

Subject Name	Description
Microwave and Radar Engineering	This course introduces basics of microwaves, devices, circuits and passive devices. These are used in the front-end of all telecommunication transmitters and receivers and thus are extensively used in the industry. Second half of the course covers radar engineering. Radar is a basic device used in military and civil applications and has a large market. This course makes the students industry ready in microwave field.
Wireless and Mobile Communication	Wireless and Mobile communication has taken giant strides in our everyday lives. This industry has spread to every corner of India and the world. A basic knowledge of its principles is essential for to-day's electronics and telecommunication engineers. This course teaches basics of wireless and mobile telecommunications including wireless networking and various multiple access techniques. After studying this course our students will find employment in wireless and mobile communication industry including handset making industries and mobile tower setting.
TV Engineering	This course teaches black & white, and color TV basics. Both receivers and transmitters of TV are covered. Students will find themselves industry ready after this course and will find ready employment
Multimedia Communications	Topics in Multimedia communication are used extensively on the internet. Text, video and image compression techniques are being extensively used. Study of these topics prepares the students for employment in industry using these technologies. Their number is steadily increasing.
Electronic Switching System	Switching circuits are the essential features of telephonic and video circuits. This course enables the students for employment in telecommunication industry.
Wireless & Mobile Comm. Lab	A laboratory course that covers the following topics: basics of radio network planning and optimization, radio network planning for the GSM cellular system, radio network planning for the UMTS cellular system, GSMUMTS co-existence and co-citing, radio network planning for the Wi-MAX broadband system, indoor GSM drive testing measurements and analysis, outdoor GSM drive testing measurements and analysis.
Project Lab	The purpose of the course is to develop an understanding of independent research through the study of a particular Electronics Engineering topic of interest. The special project is an exercise in the professional application of specialist skills and experience developed in Electronics Engineering program. Research topics will be mainly based on principal experimental, theoretical or applied, will be chosen in consultation with a project supervisor.

Microwave Engineering Lab	Students familiarize themselves with various microwave devices and passive components. Microwave measurements are an important part of all front end receivers and transmitters. Students will find ample employment avenues in industries dealing with microwaves.
Audio Visual Electronics Lab	This course covers the home entertainment segment of electronics like TV, DVD, VCD etc. besides those used in the industry. Employment wise, it is an extremely useful course.
Digital Image Processing	Thorough knowledge of basic principles of digital image processing would enable the students to design and implement algorithms that perform basic image processing (e.g., noise removal and image enhancement), illustration of algorithms for advanced image analysis (e.g., image compression, image segmentation); and assessment of performance of image processing algorithms and systems
Neural Networks	This course gives a methodical application of neural networks in engineering, artificial intelligence, and cognitive modeling through the study of the most important neural network models. Students would be able to evaluate the appropriateness of neural networks to a particular application.
Bio-Medical Engineering	This course provides a broad education necessary to understand the impact of chemical and biological engineering solutions in a global, economic, environmental, and societal context. And thus prepares the student to work in the biopharmaceutical or biotechnology industry by using the techniques, skills, and modern engineering tools necessary for chemical and biological engineering practice
Image Processing Lab using MATLAB	This course gives a practical insight of its corresponding theory course (ECE-456) in the MATLAB toolbox. After the completion of this course, students would be able to process image samples which is applicable in various emerging fields like bio-medical imaging, remote sensing, microscopic imaging and hence enhances their employability in the respective fields.
Neural Networks Lab using MATLAB	It is a practical learning module of corresponding theory course (ECE-458) in the MATLAB toolbox. Knowledge of neural network like various models of artificial neurons are realized in the neural network toolbox.
Major Project	Project involves integration and implementation of knowledge and skills acquired during the degree program. It involves group work with hands on experience on some live projects in the field of Electronics and Communication Engineering.