

Core Departments

Department of Electronics



The Department of Electronics offers B.Sc. (H) in Electronics. There are well equipped labs namely Circuit & Networks Lab, Digital & Analog Lab, Communication Lab, Micro-processor Lab, Optoelectronics Lab, Electronics Simulation Labs and Research Lab. It also has specialized labs for Microcontroller and Robotics. The labs are equipped with storage oscilloscopes, function generators, power supplies, multi meters, sophisticated 8085/8086 microprocessor trainer kits etc. and latest softwares based on electronics. It also has a departmental library.

The Department is making sincere efforts in creating a system where creativity and new ideas flourish. The students are exposed to research projects, design and prototyping systems at various stages.

The Department organized a National Conference NCAECA-2016, which brought together students, researchers, scientists and technologists to interact with each other and exchange information on recent advancement in the field of Electronic & Computer Science application. The Department organises seminars/workshops on regular basis. Various seminars like “Semiconductor Industry Dynamics and the Evolving Technologies”, “Computer Networking”, “Android Applications” etc., workshop on robotics, company visits for hands on training for the students were organized last session.



Department of Electronics

B.Sc. (Hons.) Electronics

SEMESTER 1	SEMESTER 2
C-I : Basic Circuit Theory and Network Analysis C-II : Mathematics Foundation for Electronics AECC-I : English/MIL Communication or EVS GE-I	C-III : Semiconductor Devices C-IV : Applied Physics AECC-II : EVS or English/MIL Communication GE-II
SEMESTER 3	SEMESTER 4
C-V : Electronic Circuits C-VI : Digital Electronics and Verilog C-VII : C Programming and Data Structures SEC-I GE-III	C-VIII : Operational Amplifiers and Applications C-IX : Signals and Systems C-X : Electronic Instrumentation SEC-II GE-IV
SEMESTER 5	SEMESTER 6
C-XI : Microprocessors and Microcontrollers C-XII : Electromagnetics DSE-I DSE-II	C-XIII : Communication Electronics C-XIV : Photonics 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 Electives (DSE) (Credit : 06 each) (4 papers to be selected) DSE I-IV

1. Power Electronics (4+4)
2. Numerical Analysis (4+4)
3. Modern Communication Systems (4+4)
4. Semiconductor Fabrication and Characterization (4+4)
5. Electrical Machines (4+4)
6. Basic VLSI Design (4+4)
7. Digital Signal Processing (4+4)
8. Control Systems (4+4)
9. Computer Networks (4+4)
10. Nanoelectronics (4+4)
11. Embedded Systems (4+4)
12. Biomedical Instrumentation (4+4)
13. Transmission Lines, Antenna & Wave Propagation (4+4)
14. Dissertation (4+4)

Skill Enhancement Course (SEC) (02 papers) (Credit : 02 each) SEC-I to SEC-II

1. Design and Fabrication of Printed Circuit Boards (4)
2. Robotics (4)

3. Mobile Applications Development (4)
4. Internet Technologies (4)
5. Programming with LabVIEW (4)

Other Discipline GE-I to GE-IV

1. Mathematics
 2. Computer Science
 3. Physics
 4. Biomedical Science
 5. Chemistry
 6. Commerce
- Any other discipline of Choice

Generic Elective Papers (GE) for other Departments/Disciplines (Credit : 06 each)

1. Electronic Circuits and PCB Designing (4+4)
2. Digital System Design (4+4)
3. Instrumentation (4+4)
4. Practical Electronics (4+4)
5. Communication Systems (4+4)
6. Microprocessor and Microcontroller Systems (4+4)
7. Consumer Electronics (4+4)