

## TEACHING PLAN FOR THEORY

**Name of Subject Teacher: Ms. C. S. Wadaskar**

<b>Subject: Engg.Mathematics-II      Class: G      Branch: F.Y.Year 2016-2017</b>		
<b>Lecture No</b>	<b>Scheduled Date</b>	<b>Topics to be covered on the scheduled date</b>
1	2/ 1/2017	Syllabus Discussion, Discussion on course objective & course outcome
2	3/1/2017	<b>Unit – I :Differential Equations:</b> Definition, Order and Degree of DE
3	4/1/2017	Formation of DE
4	4/1/2017	<b>Tutorial-1</b>
5	6/1/2017	Examples on DE
6	9/1/2017	Solutions of Variable separable,
7	10/1/2017	Homogeneous DE
8	11/1/2017	<b>TAE-1</b>
9	11/1/2017	<b>Tutorial-2</b>
10	13/1/2017	Exact DE (without Integrating Factor method)
11	16/1/2017	Linear DE and reducible to these types.
12	17/1/2017	More Examples
13	18/1/2017	<b>Unit – II :Applications of Differential Equations:</b> Applications of DE to orthogonal trajectories
14	18/1/2017	<b>Tutorial-3</b>
15	20/1/2017	Rate of decay of radioactive materials
16	23/1/2017	Newton's Law of Cooling
17	23/1/2017	Kirchhoff's Law of Electrical Circuits
18	24/1/2017	Simple harmonic motion

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19	25/1/2017	One–Dimensional Conduction of Heat.
20	25/1/2017	<b>Tutorial-4</b>
21	27/1/2017	<b>TAE-2-Surprise Test</b>
22	30/1/2017	<b>Unit – III : Fourier series</b> : Definition, Dirichlet’s conditions
23	31/1/2017	Full Range Fourier Series
24	1/2/2017	Half Range Fourier Series
25	1/2/2017	<b>Tutorial-5</b>
26	3/2/2017	Harmonic Analysis and Applications to Problems in Engineering.
27	6/2/2017	Applications to Problems in Engineering.
28	7/2/2017	<b>Unit – IV : Multiple Integral &amp; Applications:</b> Basics of Curve Tracing
29	8/2/2017	Integration
30	8/2/2017	<b>Tutorial-6</b>
31	10/2/2017	Double Integration
32	17/2/2017	More Examples double Integration
33	20/2/2017	Triple Integration
34	21/2/2017	More Examples triple Integration
35	22/2/2017	<b>TAE-5-Seminar</b>
36	22/2/2017	<b>Tutorial-7</b>
37	24/2/2017	Volume
38	27/2/2017	More Examples

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39	28/2/2017	<b>Unit – V : Partial Differential Equation:</b> Partial derivatives of composite function
40	1/3/2017	Examples on Partial derivatives of composite function
41	1/3/2017	<b>Tutorial-8</b>
42	3/3/2017	variable to be treated as constants
43	6/3/2017	Euler's theorem on homogeneous functions of two & three variables
44	7/3/2017	Examples on Euler's theorem on homogeneous functions of two & three variables
45	14/3/2017	Implicit functions
46	15/3/2017	Total Derivatives
47	15/3/2017	<b>Tutorial-9</b>
48	17/3/2017	More Examples
49	20/3/2017	More Examples
50	21/3/2017	<b>Unit – VI : Application of Partial Differential Equation</b> ,Lagrange's Method of undetermined multipliers
51	22/3/2017	Examples on Lagrange's Method of undetermined multipliers
52	22/3/2017	<b>Tutorial-10</b>
53	24/3/2017	More Examples Jacobians and their applications
54	27/3/2017	Examples on Jacobians and their applications
55	28/3/2017	Errors and Approximations
56	29/3/2017	Examples
57	29/3/2017	<b>Tutorial-11</b>
58	31/3/2017	<b>TAE-3-Home Assignment</b>
59	3/4/2017	Maxima and Minima of Functions of two variables

Lecture No	Scheduled Date	Topics to be covered on the scheduled date
60	4/4/2017	More Examples on Maxima & Minima
61	5/4/2017	Revision
62	5/4/2017	<b>Tutorial-12</b>
63	7/4/2017	Revision
64	10/4/2017	Revision
65	17/4/2017	Revision
66	18/4/2017	Revision
67	19/4/2017	Revision
68	19/4/2017	<b>Tutorial-14</b>
69	21/4/2017	Revision