

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

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MA7169	Advanced Numerical Methods	3	1	0	4
2	ED7102	Computer Applications in Design	3	0	2	4
3	ED7103	Quality Concepts in Design	3	0	0	3
PRACTICAL						
4	ED7111	CAD Laboratory	0	0	2	1
TOTAL			9	1	4	12

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	ED7201	Finite Element Methods in Mechanical Design	3	1	0	4
2	ED7202	Mechanisms Design and Simulation	3	0	2	4
3	ED7204	Integrated Mechanical Design	3	1	0	4
PRACTICAL						
4	ED7211	Analysis and Simulation Laboratory	0	0	2	1
5	ED7212	Design Project	0	0	3	2
TOTAL			9	2	7	15

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	ED7101	Advanced Mechanics of Materials	3	0	0	3
2	ED7104	Vibration Analysis and Control	3	0	2	4
3		Elective I	3	0	0	3
TOTAL			9	0	2	10

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	ED7203	Mechanical Behavior of Materials	3	0	0	3
2		Elective II	3	0	0	3
3		Elective III	3	0	0	3
TOTAL			9	0	0	9

SEMESTER V

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1		Elective IV	3	0	0	3
2		Elective V	3	0	0	3
3		Elective VI	3	0	0	3
PRACTICAL						
4	ED7311	Project Work (Phase I)	0	0	12	6
TOTAL			9	0	12	15

SEMESTER VI

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1	ED7411	Project Work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE = 73

LIST OF ELECTIVES FOR M.E. ENGINEERING DESIGN

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	ED7001	Optimization Techniques in Design	3	0	0	3
2.	ED7003	<u>Composite Materials and Mechanics</u>	3	0	0	3
3	ED7005	<u>Design of Material Handling Equipments</u>	3	0	0	3

SEMESTER II (Elective II & III)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	ED7006	<u>Plates and Shells</u>	3	0	0	3
2.	ED7007	<u>Modal Analysis of Mechanical Systems</u>	3	0	0	3
3.	ED7008	<u>Advanced Metal Forming Techniques</u>	3	0	0	3
4.	ED7010	<u>Tribology in Design</u>	3	0	0	3
5.	ED7012	<u>Surface Engineering</u>	3	0	0	3

SEMESTER III (Elective IV, V & VI)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1.	ED7002	<u>Engineering Fracture Mechanics</u>	3	0	0	3
2.	ED7004	<u>Design of Hydraulic and Pneumatic Systems</u>	3	0	0	3
3	ED7009	<u>Design of Pressure Vessel and Piping</u>	3	0	0	3
4.	ED7011	<u>Bearing Design and Rotor Dynamics</u>	3	0	0	3
5	ED7013	<u>Advanced Finite Element Analysis</u>	3	0	0	3
6	IC7072	<u>Computational Fluid Dynamics</u>	3	0	0	3
7	CC7201	Design for Manufacture Assembly and Environments	3	0	0	3