

COURSE TITLE	TE142309: Discrete Control System Credits: 2 Semester: I
LEARNING OBJECTIVES	The students are able to analyze and design a discrete-time control system.
COMPETENCY	<ul style="list-style-type: none"> • The students have the ability to analyze the discrete-time control system. • The students have the ability to design the discrete-time control system.
SUBJECTS	<ul style="list-style-type: none"> • Introduction to discrete-time system • Modelling of discrete-time system • Stability analysis of discrete-time system • Review of continuous control system design • Design of discrete time control system • State-space representation of discrete time system • State-feedback and output feedback design • Servo and observer state-feedback design
MAIN REFERENCES	<ul style="list-style-type: none"> • Fadali. M. Sam, <u>Diskrit Control Engineering : Analysis and Design</u>, Elsevier Inc.,2009 • Charles L. Phillips and H. Troy Nagle. <u>Diskrit Control System Analysis and Design</u>, third edition, Prentice Hall, 1995. • K. Ogata, <u>Discrete-Time Control Systems</u>, Second Edition, Englewood Cliffs, NJ: Prentice Hall, 1995, ISBN: 0-13-034281-5.
OPTIONAL REFERENCES	-
PREREQUISITE	-