

LESSON PLAN

Subject Code & Name: 16BS1002, ENGINEERING MATHEMATICS – II

Branch/Semester/Session: ECE-A, II Sem

Faculty Name: Smt.K.Lakshmi

Year: Ist

A.Y: 2017-18

Period	Date (Tentative)	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action (Upon Review)
1	10-1-2018	Introduction (Numerical solutions of Equations and Interpolation)	I	CR		
2	10-1-2018	Solution of Algebraic and Transcendental Equations: The Bisection Method	I	CR		
3	11-1-2018	The Method of False Position	I	CR		
4	12-1-2018	Newton-Raphson Method.	I	CR		
5	17-1-2018	Problem solving	I	CR		
6	18-1-2018	Interpolation: Introduction – Finite differences-Forward Differences	I	CR		
7	19-1-2018	Backward differences –Central differences – Symbolic relations and separation of symbols	I	CR		
8	20-1-2018	Problem solving	I	CR		
9	24-1-2018	Newton's formulae for interpolation(forward & backward)	I	CR		
10	24-1-2018	Problem solving	I	CR		
11	25-1-2018	Problem solving	I	CR		
12	27-1-2018	Interpolation with unevenly spaced points – Lagrange's Interpolation formula.	I	CR		
13	31-1-2018	Problem solving	I	CR		
14	31-1-2018	Numerical Differentiation using finite differences – Trapezoidal rule	I	CR		
15	1-2-2018	Simpson's 1/3 Rule	I	CR		
16	2-2-2018	Problem solving	II	CR		
17	3-2-2018	Simpson's 3/8 Rule.	II	CR		
18	7-2-2018	Problem solving	II	CR		
19	7-2-2018	Solution of Ordinary Differential equations - Solution by Taylor's series	II	CR		
20	8-2-2018	Problem solving	II	CR		
21	8-2-2018	Picard's Method of successive Approximations	II	CR		
22	9-2-2018	Problem solving	II	CR		
23	15-2-2018	Euler's Method & Modified Euler's Method	II	CR		
24	16-2-2018	Problem solving	II	CR		
25	17-2-2018	Runge – Kutta Methods	II	CR		
26	21-2-2018	Predictor – Corrector Methods – Milne's Method	II	CR		
27	21-2-2018	Problem solving	II	CR		
28	22-2-2018	Laplace transforms of standard functions	III	CR		
29	23-2-2018	Laplace transforms of functions using Shifting Theorems	III	CR		
30	24-2-2018	Problem solving	III	CR		
31	28-2-2018	Laplace transforms of derivatives and integrals	III	CR		
32	28-2-2018	Problem solving	III	CR		
33	1-3-2018	Laplace transforms of Unit step function, Dirac's	III	CR		

		delta function				
34	3-3-2018	Inverse Laplace transforms of standard functions	III	CR		
35	14-3-2018	Problem solving	III	CR		
36	14-3-2018	Inverse Laplace transforms of functions using Shifting Theorems	III	CR		
37	15-3-2018	Problem solving	III	CR		
38	16-3-2018	Inverse Laplace transforms using Convolution theorem	III	CR		
39	17-3-2018	Problem solving	III	CR		
40	21-3-2018	Solution of ordinary differential equations using Laplace transforms.	III	CR		
41	21-3-2018	Problem solving	III	CR		
42	22-3-2018	Determination of Fourier coefficients (without proof) – Fourier series expansion of standard functions	IV	CR		
43	23-3-2018	Problem solving	IV	CR		
44	24-3-2018	Fourier series expansion of even and odd functions	IV	CR		
45	28-3-2018	Problem solving	IV	CR		
46	28-3-2018	Fourier series expansion in an arbitrary interval	IV	CR		
47	29-3-2018	Problem solving	IV	CR		
48	31-3-2018	Half-range Fourier sine and cosine series expansion	IV	CR		
49	4-4-2018	Problem solving	IV	CR		
50	4-4-2018	Formation of partial differential equations by elimination of arbitrary constants and arbitrary functions	V	CR		
51	5-4-2018	Problem solving	V	CR		
52	6-4-2018	solutions of first order linear partial differential equation	V	CR		
53	7-4-2018	Problem solving	V	CR		
54	11-4-2018	solutions of first order non-linear (standard type-I) equations	V	CR		
55	11-4-2018	solutions of first order non-linear (standard type-II) equations	V	CR		
56	12-4-2018	solutions of first order non-linear (standard type III) equations	V	CR		
57	13-4-2018	solutions of first order non-linear (standard type IV) equations	V	CR		
58	18-4-2018	Solution of linear Partial differential equations with constant coefficients – Method of Separation of Variables	V	CR		
59	18-4-2018	One dimensional Wave equations.	V	CR		
60	19-4-2018	Problem solving	V	CR		
61	20-4-2018	One dimensional Heat equations.	V	CR		
62	25-4-2018	Tutorial classes	V	CR		
63	25-4-2018	Tutorial classes	V	CR		
64	26-4-2018	Tutorial classes	V	CR		
65	27-4-2018	Tutorial classes	V	CR		
66	27-4-2018	Tutorial classes	V	CR		
67	28-4-2018	Tutorial classes	V	CR		
68	30-4-2018	Tutorial classes	V	CR		

