

LESSON PLAN

B.B. - Black board

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
1.	1.9.14	Probability Introduced Through sets & Relative frequency.	I	B.B		
2.	2.9.14	Experiments & Sample spaces.	"	"		
3.	4.9.14	Discrete sample spaces	"	"		
4.	5.9.14	Events & Probability definitions & axioms.	"	"		
5.	8.9.14	Mathematical model of Experiments.	"	"		
6.	9.9.14	Probability as a relative frequency.	"	"		
7.	11.9.14	Joint probability	"	"		
8.	12.9.14	Conditional probability, Total probability	"	"		
9.	15.9.14	Baye's Theorem & Independent Events	"	"		
10.	16.9.14	Numerical Examples on joint probability & Baye's Theorem	"	"		
11.	18.9.14	Definition of Random Variable & Expected Value of R.V.	II	"		
12.	19.9.14	Functions of Random Variable.	"	"		
13.	22.9.14	Monotone & Non-monotone transformations	"	"		
14.	23.9.14	Conditions for a function to be a R.V.	"	"		
15.	25.9.14	Classification and properties of R.V.s	"	"		
16.	26.9.14	Distribution & Density function.	"	"		
17.	6.10.14	Binomial density function.	"	"		
18.	7.10.14	Poisson density function	"	"		
19.	9.10.14	Uniform density function.	"	"		
20.	10.10.14	Gaussian density function.	"	"		

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21.	13-10-14	Exponential density function	<u>II</u>	Black Board		
22.	24-10-14	Poisson density func.	"	"		
23.	28-10-14	Introduction to multiple R.V.s & vector Random Variables	<u>III</u>	"		
24.	30-10-14	Joint distribution function	"	"		
25.	31-10-14	Properties of joint distribution	"	"		
26.	3-11-14	Marginal distribution function.	"	"		
27.	6-11-14	Conditional distribution and density	"	"		
28.	7-11-14	Statistical independence and two R.V.s	"	"		
29.	10-11-14	Sum of several Random Variables.	"	"		
30.	11-11-14	Central Limit Theorem	"	"		
31.	13-11-14	Equal & Unequal distributions.	"	"		
32.	14-11-14	Expected Value of a fun of R.V.s	"	"		
33.	17-11-14	Joint moments about the origin.	"	"		
34.	18-11-14	Joint Central Moments	"	"		
35.	20-11-14	Joint Characteristic func.	"	"		
36.	21-11-14	Joint Gaussian Random Variables.	<u>IV</u>	"		
37.	24-11-14	Two R.V.s & N R.V.s Case & properties	"	"		
38.	25-11-14	Transformation of multiple Random Variables	"	"		
39.	27-11-14	Linear transformations of Gaussian R.V.s	"	"		
40.	28-11-14	The Random process Concept.	"	"		

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Period	Date (Tentative)	Topic	Unit No	Teaching Methodology	Remarks	Corrective Action Upon Review
41.	1-12-14	Concept of Stationary & Random process.	<u>IV</u>	Block Control		
42.	2-12-14	Statistical Independence & Random process.	"	"		
43.	4-12-14	First order, second order Random process	"	"		
44.	5-12-14	Wide sense, strict sense Random process	"	"		
45.	8-12-14	Time average & Ergodic and mean-Ergodic	"	"		
46.	9-12-14	Auto-Correlation & its properties	"	"		
47.	11-12-14	Covariance functions	"	"		
48.	12-12-14	Gaussian & Poisson Random processes.	"	"		
49.	15-12-14	Introduction to Power Spectrum.	<u>V</u>	"		
50.	16-12-14	Properties & Relation between Power spectrum	"	"		
51.	18-12-14	Properties of Auto-Correlation function.	"	"		
52.	19-12-14	Cross power density spectrum & properties.	"	"		
53.	22-12-14	Relation between cross-power density	"	"		
54.	23-12-14	Spectrum & Cross Correlation function.	"	"		
55.	26-12-14	Random signal response of linear systems.	"	"		
56.	29-12-14	Convolution, mean, Mean-Squared.	"	"		
57.	30-12-14	Auto Correlation & Cross Correlation	"	"		
58.	1-1-15	Spectral Characteristics of system response.	"	"		
59.	2-1-15	Band pass, Band limited & narrow band processes	"	"		
60.	5-1-15	Persistent noise structure & arbitrary noise sources	"	"		

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Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
61.	6.1.15	Effective noise temperature Average noise figure	"	Black Board		
62.	8.1.15	Q average noise figure of Cascade N/Fs	"	"		
63.	9.1.15	review & previous question papers.	"	"		efw