

LESSON PLAN -2020
SWAMI VIVEKANANDA SCHOOL OF ENGG &TECH,BBSR

DISCIPLINE- FIRST YEAR	SEMESTER-2ND	NAME OF TEACHING FACULTY- ROHIT KUMAR
SUBJECT-ENGINEERING MATHEMATICS- II	NO OF CLASS ALLOTTED/PER WEEK- 04	SEMESTER From date-02-01-2020 TO 30-04-2020 NO OF WEEKS-18
WEEK	CLASS DAY(DATES)	THEORY TOPICS
1st	1/2/2020	1) VECTOR ALGEBRA a) Introduction
	1/4/2020	b) Types of vectors (null vector, parallel vector , collinear vectors)
2ND	1/6/2020	(in component form)
	1/7/2020	c) Representation of vector
	1/9/2020	d) Magnitude and direction of vectors e) Addition and subtraction of vectors
	1/11/2020	f) Position vector g) Scalar product of two vectors
	1/13/2020	i) Angle between two vectors j) Scalar and vector projection of two vectors
	1/14/2020	2) LIMITS AND CONTINUITY a) Definition of function, based on set theory
3RD	1/16/2020	ii) Identity function iii) Absolute value function
	1/18/2020	v) Trigonometric function vi) Exponential function
	1/20/2020	c) Introduction of limit d) Existence of limit
4TH	1/21/2020	e) Definition of continuity of a function at a point and problems based on it
	1/23/2020	problems based on it
	1/25/2020	problems based on it
	1/27/2020	problems based on it
	1/28/2020	4) INTEGRATION DEFINATION
1ST	1/30/2020	g) Problems based on above
	2/1/2020	4) INTEGRATION FORMULA
2ND	2/3/2020	a) Definition of integration as inverse of differentiation
	2/4/2020	b) Integrals of standard functions
	2/6/2020	c) Methods of integration i) Integration by substitution
	2/8/2020	ii) Integration by parts
	2/10/2020	d) Integration of the following forms
	2/11/2020	d) Integration of the following forms
3RD	2/13/2020	e) Definite integral, properties of definite integrals
	2/15/2020	e) Definite integral, properties of definite integrals

	2/17/2020	INTERNAL ASSESMENT 1
4TH	2/18/2020	e) Definite integral, properties of definite integrals
	2/20/2020	e) Definite integral, properties of definite integrals
	2/22/2020	v) Trigonometric function vi) Exponential function
5TH	2/24/2020	d) Integration of the DIFFERENT forms
	2/25/2020	d) Integration of the DIFFERENT forms
	2/27/2020	d) Integration of the DIFFERENT forms
	2/29/2020	f) Application of integration
	3/2/2020	f) Application of integration
1ST	3/3/2020	i) Area enclosed by a curve and X – axis
	3/5/2020	ii) Area of a circle with centre at origin
	3/7/2020	CLASS TEST 1
2ND	3/9/2020	3) DERIVATIVES a) Derivative of a function at a point
	3/10/2020	3) DERIVATIVES a) Derivative of a function at a point
	3/12/2020	b) Algebra of derivative c) Derivative of standard functions
	3/14/2020	d) Derivative of composite function (Chain Rule)
	3/16/2020	e) Methods of differentiation of i) Parametric function
	3/17/2020	e) Methods of differentiation of i) Parametric function
3RD	3/19/2020	ii) Implicit function iii) Logarithmic function
	3/21/2020	ii) Implicit function iii) Logarithmic function
	3/23/2020	CLASS TEST 2
4TH	3/24/2020	ii) Implicit function iii) Logarithmic function
	3/26/2020	iv) a function with respect to another function
	3/28/2020	iv) a function with respect to another function
1ST	3/30/2020	f) Applications of Derivative
	3/31/2020	i) Successive Differentiation (up to second order)
	4/2/2020	i) Successive Differentiation (up to second order)
2ND	4/4/2020	2ND INTERNAL ASSESMENT
	4/6/2020	i) Successive Differentiation (up to second order)
	4/7/2020	i) Successive Differentiation (up to second order)
	4/9/2020	ii) Partial Differentiation (function of two variables up to second order)

3RD	4/11/2020	ii) Partial Differentiation (function of two variables up to second order)
	4/13/2020	ii) Partial Differentiation (function of two variables up to second order)
	4/14/2020	5) DIFFERENTIAL EQUATION
	4/16/2020	a) Order and degree of a differential equation
	4/18/2020	b) Solution of differential equation
4TH	4/20/2020	i) 1st order and 1st degree equation by the method of separation of variables
	4/21/2020	ii) Linear equation
	4/23/2020	, where P,Q are functions of X
	4/25/2020	1st order and 1st degree equation by the method of separation of variables
5TH	4/27/2020	Linear equation PROBLEMS
	4/28/2020	Linear equation PROBLEMS
	4/30/2020	CLASS TEST 3

