

Chapter - VII



UNIVERSITY LIBRARY & INFORMATION TECHNOLOGY



7.1 University Library

The University Library acquaints services to the scholars, scientists and extension activists under 8 constituent colleges as well as research stations and extension education centres of Junagadh Agricultural University, Junagadh.



Collection:

The University Library possesses around 54500 books. These books are very valuable and helpful in studies, research and preparation for competitive examinations. It provides 5 Indian & 14 foreign journals and around 16000 back volumes.

Services:

Cyberary with 100 mbps LAN connectivity facilitates users to access online database like J-Gateplus (Complete) online which has full text journals. Our library already has 441 e-books and this year we have subscribed 64 more e-books, Facility by ICAR for foreign Journals through Online Access of Journals through Consortium for e-Resources in Agriculture (CeRA) and KRISHIKOSH are available and CD-ROM databases like CAB, AGRICOLA,

AGRIS with latest data are available for the users. All the theses of different disciplines of the University and few rare books are digitized so that they can be preserved and when need arises can be available for reference to the users in future. The University Library is fully automatized after the implementation of RFID system. Full time internet, scanning and CD writing facilities are available for the students in the Cyberary in which there are 40 work stations with internet access. These facilities are being extensively utilized by both faculty and students on an average of daily 200 to 250 users for about 12 hours per day. Students are provided with books of their concerned



subject of their respective semesters through BOOK BANK facility, 35 more books were purchased of agricultural faculty for the book bank. Library subscribes 10 news papers to acquaint users with daily news.

The library renders its services to the users from 8:00 to 18:30 h and cyberary renders its services from 8:00 to 20:00 h. A separate Air Conditioned Reading Room is developed with the best facilities as well as





good ventilation and aeration. This AC reading room accommodates approximately 100 students. The Reading Room remains open for its users from 8.00 to 23.00 hours on working days whereas 8.00 to 13.00 hours on holidays.

7.2 Information Technology



Introduction

Junagadh Agricultural University (JAU) has established dedicated Information Technology Cell with an aim to provide Information Technology (IT) resources and services to its students, faculties, research scientists, extension officers and staff.

Junagadh Agricultural University has made the remarkable progress to incorporate online systems for administration and education. This information is provided online through portal “JAU Information Online”. It also includes answers of questions asked by farmers to the scientist, weather based agro-advisory, education in agriculture field, video gallery, etc. A help centre to verify application of students under “*Mukhyamantri Yuva Swavalamban Yojana (MYSY)*”, a scheme for scholarship, which has been started by Government of Gujarat is also run by IT Cell.

The university has well equipped IT cell with highly qualified manpower and high end IT resources. IT resources and services provided by the University through IT Cell include uninterrupted high-speed internet access within campus as well as in sub centers located outside the university area.

To make governance more transparent, the purchases through Government eMarketplace (GeM)

by Government users have been authorised and made mandatory by Ministry of Finance by adding a new Rule No. 149 in the General Financial Rules, 2017. For the university purchases through GeM, IT Cell has developed online solution for registration and user management.

1. IT infrastructural facilities at IT Cell

IT Cell is equipped with high end equipment and computing devices such as servers, workstations, firewall, routers, computer systems and many other resources. IT Cell has also well-established University Video Conference Hall which is equipped with high end video conferencing devices and three large interactive displays.

2. High-speed Internet Access

JAU has total 260 Mbps dedicated 1:1 Internet Lease Line (ILL) connectivity through different internet service providers. This includes 100 Mbps 1:1 Internet Leased Line (ILL) through Railtel under National Knowledge Network (NKN) that encourages the usage of specialized applications, which allows sharing high performing computing facilities, e-libraries, virtual classrooms and large databases, 25 Mbps 1:1 ILL from BSNL and 135 Mbps 1:1 ILL from Ishan.

Centralized Network Solutions Using WAN (Subcenter Connected with Campus) located outside 25 subcenters of the University are also connected to the campus network. Thus, the University sub-centers are connected through a firewall with a network with campus through a lease line. So that sub-centers can be used under the supervision of Internet facilities.

3. JAU IT Network and Surveillance Setup

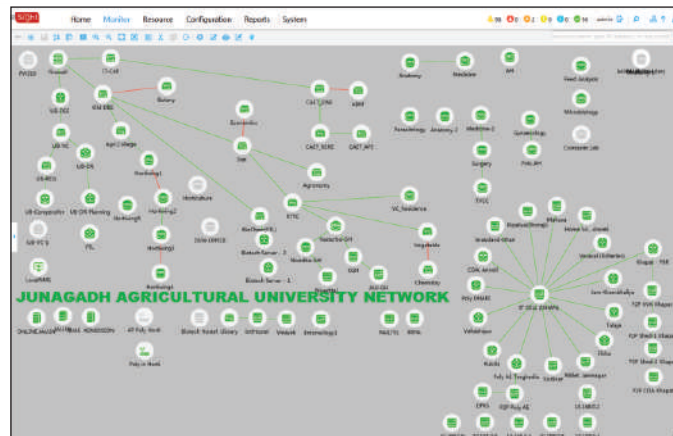
University has installed highly secured network architecture with Firewall, IDS (Intrusion Detection System), Analyzer, Content filtering etc. The coverage of the University Campus Network is extensive with more than 1000 network points and over 50 wireless access points. Network Management Software is being used for continuous network monitoring and fault detection and its solutions.



