

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

SEMESTER I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	MA7170	Advanced Mathematical Methods	3	1	0	4
2	AO7101	Aerodynamics	3	1	0	4
3	AO7103	Aerospace Propulsion	3	1	0	4
PRACTICAL						
4	AO7111	Aerodynamics Laboratory	0	0	4	2
TOTAL			9	3	4	14

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	AO7201	Flight Mechanics	3	1	0	4
2	AO7202	Finite Element Methods	3	1	0	4
3	AO7204	Composite Materials and Structures	3	0	0	3
PRACTICAL						
4	AO7211	Structures Laboratory	0	0	4	2
TOTAL			9	2	4	13

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	AO7102	Aircraft Structural Mechanics	3	1	0	4
2	AO7104	Theory of Vibrations	3	0	0	3
3		Elective I	3	0	0	3
TOTAL			9	1	0	10

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	AO7203	Computational Fluid Dynamics in Aerospace Engineering	3	1	0	4
2		Elective II	3	0	0	3
3		Elective III	3	0	0	3
TOTAL			9	1	0	10

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
PRACTICAL						
3.	AO7311	Project Work (Phase I)	0	0	12	6
TOTAL			6	0	12	12

SEMESTER VI

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICAL						
1.	AO7411	Project Work (Phase II)	0	0	24	12
TOTAL			0	0	24	12

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE = 71

LIST OF ELECTIVES FOR M.E. AERONAUTICAL ENGINEERING

Elective I

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	AO7001	Boundary Layer Theory	3	0	0	3
2	AO7002	Aircraft Design	3	0	0	3
3	AO7003	Industrial Aerodynamics	3	0	0	3
4	AO7004	Helicopter Aerodynamics	3	0	0	3
5	AO7005	Structural Dynamics	3	0	0	3
6	AO7006	Aero Elasticity	3	0	0	3

Elective II & III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	AO7007	Theory of Plates and Shells	3	0	0	3
2	AO7008	High Temperature Problems in Structures	3	0	0	3
3	AO7009	Fatigue and Fracture Mechanics	3	0	0	3
4	AO7010	Theory of Elasticity	3	0	0	3
5	AO7011	Hypersonic Aerodynamics	3	0	0	3
6	AO7012	High Temperature Gas Dynamics	3	0	0	3
7	AO7013	Wind Power Engineering	3	0	0	3

Elective IV & V

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	AO7014	Experimental Stress Analysis	3	0	0	3
2	AO7015	Computational Heat Transfer	3	0	0	3
3	AO7016	Advanced Propulsion Systems	3	0	0	3
4	AO7017	Experimental Aerodynamics	3	0	0	3
5	AO7018	Rocketry and Space Mechanics	3	0	0	3
6	AO7019	High Speed Jet Flows	3	0	0	3
7	AO7020	Combustion in Jet and Rocket Engines	3	0	0	3
8	AO7021	Propeller Aerodynamics	3	0	0	3
9	AO7022	Aerospace Guidance and Control	3	0	0	3