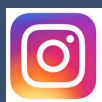## Electronics and Computer Engineering

Electronics and Computer Engineering (EKE) is at the heart of most current technological breakthroughs. From embedded systems, used in smart automobiles to using Computer based systems with Artificial Intelligence, for exploring distant planets, this field of study plays a crucial role. This cross-discipline study gives students the advantage of becoming a multi-skilled professional Engineer. The core courses focus on basics of operating system structures, memory management, programming languages along with the core computer hardware architecture basics and digital systems design. The Elective subjects provide knowledge in application domains like Machine Learning, Virtual Computing and Cyber physical systems. The hands-on practical labs and project work enhance the skill of students in both research and Industry.

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- **Prepare for a career in areas of high job growth.**
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CORE COURSES

• Solid State Semiconductor Devices • Fundamentals of Computer System Design • Signals and Systems • Analog Electronic Circuits • Data Structures and Algorithms • Linear Integrated Circuits • Object Oriented Design and Programming • Computer Organization and Architectures • Microcontrollers and Interfacing • Database Management Systems • Hardware Interfacing and Networking • Embedded Hardware and Operating systems • Embedded System Design using FPGA • Applied Programing

ELECTIVE COURSES
SUB-STREAM: ELECTRONICS

• Electromagnetics and Antenna Theory • Control Systems: Theory and Applications • Applied Digital Signal Processing • Wireless and Optical Sensors • Digital Communication Systems • Wireless Communication Networks • ASIC Design • Embedded Linux • Advanced Digital System Design • Cryptography and Network Security • Digital Image and Video Processing • Opto Electronics

SUB-STREAM: COMPUTERS

Machine Learning • Data Analysis and Visualization • Principles of Cloud Computing • Computer Vision • Data Mining and Analytics • Deep Learning • IoT System Design·Multi-Core Architecture and Programming • Principles of Artificial Intelligence • Principles of Cyber-Physical Systems • Hardware/Software Co-Design • Introduction to Virtual Computing • Mobile Computing • Web of Things • Quantum Computing

CAREER SCOPE

Electronics & Computer Engineering offers in-depth Knowledge to a wide range of courses that will open doors to higher studies and many careers which include Embedded Systems, Information Technology, Artificial Intelligence etc.. Potential employers include Intel, L&T, ARM, Microsoft, IBM, Cisco, Oracle, Orange, Sun, Altera, Xilinx and many start-up companies.

CORE COMPANIES