Sardar Vallabhbhai Patel Institute Of Technology- SVIT- V

LESSON PLAN

Name:Harshad R Patel   **Subject: NSM**   Hrs/Week: 3

Designation:Assistant Professor   **Subject code:2140706**   Total weeks: 12

Department: A.S.& H   Class of : S Y IT-I, 4th Sem   Total Hrs: 36

Hrs	Details of Topics to be Covered in one lecture from GTU syllabus	Proposed Date
	Syllabus Lesson No .1: Roots of Equations	
1	Roots of equation using Bisection method	28/12/2017
2	Roots of equation using Newton's Raphson method	30/12/2017
3	Roots of equations using Secant	1/1/2018
4	Roots of equations using faulse position method and Successive approximation.	4/1/2018
5	Budan's Theorem	6/1/2018
6	Barristow's Methods and Case studies	8/1/2018
	Syllabus Lesson No .2: Solution of a System of Linear Equations	
7	Gauss elimination Methods	11/1/2018
8	Gauss Jordan Methods	13/1/2018
9	Gauss Jacobi Methods and Gauss Seidal Methods	18/1/2018
10	ill Coditions	20/1/2018
	Syllabus Lesson No .3: Interpolation	
11	Finite Differences, Forward, Backward and Central operators,	22/1/2018
12	Interpolation by polynomials: Newton's forward ,Backward interpolation	25/1/2018
13	Lagrange Interpolation Method	27/1/2018
14	Newton divide difference Method	29/1/2018
	Syllabus Lesson No .4 : Numerical Integration	
15	Newton-Cotes formula, Trapezoidal	1/2/2018
16	Newton-Cotes formula, Simpson's formulae	3/2/2018
17	Error formulae and Gaussian quadrature formulae	5/2/2018
	Syllabus Lesson No .6 :Numerical solution of Ordinary Differential Equations:	
18	Solution of first order ODE using Euler's Methods	8/2/2018
19	Solution of first order ODE using Modified Euler's Methods	10/2/2018
20	Solution of first order ODE using R-k 2nd, 3rd and 4th order method	12/2/2018
21	Solution of first order ODE using Taylor's Series Method	15/2/2018
22	Predictoe-corrector Methods	17/2/2018
23	General Methods for Boundary value problems	19/2/2018

	Syllabus Lesson No .7 :Curve Fitting	
24	Least square Technique for Linear regression	26/2/2018
25	polynomial and Non-linear regression	1/3/2018
	Syllabus Lesson No .8 :Statestical Methods	
26	Frequence Distribution	3/3/2018
27	Co relation and Regression	5/3/2018
28	Trend analysis, Seasonal effects	8/3/2018
29	Cylindrical fluctuation and Moving average	10/3/2018
30	MSE and Prediction	22/3/2018
31	Non parametric statestics	24/3/2018
32	Confidence interval and Statestical significance	26/3/2018

* in which class is actually conducted

If subject is shared between two faculties then Name of the other faculty:

Date of preparation:
Signature of faculty: ιt **HOD signatur**

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ASAD

Actual Date

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