

**POST GRADUATION IN MECHANICAL ENGINEERING ( CAD/CAM )**  
**COURSE STRUCTURE AND EXAMINATION SCHEME**

**SAURASHTRA UNIVERSITY**

**SEMESTER – I**

Sub No.	Subject	Teaching Scheme			Examination Scheme					
		Theory (hrs.)	Practical (hrs.)	Total (hrs.)	Theory		Sess. Marks	Pr./Oral Marks	T/W Marks	Total Marks
					Hours	Marks				
PGCC101	Advance Manufacturing Process and Analysis	3	2	5	3	100	50	50	25	225
PGCC 102	Advanced Dynamics of Machines	3	2	5	3	100	50	50	25	225
PGCC 103	Advanced Machine Design - 1	3	3	6	3	100	50	50	25	225
PGCC 104	Computer Aided Design	3	2	5	3	100	50	50	25	225
PGCC 105	Finite Element Methods	3	2	5	3	100	50	50	25	225
PGCC 106	Advance Mechanical Engineering Software Practice	-	4	4	-	-	-	25	25	50
	<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>30</b>		<b>500</b>	<b>250</b>	<b>275</b>	<b>150</b>	<b>1175</b>

**SEMESTER – II**

Sub No.	Subject	Teaching Scheme			Examination Scheme					
		Theory (hrs.)	Practical (hrs.)	Total (hrs.)	Theory		Sess. Marks	Pr./Oral Marks	T/W Marks	Total Marks
					Hours	Marks				
PGCC201	Computer Integrated Manufacturing	3	2	5	3	100	50	50	25	225
PGCC 202	Computer Aided Production Planning	3	2	5	3	100	50	50	25	225
PGCC 203	Advanced Machine Design - II	3	3	6	3	100	50	50	25	225
PGCC 204	Robotics and Artificial Intelligence	3	2	5	3	100	50	50	25	225
PGCC 205	Automation in Production & Quality Engineering	3	2	5	3	100	50	50	25	225
PGCC206	Seminar	-	4	4	-	-	-	25	25	50
	<b>TOTAL</b>	<b>15</b>	<b>15</b>	<b>30</b>		<b>500</b>	<b>250</b>	<b>275</b>	<b>150</b>	<b>1175</b>

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**POST GRADUATION IN MECHANICAL ENGINEERING ( CAD/CAM )**  
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**M.E (CAD/CAM)**  
**SECOND YEAR (Semester III and IV Combined)**

Sub No.	Subject	Teaching Scheme			Examination Scheme		
		Theory (hr.)/W	Practical (hr.)/W	Total (hr.)/W	Practical/Oral Marks	Term Work	Total Marks
PGCC 301	Dissertation Based on Project Work	-	30	30	<b>300</b>	<b>200</b>	<b>500</b>

**Note:-**

The topic of dissertation selected should be related to the areas of CAD-CAM applications. Use of computer as a tool for Conceptualization, Design, Management, Quality control, Experimental study etc. is to be encouraged and preferred. During initial phase exhaustive literature survey is to be carried out and the clear objectives are to be arrived at. All the necessary prerequisites for actual research should be completed. The dissertation document should contain following.

1. Literature and industrial survey
2. Problem formulation & Statement

} To be completed in the period decided in consultation with guide.

3. Design and Drawing of experimental setup
4. Selection of method for analysis / design of problem
5. Algorithm and flowchart preparation

} To be completed in the remaining period of the Year.

The above work should be presented in the form of dissertation document and to be defended before examiners.