

B. Tech in Electronics and Communication Engineering:

The department offers four-year Bachelor of Technology (B. Tech) programme which comprises of core courses, discipline centric elective courses, generic elective courses, institute level open elective courses, seminar, laboratory experiments, minor and major projects. The elective courses are chosen by students as per their choice, under the Choice Based Credit System (CBCS), which enable them to stay up-to-date with industry requirement and make them ready to work with cutting edge technology, within and outside the country. The students also have the opportunity to earn Honors in Electronics and Communication Engineering by completing an additional 20 credits of coursework through MOOCs.

The course imparted by the department is tailored to meet the needs of technical manpower in the IECT sector, especially in the fields of Communications, Embedded systems, VLSI, Power Electronics, Instrumentation & Control etc. The focus of the program is on, Electronics, Communication Engineering, Digital Communication (Data Communication), Digital Electronics, Wireless Communication, Microwave Communication, Embedded systems, Microprocessors, VLSI design etc.

To achieve our objectives, the curriculum gives adequate emphasis on subjects like Analog Communication, Digital Signal Processing, Optical Fiber Communication, Antenna and Wave propagation, Power Machines, Basic Electronics, Basic Electrical Engineering, Power Electronics, Random Processes and Noise, Control Engineering etc.

Lateral Admission: The University has provision for lateral admission to B. Tech (3rd semester), for eligible candidates who have passed a three (3) years diploma in relevant stream of engineering from any polytechnic institute recognized by Jammu & Kashmir State board of technical education, having secured 60% marks in aggregate. Students have to qualify the Lateral Entry Entrance Exam, conducted by the University, subsequent to which they may be admitted in the 3rd semester B. Tech, as per AICET rules.

Ph. D Program:

The Department offers Ph. D program for eligible and motivated students in various thrust areas of Electronics and Communication Engineering, which include Network Security, Artificial Intelligence, Digital Image Processing, Machine Learning, Smart Antenna Design, Communications, Power Engineering, Information Security, Solar Photovoltaic, Internet of

Things. All Ph. D scholars contribute in a significant way to the research activities of the department. Students graduating with a Ph. D degree are expected to play leadership roles in research and development in various disciplines of ECE in industry or in academics.

DURATION

B.Tech.: 04 Years (8 semesters)

Ph.D.: Minimum 03years, Maximum 06 years (as per UGC rules)

WHO CAN APPLY?

B. Tech: Candidates seeking admission for this program should have

- Passed Higher Secondary Part II (10+2) from any recognized institute with Physics, Chemistry and Mathematics as the subjects.

AND

- Should have appeared in JEE Main (Paper-I) in 2021.

Ph.D.: Candidates seeking admission for this program should have:

- Master's degree in the concerned/allied subject from any recognized university with at least 55% marks in aggregate or its equivalent grade "B" in the UGC 7– point scale (or an equivalent grade in a point scale wherever grading system is followed).

OR

- An equivalent degree from a foreign educational institute accredited by an assessment and accreditation agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing accrediting or assuring quality and standards of educational institutions.