

COURSE MODULES OF THE SUBJECT TAUGHT FOR THE ODD SESSION 2025

Course Syllabi with CO's

1 B.S.Grewal: "Higher Engineering Mathematics", Khanna publishers, 44th Ed. 2018
2. E.Kreyszig: "Advanced Engineering Mathematics", John Wiley & Sons, 10th Ed. (Reprint), 2016.

List of Reference Books

- 1.V.Ramana: "Higher Engineering Mathematics" McGraw-Hill Education, 11th Ed.
- 2.Srimanta Pal & Subodh C. Bhunia: "Engineering Mathematics" Oxford University Press, 3rd Reprint, 2016.
3. N.P Bali and Manish Goyal: "A textbook of Engineering Mathematics" Laxmi Publications, Latest edition.
4. C. Ray Wylie, Louis C. Barrett: "Advanced Engineering Mathematics" McGraw - Hill Book Co. Newyork, Latested.
5. Gupta C.B, Sing S.R and Mukesh Kumar: "Engineering Mathematic for Semester I and II", Mc- Graw Hill Education(India) Pvt. Ltd 2015.
- 6.K.Dass and Er. Rajnish Verma: "Higher Engineering Mathematics" S.Chand Publication (2014).
7. James Stewart: "Calculus" Cengage publications, 7th edition, 4th Reprint 2019.

List of URLs, Text Books, Notes, Multimedia Content, etc

<http://nptel.ac.in/courses.php?disciplineID=111>

- [http://www.class-central.com/subject/math\(MOOCs\)](http://www.class-central.com/subject/math(MOOCs))
- <http://academicearth.org/>
- VTU e-Shikshana Program

Course Outcomes	Course Outcomes: Course outcome (Course Skill Set) At the end of the course, the student will be able to :
	1. Understand that physical systems can be described by differential equations and solve such equations
	2. Make use of correlation and regression analysis to fit a suitable mathematical model for statistical data
	3. Demonstrate the Fourier series to study the behavior of periodic functions and their applications in system communications, digital signal processing, and field theory.
	4. To use Fourier transforms to analyze problems involving continuous-time signals and to apply Z-Transform techniques to solve difference equations
	5. Apply discrete and continuous probability distributions in analyzing the probability models arising in the engineering field. Demonstrate the validity of testing the hypothesis.

Internal Assessment Marks: For the Assignment component of the CIE, there are 25 marks and for the Internal Assessment Test component, there are 25 marks.

The Correlation of Course Outcomes (CO's) and Program Outcomes (PO's)

Subject Code:	BMATE301	TITLE Mathematics III for EE Engineering							Faculty Name:				
List of Course Outcomes	Program Outcomes												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO-1	3	2	-	-	-	-	-	-	-	-	-	-	1
CO-2	2	2	-	-	-	-	-	-	-	-	-	-	1
CO-3	3	2	-	-	-	-	-	-	-	-	-	-	-
CO-4	3	2	-	-	-	-	-	-	-	-	-	-	2
CO-5	2	2	-	-	-	-	-	-	-	-	-	-	-

Note: 3 = Strong Contribution 2 = Average Contribution 1 = Weak Contribution