

**CHAPTER****8****Strengthening Technological Infrastructure****Faculty of Arts & Humanities****CENTRE FOR SOUTH ASIAN STUDIES**

- **Digital Library**
  - Yes
- **Campus Management Solution**
  - All results of CSAS are uploaded in CMS.
- **Web Portal**
  - Yes

**DEPARTMENT OF ARCHAEOLOGY**

- **Campus Management Solution**
  - Data is being upgraded with the CMS regularly in respect of this Department.

**DEPARTMENT OF ENGLISH LANGUAGE & LITERATURE**

- **Campus Management Solution**
  - Almost all the results, result cards, academic transcripts and final transcripts are prepared on the CMS. CMS is actively operational in the Department.

**DEPARTMENT OF PHILOSOPHY**

- **Digital Library**
  - Synchronization with PU main Library for the use of digital library facilities to our students is under the way.
- **Campus Management Solution**
  - Almost all the results, result cards, academic transcripts & Final transcripts are generated from the CMS. CMS is 70-80% operational in the department.
- **Web Portal**
  - Updated information regarding our Department is available at pu.edu.pk

**PAKISTAN STUDY CENTRE**

- **Digital Library**
  - Centre provides electronic access to Punjab University's Main Library and HEC Digital Library through its computer lab for students and researchers.
- **PERN**
  - The Centre is connected to PERN which is a national research and education network of Pakistan which connects premier educational and research institutions of the country.



- **Campus Management Solution**
  - Implementation of Punjab University's Campus Management Solution has been accelerated and required key information have been updated in the CMS system.
- **Web Portal**
  - Salient features and significant information about the Centre have been made available and updated on the Punjab University's website regularly. Soft-copies of the latest issue along with previous issues of the research journal Pakistan Vision are also available on the said website.

### **Faculty of Behavioral & Social Sciences**

#### **DEPARTMENT OF GENDER STUDIES**

- **Digital Library**
  - Working to convert the old system into new software
- **Campus Management Solution**
  - Trained the staff on handling the CMS. Presently entering data directly into the New software CMS
- **Web Portal**
  - Strengthening the website of the Department. Planning to start on-line short courses.

#### **DEPARTMENT OF SOCIAL WORK**

- Department has provided New Computers to all faculty members and offices.
- Department is also working on Campus Management Solution

#### **INSTITUTE OF SOCIAL & CULTURAL STUDIES**

- **Digital Library**
  - The ISCS has access to digital library through Punjab University library.
- **PERN**
  - The ISCS utilizes the facility of online journals, online research resources through Punjab University digital library using PERN band width.
- **Campus Management Solution**
  - The ISCS on a regular basis updates its semester results and admission records through Campus Management Solution of Punjab University
- **Web Portal**
  - Punjab University IT Centre is providing NSSA (National Student Software Accessibility) Web Portal Service with the collaboration of HEC & Microsoft to all the faculty members and students of the University including this Institute.



## Faculty of Economics & Management Sciences

### **DEPARTMENT OF ECONOMICS**

- **Campus Management Solution**
  - Presently in operation
- **Development of Online Admission System**
  - In progress

### **DEPARTMENT OF LIBRARY & INFORMATION SCIENCE**

- **Digital Library**
  - The teachers and students make extensive use of HEC online sources to fulfill their academic and research needs.
  - The Department has developed its own digital library which is accessible on the intranet to the faculty and researchers
- **Campus Management Solution**
  - The department has been entering its data in CMS and the work is in progress. A KPO has been deputed to work on this task.
- **Development of Online Admission System**
  - We made use of the system as per requirement

