LESSON PLAN

Subject Code & Name: 16BS1002, MATHEMATICS – II **Year: Ist**
Branch/Semester/Session: EEE-A, II Sem **A.Y: 2017-18**
Faculty Name: B LAXMAN RAO

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

34	3-3-2018	Inverse Laplace transforms of standard functions	III	CR		
35	12-3-2018	Problem solving	III	CR		
36	13-3-2018	Inverse Laplace transforms of functions using Shifting Theorems	III	CR		
37	16-3-2018	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	19-3-2018	Solution of ordinary differential equations using Laplace transforms.	III	CR		
41	20-3-2018	Problem solving	III	CR		
42	23-3-2018	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	24-3-2018	Problem solving	IV	CR		
46	26-3-2018	Fourier series expansion in an arbitrary interval	IV	CR		
47	27-3-2018	Problem solving	IV	CR		
48	30-3-2018	Half-range Fourier sine and cosine series expansion	IV	CR		
49	30-3-2018	Problem solving	IV	CR		
50	31-3-2018	Formation of partial differential equations by elimination of arbitrary constants and arbitrary functions	V	CR		
51	2-4-2018	Problem solving	V	CR		
52	3-4-2018	solutions of first order linear partial differential equation	V	CR		
53	6-4-2018	Problem solving	V	CR		
54	6-4-2018	solutions of first order non-linear (standard type-I) equations	V	CR		
55	7-4-2018	solutions of first order non-linear (standard type-II) equations	V	CR		
56	9-4-2018	solutions of first order non-linear (standard type III) equations	V	CR		
57	10-4-2018	solutions of first order non-linear (standard type IV) equations	V	CR		
58	13-4-2018	Solution of linear Partial differential equations with constant coefficients – Method of Separation of Variables	V	CR		
59	16-4-2018	One dimensional Wave equations.	V	CR		
60	17-4-2018	Problem solving	V	CR		
61	20-4-2018	One dimensional Heat equations.	V	CR		
62	20-4-2018	Tutorial classes	V	CR		
63	21-4-2018	Tutorial classes	V	CR		
64	23-4-2018	Tutorial classes	V	CR		
65	24-4-2018	Tutorial classes	V	CR		
66	27-4-2018	Tutorial classes	V	CR		
67	27-4-2018	Tutorial classes	V	CR		
68	28-4-2018	Tutorial classes	V	CR		