

**AFFILIATED INSTITUTIONS**  
**ANNA UNIVERSITY, CHENNAI**  
**REGULATIONS 2013**  
**CURRICULUM I TO VI SEMESTERS (PART TIME)**  
**M.E. CAD / CAM**

**SEMESTER I**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	MA7169	Advanced Numerical Methods	3	1	0	4
2	ED7102	Computer Application in Design	3	0	2	4
3	CC7101	Finite Element Applications in Manufacturing Engineering	3	1	0	4
<b>PRACTICAL</b>						
4	CC7111	CAD / CAE Laboratory	0	0	2	1
<b>TOTAL</b>			<b>9</b>	<b>2</b>	<b>4</b>	<b>13</b>

**SEMESTER II**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	CC7201	Design for Manufacture, Assembly and Environments	3	0	0	3
2	CM7001	Additive Manufacturing	3	0	0	3
3	CM7202	Applied Materials Engineering	3	0	0	3
<b>PRACTICAL</b>						
4	CC7211	CAM Laboratory	0	0	2	1
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>2</b>	<b>10</b>

**SEMESTER III**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	ED7204	Integrated Mechanical Design	3	1	0	4
2	CM7201	Competitive Manufacturing systems	3	0	0	3
3		Elective I	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>0</b>	<b>10</b>

**SEMESTER IV**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	CC7202	Integrated Product and Processes Development	3	1	0	4
2		Elective II	3	0	0	3
3		Elective III	3	0	0	3
<b>PRACTICAL</b>						
4	CC7212	Design Project	0	0	3	2
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>3</b>	<b>12</b>

**SEMESTER V**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1		Elective IV	3	0	0	3
2		Elective V	3	0	0	3
3		Elective VI	3	0	0	3
<b>PRACTICAL</b>						
4	CC7311	Project Work (Phase I)	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

**SEMESTER VI**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>PRACTICAL</b>						
1	CC7411	Project Work (Phase II)	0	0	24	12
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>

**TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE: 72**

## LIST OF ELECTIVES FOR M.E. CAD / CAM

### Elective I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	CC7001	Computer Control in Process Planning	3	0	0	3
2	ED7001	Optimization Techniques in Design	3	0	0	3
3	ED7101	Advanced Mechanics of Materials	3	0	0	3
4	ED7005	Design of Material Handling Equipments	3	0	0	3

### Elective II & III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CC7002	Mechatronics Applications in Manufacturing	3	0	0	3
2.	CC7003	Industrial Safety Management	3	0	0	3
3.	CD7003	Advanced Tool Design	3	0	0	3
4.	ED7202	Mechanisms Design and Simulation	3	0	0	3
5.	IC7072	Computational Fluid Dynamics	3	0	0	3
6.	CC7004	Reliability in Engineering Systems	3	0	0	3
7.	ED7071	Industrial Robotics and Expert Systems	3	0	0	3

### Elective IV, V & VI

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	ED7004	Design of Hydraulic and Pneumatic Systems	3	0	0	3
2.	CC7005	Data Communication in CAD/CAM	3	0	0	3
3.	CC7006	Performance Modelling and Analysis of Manufacturing System	3	0	0	3
4.	ED7010	Tribology in Design	3	0	0	3
5.	CC7007	Metrology and Non Destructive Testing	3	0	0	3
6.	CC7008	Quality Management Techniques	3	0	0	3
7.	CC7009	Design for Cellular Manufacturing Systems	3	0	0	3