

B.Tech. (Electrical), 2ndYear

Third Semester:

Name of Program	B.Tech. (Electrical Engg.)	Semester-III	Year-2 nd
Name of Course	Mathematics 3		
Course Code	MTH-231		
Core / Elective / Other	Core		
Prerequisite:			
1.	Knowledge of Engineering Mathematics		
2.	Basics of statistical concepts such as central tendencies, dispersion etc.		
Course Outcomes:			
1.	Apply suitable numerical techniques for real world problem related to Electrical Engineering		
2.	Have ability of understanding statistical inferences		
3.	Use of Z-transform in signal processing		
Description of Contents in brief:			
1.	Numerical Methods: Solution of algebraic and transcendental equations, Solution of linear Simultaneous Equations.		
2.	Finite Differences, Interpolation and Extrapolation, Inverse Interpolation.		
3.	Numerical Differentiation and Integration.		
4.	Numerical solution of Ordinary & Partial Differential Equations.		
5.	Statistics: Curve fitting, Correlation and Regression Analysis		
6.	Probability Distribution. Sampling and Testing of Hypothesis		
7.	Z-transforms, Inverse Z-transforms and properties		
List of Text Books:			
1.	Numerical Methods by Dr. B. S. Grewal		
2.	Mathematical Statistics-Ray, Sharma and Chaudhary		
3.	Advanced Engineering Mathematics by Erwin Kreyszig		
List of Reference Books:			
1.	Numerical Analysis by Hildebrand, Mcgraw Hill.		
2.	Numerical Analysis by Scarborough, Oxford.		
3.	Mathematical Statistics – J E Freund & R E Walpole		
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Lecture Plan (about 40-50 Lectures):			

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