### **INSTITUTE OF ADMINISTRATIVE SCIENCES**

- With the objective of making students well versed in usage of information technology and to enhance their computer literacy skills, IAS has well equipped computer laboratories which cover an area of 4800 square feet. IAS has two well-equipped computer laboratories offering state of the art networking and IT facilities. These labs are equipped with 250 computers with contemporary softwares like MS Office, SPSS, Corel Draw, Adobe etc. A strong anti virus software named NOD 32 is installed to prevent viruses from attacking the systems. Instructions/guidelines for the users regarding safety regulations or alike have been displayed on the lab notice boards. In addition, we equip our students with the usage of IT by offering multiple courses throughout their stay at IAS. In addition, we have developed software for online evaluation of teachers through students and installed CMS for annual academic activities and our website is fully functional and updated regularly for on line information and services. It can be reached at : [ias.pu.edu.pk](http://ias.pu.edu.pk)

### **INSTITUTE OF BUSINESS ADMINISTRATION**

- **Campus Management Solution**
  - Campus Management Solution has been accelerated and required information have been uploaded in the CMS system.



### **INSTITUTE OF BUSINESS & INFORMATION TECHNOLOGY**

- Fully equipped four computer labs are available for students with full time internet facility. More than 350 computers with latest available specs are available in computer labs for students, faculty members and staff working in IBIT.
- There were 3699 books in the departmental library along with 96 MBIT Thesis and 791 Reports. The institute is using maximum modern facilities such as computer hardware and software, internet, and multimedia equipment. Institute has its own website: [www.ibitpu.edu.pk](http://www.ibitpu.edu.pk)
- Institute is managing its data on Campus Management System. Institute has its own online admission system which is being used for the last 5 years and students can submit their admission form online and the merit list and prospectus of the institute is also available online.

#### **Faculty of Education**

### **DEPARTMENT OF SPECIAL EDUCATION**

- **Campus Management Solution**
  - Yes

### **INSTITUTE OF EDUCATION & RESEARCH**

- **Digital Library**
  - Partially
- **Video Conferencing**
  - Yes
- **Campus Management Solution**
  - Yes

#### **Faculty of Engineering & Technology**

### **INSTITUTE OF CHEMICAL ENGINEERING & TECHNOLOGY**

- **Digital Library**
  - The institute is currently being benefited from the digital libraries hosted by the HEC, PU main library.
- **PERN**
  - Faculty members are encouraged to be active in utilizing the features of PERN.
- **Video Conferencing**
  - The Institute is utilizing video conferencing facility of the university on need basis.
- **Campus Management Solution**
  - The institute has implemented the Campus Management solution for managing student enrollment and examinations. Most of the faculty members have been using Turnitin software for the publication. All MS thesis are mandatory to be tested for plagiarism by this software.



- **Web Portal**
  - The Institute has a shared web portal with University of the Punjab.

### Faculty of Islamic Studies

#### **SHEIKH ZAYED ISLAMIC CENTRE**

- **Digital Library**
  - Sheikh Zayed Islamic Centre is providing the digital library facilities to the students with the help of University Digital Library System.
- **Video Conferencing**
  - Video Conferencing facilities are available in the Language Lab. of the Centre.
- **Campus Management Solution**
  - The Centre is using Campus Management Solution for different categories i.e. admission, Examination, Hostel and Finance. The trained staff is available for implementation of Campus Management Solution.
- **Web Portal**
  - University of the Punjab is providing the Web portal to the Centre. All the information related to the Centre is available on the University Web Portal.

### Faculty of Law

#### **PUNJAB UNIVERSITY LAW COLLEGE**

- **Campus Management Solution**
  - Yes

### Faculty of Life Sciences

#### **CENTRE FOR CLINICAL PSYCHOLOGY**

- **Campus Management Solution**
  - CMS is used for the admissions, results and accounts related activities.
- **Web Portal**
  - Information regarding Centre is available on Punjab University Web Portal.
- **Development of Online Admission System**
  - In future admissions will be conducted through online admission system through CMS.

#### **CENTRE OF EXCELLENCE IN MOLECULAR BIOLOGY**

- **Digital Library**
  - Digital library resources are available in the Centre as well as in the hostels for the students and faculty members.



