Lesson Plan & Work-done Diary for AY:2023-24, ODD Semester

Course with Code: Mathematics for computer Science BMATS301				Faculty: RANGASWAMY S			Semester & Section: III CG	
Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Class No.	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
MODULE-1-PROBABILITY DISTRIBUTION								
1		Review of basic probability theory. Random variables. Probability function and discrete probability function-Problems	Chalk and Talk					
2		Review of basic probability theory. Random variables. Probability function and discrete probability function-Problems	Chalk and Talk					
3		Discrete probability function-Problems	Chalk and Talk					
4		Discrete probability function-Problems. Binomial distribution - Derivation.	Chalk and Talk					
5		Binomial distribution -Problems.	Chalk and Talk					
6		Poisson distribution - Derivation.	Chalk and Talk					
7		Continuous probability distribution -Problems.	Chalk and Talk					
8		Normal distribution-Problems						
9		Exponential distribution						

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MODULE-2- JOINT PROBABILITY DISTRIBUTION AND MARKOV CHAIN								
10		Joint Probability Distribution	Chalk and Talk					
11		Joint Probability Distribution	Chalk and Talk					
12		Joint Probability Distribution	Chalk and Talk					
13		Markov chain –introduction to Stochastic process	Chalk and Talk					
14		Probability vectors	Chalk and Talk					
15		Stochastic matrices	Chalk and Talk					
16		Regular Stochastic Matrices	Chalk and Talk					
17		Markov Chains	Chalk and Talk					
18		Higherkov transition Probabilities	Chalk and Talk					
19		Stationary distribution of Regular Markov Chains and absorbing states	Chalk and Talk					

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MODULE-3- STATISTICAL INFERENCE 1								
20		Introduction,sampling distribution,standard error	Chalk and Talk					
21		Testing of Hypothesis	Chalk and Talk					
22		Testing of Hypothesis						
23		Levels of Significance	Chalk and Talk					
24		Test of Significance	Chalk and Talk					
25		Test of Significance						
26		Confidence limits	Chalk and Talk					
27		Confidence limits						
28		Simple sampling of attributes	Chalk and Talk					
29		Test of significance for Large Samples	Chalk and Talk					
30		**Comparison of Large Samples**	Chalk and Talk					
31		Comparison of Large Samples	Chalk and Talk					

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					MODULE-4 STATISTICAL INFERENCE 2			
32		Sampling variables	Chalk and Talk					
33		Central limit theorem	Chalk and Talk					
34		Confidence limit for Unknown mean	Chalk and Talk					
35		Sampling Theory	Chalk and Talk					
36		Test of Significance for means of two samples						
37		Signification of proportion, difference of means and degree of freedom	Chalk and Talk					
38		Sampling Theory	Chalk and Talk					
39		Student's 't' distribution	Chalk and Talk					
40		**Student's 't' distribution and Chi square distribution**	Chalk and Talk					
41		**F DISTRIBUTION**	Chalk and Talk					

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					MODULE-5 DESIGN OF EXPERIMENTS AND ANOVA			
42		Principles of experimentation in design	Chalk and Talk					

43		Analysis of completely Randomized design	Chalk and Talk					
44		Randomized block design	Chalk and Talk					
45		Anova technique	Chalk and Talk					
46		Basic principles of Anova technique	Chalk and Talk					
47		One way ANOVA	Chalk and Talk					
48		Two way ANOVA	Chalk and Talk					
49		Latin square Design	Chalk and Talk					
50		Analysis of Covariance	Chalk and Talk					

	Activity	Planned	Actual	Remarks
1	Theory Classes	56		
2	Assignments/ Quizzes/ Self-study	2 Assignments 5 Quizzes		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	-		

Planning	Execution
Faculty Signature:	**Faculty Signature:**
HoD Signature:	**HoD Signature:**