

SE ELECTRONICS & TELECOMMUNICATION	
Course Name	Engineering Mathematics - III
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO 1	Solve higher order linear differential equation using appropriate techniques for modelling, analyzing of electrical circuits and control systems.
CO 2	Apply concept of Fourier transform & Z-transform and its applications to continuous & discrete systems, signal & image processing and communication systems.
CO 3	Obtain Interpolating polynomials, numerically differentiate and integrate functions, numerical solutions of differential equations using single step and multi-step iterative methods used in modern scientific computing.
CO 4	Perform vector differentiation & integration, analyze the vector fields and apply to electromagnetic fields & wave theory.
CO 5	Analyze Complex functions, Conformal mappings, Contour integration applicable to electrostatics, digital filters, signal and image processing.
Course Name	Electronic Circuits
At the end of this course, the student will be able to:	
Course Outcome	Course Outcome
CO 1	Assimilate the physics, characteristics and parameters of MOSFET towards its application as amplifier.
CO 2	Design MOSFET amplifiers, with and without feedback, & MOSFET oscillators, for given specifications.
CO 3	Analyze and assess the performance of linear and switching regulators, with their variants, towards applications in regulated power supplies.
CO 4	Explain internal schematic of Op-Amp and define its performance parameters.
CO 5	Design, Build and test Op-amp based analog signal processing and conditioning circuits towards various real time applications.
CO 6	Understand and compare the principles of various data conversion techniques and PLL with their applications.