- **PERN**
  - PERN 2 is operational for wired and wireless internet as well as intranet
- **Video Conferencing**
  - Polycom VSX-7000 video conferencing solution is available for national and international communications.
- **Campus Management Solution**
  - Awaiting CMS deployed by the University of the Punjab.
- **Web Portal**
  - Website is available for the Centre <http://www.cemb.edu.pk>

### **DEPARTMENT OF MICROBIOLOGY & MOLECULAR GENETICS**

- **Campus Management Solution**
  - Complete record of departmental students has been updated in CMS. Five office staff is continuously working on it.

### **DEPARTMENT OF ZOOLOGY**

- **Campus Management Solution**
  - Work is being done and an official has been assigned duties of CMS.
- **Development of Online Admission System**
  - Work is being done and an official has been assigned duties of CMS. (data attached in CMS formate)

### **INSTITUTE OF APPLIED PSYCHOLOGY**

- **Digital Library**
  - At present, Institutional students are given access to Digital Library of HEC. The Digital Services of the Punjab University Main Library are also accessible from the webpage of the University. Digital Access is provided free of cost to almost world famous journals/e-books i.e. full access to JSTOR, Science Direct, EBSOHOST, IEEE etc.
- **PERN**
  - Digital Services being provided by the University is based on PERN. This project is also supporting the students in their research activities as non-stop access to internet is given to the students through cable and Vi-Fi connections.
- **Video Conferencing**
  - Presently institute strongly feels need of Video Conferencing facility and aims to develop infra structure for the same.
- **Campus Management Solution**
  - Campus Management Solution (CMS) is also in progress and all the data of the students is entered in this database.



- **Web Portal**
  - The Administration of the Institute in collaboration with University IT department is in the process to have one dedicated webpage for the Institute. In this regard some paper work has already been done on development of alumnus portal.
- **Development of Online Admission System**
  - Presently there is no provision of online admissions in the institute. In near future this institute is planning to have online admission system which will facilitate the general public in meeting admission process more easily.

### **INSTITUTE OF BIOCHEMISTRY & BIOTECHNOLOGY**

- **Digital Library**
  - Under process
- **PERN**
  - Yes
- **Video Conferencing**
  - Yes
- **Campus Management Solution**
  - Under process
- **Web Portal**
  - Yes
- **Development of Online Admission System**
  - Under process

### **Faculty of Sciences**

### **CENTRE FOR HIGH ENERGY PHYSICS**

- **Campus Management Solution**

We have worked on the following modules:

  - Admissions
    - Additions of applications
    - Matriculation (Terms activation, Scheduling of courses)
    - Enrollment (Creation of students and class blocks, Assignment of courses to students)
  - Examinations
    - Block Merging.
    - Grading and Preparing Grade Roasters of different terms.
  - Hostel Management
    - Additions of Students of Year 2010.



- Finance
  - In progress

### **CENTRE FOR INTEGRATED MOUNTAIN RESEARCH**

- CIMR has recently computerized all offices and facilitated students with latest computer laboratory which possess computers containing latest software
- Class rooms are facilitated with latest Multimedia projectors for teaching purpose.
- Following instruments are the part of sophisticated laboratory in the CIMR
  - Shaker (1 No)
  - Oven (1 No)
  - Microscope (2 No)
  - Air Quality Meter (1 No)
  - Sound Meter (1 No)
  - Dissolved Oxygen Meter (1 No)
  - Anemometer (1 No)
  - pH meter (1 No)
  - Light Meter (1 No)
  - Balance (1 No)
  - Turbidity Meter (1 No)
  - Flam Photometer (1 No)

### **CENTRE FOR UNDERGRADUATE STUDIES**

- **Digital Library**
  - Under process
- **Video Conferencing**
  - Fully functional
- **Campus Management Solution**
  - Under process
- **Web Portal**
  - Under process

### **COLLEGE OF EARTH & ENVIRONMENTAL SCIENCES**

- **Digital Library**
  - Efforts are being made to convert the college library to a digital library. The whole data of books has been computerized upto now.
- **Campus Management Solution**
  - A CMS committee consisting of five members is continuously updating the data of the college in CMS





- **Web Portal**
  - A website committee headed by Mr. Muhammad Kamran keeps updating the website of the College on the University Portal. There is a plan to develop an official website of the college.
- **Development of Online Admission System**
  - Yet not achieved.