LESSON PLAN -2020
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DISCIPLINE- FIRST YEAR	SEMESTER-2ND	NAME OF TEACHING FACULTY- SANGEETA SHOO
SUBJECT-ENGINEERING MATHEMATICS- II	NO OF CLASS ALLOTTED/PER WEEK-	SEMESTER From date-02-01-2020 TO 30-04-2020 NO OF WEEKS-20
WEEK	CLASS DAY(DATES)	THEORY TOPICS
1ST	1/2/2020	1) VECTOR ALGEBRA a) Introduction
	1/3/2020	b) Types of vectors (null vector, parallel vector , collinear vectors)
	1/4/2020	(in component form)
	1/6/2020	c) Representation of vector
	1/7/2020	d) Magnitude and direction of vectors e) Addition and subtraction of vectors
	1/8/2020	f) Position vector g) Scalar product of two vectors h) Geometrical meaning of dot product
	1/9/2020	i) Angle between two vectors j) Scalar and vector projection of two vectors k) Vector product and geometrical meaning (Area of triangle and parallelogram)
2ND	1/10/2020	2) LIMITS AND CONTINUITY a) Definition of function, based on set theory b) Types of functions
	1/11/2020	ii) Identity function iii) Absolute value function iv)The Greatest integer function
	1/13/2020	ii) Identity function iii) Absolute value function iv)The Greatest integer function
	1/14/2020	ii) Identity function iii) Absolute value function iv)The Greatest integer function
	1/15/2020	v) Trigonometric function vi) Exponential function vii) Logarithmic function
	1/16/2020	c) Introduction of limit d) Existence of limit e) Methods of evaluation of limit
	1/17/2020	e) Definition of continuity of a function at a point and problems based on it
3RD	1/18/2020	problems based on it
	1/20/2020	problems based on it
	1/21/2020	problems based on it
	1/22/2020	problems based on it
	1/24/2020	problems based on it
4TH	1/25/2020	problems based on it

	1/27/2020	problems based on it
	1/28/2020	problems based on it
5TH		problems based on it
	1/30/2020	problems based on it
	1/31/2020	problems based on it
	2/1/2020	problems based on it
	2/3/2020	problems based on it
	2/4/2020	4) INTEGRATION DEFINATION
1ST	2/5/2020	g) Problems based on above
	2/6/2020	g) Problems based on above
	2/7/2020	g) Problems based on above
	2/8/2020	4) INTEGRATION FORMULA
	2/10/2020	a) Definition of integration as inverse of differentiation
	2/11/2020	b) Integrals of standard functions
2ND	2/12/2020	c) Methods of integration i) Integration by substitution
	2/13/2020	ii) Integration by parts
	2/14/2020	d) Integration of the following forms
	2/15/2020	d) Integration of the following forms
	2/17/2020	e) Definite integral, properties of definite integrals
	2/18/2020	e) Definite integral, properties of definite integrals
3RD	2/19/2020	INTERNAL ASSESMENT 1
	2/20/2020	e) Definite integral, properties of definite integrals
	2/22/2020	e) Definite integral, properties of definite integrals
	2/24/2020	v) Trigonometric function vi) Exponential function vii) Logarithmic function
4TH	2/25/2020	d) Integration of the DIFFERENT forms
	2/26/2020	d) Integration of the DIFFERENT forms
	2/27/2020	d) Integration of the DIFFERENT forms
	2/28/2020	f) Application of integration
	2/29/2020	f) Application of integration
	3/2/2020	i) Area enclosed by a curve and X – axis
	3/3/2020	ii) Area of a circle with centre at origin
	3/4/2020	CLASS TEST 1
1ST	3/5/2020	3) DERIVATIVES a) Derivative of a function at a point
	3/6/2020	3) DERIVATIVES a) Derivative of a function at a point

2ND	3/7/2020	b) Algebra of derivative c) Derivative of standard functions
	3/11/2020	d) Derivative of composite function (Chain Rule)
	3/12/2020	e) Methods of differentiation of i) Parametric function
	3/13/2020	e) Methods of differentiation of i) Parametric function
	3/14/2020	ii) Implicit function iii) Logarithmic function
	3/16/2020	ii) Implicit function iii) Logarithmic function
	3/17/2020	CLASS TEST 2
3RD	3/18/2020	ii) Implicit function iii) Logarithmic function
	3/19/2020	iv) a function with respect to another function
	3/20/2020	iv) a function with respect to another function
	3/21/2020	f) Applications of Derivative
4TH	3/23/2020	i) Successive Differentiation (up to second order)
	3/24/2020	i) Successive Differentiation (up to second order)
	3/25/2020	2ND INTERNAL ASSESMENT
	3/26/2020	i) Successive Differentiation (up to second order)
	3/27/2020	i) Successive Differentiation (up to second order)
	3/28/2020	ii) Partial Differentiation (function of two variables up to second order)
	1ST	3/30/2020
3/31/2020		ii) Partial Differentiation (function of two variables up to second order)
4/2/2020		5) DIFFERENTIAL EQUATION
4/3/2020		a) Order and degree of a differential equation
4/4/2020		b) Solution of differential equation
2ND	4/6/2020	b) Solution of differential equation
	4/7/2020	b) Solution of differential equation
	4/8/2020	i) 1st order and 1st degree equation by the method of separation of variables
	4/9/2020	i) 1st order and 1st degree equation by the method of separation of variables
	4/10/2020	ii) Linear equation
	4/11/2020	, where P,Q are functions of X
3RD	4/13/2020	, where P,Q are functions of X
	4/14/2020	Linear equation PROBLEMS
	4/15/2020	Linear equation PROBLEMS
	4/16/2020	Linear equation PROBLEMS
	4/17/2020	Linear equation PROBLEMS
	4/18/2020	Linear equation PROBLEMS
	4/20/2020	Linear equation PROBLEMS

4TH	4/21/2020	Linear equation PROBLEMS
	4/22/2020	CLASS TEST 3
	4/23/2020	REVISION
	4/24/2020	REVISION
	4/25/2020	REVISION
5TH	4/27/2020	REVISION
	4/28/2020	REVISION
	4/29/2020	REVISION
	4/30/2020	REVISION