

COURSE TITLE	TE142428: Discrete Event Systems Credits: 2 ELECTIVE COURSE
LEARNING OBJECTIVES	Students have knowledge of discrete event systems and their applications.
COMPETENCY	The students understood the discrete event systems concept, and able to modeling, analyze, and control of discrete event systems in represented Language, Automata, Petri Net, Dioid Algebra, and Logical.
SUBJECTS	<ul style="list-style-type: none"> • Discrete event systems concept • Discrete event systems models • Discrete event systems analyze • Discrete event systems supervisory control • Sensitivity analyze and concurrent estimation
MAIN REFERENCES	<ul style="list-style-type: none"> • C. G. Cassandras and S. Lafortune, <u>Introduction to Discrete Event Systems</u>, 2nd Edition, Springer, 2008 • Kumar Ratnesh, Vijay K. Garg : <u>Modelling and Control of Logical Discrete Event Systems</u> , Kluwer Academic Publishers,1995.
OPTIONAL REFERENCES	<ul style="list-style-type: none"> • Some papers about discrete event systems from IEEE Journal • E. M. Clarke, Jr., O. Grumberg and D. A. Peled, <u>Model Checking</u>, The MIT Press,1999
PREREQUISITE	Linear System Theory