

d.General and Transferable Skills: :

1 - Search for information and engage in life-long self-learning.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Path and trajectory planning	10	4	6
Manipulator dynamics; Independent joint control	8	4	4
Force control	8	4	4
Geometric nonlinear control	8	4	4
Computer vision; Visual servo control	10	6	4
Fuzzy control	8	4	4
Robot control system design	8	4	4

Teaching And Learning Methodologies :

Interactive Lecturing

Problem solving

Experiential learning

Discussion

Project

Research

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignment	5.00		
Final Exam	40.00		
Mid- Exam 1I	15.00		
Mid- Exam I	15.00		
Project	10.00		
Quizzes	10.00		
Research	5.00		

Course Notes :

2. Lecture notes on the course Moodle page, FUE website.

Recommended books :

3. Recommended Readings: S. B. Niku, "Introduction to Robotics, analysis, control, applications". John Wiley and Son, 2nd edition

