

SHIVAJI UNIVERSITY KOLHAPUR
M. E. (CAD/CAM/CAE)

Semester-I

Sr. No.	Name of the subject	Teaching Scheme(Hrs./ Week)		Examination			Total Marks
		L	T/P	Theor y	T/W	P/O	
1	Advanced Machine Design	3	1*	100	25	-	125
2	Computer Aided Manufacturing	3	-	100	-	-	100
3	Finite Element Analysis	3	-	100	-	-	100
4	Design of Experiments and Research Methodology	3	1*	100	25	-	125
5	Elective – I	3	2	100	25	-	125
6	CAD/CAM Laboratory	-	2	-	50	25	75
7	Design & Analysis Laboratory-I	-	2	-	25	25	50
8	Seminar – I	-	1#	-	25	-	25
Total		15	9	500	175	50	725

L: Lecture T/P: Tutorial/Practical T/W: Term Work P/O: Practical/ Oral Exam.

Semester-II

Sr. No.	Name of the subject	Teaching Scheme(Hrs./ Week)		Examination			Total Marks
		L	T/P	Theor y	T/W	P/O	
1	Manufacturing Systems Design	3	1*	100	25	-	100
2	Product Life Cycle Management	3	1*	100	25	-	125
3	Indl. Automation & Robotics	3	-	100	-	-	100
4	Optimization Techniques	3	1	100	25	-	125
5	Elective - II	3	1	100	25	-	125
6	Design & Analysis Laboratory-II	-	2	-	25	25	50
7	Automation & Simulation Laboratory	-	2	-	25	25	50
8	Seminar - II	-	1#	-	25	-	25
Total		15	9	500	175	50	725

L: Lecture T/P: Tutorial/Practical T/W: Term Work P/O: Practical/ Oral Exam.

* : Term work should also include presentations in front of the class.

Note: A Mini project in related area to be undertaken and completed during vacation after Semester-II. The report shall be submitted and assessed at the beginning of the Semester-III.

List of Elective Subjects

Elective-I

1. Mechatronic System Design
2. Technology Management.
3. Tribology & Surface Engineering
4. Nanotechnology
5. Design & Development of CAD/CAM/CAE Software
6. Advanced Materials & Processing

Elective-II

1. Computational Fluid Dynamics.
2. Quality & Reliability Engineering
3. System Dynamics & Simulation
4. Artificial Intelligence
5. Automatic Control Engineering
6. CAD/CAM/CAE Practices in Metal Forming
7. Rapid Prototyping

SHIVAJI UNIVERSITY KOLHAPUR
M. E. MECHANIAL (CAD/CAM/CAE)

Semester-III

Sr. No.	Name of the subject	Teaching Scheme (Hrs./Week)		Examination			Total Marks
		L	T/P	Theory	T/W	P/O	
1	Mini Project	-	-	-	50	-	50
2	Seminar - III	-	1	-	25	25	50
3	Dissertation Phase - I	-	2	-	50	-	50
Total		-	3#	-	125	25	150

25

Part-IV

Sr. No.	Name of the subject	Teaching Scheme		Examination			Total Marks
		L	T/P	Theory	T/W	P/O	
1	Dissertation Phase - II	-	4	-	100	200	300
Total		-	4#	-	100	200	300

The teaching workload is for a group of two students.

Eligibility for admission to this course is same as that for M.E. (Mech.- Prod.Engg.) or M.E.(Mech. –Design Engg.) of Shivaji University, Kolhapur.