

Department of Electronics & Telecommunication Engineering

Course Outcomes(2019-Pattern)

Year	Name of course	Course Outcome No.	Course Outcomes
ME	504401 Mathematics for Signal Processing	CO 504401.1	Solve systems of linear equations using multiple methods
		CO 504401.2	Demonstrate understanding of the concepts of vector space and subspace.
		CO 504401.3	Demonstrate application of probability to real life phenomenon.
		CO 504401.4	Determine different statistical parameters of given distributions.
ME	504402 Digital Image and Video Processing	CO 504402.1	Analyze and solve problems in image enhancement, compression and segmentation
		CO 504402.2	Design and integrate image processing components to satisfy given requirement of a application
		CO 504402.3	Use software simulation and design tool for practical image processing
ME	504403 Advanced Digital Signal Processing	CO 504403.1	apply the concept of Multirate Signal Processing.
		CO 504403.2	use Adaptive filtering for real life applications.
		CO 504403.3	to implement DSP algorithms on digital signal processors.
ME	504404 Research Methodology	CO 504404.1	The student will learn research problem & its scope, objectives, and errors.
		CO 504404.2	The student will learn the basic instrumentation schemes & data collection methods.
		CO 504404.3	The student will study the various statistical techniques.
		CO 504404.4	The students will study modeling and predict the performance of experimental system.
		CO 504404.5	The student will learn to develop the research proposals.
ME	504405 Mixed Signal Processing	CO 504405.1	design data conversion circuits with minimizing switching and phase noise, and jitter.
		CO 504405.2	understand concept of switched capacitor circuits.
		CO 504405.3	analyze and design switched capacitor circuits like amplifiers, integrators, and filters
		CO 504405.4	understand concept, working, and applications of PLLs and DLL.
ME	504407 Biomedical Signal Processing	CO 504407.1	The students will be acquainted to various bio signals and methods of capturing them.
		CO 504407.2	They will be able to model the biomedical systems and will be able to analyze ECG signals captured under different conditions.
		CO 504407.3	The student will be able to implement various image processing algorithms and techniques for MRI images.
		CO 504407.4	The student will be able to understand various sources of distortions in

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			biomedical signals and its remedial techniques.
ME	504408 Speech Processing	CO 504408.1	Apply signal processing concepts for extracting features of speech signal.
		CO 504408.2	Use various algorithms for speech coding and enhancement
		CO 504408.3	Understand various applications of speech processing.
ME	504409 Computer Vision	CO 504409.1	have understanding of image formation and working of camera as image sensor, camera parameters and calibration.
		CO 504409.2	pursue knowledge of stereo imaging, its applications and challenges
		CO 504409.3	have conceptual understanding of computer vision algorithms for motion tracking
		CO 504409.4	work with real time 3D problems based on the understanding of stereo vision techniques and algorithms
		CO 504409.5	Apply Object tracking and Recognition techniques in real life applications like Surveillance ,Security and industry.
ME	504410 Elective II Soft Computing	CO 504410.1	Use a new tool /tools to solve a wide variety of real world problems
		CO 504410.2	Find an alternate solution , which may offer more adaptability, resilience and optimization
		CO 504410.3	Identify the suitable antenna for a given communication system
		CO 504410.4	Gain knowledge of soft computing domain which opens up a whole new career option and tackle real world research problems
ME	604401 Statistical Signal Processing	CO 604401.1	Use appropriate methods for signal modelling.
		CO 604401.2	Compute linear prediction coefficients in efficient manner.
		CO 604401.3	Apply Wiener filter for noise cancellation.
ME	604402 Still Image and Video Compression	604402.1	Overview of compression standards like JPEG 2000, MPEG1, MPEG2
		604402.2	Gain knowledge of features of various compression standards.
		604402.3	Develop ability to choose compression standard for the given application
		604402.4	Understand techniques used in data compression