

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.	
203104102	Elements of Civil Engineering	4	3	2	0	20	20	20	60	30	40	25	150
203105101	Fundamentals of Programming	4	2	4	0	20	20	20	60	30	40	25	150
203109101	Engineering Graphics	4	2	4	0	20	20	20	60	30	40	25	150
203191101	Mathematics – I	5	3	0	2	20	-	20	60	-	40	-	100
203192101	Engineering Physics	4	3	2	0	20	20	20	60	30	40	25	150
203193101	Communication Skills - 1	2	0	0	2	-	-	100	-	-	40	-	100
	Total	23	13	12	4								800

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

Semester - 2

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203100101	Workshop	2	0	4	0	-	40	-	-	60	-	50	100
203104103	Environmental Science	2	2	0	0	20	-	20	60	-	40	-	100
203104151	Mechanics of Solids	4	3	2	0	20	20	20	60	30	40	25	150
203106101	Basic Electrical Engineering	5	4	2	0	20	20	20	60	30	40	25	150
203109102	Elements of Mechanical Engineering	4	3	2	0	20	20	20	60	30	40	25	150
203191151	Mathematics-II	5	3	0	2	20	-	20	60	-	40	-	100
203193151	Communication Skills - 2	2	0	0	2	-	-	100	-	-	40	-	100
	Total	24	15	10	4								850

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.	
203101201	Introduction to Aeronautics	3	3	0	0	20	-	20	60	-	40	-	100
203101202	Introduction to Aeronautics Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101203	Basic Engineering Thermodynamics	4	3	0	1	20	-	20	60	-	40	-	100
203101205	Fundamentals of Fluid Mechanics	3	3	0	0	20	-	20	60	-	40	-	100
203101206	Fundamentals of Fluid Mechanics Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101207	Aircraft Material & Processes	3	3	0	0	20	-	20	60	-	40	-	100
203101208	Aircraft Material & Processes Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101209	Analysis of Mechanism & Machine Elements	4	3	0	1	20	-	20	60	-	40	-	100
203191201	Transforms and PDE	5	3	0	2	20	-	20	60	-	40	-	100
203193201	Professional Communication Skills-1	2	1	0	1	-	-	100	-	-	40	-	100
	Total	27	19	6	5								850

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

Semester - 4

Code	Subject	Credit	Lect	Lab	Tut	Internal Marks			External Marks		Passing Marks (Theory + CE)	Passing Marks (Practical)	Total Marks
						T	P	CE	T	P	Int. + Ext.	Int. + Ext.	
203101251	Aerodynamics-I	3	3	0	0	20	-	20	60	-	40	-	100
203101252	Aerodynamics-I Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101253	Aircraft Structure-I	3	3	0	0	20	-	20	60	-	40	-	100
203101254	Aircraft Structure-I Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101255	Propulsion-I	3	3	0	0	20	-	20	60	-	40	-	100
203101256	Propulsion-I Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101258	Solid & Surface Modeling	1	0	2	0	-	20	-	-	30	-	25	50
203107151	Basic Electronics	4	3	2	0	20	20	20	60	30	40	25	150
203191251	Probability, Statistics and Numerical Methods	5	3	0	2	20	-	20	60	-	40	-	100
203193251	Professional Communication Skills-2	2	1	0	1	-	-	100	0	-	40	-	100
	Total	24	16	10	3								850

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.	
203101301	Control Theory & System	3	3	0	0	20	-	20	60	-	40	-	100
203101302	Control Theory & System Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101303	Aerodynamics-II	3	3	0	0	20	-	20	60	-	40	-	100
203101304	Aerodynamics-II Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101305	Aircraft Structure-II	3	3	0	0	20	-	20	60	-	40	-	100
203101306	Aircraft Structure-II Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101307	Propulsion-II	3	3	0	0	20	-	20	60	-	40	-	100
203101308	Propulsion-II Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101310	Project-I	1	0	2	0	-	40	-	-	60	-	50	100
203193301	Programming Skills and Placement Essentials (All Branches Except CSE/IT/ICT)	2	1	0	1	-	-	100	-	-	40	-	100
	Open Elective 01 (Compulsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	Total	21	15	10	1								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.	
203101346	Basic Aircraft Science	2	2	0	0	20	-	20	60	-	40	-	100

