

COURSE TITLE	TE142421: Robot Dynamic and Control Credits: 2 ELECTIVE COURSE
LEARNING OBJECTIVES	Students are able to analyze robot kinematic and its dynamics.
COMPETENCY	<ul style="list-style-type: none"> • The students are able to analyze robot kinematics. • The students are able to analyze robot dynamics. • The students are able to analyze visual servoing.
SUBJECTS	<ul style="list-style-type: none"> • Coordinate transformation • Robot kinematics • Differential motion • Robot dynamics • Robotics Control • Visual feedback
MAIN REFERENCES	<ul style="list-style-type: none"> • Mark W Spong, M Vidyasagar : <u>Robot Dynamics and Control</u>, John Wiley & Sons, 1989. • H Asada, JJE Slotine : <u>Robot Analysis and Control</u>, John Wiley & Sons, 1986. • Fu.K.S. Gon Zalez RoC., Lee CoS.G., <u>Robotics, Control Sensing Vision and Intelligence</u>, McGraw Hill, into Ed., 1987.
OPTIONAL REFERENCES	-
PREREQUISITE	Linear System Theory