



**LESSON PLAN (Page 1 of 11)**

<b>Subject: MATHEATICS -II</b>	<b>Name of the Faculty: R.PADMA (Assistant Professor)</b>
<b>1. B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, 36th Edition, 2010</b>	<b>1. Paras Ram, Engineering Mathematics, 2nd Edition, CBS Publishes</b>
<b>2. Erwin kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley &amp; Sons,2006</b>	<b>2. S. L. Ross, Differential Equations, 3rd Ed., Wiley India, 1984</b>
<b>3. G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9thEdition, Pearson, Reprint, 2002.</b>	

Sl No	Tentative Date/ Completion Date	Contents / Topics	Method of Teaching - Flip / TPS / PI / Blackboard	Resources: PPT/ Handwritten Notes	Text book	Reference book	Number of classes	Remarks
<b>Unit 1 : Ordinary Differential Equations</b>								
1	2.01.2019/	Exact and Bernoulli's equations	Blackboard	Handwritten Notes	TB-1/	RB-2/	2	<b>Besides classroom classes, Course contents will be provided by Google Classes, Site.Google.com/ Class:2018BtechCsc-B CLASS CODE:7vn8xt Class room: Cse-gi 2<sup>nd</sup> year Class code: 1d3rvsi</b>
2	3.01.2019/	Newton's law of cooling, Law of natural growth and decay	Blackboard	Handwritten Notes	TB-1/ TB-2/	RB-2/ RB-3/	1	
3	4&5.12.2019/	Equations not of first degree:Equations solvable for p	Blackboard	Handwritten Notes	TB-1/	RB-2/	2	
4	6&7.2019/	equations solvable for y	Blackboard	Handwritten Notes	TB-1/ TB-2/	RB-2/ RB-3/	2	

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5	8&9.01.2019/	Equations solvable for x and Clairaut's type	Blackboard	Handwritten Notes	TB-2/	RB-2/	1	<b>Besides classroom classes, Course contents will be provided by Google Classes, Site.Google.com/ Class:2018BtechCsc-B CLASS CODE:7vn8xt Class room: Cse-gi 2<sup>nd</sup> year Class code: 1d3rysj</b>
6	17.01.2019/	solving exercise problems	Blackboard	Handwritten Notes	TB-1/	RB-2/ RB-3/	2	
7	24.01.2019/	solving exercise problems	Blackboard	Handwritten Notes			2	

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**Unit 2 : Second order Linear Differential Equations with constant Co-efficient**

Sl No	Tentative Date/ Completion Date	Contents / Topics	Method of Teaching - Flip / TPS / PI / Blackboard	Resources: Video/ PPT/ PDF	Text book	Reference book	Number of classes	Remarks
8	28.01.2019/	Non-Homogeneous terms of t polynomials in $x, e^{ax}V(x)$ and $xV(x)$ he	Blackboard	Handwritten Notes + Video [NPTEL]	TB-1/	RB-2/	1	-do-
9	30.01.2019/	Convergence & Bus mismatch criteria	Blackboard	Handwritten Notes + Video [NPTEL]	TB-1/ TB-2/	RB-2/ RB-3/	2	
10	29.01.2019/	Method of variation parameters	Blackboard	Handwritten Notes	TB-1/	RB-1/	1	Besides classroom classes, Course contents will be provided by Google Classes, <a href="http://Site.Google.com/">Site.Google.com/</a> Class:2018BtechCsc-B
11	30.01.2019/	Equations reducible to linear ODE with constant coefficients	Flip Class	Handwritten Notes	TB-1/ TB-2/	RB-2/ RB-3/	2	

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12	31.01.2019/	Legendre's equation	Blackboard/ TPS		TB-1/	RB-2/	2	<b>CLASS CODE:7vn8xt</b> Class room: Cse-gi 2 <sup>nd</sup> year Class code: 1d3rysj
13	01.02.2019/	Cauchy-Euler equation problems	Blackboard	Handwritten Notes + Video [NPTEL]	TB-1/	RB-2/	1	
<b>Unit 3 : MULTIPLE INTEGRALS</b>								
14	02.02.2019/	Double and triple integrals(cartesian and polar coordinates)	Blackboard	Handwritten Notes	TB-1/	RB-1/	2	<b>Besides classroom classes, Course contents will be provided by Google Classes, Site.Google.com/ Class:2018BtechCsc-B</b> <b>CLASS CODE:7vn8xt</b>
15	03.02.2019/	Change of variables(only Cartesian form)	Blackboard	Handwritten Notes	TB-2/	RB-2/	2	
16	04.02.2019/	Change of variables(Cartesian to polar) for double	Blackboard	Handwritten Notes	TB-1/	RB-1/	1	

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17	05.02.2019/	for triple(Cartesian to spherical and cylindrical	Flip Class	Video	TB-1/	RB-2/	2	<b>Class room: Cse-gi 2<sup>nd</sup> year</b> <b>Class code: 1d3rysj</b>
18	06.02.2019/	Finding Areas and volumes(by double integrals and triple	Blackboard	Handwritten Notes	TB-1/	RB-3/	2	
19	07.02.2019/	Centre of mass and Gravity (Constant and variable densities) by	Blackboard	Handwritten Notes	TB-3/	RB-3/	1	

