



ADARSH MANAGEMENT INSTITUTE OF INDIA

B. Tech. in Mechatronics Engineering

Course Name: B.Tech in Mechatronics Engineering.

Duration: 4 Years

Eligibility: 10+2(PCM)

Lateral Entry: Candidate who has three year diploma after 10th can enroll for 3rd Semester of B.Tech. Candidate who has completed B.Sc(PCM) can enroll for 3rd Semester of B.Tech.

First Semester		Second Semester	
1.	English	1.	Value Education
2.	Mathematics I	2.	Mathematics II
3.	Physics	3.	Biology for Engineers
4.	Chemistry	4.	Principles of Environmental Science
5.	Basic Engineering I	5.	Material Science
6.	Project I	6.	Engineering Mechanics
		7.	Basic Engineering II
		8.	Project II
Third Semester		Fourth Semester	
1.	German or Japanese or French Language Phase I	8.	German or Japanese or French Language Phase II
2.	Mathematics III	9.	Mathematics for Mechatronic Systems
3.	Thermodynamics and Heat Transfer	10.	Instrumentation and Control Systems
4.	Electrical Engineering	11.	Mechanics of Solids and Fluids
5.	Electronic Devices and Circuits	12.	Fluid Power Control
6.	Materials Technology	13.	Theory of Machines
7.	Project III	14.	Project IV

Fifth Semester		Sixth Semester	
1.	Manufacturing Technology	7.	Design of Machine Elements
2.	Linear Integrated Circuits and Digital Systems	8.	Microprocessors and Microcontrollers
3.	Sensors and Actuators	9.	Fundamentals of CAD / CAM
4.	PLC and Data Acquisition Systems	10.	Embedded Systems
5.	Elective I	11.	TQM and Reliability Engineering
6.	Project V	12.	Elective II
		13.	Project
Seventh Semester		Eighth Semester	
1.	Economics and Principles of Management	1.	Elective IV
2.	Design of Mechatronic Systems	2.	Elective V
3.	Digital Signal Processing	3.	Project VII
4.	Power Electronics		
5.	Elective III		
6.	Project VI		
Elective-I		Elective-II	
1.		5.	Economics
2.	Management Information System	6.	Behavioral Science
3.	Process Planning and Cost Estimation	7.	Product Design and Process Engineering
4.	Microprocessor and Applications	8.	Materials Management
		9.	Project Management
		10.	Advanced Mathematics