

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

**SEMESTER I**

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
1	MA7169	Advanced Numerical Methods	3	1	0	4
2	TE7101	Advanced Heat Transfer	3	1	0	4
3	IC7101	Thermodynamics for IC Engineering	3	1	0	4
<b>TOTAL</b>			<b>9</b>	<b>3</b>	<b>0</b>	<b>12</b>

**SEMESTER II**

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
1	IC7201	Electronic Engine Management Systems	3	0	0	3
2	IC7202	Internal Combustion Engine Design	3	1	0	4
3	IC7203	Instrumentation for Thermal Systems	3	0	0	3
<b>PRACTICALS</b>						
4	IC7211	Seminar Presentation	0	0	2	1
<b>TOTAL</b>			<b>9</b>	<b>1</b>	<b>2</b>	<b>11</b>

**SEMESTER III**

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
1	IC7102	Alternative Fuels for IC Engines	3	0	0	3
2	IC7103	Combustion and Emission in Engines	3	0	0	3
3		Elective I	3	0	0	3
<b>PRACTICALS</b>						
4	IC7111	I.C. Engineering Practices Laboratory	0	0	3	2
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>3</b>	<b>11</b>

**SEMESTER IV**

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
1		Elective II	3	0	0	3
2		Elective III	3	0	0	3
3		Elective IV	3	0	0	3
<b>PRACTICALS</b>						
4.	IC7212	Simulation Laboratory	0	0	3	2
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>3</b>	<b>11</b>

### SEMESTER V

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
1		Elective V	3	0	0	3
2		Elective VI	3	0	0	3
3		Elective VII	3	0	0	3
<b>PRACTICALS</b>						
4.	IC7311	Project Work (Phase I)	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

### SEMESTER IV

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	IC7411	Project Work (Phase II)	0	0	24	12
<b>TOTAL</b>			<b>0</b>	<b>0</b>	<b>24</b>	<b>12</b>

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

### ELECTIVES FOR M.E. INTERNAL COMBUSTION ENGINEERING

#### Elective I

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
1	IC7001	Engine Pollution and Control	3	0	0	3
2	IC7002	Engine Auxiliary Systems	3	0	0	3
3	IC7003	Aircraft and Space Propulsion	3	0	0	3
4	IC7004	Manufacturing and Testing of Engine Components	3	0	0	3
5	IC7005	Marine Diesel Engines	3	0	0	3

#### Elective II, III & IV

SL. No	COURSE CODE	COURSE TITLE	L	T	P	C
1	IC7006	Simulation of I.C. Engine Processes	3	0	0	3
2	IC7007	Supercharging and Scavenging	3	0	0	3
3	IC7008	Fluid Flow and Heat Transfer in Engines	3	0	0	3
4	IC7009	Computational Fluid Dynamics for Thermal Systems	3	0	0	3
5	IC7010	Flow Visualisation Techniques for I.C. Engines	3	0	0	3

**Elective V, VI & VII**

<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	TE7009	Boundary Layer Theory and Turbulence	3	0	0	3
2	IC7011	Combustion and Reaction Kinetics in I.C. Engines	3	0	0	3
3	IC7012	Homogeneous Charge Compression Ignition Combustion in Engines	3	0	0	3
4	EY7202	Design and Analysis of Turbomachines	3	0	0	3
5	IC7013	Automobile Engineering	3	.0	0	3