

PSN COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
MELATHEDIYOOR-627 152
B.E DEGREE PROGRAMME AERONAUTICAL ENGINEERING
REGULATION - 2012
CURRICULUM

Semester III

S.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	001001	Transformation Techniques	3	1	0	3
2	001002	Engineering Mechanics	3	1	0	3
3	001003	Aero Engineering Thermodynamics	3	1	0	3
4	001004	Mechanics Of Fluids	3	1	0	3
5	001005	Mechanics Of Solids	3	0	0	3
6	001006	Fundamentals Of Aeronautics	3	0	0	3
Practical						
7	001101	Fluid Mechanics And Machinery Laboratory	0	0	3	2
8	001102	Thermodynamics Laboratory	0	0	3	2
9	001103	Strength Of Materials Laboratory	0	0	3	2
Total Credits For Semester -III			18	4	9	24

Semester IV

S.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	001007	Numerical Methods	3	1	0	3
2	001008	Aerodynamics I	3	0	0	3
3	001009	Production Technology	3	0	0	3
4	001010	Aircraft Systems And Instrumentation	3	0	0	3
5	001011	Aircraft Structures I	3	1	0	3
6	001012	Mechanics Of Machines	3	0	0	3
Practical						
7	001104	Communication Skills Laboratory	0	0	3	2
8	001105	Aerodynamics Lab	0	0	3	2
9	001106	Manufacturing Technology Laboratory	0	0	3	2
Total Credits For Semester -IV			18	2	9	24

Semester V

S. No.	Sub Code	Course Title	L	T	P	C
Theory						
1.	001013	Principles Of Management	3	0	0	3
2.	001014	Aircraft Performance	3	0	0	3
3.	001015	Aircraft Structures II	3	1	0	3
4.	001016	Aerodynamics II	3	1	0	3
5.	001017	Propulsion I	3	1	0	3
6.	001018	Control Engineering	3	0	0	3
Practical						
7.	001107	Aircraft Structures Lab	0	0	3	2
8.	001108	Airframe Lab	0	0	3	2
9.	001109	Aircraft Components & Drafting Lab	0	0	3	2
Total Credits For Semester -V			18	3	9	24

Semester VI

S.no	Subject code	Subject name	L	T	P	C
Theory						
1	001019	Avionics	3	0	0	3
2	001020	Aircraft & High Temperature Materials	3	0	0	3
3	001021	Flight Dynamics	3	1	0	3
4	001022	Propulsion –II	3	1	0	3
5	001023	Supersonic & Hypersonic Aerodynamics	4	0	0	4
6	#	Elective I*	3	0	0	3
Practical						
7	001110	Aircraft Design Project – I	0	0	3	2
8	001111	Propulsion Lab	0	0	3	2
9	001112	Aircraft Repair and Maintenance Lab	0	0	3	2
Total Credits For Semester -VI			19	2	9	25

Electives For VI

Elective – I *

S. No.	Subject code	Course title	L	T	P	C
1.	001201	Heat Transfer	3	0	0	3
2.	001202	Fatigue And Fracture Mechanics	3	0	0	3
3.	001203	Wind Tunnel Techniques	3	0	0	3
4.	001204	Industrial Aero Dynamics	3	0	0	3

Semester VII

S.no	Subject code	Subject name	L	T	P	C
Theory						
1	001024	Composite Materials And Structures	3	1	0	3
2	001025	Helicopter Engineering	3	1	0	3
3	001026	Space Mechanics	3	1	0	3
4	001027	Total Quality Management	3	0	0	3
5	#	Elective II**	3	0	0	3
6	#	Elective III***	3	0	0	3
Practical						
7	001113	Aircraft Design Project – Ii	0	0	3	2
8	001114	Aircraft Systems Lab	0	0	3	2
9	001301	Project Phase-I & Seminar	0	0	2	1
Total Credits For Semester -VII			18	3	8	23

Elective – II & Elective III For VII Semester

Elective – II **

S.NO	SUBJECT CODE	Course Title	L	T	P	C
1.	001205	Finite Elements Methods In Aerospace Engineering	3	0	0	3
2.	001206	Computational Fluid Dynamics	3	0	0	3
3.	001207	Vibrations And Aero Elasticity	3	0	0	3

4.	001208	Optimization Techniques	3	0	0	3
5.	001209	Cryogenic Engineering	3	0	0	3
6.	001210	Theory Of Elasticity	3	0	0	3

Elective – III ***

2.	001212	CAR / JAR	3	0	0	3
3.	001213	Aircraft Powerplant And Maintenance Engineering	3	0	0	3
4.	001214	Aircraft Overhauling	3	0	0	3
5.	001215	Aircraft Production And Planning Management	3	0	0	3
6.	001216	Aero Engine Maintenance And Repair	3	0	0	3

Semester VIII

S. No	SUBJECT CODE	Course Title	L	T	P	C
1.	***	Rockets And Missiles	3	0	0	3
2.	***	Aircraft General Engineering And Maintenance	3	0	0	3
3.	***	Elective – IV****	3	0	0	3
PRACTICAL						
4.	***	Comprehension & Technical Seminar	0	0	2	1
5.	***	Project Work	0	0	15	10
TOTAL CREDITS FOR SEMESTER -VIII			10	1	18	20

Elective For VIII Semester

Elective – IV****

S. No.	SUBJECT CODE	Course Title	L	T	P	C
1.	***	Air Traffic Control And Planning	3	0	0	3
2.	***	Air Transportation & Aircraft Maintenance	3	0	0	3

3.	***	Helicopter Maintenance	3	0	0	3
4.	***	Project Management	3	0	0	3
5.	***	UAV Design	3	0	0	3
6.	***	Sensors & Instrumentation	3	0	0	3

*** Subject Code To Be Alloted

Total Number of Credits From III to VIII = 140 Credits