

**Course:** System Simulation and Modelling (10CS82)

**Scheme:2010**

Course Code: 10CS82

Sem:8

	Course Outcome	POs/ PSOs	CL	Class Sessions (approximate)	Tutorial (Hrs)	Lab Sessions (Hrs)
CO 1	Understand the concept of simulation, the fundamental logic, structure, Components, types of simulation models and discrete event simulation.	PO1, PSO1	U	8	NA	NA
CO 2	Develop solutions for application problems using manual simulation and Time Advance algorithm on discrete event simulation.	PO1, PO2, PO4 PSO1	AP	11	NA	NA
CO 3	Understand the concepts of Statistical models and queuing models.	PO1 PO2  PSO1	U	8	NA	NA
CO 4	Generate random numbers using congruential method and testing using acceptance rejection technique and inverse transform technique .	PO1, PO2. PO4 PSO1	AP	11	NA	NA
CO 5	Develop the useful model of input data, absolute performance and estimation with respect to output analysis.	PO1 PO4 PSO1	AP	8	NA	NA
CO 6	Understand the model building, verification, calibration, validation of models and optimization.	PO1 PSO1	U	6	NA	NA
Total Hours of instruction				52		