

PSN COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
MELATHEDIYOOR-627 152
B.E DEGREE PROGRAMME AERONAUTICAL ENGINEERING
REGULATION - 2013
CURRICULUM

Semester III

S.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	101001	Transformation Techniques	3	1	0	3
2	101002	Airframe maintenance and Engineering	3	0	0	3
3	101003	Aero Engineering Thermodynamics	3	1	0	3
4	101004	Mechanics Of Fluids	3	1	0	3
5	101005	Mechanics Of Solids	3	0	0	3
6	101006	Fundamentals Of Aeronautics	3	0	0	3
Practical						
7	101101	Fluid Mechanics And Machinery Laboratory	0	0	3	2
8	101102	Thermodynamics Laboratory	0	0	3	2
9	101103	Strength Of Materials Laboratory	0	0	3	2
Total Credits For Semester -III			18	3	9	24

Semester IV

S.No	Subject Code	Subject Name	L	T	P	C
Theory						
1	101007	Numerical Methods	3	1	0	3
2	101008	Aerodynamics I	3	0	0	3
3	101009	Production Technology	3	0	0	3
4	101010	Aircraft Systems And Instrumentation	3	0	0	3
5	101011	Aircraft Structures I	3	1	0	3
6	101012	Mechanics Of Machines	3	0	0	3
Practical						
7	101104	Communication Skills Laboratory	0	0	3	2
8	101105	Aerodynamics Lab	0	0	3	2
9	101106	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.	101013	Principles Of Management	3	0	0	3
2.	101014	Aircraft Performance	3	0	0	3
3.	101015	Aircraft Structures II	3	1	0	3
4.	101016	Aerodynamics II	3	1	0	3
5.	101017	Propulsion I	3	1	0	3
6.	101018	Control Engineering	3	0	0	3
Practical						
7.	101107	Aircraft Structures Lab	0	0	3	2
8.	101108	Airframe Lab	0	0	3	2
9.	101109	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	***	Avionics	3	0	0	3
2	***	Aircraft & High Temperature Materials	3	0	0	3
3	***	Flight Dynamics	3	1	0	3
4	***	Propulsion –II	3	1	0	3
5	***	Heat Transfer	4	0	0	4
6	#	Elective I*	3	0	0	3
Practical						
7	***	Aircraft Design Project – I	0	0	3	2
8	***	Propulsion Lab	0	0	3	2
9	***	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.	***	Supersonic and Hypersonic aerodynamics	3	0	0	3
2.	***	Fatigue And Fracture Mechanics	3	0	0	3
3.	***	Wind Tunnel Techniques	3	0	0	3
4.	***	Industrial Aero Dynamics	3	0	0	3

Semester VII

S.no	Subject code	Subject name	L	T	P	C
Theory						
1	***	Composite Materials And Structures	3	1	0	3
2	***	Helicopter Engineering	3	1	0	3
3	***	Space Mechanics	3	1	0	3
4	***	Total Quality Management	3	0	0	3
5	#	Elective II**	3	0	0	3
6	#	Elective III***	3	0	0	3
Practical						
7	***	Aircraft Design Project – Ii	0	0	3	2
8	***	Aircraft Systems Lab	0	0	3	2
9	***	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.	***	Finite Elements Methods In Aerospace Engineering	3	0	0	3
2.	***	Computational Fluid Dynamics	3	0	0	3
3.	***	Vibrations And Aero Elasticity	3	0	0	3

4.	***	Optimization Techniques	3	0	0	3
5.	***	Cryogenic Engineering	3	0	0	3
6.	***	Theory Of Elasticity	3	0	0	3

Elective – III ***

2.	***	CAR / JAR	3	0	0	3
3.	***	Aircraft Powerplant And Maintenance Engineering	3	0	0	3
4.	***	Aircraft Overhauling	3	0	0	3
5.	***	Aircraft Production And Planning Management	3	0	0	3
6.	***	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