Sl No	Tentative Date/ Completion Date	Contents / Topics	Method of Teaching - Flip / TPS / PI / Blackboard	Resources: Video/ PPT/ PDF	Text book	Reference book	Number of classes	Remarks
<b>Unit 4 : VECTOR DIFFERENTIATION</b>								
20	08.02.2019/	Introduction: scalar and vector point function	Blackboard	Handwritten Notes	TB-1/	RB-2/	2	<b>Besides classroom classes, Course</b>

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21	09.02.2019/	scalar and vector point function	Blackboard	Handwritten Notes	TB-2/	RB-3/	2	<b>contents will be provided by Google Classes, Site.Google.com/ Class:2018BtechCsc-B CLASS CODE:7vn8xt Class room: Cse-gi and</b>
22	11.02.2019/	Gradient exercise problems	Blackboard	Handwritten Notes + Video [NPTEL]	TB-1/	RB-2/	1	
23	12.02.2019/	Divergence function	Blackboard	Handwritten Notes + Video [NPTEL]	TB-3/	RB-1/	2	
<b>Sl No</b>	<b>Tentative Date/ Completion Date</b>	<b>Contents / Topics</b>	<b>Method of Teaching - Flip / TPS / PI / Blackboard</b>	<b>Resources: Video/ PPT/ PDF</b>	<b>Text book</b>	<b>Reference book</b>	<b>Number of classes</b>	<b>Remarks</b>
24	13.02.2019/	Divergence function exercise problems	Blackboard	Handwritten Notes + Video [NPTEL]	TB-1/	RB-1/	1	<b>Besides classroom classes, Course contents will be provided by Google Classes, Site.Google.com/</b>
25	14.02.2019/	Curl and physical geometrical interpretation	Blackboard	Handwritten Notes	TB-3/	RB-1/	2	

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26	18.02.2019/	Curl exercise problems	Blackboard	Handwritten Notes	TB-1/	RB-2/	2	<b>Class:2018BtechCsc-B</b> <b>CLASS</b> <b>CODE:7vn8xt</b> <b>Class room: Cse-gi</b> <b>2<sup>nd</sup> year</b> <b>Class code: 1d3rysj</b>
27	19.02.2019/	laplacian operators	Blackboard	Handwritten Notes	TB-2/	RB-2/	1	
28	20.02.2019/	vector identities	Blackboard	Handwritten Notes	TB-1/	RB-2/	2	

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Sl No	Tentative Date/ Completion Date	Contents / Topics	Method of Teaching - Flip / TPS / PI / Blackboard	Resources: Video/ PPT/ PDF	Text book	Reference book	Number of classes	Remarks
<b>Unit 4 : VECTOR DIFFERENTIATION</b>								
29	22.02.2019/	Exercise problems	Blackboard	Handwritten Notes	TB-1/	RB-2/	1	<b>Besides classroom classes, Course contents will be provided by Google Classes, Site.Google.com/ Class:2018BtechCsc-B CLASS CODE:7vn8xt Class room: Cse-gi 2<sup>nd</sup> year Class code: 1d3rysj</b>
30	23.02.2019/	Solving applications	Blackboard	Handwritten Notes	TB-1/	RB-3/	2	
31	25.02.2019/	Divergence function exercise problems	Flip Class	Video	TB-2/	RB-2/	2	
32	26.02.2019/	Vector identities problems	Blackboard	Handwritten Notes	TB3/	RB-1/	1	

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33	28.02.2019/	applications	Blackboard		TB-1/	RB-2/	2	
<b>Unit 5 : VECTOR INTEGRATION</b>								
34	01.03.2019/	line integral surface and volume integrals	Blackboard	Handwritten Notes + Video [NPTEL]	TB-1/	RB-1/	2	<b>Besides classroom classes, Course contents will be provided by Google Classes, Site.Google.com/ Class:2018BtechCsc-B CLASS CODE:7vn8xt Class room: Cse-gi</b>
35	2.03.2019/	Integral Theorems: Gauss divergence theorems	Blackboard	Handwritten Notes + Video [NPTEL]	TB-1/	RB-2/	1	
36	5.03.2019/	Stokes theorems	Blackboard	Handwritten Notes + Video [NPTEL]	TB-2/	RB-2/	2	

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37	6.03.2019/	Greens theorems Applications	Blackboard	Handwritten Notes	TB-1/	RB-3/	2	<b>2<sup>nd</sup> year Class code: 1d3rysj</b>
38	7.03.2019/	Revision	Blackboard			RB-2/	1	
<b>Sl No</b>	<b>Tentative Date/ Completion Date</b>	<b>Contents / Topics</b>	<b>Method of Teaching - Flip / TPS / PI / Blackboard</b>	<b>Resources: Video/ PPT/ PDF</b>	<b>Text book</b>	<b>Reference book</b>	<b>Number of classes</b>	<b>Remarks</b>
39	9.03.2019/	Solving Exercise problems	Blackboard	Handwritten Notes	TB-1/	RB-2/	2	<b>Besides classroom classes, Course contents will be provided by Google Classes, Site.Google.com/ Class:2018BtechCsc-</b>
40	18.03.2019/	Solving Exercise problems	Blackboard	Handwritten Notes	TB-2/	RB-2/	2	

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41	28.03.2019/	Revision	Blackboard	Handwritten Notes	TB-1/	RB-2/	2	<b>B CLASS CODE:7vn8xt Class room: Cse-gi 2<sup>nd</sup> year Class code: 1d3rysj</b>
42	30.03.2019/	Revision	Blackboard	Handwritten Notes	TB-3/	RB-3/	1	

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