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.	
203104346	Disaster Preparedness and Planning	2	2	0	0	20	-	20	60	-	40	-	100
203105346	Cyber Security	2	2	0	0	20	-	20	60	-	40	-	100
203106346	Energy Science and Engineering	2	2	0	0	20	-	20	60	-	40	-	100
203107346	Fundamentals of Communication Engineering	2	2	0	0	20	-	20	60	-	40	-	100
203108346	Internet of Things	2	2	0	0	20	-	20	60	-	40	-	100
203109346	Renewable Energy Sources	2	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.	
203100351	Life Science	2	2	0	0	60	-	40	-	-	40	-	100
203100352	Biology for Engineers	2	2	0	0	60	-	40	-	-	40	-	100
203100353	Engineering Geology	2	2	0	0	60	-	40	-	-	40	-	100
203100354	Landscape Planning and Design	2	2	0	0	60	-	40	-	-	40	-	100
203100355	Fundamentals of Management	2	2	0	0	60	-	40	-	-	40	-	100
203100356	Corporate Social Responsibility	2	2	0	0	60	-	40	-	-	40	-	100
203100357	Programme Management & Entrepreneurship	2	2	0	0	60	-	40	-	-	40	-	100
203100358	Constitution of India	2	2	0	0	60	-	40	-	-	40	-	100
203100359	Cyber Law & Ethics	2	2	0	0	60	-	40	-	-	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.	
203101351	Aircraft Performance	4	3	0	1	20	-	20	60	-	40	-	100
203101353	Aircraft Design	3	3	0	0	20	-	20	60	-	40	-	100
203101354	Aircraft Design Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101356	Project-II	1	0	2	0	-	40	-	-	60	-	50	100
	Open Elective 02 (Compulsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	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.	
	Open Elective 03 (Compulsory Subjects :1) -	2	1	0	1	-	-	-	-	-	-	-	100
	PEC 01 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	100
	PEC 02 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	100
	Total	21	15	4	4								750

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.	
203101380	Computational Fluid Dynamics	4	3	0	1	20	-	20	60	-	40	-	100
203101381	Theory of Heat Transfer	4	3	0	1	20	-	20	60	-	40	-	100
203101382	Gas Dynamics	4	3	0	1	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.	
203101383	Vibration & Structural Dynamics	4	3	0	1	20	-	20	60	-	40	-	100
203101384	Composite Material	4	3	0	1	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.	
203101385	Aero Elasticity	4	3	0	1	20	-	20	60	-	40	-	100

Semester - 6 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.	
203193351	Advanced Programming and Placement Essentials (All Branches Except CSE/IT/ICT)	2	1	0	1	-	-	100	-	-	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.	
203101401	Avionics	3	3	0	0	20	-	20	60	-	40	-	100
203101402	Avionics Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101404	Project-III	6	0	12	0	-	100	-	-	100	-	100	200
203101406	Summer Internship	1	0	0	0	-	100	-	-	-	-	50	100
	Open Elective 04 (Compulsory Subjects :1) -	2	2	0	0	-	-	-	-	-	-	-	100
	PEC 03 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	100
	PEC 04 (Compulsory Subjects :1) -	4	3	0	1	-	-	-	-	-	-	-	100
	Total	21	11	14	2								750

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.	
203101430	Flight Mechanics	4	3	0	1	20	-	20	60	-	40	-	100
203101431	High Speed Aerodynamics	4	3	0	1	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.	
203101433	Helicopter Engineering	4	3	0	1	20	-	20	60	-	40	-	100

Semester - 7 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.	
203101436	Air Transportation	2	2	0	0	20	-	20	60	-	40	-	100
203101437	Aircraft Production & Planning	2	2	0	0	20	-	20	60	-	40	-	100
203101438	Airworthiness & Regulations	2	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 - 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.	
203101451	Aircraft Maintenance	3	3	0	0	20	-	20	60	-	40	-	100
203101452	Aircraft Maintenance Lab	1	0	2	0	-	20	-	-	30	-	25	50
203101454	Project-IV	6	0	12	0	-	100	-	-	100	-	100	200
	Open Elective 05 (Compulsory Subjects :1) -	3	2	0	1	-	-	-	-	-	-	-	100
	PEC 05 (Compulsory Subjects :1) -	3	2	0	1	-	-	-	-	-	-	-	100
	PEC 06 (Compulsory Subjects :1) -	3	2	0	1	-	-	-	-	-	-	-	100
	Total	19	9	14	3								650

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.	
203101480	Rocket & Missile Technology	3	2	0	1	20	-	20	60	-	40	-	100
203101481	Navigation & Guidance	3	2	0	1	20	-	20	60	-	40	-	100
203101482	Aviation Fuels & Combustion	3	2	0	1	20	-	20	60	-	40	-	100

Semester - 8 PEC 06

						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.	
203101483	Finite Element Methods	3	2	0	1	20	-	20	60	-	40	-	100
203101484	Optimization Techniques	3	2	0	1	20	-	20	60	-	40	-	100

Semester - 8 Open Elective 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.	
203101486	Introduction to Space Technology	3	2	0	1	20	-	20	60	-	40	-	100
203101487	Drone Technology	3	2	0	1	20	-	20	60	-	40	-	100
203101488	Nano Science Technology	3	2	0	1	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