routine services like lending, reference, book bank the University Library provides computer and photocopier services to students. In addition, the Library also compiles bibliographies and reading lists on demand and project oriented documentation services.

7.2 Information Technology

i) Network Services

Sustained efforts have been made to improve and harness the latest Information Technology techniques to provide errorless network services to the university and its constituent colleges. The university campus network is well connected with its on-campus and off-campus offices for providing network services. These services include internet, e-mail, research references data base access, online accounting, online tour, online PF, online JAU circulars, video conferencing and other IT services. These services are very extensively used by the university students, faculty and staff for their learning, research, teaching, extension education and administrative activities.

This year one more feather in the university's cap was added with implementation of high speed bandwidth of 100 MBPS, provided by Department of Information Technology, Ministry of Communication

and Information Technology, Government of India, New Delhi under National Knowledge Network (NKN) project. With this high speed backbone support under NKN, JAU is now connected to the knowledge and research institutes in the India. NKN will encourage and enable us the use of specialized applications, which allow sharing of high performing computing facilities, e-libraries, virtual classrooms and large databases.

The university IT centre is also connected with BSNL for 4 MBPS leased line connectivity. Under National Mission on Education through Information and Communication Technology (NME-ICT) Scheme of Ministry of Human Resources Development, Government of India broad band connectivity of 10 MBPS has been made available to the two on-campus colleges and one off-campus college. The university is also connected to Gujarat State Wide Area Network (GSWAN), Gandhinagar through radio connectivity for accessing online Government's programmes.

Google Apps at university has been made available to the students and faculties from last year. More than 2,000 faculties and students are using the new Google Apps for storing their documents in Google Drive and email messages in JAU Gmail. IT cell of the university fully supports the new Google Apps. These new accounts provide students and faculties with 30GB of individual storage for their email and documents. The accounts also offer access to a variety of collaboration applications, including Google Calendar and Drive for document sharing. All the users have the ability to access Google Apps tools from all over the world on a variety of devices 24 hours a day.

ii) Beneficiaries

Robust network with fully redundant network infrastructure has been established at university to provide network services to staff and students of the university. The coverage of the University Campus Network is extensive with more than 500 network points and over 20 wireless access points. This state-of-art networking environment of the JAU has made a

remarkable impact in the work culture and mind-set of students, scientist / teachers and administrative staff. Google Apps are used by more than 2,000 faculties and students for storing their documents in Google Drive and email messages in JAU Gmail.

iii) Training

Every year the students and faculties of the university are trained by IT cell to make best use of the facilities provided through network services. Trainings on fundamental aspects of operating computer system as well as operating online programmes are given to the university staff very frequently.

iv) Network Implementation and Management

University has installed a highly secured architecture with Firewall, IDS (Intrusion Detection System), IPS (Intrusion Prevention Systems), Content filtering *etc.* The coverage of the University Campus Network is extensive with more than 500 network points and over 20 wireless access points. Wi-Fi connectivity is available in College of Agril. Engg. & Technology, University Administrative Building (University Bhavan), Food Testing Laboratory (FTL), Information Technology Cell, VIP Guest House and Girls Hostels of main campus. International Hostel and all PG Boys' Hostels are also connected with campus LAN for providing Wi-Fi connectivity to the students.

The Information Technology Cell (IT Cell) of the University is responsible for installation and maintenance of the network. The network is continuously monitored and the problem, if any, is attended and rectified.

v) Reference Services

All the available e-Resources in agriculture *viz.*, CAB, AGRIS and AGRICOLA are provided through LAN by ITC in collaboration with the University Library to UG/PG students for their research projects and to university personnel engaged in research and teaching work. This enables the user to get quick information through computer on any reference related to agricultural research through

network. In addition to this the online access to Consortium for e-Resources in Agriculture (CeRA) is made available by IARI, New Delhi, for accessing National and International Journals. *Krishi Prabha* an online doctoral theses facility of All India Agricultural University from HAU, Hisar is also available. J-Gate online database is also provided to the users. This has made the reference services very fast and has saved a lot of time of the scientists and the students.

vi) University Web Site

The web site of the university is hosted in our own servers at IT Cell with a registered domain name www.jau.in. The web site contains commonly required information for the students, faculty, researchers, staff and farmers. These information are related to education rules and regulations, scholarships, library facilities, students results, medals, important announcements/events, university circulars, tenders, advertisements, RTI, Farmers' corner and current news regarding the events of the University. Other information related to research, research recommendations, new varieties released, university publications, MoUs, extension education activities are also made available on the website. The web site is maintained and updated regularly during the year.

The information in vernacular language kept on university website with the aim at providing information to the farmers on various activities of the university in the agriculture field so as the farmers are able to make proper and timely use of the available information.

vii) Leased Line Connectivity

A high speed bandwidth of 100 MBPS has been obtained from Railtel under NKN project for internet, e-mail and other network services. The university IT centre is also connected with BSNL for 4 MBPS leased line connectivity. Under National Mission on Education through Information and Communication Technology (NME-ICT) Scheme of Ministry of Human Resources Development, Government of India broad band connectivity of 10 MBPS has been

made available to the two on-campus colleges and one off-campus college. The university is also connected to Gujarat State wide Area Network (GSWAN), Gandhinagar through radio connectivity for accessing online Government's programmes.

viii) Qualified Personnel

All the services at IT Cell are managed by qualified / trained IT personnel of the university.

ix) Visitors

The ITC has been visited by a number of eminent persons who have appreciated the activities in fullest terms. The students of IT courses of various colleges of Junagadh city are taking frequent visit as a part of their project work. They have recognised JAU a front-runner in IT activities

