

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

**SEMESTER I**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	MA7165	Applied Probability and Statistics	3	1	0	4
2	MF7101	Advanced Materials Technology	3	0	0	3
3	MF7102	Automated Computer Integrated Manufacturing Systems	3	0	0	3
<b>PRACTICAL</b>						
4	MF7111	CAD/CAM Laboratory	0	0	4	2
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>4</b>	<b>12</b>

**SEMESTER II**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	MF7201	Optimization Techniques in Manufacturing	3	0	0	3
2	MF7202	Manufacturing Metrology and Quality Engineering	3	0	0	3
3	MF7203	Theory of Metal Forming	3	0	0	3
<b>PRACTICAL</b>						
4	MF7211	Automation and Metal Forming Laboratory	0	0	4	2
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>4</b>	<b>11</b>

**SEMESTER III**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	MF7103	Micro Manufacturing	3	0	0	3
2	MF7104	Robot Design and Programming	3	0	0	3
3		Elective I	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>0</b>	<b>9</b>

**SEMESTER IV**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1	MF7204	MEMS and Nanotechnology	3	0	0	3
2		Elective II	3	0	0	3
3		Elective III	3	0	0	3
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>0</b>	<b>9</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	MF7311	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	MF7411	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 = 68**

### LIST OF ELECTIVES FOR M.E. MANUFACTURING ENGINEERING

#### Elective I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	MF7001	Fluid Power Automation	3	0	0	3
2.	MF7002	Design for Manufacture and Assembly	3	0	0	3
3.	MF7003	Advances in Casting and Welding	3	0	0	3
4.	MF7004	Metal Cutting Theory and Practice	3	0	0	3

#### Elective II & III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	MF7005	Finite Element Methods for Manufacturing Engineering	3	1	0	4
2.	MF7006	Materials Management	3	0	0	3
3.	MF7007	Industrial Ergonomics	3	0	0	3
4.	MF7008	Polymers and Composite Materials	3	0	0	3
5.	MF7009	Non-Destructive Evaluation	3	0	0	3
6.	MF7010	Lean Manufacturing	3	0	0	3
7.	MF7011	Quality and Reliability Engineering	3	0	0	3

**Elective IV, V, VI**

<b>SL. NO</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1.	MF7012	Computer Aided Product Design	3	0	0	3
2.	MF7013	Financial Management	3	0	0	3
3.	MF7014	Manufacturing Management	3	0	0	3
4.	MF7015	Research Methodology	3	0	0	3
5.	MF7016	Nanotechnology	3	0	0	3
6.	MF7017	Materials Testing and Characterization Techniques	3	0	0	3
7.	MF7018	Mechatronics	3	0	0	3