

**B.Tech. (Electrical), 2<sup>nd</sup>Year**

**Third Semester:**

<b>Name of Program</b>	B.Tech. (Electrical Engg.)	Semester-III	Year-2 <sup>nd</sup>
<b>Name of Course</b>	Mathematics 3		
<b>Course Code</b>	MTH-231		
<b>Core / Elective / Other</b>	Core		
<b>Prerequisite:</b>			
1.	Knowledge of Engineering Mathematics		
2.	Basics of statistical concepts such as central tendencies, dispersion etc.		
<b>Course Outcomes:</b>			
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		
<b>Description of Contents in brief:</b>			
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		
<b>List of Text Books:</b>			
1.	Numerical Methods by Dr. B. S. Grewal		
2.	Mathematical Statistics-Ray, Sharma and Chaudhary		
3.	Advanced Engineering Mathematics by Erwin Kreyszig		
<b>List of Reference Books:</b>			
1.	Numerical Analysis by Hildebrand, Mcgraw Hill.		
2.	Numerical Analysis by Scarborough, Oxford.		
3.	Mathematical Statistics – J E Freund & R E Walpole		
4.	Numerical Methods by E .Balaguruswamy, TMH		
<b>URLs:</b>			
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<b>Lecture Plan (about 40-50 Lectures):</b>			

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