LESSON PLAN

NAME OF FACULTY : RINKU DHIMAN
DISCIPLINE : EEE
SEMESTER : 8th
SUBJECT : MODELLING AND SIMULATION
LESSON PLAN DURATION : 15 WEEKS (FROM JANUARY , 2018 TO APRIL, 2018)
WORK LOAD (LECTURE/PRACTICAL)PER WEEK (IN HOURS) : 5 LECTURE, 3 PRACTICAL

WEEK	THEORY		PRACTICAL	
	Lectrue Day	Topic (Including Assignment/Test)	Practical Day	Topic
1st	I	Introduction: Systems	1st	To develop a Program for Matrix n*n.
	II			
	III	Models and simulation,		
	IV			
	V	concept of model		
2nd	I	Model classification	2nd	Add two Matrix.
	II	Model classification		
	III	Mathematical representation		
	IV	Mathematical representation		
	V			
3rd	I	Identification of systems		
	II			
	III	Continuous and discrete	3rd	Multiplication of two Matrix.
	IV			
	V	Static and Dynamic		
4th	I	Deterministic and stochastic systems.		
	II	**Unit 1st test**		
	III	Discrete event systems: Introduction,		
	IV	Statistical model in simulation	4th	Find Inverse of Matrix.
	V			
5th	I	Random number generation,		
	II	Method of generating random variables,		
	III	Method of generating random variables,		
	IV	Generating correlated random numbers.		
	V		5th	Check stability by Routh Hurwitz Criteria.
6th	I	Discrete random variates,		
	II	Discrete random variates,		
	III	Discrete random variates,		
	IV	Single server systems.		
	V			
7th	I	Multiple server systems.	6th	Check stability by Jury Test.
	II			
	III	Queuing notation,		
	IV			
	V	**Unit 2nd test**		
8th	I	State space simulation techniques,		
	II	State space simulation techniques,	7th	Find Eigen value for given Matrix.
	III	State space simulation techniques,		
	IV	Digital simulation languages,		
	V			
9th	I	Analog Simulation of linear systems,		
	II			
	III	Transfer function simulator	8th	Draw a circle for given radius use graphics.
	IV			
	V	Time scaling		
10th	I	Simulation equations		
	II			
	III	Hybrid simulation.		
	IV	Short circuit and steady state	9th	Draw a straight-line use graphics.
	V	Stability studies.		
11th	I	Transmission parameters.		
	II			
	III	**Unit 3rd test**		
	IV	Matlab: Matlab environment,		
	V		10th	Find Eigen value for given Matrix.
12th	I	Matlab programming,		
	II	Matlab programming,		
	III	Matlab programming,		
	IV	Matlab programming,		
	V	Matlab programming,		
13th	I	Simulation in Matlab,	11th	To develop a program for Cramer's Rule
	II			
	III	Simulation in		
	IV	Simulation in Matlab,		
	V			
14th	I	Introduction to dynamic system simulation using SIMULINK,		
	II			
	III	Dynamic system simulation using SIMULINK,.		
	IV			
	V	Modeling with matrices,		
15th	I			
	II	Applications of simulink.		
	III	Applications of simulink.		
	IV			
	V	**Unit-4 test**		