

LESSON PLAN

BB - Blank Board

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Act Upon Review
1	8/11/13	Introduction to PRSP Set Theory - Definitions	I	B-B		
2	9/11/13	Experiments & Sample spaces (Dice & Coins)	"	"		
3	9/11/13	Probability Definitions & Axioms	"	"		
4	11/11/13	Mathematical model of Experiments	"	"		
5	13/11/13	Probability as a relative frequency	"	"		
6	15/11/13	Joint probability & problems related	"	"		
7	16/11/13	Conditional probability & solved examples	"	"		
8	16/11/13	Total probability & Baye's Theorem & examples	"	"		
9	16/11/13	Definition of Random Variable & Introduction	II	"		
10	20/11/13	Continuous function for P.V. & types of P.V.s	"	"		
11	22/11/13	Distribution function, properties.	"	"		
12	23/11/13	Density function & its properties.	"	"		
13	23/11/13	Examples related to Distribution & Density	"	"		
14	25/11/13	Applications of Distribution & Density functions	"	"		
15	27/11/13	Uniform, Poisson & Geometric distributions.	"	"		
16	29/11/13	Conditional Distribution & Density & properties.	"	"		
17	30/11/13	Introduction to special on one P.V. Expectations	III	"		
18	30/11/13	Function of P.V. & moments about the origin	"	"		
19	2/12/13	Central moments, Variance and Skew	"	"		
20	4/12/13	Chebyshev's Inequality Characteristic function	"	"		

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21	6/12/13	Moment generating function & Examples.	<u>III</u>	BB		
22	7/12/13	Transformations of R.Vs. Monotonic transformation	"	"		
23	7/12/13	Example problems on monotonic transformation	"	"		
24	9/12/13	Non monotonic transformations of Continuous R.Vs	"	"		
25	11/12/13	Introduction to Multiple Random variables	<u>IV</u>	"		
26	13/12/13	Vector Random variables.	"	"		
27	16/12/13	Joint distribution f_{XY} and their properties.	"	"		
28	18/12/13	Marginal distribution f_X & Examples.	"	"		
29	20/12/13	Conditional distributions & Density - defined Introduce.	"	"		
30	21/12/13	Sum of two R.Vs. & several R.Vs	"	"		
31	21/12/13	Central Limit Theorem.	"	"		
32	23/12/13	Sum of unequal distributions.	"	"		
33	23/12/13	Ordering of Multiple R.Vs & Examples.	<u>V</u>	"		
34	27/12/13	Joint moments about the origin	"	"		
35	28/12/13	Joint Central Moment & characteristic f_{XY}	"	"		
36	28/12/13	Jointly Gaussian Random Variables.	"	"		
37	30/12/13	Two Random variable case & N Random variable case.	"	"		
38	11/1/14	Properties of Gaussian Random variables.	"	"		
39	31/1/14	Transformations of Multiple R.Vs.	"	"		
40	4/1/14	Linear transformation	"	"		

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41	4/11/14	Introduction & Concept of Random process.	<u>VI</u>	B.B		
42	6/11/14	Classification of Random process.	"	"		
43	8/11/14	Deterministic & non-deterministic process	"	"		
44	10/11/14	Distribution & Density for random process	"	"		
45	20/11/14	Concept of Stationary & Statistical Independence	"	"		
46	22/11/14	1st & 2nd order & wide sense stationary.	"	"		
47	24/11/14	N-order & Strict-Sense Stationarity	"	"		
48	25/11/14	Time averages & Ergodicity, mean Ergodicity process.	"	"		
49	25/11/14	Auto & Cross correlation fun and properties.	"	"		
50	28/11/14	Co-variance, Gaussian Random process, Poisson process.	"	"		
51	29/11/14	Introduction to power spectrum & properties.	<u>VII</u>	"		
52	31/11/14	Relationship between power spectrum & auto-correlation function	"	"		
53	1/12/14	The Cross power density spectrum.	"	"		
54	11/12/14	Properties of Cross power density spectrum.	"	"		
55	3/12/14	Examples on Auto Correlation & Cross power density spectrum.	"	"		
56	5/12/14	Relationship between Cross power spectrum	"	"		
57	9/12/14	& Cross Correlation function.	"	"		
58	10/12/14	Examples on Cross power spectrum & Correlation	"	"		
59	12/12/14	Random signal models & Response-correlation	<u>VIII</u>	"		
60	14/12/14	mean & mean square value of system response.	"	"		

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61	15/2/14	Auto correlation function & Power, cross correlation function & P.S.D.	"	B.B		
62	15/2/14	Spectral characteristics of System response.	"	"		
63	17/2/14	power density spectrum Cross-power Density spectrum	"	"		
64	19/2/14	Band Pass & Band - limited and narrow-band process	"	"		
65	21/2/14	Modeling of noise sources Resistive & Arbitrarily noise sources	"	"		
66	22/2/14	Effective noise temperature & avg noise figure	"	"		
67	22/2/14	avg noise figure of Cascade H.L.	"	"		

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16/12/13