

Lesson Plan & Work-done Diary for AY:2024-25, ODD Semester

Course	Course with Code: Mathematics for computer Science BCS301			Facult	y: Dr. Madhus	udhan K V	Semester & 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	
		I	MODULE-1	-PROB	ABILITY DI	STRIBUTION	I		
1		Review of basic probability theory. Random variables (discrete and continuous), probability mass and density functions	Chalk and Talk						
2		Problems	Chalk and Talk						
3		Mathematical expectation, mean and variance. Binomial- distributions- derivations for mean and standard deviation	Chalk and Talk						
4		Binomial- distributions- problems	Chalk and Talk						
5		Poisson distributions - derivations for mean and standard deviation	Chalk and Talk						
6		Poisson distributions - problems	Chalk and Talk						
7		Normal distributions- problems	Chalk and Talk						
8		Normal distributions, Exponential distribution- problems	Chalk and Talk						
9		Exponential distribution- problems	Chalk and Talk						

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		MODULE-2	- JOINT PROBA	BILIT	Y DISTRIBU	FION AND MARKOV CHAIN	I		
10		Joint Probability and Joint Probability Distribution	Chalk and Talk						
11		Marginal Probability Distribution	Chalk and Talk						
12		Independent random variable	Chalk and Talk						
13		Expectation, Variance, Co- variance and correlation	Chalk and Talk	-					
14		Markov chain –introduction to Stochastic process	Chalk and Talk						
15		Probability vectors	Chalk and Talk						
16		Stochastic matrices , Regular Stochastic Matrices	Chalk and Talk						
17		Markov Chains	Chalk and Talk						
18		Higher transition Probabilities	Chalk and Talk						
19		Stationary distribution of Regular Markov Chains and absorbing states	Chalk and Talk						

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			MODULE-3	B- STA	TISTICAL I	NFERENCE 1	I		
20		Introduction, sampling distribution, standard error	Chalk and Talk						
21		Testing of Hypothesis	Chalk and Talk						
22		Levels of Significance	Chalk and Talk						
23		Test of Significance- Problems	Chalk and Talk						
24		Confidence limits	Chalk and Talk						
25		Simple sampling of attributes	Chalk and Talk						
26		Test of significance for Large Samples	Chalk and Talk						
27		Comparison of Large Samples	Chalk and Talk						
28		Comparison of Large Samples- Problems	Chalk and Talk						

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			MODULE-4	STA	FISTICAL IN	NFERENCE 2		
29		Sampling variables	Chalk and Talk					
30		Central limit theorem,Confidence limit for Unknown mean	Chalk and Talk					
31		Sampling Theory	Chalk and Talk					
32		Test of Significance for means of two samples	Chalk and Talk					
33		Problems on Test of Significance for means of two samples	Chalk and Talk					
34		Signification of proportion, difference of means and degree of freedom	Chalk and Talk					
35		Student's 't' distribution	Chalk and Talk					
36		Student's 't' distribution and Chi square distribution	Chalk and Talk					
37		Chi square distribution	Chalk and Talk					
38		F DISTRIBUTION	Chalk and Talk					

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			MODULE-5 DES	IGN OI	EXPERIME	ENTS AND ANOVA			
39		Principles of experimentation in design, Analysis of completely Randomized design, Randomized block design	Chalk and Talk						
40		Anova technique, Basic principles of Anova technique	Chalk and Talk						
41		One way ANOVA	Chalk and Talk						
42		One way ANOVA	Chalk and Talk						
43		Two way ANOVA	Chalk and Talk						
44		Two way ANOVA	Chalk and Talk						
45		Latin square Design	Chalk and Talk						
46		Latin square Design	Chalk and Talk						

	Activity	Planned	Actual	Remarks	
1	Theory Classes	46			
2	Assignments/ Quizzes/ Self-study	5 quizzes			
3	Tutorials/ Extra classes	-	-		
4	Internal Assessments	3	3		
5	5 ICT based Teaching (% of usage in Curriculum)				
	Planning		Execution		
Faculty S	ignature:		Faculty Signature:		
HoD Sign	ature:		HoD Signature:		