



Semester - 1

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303104105	Environmental Science	0.00	1	0	0	-	-	50	-	-	20	-	50
303105102	Programming for Problem Solving	4.00	3	2	0	20	20	20	60	30	40	25	150
303106101	Basic Electrical Engineering	4.00	3	2	0	20	20	20	60	30	40	25	150
303109102	Elements of Mechanical Engineering	4.00	3	2	0	20	20	20	60	30	40	25	150
303191101	Mathematics-I	4.00	4	-	-	20	-	20	60	-	40	-	100
303192101	Engineering Physics-I	4.00	3	2	-	20	20	20	60	30	40	25	150
303193103	Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	22.00	17	8	2								850

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 2

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303100101	Workshop	2.00	0	4	0	-	40	-	-	60	-	50	100
303104155	Mechanics of Solids	4.00	3	2	0	20	20	20	60	30	40	25	150
303107151	Basic Electronics	4.00	3	2	0	20	20	20	60	30	40	25	150
303109101	Engineering Graphics	4.00	2	4	0	20	20	20	60	30	40	25	150
303191151	Mathematics-II	4.00	4	-	-	20	-	20	60	-	40	-	100
303193152	Advanced Communication & Technical Writing	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	20.00	12	12	2								750

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 3

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101201	Introduction to Aeronautics	3.00	3	-	-	20	-	20	60	-	40	-	100
303101202	Introduction to Aeronautics Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303101203	Basic Engineering Thermodynamics	4.00	3	-	1	20	-	20	60	-	40	-	100
303101205	Fundamentals of Fluid Mechanics	3.00	3	-	-	20	-	20	60	-	40	-	100
303101206	Fundamentals of Fluid Mechanics Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303101207	Analysis of Mechanism and Machine Elements	3.00	3	-	-	20	-	20	60	-	40	-	100
303101209	Product Realization	1.00	-	2	-	-	-	50	-	-	-	25	50
303191201	Complex Variables and PDE	4.00	4	-	-	20	-	20	60	-	40	-	100
303193203	Professional Communication Skills	2.00	-	-	2	-	-	100	-	-	40	-	100
	Total	22.00	16	6	3								750

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 4

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101251	Aerodynamics - I	3.00	3	-	-	20	-	20	60	-	40	-	100
303101252	Aerodynamics Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303101253	Aircraft Structure - I	4.00	3	-	1	20	-	20	60	-	40	-	100
303101255	Propulsion - I	4.00	3	-	1	20	-	20	60	-	40	-	100
303101257	Aircraft Materials and Processes	3.00	3	-	-	20	-	20	60	-	40	-	100
303101258	Aircraft Materials and Processes Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303101260	Surface and Solid Modelling Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303191251	Probability, Statistics and Numerical Methods	4.00	4	-	-	20	-	20	60	-	40	-	100
303193252	Professional Grooming and Personality Development	1.00	-	-	1	-	-	100	-	-	40	-	100
	Total	22.00	16	6	3								750

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 5

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101301	Aircraft Performance	4.00	3	-	1	20	-	20	60	-	40	-	100
303101303	Aerodynamics - II	3.00	3	-	-	20	-	20	60	-	40	-	100
303101305	Vibration and Structural Dynamics	3.00	3	-	-	20	-	20	60	-	40	-	100
303101307	Aircraft Structure - II	4.00	4	-	-	20	-	20	60	-	40	-	100
303101308	Aircraft Structure Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303101309	Propulsion - II	3.00	3	-	-	20	-	20	60	-	40	-	100
303101310	Propulsion Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303101312	Summer Internship - I	2.00	-	4	-	-	100	-	-	-	-	50	100
303193304	Professionalism & Corporate Ethics	1.00	-	-	1	-	-	100	-	-	40	-	100
	Open Elective 01 (Compulsory Subjects :1)	2.00	2	0	0	40	-	-	60	-	-	-	100
	Total	24.00	18	8	2								900

