

Lesson plan of ENGINEERING MATHEMATICS Theory 2nd Sem Summer-2022

(From 14.03.2022 to 18.06.2022)

SL. NO	SECTION	WEEK	THEORY CHAPTER/TOPIC	PERIOD (Total:60 periods)
1	SEC-A SEC-B SEC-C SEC-D	14.03.2022 To 17.03.2022	DERIVATIVES a) Derivative of a function at a point b) Algebra of derivative e) Methods of differentiation	02-A 02-B 03-C 03-D
2	SEC-A SEC-B SEC-C SEC-D	21.03.2022 To 26.03.2022	C)Derivative of standard functions d) Derivative of composite function (Chain Rule)	02-A 02-B 03-C 03-D
3	SEC-A SEC-B SEC-C SEC-D	28.03.2022 To 02.04.2022	d) Derivative of composite function (Chain Rule) e) Methods of differentiation of i) Parametric function DOUBT CLEARING CLASSES	02-A 02-B 03-C 03-D
4	SEC-A SEC-B SEC-C SEC-D	04.04.2022 To 09.04.2022	i) Parametric function ii) Implicit function iii) Logarithmic function	02-A 02-B 03-C 03-D

5	SEC-A SEC-B SEC-C SEC-D	11.04.2022 To 16.04.2022	iii) Logarithmic function iv) a function with respect to another function f) Applications of Derivative i) Successive Differentiation (up to second order)	02-A 02-B 03-C 03-D
6	SEC-A SEC-B SEC-C SEC-D	18.04.2022 To 23.04.2022	i) Successive Differentiation (up to second order) iv) a function with respect to another function f) Applications of Derivative i) Successive Differentiation (up to second order)	02-A 02-B 03-C 03-D
7	SEC-A SEC-B SEC-C SEC-D	25.04.2020 To 30.04.2020	i) Successive Differentiation (up to second order) Problems based on this topics DOUBT CLEARING CLASS	02-A 02-B 03-C 03-D
8	SEC-A SEC-B SEC-C SEC-D	02.05.2022 To 07.05.2021	Problems based on this topics DOUBT CLEARING CLASS	02-A 02-B 03-C 03-D

9	SEC-A SEC-B SEC-C SEC-D	09.05.2022 To 14.05.2022	VECTOR ALGEBRA a) Introduction b) Types of vectors (null vector, parallel vector , collinear vectors) (in component form)	02-A 02-B 03-C 03-D
10	SEC-A SEC-B SEC-C SEC-D	09.05.2022 To 14.05.2022	c) Representation of vector d) Magnitude and direction of vectors DOUBT CLEARING CLASSES	02-A 02-B 03-C 03-D
11	SEC-A SEC-B SEC-C SEC-D	23.05.2022 To 28.05.2022	e) Addition and subtraction of vectors f) Position vector DOUBT CLEARING CLASSES	02-A 02-B 03-C 03-D
12	SEC-A SEC-B SEC-C SEC-D	31.05.2022 To 04.06.2022	g) Scalar product of two vectors h) Geometrical meaning of dot product DOUBT CLEARING CLASSES	02-A 02-B 03-C 03-D
13	SEC-A SEC-B SEC-C SEC-D	06.06.2022 To 11.06.2022	i) Angle between two vectors j) Scalar and vector projection of two vectors k) Vector product and geometrical meaning (Area of triangle and parallelogram) DOUBT CLEARING CLASSES	02-A 02-B 03-C 03-D

14	SEC-A SEC-B SEC-C SEC-D	13.06.2022 To 18.06.2022	k) Vector product and geometrical meaning (Area of triangle and parallelogram) DOUBT CLEARING CLASSES	02-A 02-B 03-C 03-D
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N.B - A : CIVIL ENGG.

B : MECHANICAL ENGG.

C & D :: ELECTRICAL ENGG. & ELECT & TELECOMMUNICATION ENGG.

Mr. Sunil Kumar Banka
PTGF in Math

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SL. NO.	SECTION	WEEK	THEORY CHAPTER/TOPIC	PERIOD (Total:60 periods)
1	SEC-A SEC-B SEC-C SEC-D	14.03.2022 To 17.03.2022	<p>Definition of function, based on set theory</p> <p>b) Types of functions</p> <p>i) Constant function</p> <p>ii) Identity function</p>	02-A 02-B 03-C 03-D
2	SEC-A SEC-B SEC-C SEC-D	21.03.2022 To 26.03.2022	<p>iii) Absolute value function</p> <p>iv) The Greatest integer function</p>	02-A 02-B 03-C 03-D
3	SEC-A SEC-B SEC-C SEC-D	28.03.2022 To 02.04.2022	<p>v) Trigonometric function</p> <p>vi) Exponential function</p> <p>vii) Logarithmic function</p> <p>c) Introduction of limit</p>	02-A 02-B 03-C 03-D

4	SEC-A SEC-B SEC-C SEC-D	04.04.2022 To 09.04.2022	d) Existence of limit e) Methods of evaluation of limits	02-A 02-B 03-C 03-D
5	SEC-A SEC-B SEC-C SEC-D	11.04.2022 To 16.04.2022	Definition of continuity of a function at a point and problems based on it	02-A 02-B 03-C 03-D
6	SEC-A SEC-B SEC-C SEC-D	18.04.2022 To 23.04.2022	1) Definition of integration as inverse of differentiation	02-A 02-B 03-C 03-D

7	SEC-A SEC-B SEC-C SEC-D	25.04.2020 To 30.04.2020	<p style="text-align: center;">b) Integrals of standard functions</p> <p style="text-align: center;">c) Methods of integration</p>	02-A 02-B 03-C 03-D
8	SEC-A SEC-B SEC-C SEC-D	02.05.2022 To 07.05.2021	<p style="text-align: center;">i) Integration by substitution</p> <p style="text-align: center;">ii) Integration by parts</p>	02-A 02-B 03-C 03-D
9	SEC-A SEC-B SEC-C SEC-D	09.05.2022 To 14.05.2022	<p style="text-align: center;">d) Integration of different forms</p>	02-A 02-B 03-C 03-D
10	SEC-A SEC-B SEC-C SEC-D	09.05.2022 To 14.05.2022	<p style="text-align: center;">Application of integration</p> <p style="text-align: center;">i) Area enclosed by a curve and X – axis</p>	02-A 02-B 03-C 03-D

11	SEC-A SEC-B SEC-C SEC-D	23.05.2022 To 28.05.2022	ii) Area of a circle with centre at origin	02-A 02-B 03-C 03-D
12	SEC-A SEC-B SEC-C SEC-D	31.05.2022 To 04.06.2022	a) Order and degree of a differential equation	02-A 02-B 03-C 03-D
13	SEC-A SEC-B SEC-C SEC-D	06.06.2022 To 11.06.2022	b) Solution of differential equation i) 1st order and 1st degree equation by the method of separation of variables ii) Linear Equation	02-A 02-B 03-C 03-D
14	SEC-A SEC-B SEC-C SEC-D	13.06.2022 To 18.06.2022	REVISION	02-A 02-B 03-C 03-D

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