

PSN COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)
MELATHEDIYOOR-627 152
B.E DEGREE PROGRAMME AERONAUTICAL ENGINEERING
REGULATION - 2014
Curriculum For Semester III To VIII
Semester III

S.No	Course Title	L	T	P	C
Theory					
1.	Applied Mathematics -II	3	1	0	4
2.	Aero Engineering Thermodynamics	3	1	0	4
3.	Fluid Mechanics And Machinery	3	1	0	4
4.	Solid Mechanics	3	1	0	4
5.	Fundamentals Of Aeronautics	3	0	0	3
6.	Aircraft Materials And Processes	3	0	0	3
Practical					
7.	Fluid Mechanics Lab	0	0	3	2
8.	Solid Mechanics & Thermal Engineering Lab	0	0	3	2
Total Credits For Semester -III		18	4	6	26

Semester IV

S. No.	Course Title	L	T	P	C
Theory					
1.	Applied Mathematics-III	4	0	0	4
2.	Aerodynamics I	3	0	0	3
3.	Aircraft Structures - I	3	0	0	3
4.	Control Engineering	3	0	0	3
5.	Propulsion-I	3	0	0	3
6.	Aircraft Systems And Instruments	3	0	0	3

Practical					
7.	Aerodynamics Lab	0	0	3	2
8.	Manufacturing Technology Lab	0	0	3	2
9.	Aircraft Structures Lab	0	0	3	2
Total Credits For Semester -IV		19	0	9	25

Semester V

S. No.	Course Title	L	T	P	C
Theory					
1.	Experimental Aerodynamics	3	0	0	3
2.	Aircraft Performance	3	0	0	3
3.	Aerodynamics Ii	3	0	0	3
4.	Aircraft Structures –Ii	3	0	0	3
5.	Propulsion-Ii	3	0	0	3
6.	Open Elective - I	4	0	0	4
Practical					
7.	Propulsion Lab	0	0	3	2
8.	Aircraft Repair & Maintenance Lab	0	0	2	1
9.	English Language Lab For Engineers	0	0	3	2
Total Credits For Semester - V		19	0	8	24
Mandatory Course					
10.	Value Education, Human Rights Legislative Procedures	2	0	0	0

Semester VI

S. No.	Course Title	L	T	P	C
Theory					
1.	Avionics	3	0	0	3
2.	Flight Dynamics	3	0	0	3
3.	Aircraft Stress Analysis	3	0	0	3
4.	Finite Element Analysis	3	1	0	4

5.	Elective – I	3	0	0	3
6.	Open Elective II	4	0	0	4
Practical					
7.	Aircraft Design Project – I Laboratory	0	0	3	2
8.	Aircraft Structural And Modeling Lab	0	0	3	2
9.	Comprehension And Technical Seminar	0	0	3	2
Total Credits For Semester -VI		19	1	9	26

Semester VII

S. No.	Course Title	L	T	P	C
Theory					
1.	Composite Materials And Structures	3	0	0	3
2.	Helicopter Engineering	3	0	0	3
3.	Vibrations & Aero Elasticity	3	1	0	4
4.	Computational Fluid Dynamics	3	0	0	3
5.	Elective-II	3	0	0	3
6.	Elective-III	3	0	0	3
Practical					
7.	Aircraft Design Project – Ii Laboratory	0	0	3	2
8.	Flow Modeling And Simulation Lab	0	0	3	2
9.	Aircraft Systems Lab	0	0	3	2
Total Credits For Semester -VII		18	1	9	25

Mandatory Course – VII Semester

S. No.	Course Title	L	T	P	C
10.	Energy Studies / Soft skills /Technical English	2	0	0	0

Semester VIII

S. No.	Course Title	L	T	P	C
Theory					
1.	Rocket And Missiles	3	0	0	3
2.	Project Management	3	0	0	3
3.	Elective – IV	3	0	0	3
Practical					
4.	Project Work	0	0	15	6
Total Credits For Semester -VIII		9	0	15	15
Total Credits=141 For Semester III To VIII					

List of Electives For B.E. Aeronautical Engineering

Regulation 2014

List Of Electives For VI Semester

S. No.	Course Title	L	T	P	C
1.	Fatigue & Fracture Mechanics	3	0	0	3
2.	Wind Tunnel Techniques	3	0	0	3
3.	Industrial Aerodynamics	3	0	0	3
4.	Aircraft High Temperature Materials	3	0	0	3
5.	Aircraft General Engineering & Maintenance Practices	3	0	0	3
6.	Heat Transfer	3	0	0	3

List Of Electives For VII Semester

S. No.	Course Title	L	T	P	C
1.	Supersonic & Hypersonic Aerodynamics	3	0	0	3
2.	Total Quality Management	3	0	0	3
3.	Space Mechanics	3	0	0	3
4.	Optimization Techniques	3	0	0	3
5.	Theory Of Elasticity	3	0	0	3

6.	Airframe Maintenance & Engineering	3	0	0	3
7.	Car/Jar	3	0	0	3
8.	Aircraft Power Plant & Maintenance Engineering	3	0	0	3
9.	Aircraft Overhauling	3	0	0	3
10.	Aircraft Production & Planning Management	3	0	0	3
11.	Aero Engine Maintenance & Repair	3	0	0	3

List Of Electives For VIII Semester

S. No.	Course Title	L	T	P	C
1.	Air Traffic Control & Planning	3	0	0	3
2.	Air Transportation & Aircraft Maintenance Engineering	3	0	0	3
3.	Helicopter Maintenance	3	0	0	3
4.	Operational Management	3	0	0	3
5.	Sensors & Instrumentation	3	0	0	3

List Of Open Electives

(Electives Open To Other Departments In Semester V And VI)

S. No.	Course Title	L	T	P	C
1.	Communication And Navigation Systems	4	0	0	4
2.	Cryogenic Engineering	4	0	0	4
3.	Unmanned Aerial Vehicle System Design	4	0	0	4