Semester - 5 Open Elective 01

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303105304	Cyber Security	2.00	2	0	0	20	-	20	60	-	40	-	100
303105305	Internet of Things	2.00	2	0	0	20	-	20	60	-	40	-	100
303107346	Fundamentals of Communication Engineering	2.00	2	0	0	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 6 Open Elective 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303100351	Programme Management and Entrepreneurship	2.00	2	0	0	20	-	20	60	-	40	-	100
303100352	Life Sciences	2.00	2	0	0	20	-	20	60	-	40	-	100
303100353	Fundamentals of Management	2.00	2	0	0	20	-	20	60	-	40	-	100
303100354	Constitution of India	2.00	2	0	0	20	-	20	60	-	40	-	100

Semester - 6

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101351	Aircraft Stability and Control	4.00	3	-	1	20	-	20	60	-	40	-	100
303101353	Control Theory and Systems	3.00	3	-	-	20	-	20	60	-	40	-	100
303101354	Control Theory and Systems Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303101356	Computational Lab	1.00	-	2	-	-	20	-	-	30	-	25	50
303101358	Minor Project	1.00	-	2	-	-	50	-	-	50	-	50	100
303193353	Employability Skills	1.00	-	-	1	-	-	100	-	-	40	-	100
	Open Elective 02 (Compulsory Subjects :1)	2.00	2	0	0	40	-	-	60	-	-	-	100
	PEC 01 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	PEC 02 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Total	19.00	14	6	2								800



Semester - 6 PEC 01

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101381	Composite Materials	3.00	3	-	-	20	-	20	60	-	40	-	100
303101383	Theory of Heat Transfer	3.00	3	-	-	20	-	20	60	-	40	-	100

Semester - 6 PEC 02

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101385	Computational Fluid Dynamics	3.00	3	-	-	20	-	20	60	-	40	-	100
303101387	Finite Element Method	3.00	3	-	-	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 7

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101401	Aircraft Design	4.00	3	-	1	20	-	20	60	-	40	-	100
303101403	Avionics	3.00	3	-	-	20	-	20	60	-	40	-	100
303101406	Major Project - I	6.00	-	12	-	-	100	-	-	100	-	100	200
303101408	Summer Internship - II	2.00	-	4	-	-	100	-	-	-	-	50	100
	Open Elective 03 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	PEC 03 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	PEC 04 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Total	24.00	15	16	1								800

Semester - 7 Open Elective 03

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101431	Air Transportation	3.00	3	-	-	20	-	20	60	-	40	-	100
303101433	Aircraft Production and Planning	3.00	3	-	-	20	-	20	60	-	40	-	100
303101435	Geometric Dimensioning and Tolerance	3.00	3	-	-	20	-	20	60	-	40	-	100



Semester - 7 PEC 03

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101437	High Speed Aerodynamics	3.00	3	-	-	20	-	20	60	-	40	-	100
303101439	Aircraft Systems and Instruments	3.00	3	-	-	20	-	20	60	-	40	-	100

Semester - 7 PEC 04

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101441	Helicopter Engineering	3.00	3	-	-	20	-	20	60	-	40	-	100
303101443	Introduction to Automatic Flight Control	3.00	3	-	-	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50



Semester - 8

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101451	Introduction to Space Technology	3.00	3	-	-	20	-	20	60	-	40	-	100
303101454	Major Project - II	6.00	-	12	-	-	100	-	-	100	-	100	200
	Open Elective 04 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	PEC 05 (Compulsory Subjects :1)	3.00	3	-	-	40	-	-	60	-	-	-	100
	Total	15.00	9	12									500

Semester - 8 Open Elective 04

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101481	Aircraft Maintenance	3.00	3	-	-	20	-	20	60	-	40	-	100
303101483	Airworthiness and Regulations	3.00	3	-	-	20	-	20	60	-	40	-	100
303101485	Tribology	3.00	3	-	-	20	-	20	60	-	40	-	100

Semester - 8 PEC 05

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101487	Rocket and Missile Technology	3.00	3	-	-	20	-	20	60	-	40	-	100



Semester - 8 PEC 05

						Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
Code	Subject	Credit	Lect	Lab	Tut	T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
303101489	Unmanned Aerial Vehicle and Systems	3.00	3	-	-	20	-	20	60	-	40	-	100

Lect - Lecture, **Tut** - Tutorial, **Lab** - Lab, **T** - Theory, **P** - Practical, **CE** - CE, **T** - Theory, **P** - Practical
Theory Passing % : 40 Practical Passing % : 50