GOPAL KRISHNA COLLEGE OF ENGINEERING&TECHNOLOGY
GOURAHARI VIHAR, PO: RANIPUT, JEYPORE – 764 005

LESSON PLAN

Name of the Subject: Mathematics-III
Name of the Faculty: Mohit Kumar Aruk
Semester: 3rd Semester **Branch:** All
Semester From: July to December **No. of Weeks:** 14 Weeks

Week	Day	Theory/ Practical Topics	Classes
		Unit 1 – Solution of Non Linear Equation	10
1	1	Bisection Method	1
	2	Secant Method	1
	3	Newton Rapson Method	1
	4	Fixed point Iteration Method	1
2	5	Numerical Solution of system of Linear equation	1
	6	Gauss-Seidel Succesive Over Relaxation	1
	7	Doolit method Crouts	1
	8	Crouts Method	1
	9	Cholesky Method	1
	10	Newton'sforward and backward interpolation Lagrange Interpolation	1
3		Unit 2- **Numerical Differentiation**	08
	11	Numerical Differentiation	1
	12	Integration	1
	13	Solution of Differential Equation	1
	14	The trapezoidal rule	1
4	15	The Simpson's rule	1
	16	Gauss Integration formula	1
	17	Solution of ordinary differential equation :Euler'SMethod Runge-Kutta Method	1
	18	Multistep methods for system and high orderinary differential equation	1
6		. Unit-3 Sample Space	08
	19	Sample Space	1
	20	Probability	1
7	21	Conditional Probability	1
	22	Independent Events	1
	23	Bayee'sTheorem	1
	24	Random variable	1

8	25	Probability distribution	1
	26	Expectation Mean	1
	27	Variance Moments	1
		Unit 4 –Bernouli Trials	09
9	28	Bernouli's Trial	1
	29	Binomial Equation	1
	30	Poission Equatioin	1
	31	Hyper Geometric	1
11	32	Expoential	1
	33	Normal Distribution	1
	34	Bivariate Distribution	1
	35	Distribution Uniform	1
	36	Revision	1
		Unit 5- **Correlation**	10
12	37	Define Correlation	1
	38	Regression Analysis	1
	38	Maximum Likely hood estimate Method of Moments	1
	39	Confidence intervals mean	1
13	40	Variance of a Normal Distribution P value	1
	41	Testing of hypothesis	1
	42	Test for a goodnessof fit	1
	43	Test for single mean	1
14	44	Variance of a normal distribution	1
	45	Revision	1

RECOMMENDED BOOKS

1.E.Kreyszig."-Advanced Engineering Mathematics:,Tenth Edition .Wiley India