

ENGINEERING MATHEMATICS-II

Subject Code 00201	Theory			No of Period in one session : 60		
	No. of Periods Per Week			Full Marks : 100		
	L	T	P/S	Annual Exam. : 80		
	06	—	—	Internal Exam. : 20		

Rationale:

The Subject of Engineering Mathematics is being introduced into the Diploma Course to provide mathematical background to the students so that they can be able to grasp the engineering subjects, which they will come across in their higher classes properly. The course will give them the insight to understand and analyse the engineering problems scientifically based on Mathematics.

The subject is divided into two papers - Engineering Mathematics - I and Engineering Mathematics - II. The Curriculum of Engineering Mathematics - II consists of the following broad topics:

1. Calculus
2. Vector Algebra
3. Differential Equations

The details of the above broad topics have been provided in the curriculum:

Objectives:

- By covering the course in Engineering Mathematics - II, the students will be able to:
- Know the basics of Differential and Integral Calculus, the meaning of limit, continuity and derivative of a single variable and their applications to engineering problems, the various methods of integration, how to solve simple ordinary differential equation of 1st and 2nd order.
- Understand their engineering application
- Solve related simple numerical problems which will help them to understand the subject.

S.No.	Topics	Periods
01	Calculus	1365
02	Vector	4125
03	Differential Equations	4125

CONTENTS:

TOPIC: 01 - CALCULUS:

S.No.	Topics	Periods
01.01	Functions: Constants, Variables, Functions, Graphical representation of function, odd & even functions, explicit & implicit functions & other types of functions.	102
01.02	Limits: Definition, fundamental Theorems, important formulas. And its important deductions, Simple problems.	102
01.03	Continuity of a function: Left hand limit and Right hand limit. Definition of a continuous function, Simple problems to test the continuity of a function.	102
01.04	Differentiation of a function: Increment, Differential coefficient, Derivatives of an algebraic, trigonometric, exponential, logarithmic and inverse functions from first principle, Differentiation of Sum, Difference, Product, Quotient of two functions, Fundamental theorems of differentiation of implicit function, parametric functions & Logarithmic differentiation.	106
01.05	Geometric meaning: Significance of derivative and its sign, Geometric interpretation of dy/dx , Equation of tangents and normals to a curve, Angle between two curves.	102
01.06	Application of dy/dx: Approximate Calculations and Small Errors interpretation of dy/dx as a rate measure, practical problems, Maximum & Minimum functions of single variable.	104
01.07	Successive Differentiation: Definition and Notations, the nth derivatives of some special functions, Leibnitz theorem.	102
01.08	Partial Differentiation: Idea of a partial differentiation, partial derivatives, successive partial derivatives, Euler's Theorem on Homogeneous Functions, Partial Differentiation of implicit Functions, Total Differential.	102
01.09	Integration: Integration as inverse process of differentiation, Introduction, Integration by transformation, Integration by Substitution and Integration by parts.	105
01.10	The Definite Integral, Properties of the definite integral, Problems of area by Integration method.	105
01.11	The Definite integrals as the limit of a sum.	102

TOPIC: 02 - VECTORS:

02.01	Introduction to Vectors: Definition of Scalars and Vectors with example, Representation of a vector, type of vectors (Unit vector, Zero vector, negative of a vector and Equality of vectors), Addition and Subtraction of vectors, Multiplication of vectors by a scalar.	102
02.02	Position vector: Position vector of a Point Resolution of vectors (coplanar vectors and space vectors): Point of Division, Centroid of a triangle, Test of collinearity, coplanarity and linear dependence of vectors.	102
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02.04	Geometrical interpretation and their properties, Work done as a scalar product.	104
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