### **COLLEGE OF STATISTICAL & ACTUARIAL SCIENCES**

- **Digital Library**
  - Synchronization with PU Main Library for the use of digital library facilities to our students is under the way.
- **Video Conferencing**
  - Presently not in operation, however, equipment & techniques are available in the College
- **Campus Management Solution**
  - Almost all the results, result cards, academic transcripts & Final Transcripts are generated from the CMS. CMS is 75-80% operational in the College.
- **Web Portal**
  - Updated information regarding our College is available at pu.edu.pk

### **DEPARTMENT OF GEOGRAPHY**

- **Digital Library**
  - Yes
- **PERN**
  - No
- **Video Conferencing**
  - Yes
- **Campus Management Solution**
  - Yes
- **Web Portal**
  - Yes
- **Development of Online Admission System**
  - Yes

### **DEPARTMENT OF MATHEMATICS**

- **Campus Management Solution**
  - Yes

### **DEPARTMENT OF PHYSICS**

- **Digital Library**
  - Synchronization with the PU Main Library to avail digital library facilities available is in process.



- **Campus Management Solution**
  - Almost all the examination results, result cards, academic transcripts & final transcripts are generated from the CMS. The CMS is 70-85% operational in the Department.
- **Web Portal**
  - Updated information regarding our Department is available at [www.pu.edu.pk](http://www.pu.edu.pk)

### **PUNJAB UNIVERSITY COLLEGE OF INFORMATION TECHNOLOGY**

- **Digital Library**
  - Links available
- **PERN**
  - 56 MB Bandwidth
- **Video Conferencing**
  - Nil (for the said tenure but equipment held)
- **Campus Management Solution**
  - CMS provides the standard tools for faculty to manage their online courses, process assignment, maintain grade books and stay in contact with colleagues and students. Students enjoy being able to easily see their assignments, lessons and other information for all of their classes like semesters transcript etc. staff benefits from services such as built-in help desk, textbook requisitions, exam scheduling and faculty/course changes.
- **Web Portal**
  - [www.pucit.edu.pk](http://www.pucit.edu.pk)
- **Development of Online Admission System**
  - Yes

### **SCHOOL OF PHYSICAL SCIENCES**

- **Digital Library**
  - Digital Library facility at main library of Punjab University is available.
- **Video Conferencing**
  - Video conferencing facility is also available in the university campus and can be arranged whenever needed.
- **Campus Management Solution**
  - Campus Management Solution (CMS) has been operating in the University.

### **Punjab University Gujranwala Campus**

- **Digital Library**
  - The students and faculty members of Punjab University Gujranwala Campus have access to the HEC Digital Library and can access different resources, e-books and e-databases. This facility can be accessed through the URL : <http://www.digitallibrary.edu.pk/punjabuni.html>



- **PERN**
  - Punjab University Gujranwala Campus has been selected as an Aggregation Point of Presence (A-POP) for the connectivity of PERN2 by the HEC. PUGC is utilizing 16 MB of internet bandwidth on PERN2.
- **Video Conferencing**
  - Punjab University Gujranwala Campus has the necessary equipment for conducting video conferences.
- **Campus Management Solution**
  - The Campus Management Solution is functioning and the following modules have been used.
    - Student Application Entry
    - Term Activation
    - Student Enrollment
    - Student Grading and Enrollment
    - Student Financials

### **Punjab University Jhelum Campus**

- **Digital Library**
  - Yes
- **Campus Management Solution**
  - Under process