

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 | | |
| 4. | Numerical Methods by E .Balaguruswamy, TMH | | |
| URLs: | | | |
| 1. | https://nptel.ac.in/courses/111/107/111107105/ | | |
| 2. | https://nptel.ac.in/courses/111/105/111105041/ | | |
| 3. | https://nptel.ac.in/courses/111/106/111106101/ | | |
| 4. | https://nptel.ac.in/courses/110/107/110107114/ | | |
| Lecture Plan (about 40-50 Lectures): | | | |

B Tech Syllabus Ktu

J Elliott



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