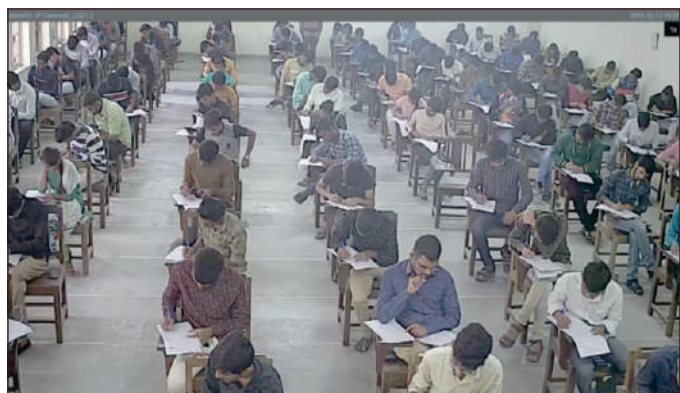
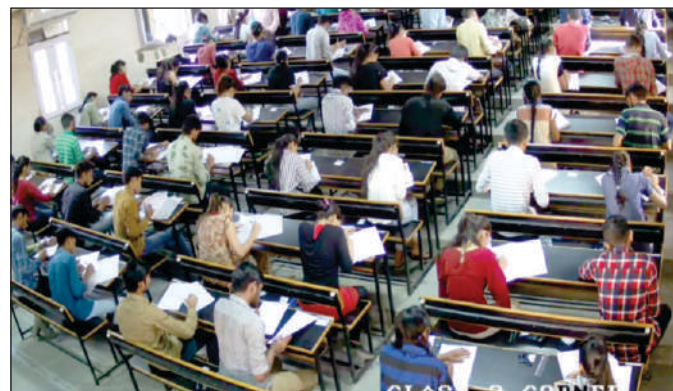


Moreover, more than 6500 mt. fibre cable is laid down to provide high speed network connectivity. The University is also connected to Asia's biggest network “Gujarat State wide Area Network (GSWAN), Gandhinagar” through optical fibre connectivity for accessing online Government's programmes.

University has well established surveillance setup, which includes more than 750 CCTV cameras and central monitoring system. Monitoring rights is also given to respective Colleges / Units for the CCTV cameras of their premises.



JAU IT Network Layout



CCTV Surveillance System

4. Network Services

University provides Wi-Fi access through more than 50 wireless access points at various colleges, departments, hostels and university canteen. Intranet has been setup for the university users to access various useful freeware software and services like Online Circular Management System, Billing and Accounting, HRD/Tour Management System,

Provident Fund (PF) Management, IT Asset Management Solutions, Salary Management, Online Management for “Mera Gaon Mera Gaurav (MGMG)” Scheme of Government of India, IT Grievance System, Information Retrieval System (IRS), Job Application System, Centralized Network Solutions using WAN (Sub centers Connected with Campus), Online Fee Collection System, eLearning





Solution for students, Online Placement Solution, Online Alumni Management System, Online Mock Test System and many other services. IT Cell also manages various Google Apps through which users can access various Google services like Gmail, Google Drive, and Video Conferencing through Hangout etc.

For the farmers also some of the systems are developed by IT Cell, which includes online weather update, online allocation system for coconut sapling, FAQs for farmers, etc. A portal is developed to archive the programmes broadcasted through Community Radio Station (Junagadh Janvani) of JAU and to display various activities carried out under “Junagadh Janvani” programme. These archived programmes are accessible at any time by visiting the portal. Agriculture related information is provided to the farmers through various Kiosks placed at “Krushi Darshanalay”.

In-house Developed Programmes :

- **Online IT Asset Management Solutions:**
Online process of technical recommendation towards purchase, repair and write-off of IT items become faster.
- **Online Fee Receipt Software:**
Students can get computerized receipts and accurate accounting can be obtained at the college.
- **Information Retrieval System (IRS):**
University Staff are doing the Research work (like paper publishing, book publishing, conference processing, etc.). Developed Information Retrieval System (IRS) helps in updating research publication related information of an employee regularly, which helps the university to analyze fresh information and use it properly.
- **Junagadh Janvani Radio Station:**
A portal is developed to archive all the broadcasted programmes and to display various activities carried out under “Junagadh Janvani” programme. This archived programmes are accessible at any time by visiting the portal.

- **JAU Information Online App:**

Agriculture related information are provided to the farmers through various Kiosks placed at “KrushiDarshanalay”. These information are also provided online through portal “JAU Information Online”. It also includes answers of questions asked by farmers to the scientist, weather based agro-advisory, education in agriculture field, video gallery, etc.

5. 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



e-Resources facilities for UG/PG students





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 an online access to Consortium for eResources in Agriculture (CERA) is made available for accessing National and International Journals. *KrishiPrabha* an online doctoral theses facility of All India Agricultural University from HAU, Hissar 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.

6. Beneficiaries

A permeating network access environment with wired and wireless network connectivity has been established for seamless IT access to University faculty, staff and students for education, research and extension activities. University Examination Hall is also used by various colleges for their placement activities as well as for online examinations. The facilities created under Online Examination System (OES) are very often used for recruitment of various vacancies at JAU, which is more transparent due to real-time announcement of results.



Ultra-Modern JAU Online Examination Hall





7. Training

University IT Cell conducts training on use of computer and internet access for availing agricultural related information to rural women at regular interval. The faculties and students 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.

IT Cell also conducts various other trainings for University staff whenever digital initiatives are implemented by the University such as training for Online Salary, Online Fee Collection System, Online Admission, procurement through Government e-Marketplace (GeM), and many others.

8. University Web Site

The web site of the University is hosted in University's own server 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. This information is 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 and hence farmers are able to make proper and timely use of the available information.

9. Qualified Personnel

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

10. Visitors

The IT Cell 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.



