



Session: 2020–2021

MERI College of Engineering and Technology (MERI - CET)

Lesson Plan

Name of the Faculty : Ms. Nidhi

Discipline : ME

Semester : 3rd

Subject : MATHEMATICS - III (BSC-MATH- 203G)

Lesson Plan Duration : (from Aug., 2020 to Nov., 2020)

** Work Load (Lecture) per week (in hours): Lectures-03

Week	Theory	
	Lecture Day	Topic (including assignment/test)
1 st (01/08/20) To (08/08/20)	1 st	Multivariable Differential Calculus: Limit,
	2 nd	Continuity
	3 rd	Partial derivatives
2 nd (08/08/20) To (15/08/20)	1 st	Homogeneous functions, Euler's Theorem
	2 nd	Total derivative,
	3 rd	Maxima, Minima and Saddle points,
3 rd (15/08/20) To (22/08/20)	1 st	Lagrange's method of undetermined multipliers
	2 nd	Multivariable Integral Calculus: Double integral
	3 rd	Change of order of integration
4 th (22/08/20) To (29/08/20)	1 st	Change of variables
	2 nd	Applications of double integral to find area enclosed by plane curves, Triple integral
	3 rd	REVISION



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5 th (29/08/20) To (05/09/20)	1 st	Ordinary Differential Equations of first order: Linear and Bernoulli's equations
	2 nd	Exact differential equations,
	3 rd	Equations reducible to exact differential equations
6 th (05/09/20) To (12/09/20)	1 st	Applications of differential equations of first order and first degree to simple electric circuits
	2 nd	Newton's law of cooling
	3 rd	Heat flow and Orthogonal trajectories
7 th (12/09/20) To (19/09/20)	1 st	Ordinary Differential equations of second and higher order
	2 nd	Linear differential equations of second and higher order, Complete solution
	3 rd	Complete solution
8 th (19/09/20) To (26/09/20)	1 st	Complete solution, Complementary function and Particular integral
	2 nd	Method of variation of parameters to find particular integral,
	3 rd	Cauchy's and Legendre's linear