AFFILIATED INSTITUTIONS

ANNA UNIVERSITY, CHENNAI

REGULATIONS 2013

CURRICULUM I TO VI SEMESTERS (PART TIME)

M.E. PRODUCT DESIGN AND DEVELOPMENT

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	PD7103	Industrial Design	3	0	2	4
PRACTICAL						
4	PD7111	CAD and CAM Laboratory	0	0	2	1
		TOTAL	9	1	6	13

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	PD7201	Integrated Product Design and Process Development	3	1	0	4
3	PD7202	Product and Process Engineering Tools	3	0	0	3
PRACTICAL						
4	PD7211	Design Project	0	0	3	2
		TOTAL	9	2	3	13

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	PD7101	Introduction to Product Development	3	0	0	3
2	PD7102	Quality Concepts in Product Development	3	0	0	3
3		Elective I	3	0	0	3
PRACTICAL						
4	PD7112	Product Data Analysis	0	0	2	1
		TOTAL	9	0	2	10

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	PD7203	Materials for Product Design	3	1	0	4
2		Elective II	3	0	0	3
3		Elective III	3	0	0	3
PRACTICAL						
4	PD7212	New Product Design Studio Laboratory	0	0	2	1
		TOTAL	**9**	**1**	**2**	**11**

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	PD7301	Marketing Research	3	0	0	3
2.		Elective IV	3	0	0	3
3.		Elective V	3	0	0	3
PRACTICAL						
4.	PD7311	Project Work (Phase I)	0	0	12	6
		TOTAL	**9**	**0**	**12**	**15**

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1.	PD7411	Project Work (Phase II)	0	0	24	12
		TOTAL	**0**	**0**	**24**	**12**

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE =74

LIST OF ELECTIVES FOR M.E. PRODUCT DESIGN AND DEVELOPMENT

Elective I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	PD7001	Creativity in Design	3	0	0	3
2	PD7002	Enterprise Resource Planning	3	0	0	3
3	ED7004	Design of Hydraulic and Pneumatic Systems	3	0	0	3
4	ED7001	Optimization Techniques in Design	3	0	0	3
5	CM7001	Additive Manufacturing	3	0	0	3

Elective II & III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	PD7003	Design Paradigm	3	0	0	3
2	PD7004	Micro Electro Mechanical Systems	3	0	0	3
3	ED7071	Industrial Robotics And Expert Systems	3	0	0	3
4	ED7007	Modal Analysis of Mechanical Systems	3	0	0	3
5	CC7201	Design for Manufacture Assembly and Environments	3	0	0	3
6	IC7072	Computational Fluid Dynamics	3	0	0	3

Elective IV & V

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	PD7005	Reverse Engineering	3	0	0	3
2	PD7006	Product Design for Energy and Environment	3	0	0	3
3	PD7007	Intellectual Property Rights and Patent laws	3	0	0	3
4	ED7010	Tribology in Design	3	0	0	3
5	ED7013	Advanced Finite Element Analysis	3	0	0	3
6	PD7008	Maintenance Engineering	3	0	0	3
7	ED7011	Bearing Design and Rotor Dynamics	3	0	0	3
8	CD7006	Integrated Manufacturing Systems	3	0	0	3