

Core Departments

Department of Computer Science

The Department conducts B.Sc. (Hons.) Computer Science which is a three year program consisting of six semesters. The students are given exposure in the field of DBMS, Computer Networks, Software Engineering, Unix Scripting, Computer Graphics, Algorithms, Information Security, Data Mining and Internet Technologies. In this course the students are imparted programming skills in C++, application of C++ in Data Structure, Network Programming. The curriculum provides extensive Laboratory sessions where students implement the concepts which they learn in theory. This course provides tremendous employment opportunities in industries at graduation level and the students expertise in the field of programming, web designing, internet technologies, etc. Over the past few years the department has provided excellent infrastructure for executing software skills using the latest software development tools and technologies.

The department has 5 well equipped ICT enabled labs with :

- About 150 computers with latest computer configuration – Intel core i7, 3.4 GHz processors with 4 GB RAM, 64 bit operating System with Wi-Fi connectivity;
- 3 High-end HP servers and Laptops;
- A good combination of Licensed Software and Free/Open Source Software to enrich student practical experience;
- 4 color laser printer, 20 laser printers and 10 scanners; and
- Each lab has LCD projectors which are used as a teaching aid for seminars and presentations.



Department has latest software like Turbo C++, Oracle 10Gi, Strawberry Prolog, Multimedia Tools, Red Hat Linux, Visual Studio, Developer 2000, Windows NT server, Fortran 90 etc. To enhance the spirit of research work among students the labs are equipped with internet facility to provide e-journals to the students. Laboratory network is further equipped with CISCO 2900 series routers, CISCO 1900 switches 24 Port full Duplex, Bay stack 425 24 T switches, 16 port hubs, cable testers etc.

Computer Science Department has one specialized CCNA Lab as well where students are given hands-on training about CISCO routers, switches, bridges etc. Department also has various utility rooms like programmer room, server room, departmental library, UPS room, teaching rooms and technical staff room. Department has skilled lab staff which includes a Scientific Assistant, Technical Assistant, Lab Assistants and Lab Attendants to manage the lab work efficiently.

Department of Computer Science

B.Sc. (Hons.) Computer Science

SEMESTER 1	SEMESTER 2
C-I : Programming Fundamentals using C++ C-II : Computer System Architecture AECC-I : English/MIL Communication or EVS GE-I	C-III : Programming in JAVA C-IV : Discrete Structures AECC-II : EVS or English/MIL Communication GE-II
SEMESTER 3	SEMESTER 4
C-V :Data Structures C-VI : Operating Systems C-VII : Computer Networks SEC-I : Android Programming GE-III	C-VIII : Design and Analysis of Algorithms C-IX : Software Engineering C-X : Database Management Systems SEC-II : PHP Programming GE-III
SEMESTER 5	SEMESTER 6
C-XI : Internet Technologies C-XII : Theory of Computation DSE-I DSE-II	C-XIII : Artificial Intelligence C-XIV : Computer Graphics DSE-III DSE-IV

C : Core Courses; GE : Generic Elective; AECC : Ability Enhancement Compulsory Course; SEC : Skill Enhancement Courses; DSE : Discipline Specific Elective

Discipline Specific Elective Papers : (Credit : 06 each)

DSE-I (any one)

- System Programming
- Numerical Methods
- Operational Research for Computer Science

DSE-II (any one)

- Microprocessor
- Modeling and Simulation
- Advanced Algorithms

DSE-III (any one)

- Machine Learning
- Introduction to Data Sciences
- Combinatorial Optimization

DSE-IV (any one)

- Digital Image Processing
- Data Mining
- Project Work / Dissertation

General Elective Papers (GE) (Minor - Computer Science) for other Departments / Disciplines : (Credit : 06 each)

GE-I Introduction to Programming

GE-II Introduction to Database Systems

GE-III Computer Networks and Internet Technologies

GE-IV Information Security & Cyber Laws