

TENTATIVE TEACHING PLAN

Name of Teacher: **Prof. Dr. A. W. UMRANI**

Subject: **Probability & Stochastic Processes**

Batch: **14TL S1** Year: **3rd** SEM: **2nd**

Term Starting Date: 18-07-2016

Term Suspension date: 00-00-2016

Sr. #	Topic	No. of Lectures required
1.	Introduction – TTP, LESSON PLAN, ASSESSMENT PLAN	02
2.	Introduction to Probability Theory – Axiomatic Approach	04
3.	Introduction of Random Variables, Distribution and Density Functions	02
4.	Important Distribution Functions – Uniform, Binomial and Poissons	04
5.	Important Density Functions – Normal, Rayleigh and Rice	04
6.	Functions of Random Variables – Moments (Mean, Variance etc.)	02
7.	Joint Distribution, Conditional Distribution	02
8.	Covariance and Correlation,	02
9.	Power Spectrum: PSD and Autocorrelation	02
10.	Random Processes	02
11.	Stationary Process (SSS, WSS and Band limited Processes)	02
12.	Noise – Thermal Noise, Noise representation, White Noise)	02
13.	Random Signal and Noise through a Linear System	04
14.	Signal –to-Noise-Ration (SNR) for Analog Modulations (AM, FM and PM)	02
15.	Introduction to LMS Estimation and Filtering Problems	04
16.	Shot Noise, Noise Figure and Noise Temperature of Comm. System	02
Total Lectures		42

Signature of Teacher:

Dated:

Remarks of DMRC:

Signature of Chairman:

Dated: