

APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS

SCHEME : AERONAUTICAL ENGINEERING (I to VIII SEM) APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS																
Year/Sem	Course Code	Subject Name	Type	CORE/ELECTIVE	Group	IC	DC	DE	Non-Graded	OC	Dep.Spec.	Minor.Spec.	Max Marks Internal	Max Marks External	Credit/Unit	Programme-Option
1 Sem.	MTL100	Engineering Mathematics-I	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
1 Sem.	CSL100	Programming for Problem Solving	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
1 Sem.	PYL100	Engineering Physics	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
1 Sem.	EEL100	Introduction to Electrical & Electronics Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
1 Sem.	HUN102	Communication Skills	TH	CORE	5	No	No	No	Yes	No			0	0	2	A
1 Sem.	PYP100	Engineering Physics Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
1 Sem.	EEP100	Basic Electrical & Electronics Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
1 Sem.	MEP102	Computer Aided Machine Drawing	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
1 Sem.	MEP200	Skill Development Laboratory	PR	CORE	9	Yes	No	No	No	No			50	25	1	A

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1 Sem.	HUN112	Language Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
1 Sem.	SAN101	Induction Program	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
1 Sem.	CSP100	Programing Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
1 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
2 Sem.	MTL101	Engineering Mathematics-II	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
2 Sem.	CSL101	Data Analysis & AI Using Python	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
2 Sem.	CML101	Engineering Chemistry	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
2 Sem.	CEL100	Basic Civil Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
2 Sem.	HUN101	Human Values & Professional Ethics	TH	CORE	5	No	No	No	Yes	No			0	0	2	A

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2 Sem.	CMP100	Engineering Chemistry Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
2 Sem.	CEP100	Basic Civil Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
2 Sem.	CEP102	Computer Aided Engineering Graphics	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
2 Sem.	MEP101	Product Realization through Manufacturing	PR	CORE	9	Yes	No	No	No	No			50	25	1	A
2 Sem.	HUN111	Human Values Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
2 Sem.	TPN101	Club activity	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
2 Sem.	CSP101	Python Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
2 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
3 Sem.	MTL201	Advanced Mathematics for Aeronautical Engineers	TH	CORE	1	Yes	No	No	No	No			50	100	4	A

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3 Sem.	HUL202	Economics and Financial Management	TH	CORE	2	Yes	No	No	No	No			50	100	3	A
3 Sem.	TPN102	Soft Skill Development -1	PR	CORE	3	No	No	No	Yes	No			0	0	1	A
3 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
3 Sem.	AEL210	Incompressible Fluid Mechanics	TH	CORE	5	No	Yes	No	No	No			50	100	4	A
3 Sem.	AEL220	Mechanics of Solids	TH	CORE	6	No	Yes	No	No	No			50	100	4	A
3 Sem.	AEL200	Introduction to Aeronautics	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
3 Sem.	AEP210	Fluid Mechanics Lab	PR	CORE	8	No	Yes	No	No	No			50	25	1	A
3 Sem.	AEP220	Strength of Materials Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
3 Sem.	AEP201	Object Oriented Programming Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1.5	A

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3 Sem.	AEP250	Computer Aided Design Lab	PR	CORE	11	No	Yes	No	No	No			50	25	1.5	A
4 Sem.	CEL 101	Environmental Science	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
4 Sem.	HUL201	General Studies	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
4 Sem.	TPN103	Soft Skill Development -2	PR	CORE	3	No	No	No	Yes	No			0	0	1	A
4 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
4 Sem.	MTL212	Numerical Techniques	TH	CORE	5	No	Yes	No	No	No			50	100	2	A
4 Sem.	AEL230	Engineering Thermodynamics	TH	CORE	6	No	Yes	No	No	No			50	100	4	A
4 Sem.	AEP211	Gas Dynamics	TH	CORE	7	No	Yes	No	No	No			50	100	4	A
4 Sem.	AEL221	Elements of Vibration	TH	CORE	8	No	Yes	No	No	No			50	100	3	A

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4 Sem.	AEP221	Vibrations Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
4 Sem.	AEP202	Advanced Programming using MATLAB/ Octave	PR	CORE	10	No	Yes	No	No	No			50	25	1.5	A
4 Sem.	MEL416	Project Management / Equivalent MOOC	TH	CORE	13	No	No	No	No	No	BUSINESS ADMINISTRATION		50	100	3	A
4 Sem.	MEL417	Marketing Management / Equivalent MOOC	TH	CORE	14	No	No	No	No	No	BUSINESS ADMINISTRATION		50	100	3	A
4 Sem.	MEL433	Design of Heat Exchanger / Equivalent MOOC	TH	CORE	19	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
4 Sem.	MEL434	Refrigeration System Design / Equivalent MOOC	TH	CORE	20	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
5 Sem.	HUL203	Indian Constitution	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
5 Sem.	AEN201	Seminar-1	PR	CORE	2	No	No	No	Yes	No			0	0	1	A
5 Sem.	AET301	Industrial training (45 days)	PR	CORE	3	No	No	No	No	No			50	25	2	A

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5 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
5 Sem.	AEL310	Aerodynamics	TH	CORE	5	No	Yes	No	No	No			50	100	4	A
5 Sem.	AEL320	Aircraft Structures	TH	CORE	6	No	Yes	No	No	No			50	100	4	A
5 Sem.	AEL330	Heat Transfer	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
5 Sem.	AEL321	Aircraft Materials and Processes	TH	CORE	8	No	Yes	No	No	No			50	100	3	A
5 Sem.	AEP310	Aerodynamics Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
5 Sem.	AEP320	Aircraft Structures Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1	A
5 Sem.	AEP330	Heat Transfer Lab	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
5 Sem.	AEP321	Manufacturing Technology Lab	PR	CORE	12	No	Yes	No	No	No			50	25	1	A

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5 Sem.	AEL322	Mechanics of Composites	TH	CORE	13	No	Yes	No	No	No			50	100	3	A
5 Sem.	MEL420	Supply and Operations Management / Equivalent MOOC	TH	CORE	13	No	No	No	No	No	BUSINESS ADMINISTRATION		50	100	3	A
5 Sem.	AEL301	Unmanned Aerial Vehicles	TH	ELECTIVE	14	No	No	Yes	No	No			50	100	3	A
5 Sem.	AEL312	Viscous Flows	TH	ELECTIVE	14	No	No	Yes	No	No			50	100	3	A
5 Sem.	AEL324	Experimental Stress Analysis	TH	ELECTIVE	14	No	No	Yes	No	No			50	100	3	A
5 Sem.	MEL435	Air Conditioning System Design / Equivalent MOOC	TH	CORE	16	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
6 Sem.	AEN202	Seminar-2	PR	CORE	1	No	No	No	Yes	No			0	0	1	A
6 Sem.	SAA100	SODECA (Anandam)	PR	CORE	2	No	No	No	No	No			100	0	0.5	A
6 Sem.	AEL441	Space Dynamics	TH	CORE	3	No	Yes	No	No	No			50	100	3	A



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6 Sem.	AEL340	Aircraft Performance	TH	CORE	4	No	Yes	No	No	No			50	100	2	A
6 Sem.	AEL311	Computational Fluid Dynamics	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
6 Sem.	AEL300	Aircraft Systems	TH	CORE	6	No	Yes	No	No	No			50	100	2	A
6 Sem.	AEP331	Aerospace Propulsion Lab	PR	CORE	7	No	Yes	No	No	No			50	25	1	A
6 Sem.	AEP311	Computational Fluid Dynamics Lab	PR	CORE	8	No	Yes	No	No	No			50	25	1.5	A
6 Sem.	AEP300	Aircraft Systems Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
6 Sem.	AEL410	Experimental Aerodynamics	TH	ELECTIVE	10	No	No	Yes	No	No			50	100	3	A
6 Sem.	AEL430	Fundamentals of Combustion	TH	ELECTIVE	10	No	No	Yes	No	No			50	100	3	A
6 Sem.	AEL442	Control Systems	TH	ELECTIVE	10	No	No	Yes	No	No			50	100	3	A

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6 Sem.	AEL400	Introduction to Avionics	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	3	A
6 Sem.	AEL420	Fatigue and Fracture	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	3	A
6 Sem.	AEL431	Refrigeration and Airconditioning	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	3	A
6 Sem.	MEL422	Financial Management / Equivalent MOOC	TH	CORE	12	No	No	No	No	No	BUSINESS ADMINISTRATION		50	100	3	A
6 Sem.	MEL437	Energy and Exergy Analysis of Thermal Systems / Equivalent MOOC	TH	CORE	15	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
7 Sem.	AED411	Project Part-1	PR	CORE	1	No	Yes	No	No	No			50	25	4	A
7 Sem.	AET302	Industrial training (60 days)	PR	CORE	2	No	No	No	No	No			50	25	3	A
7 Sem.	SAA100	SODECA (Anandam)	PR	CORE	3	No	No	No	No	No			100	0	0.5	A
7 Sem.	AEL440	Aircraft Stability and Control	TH	CORE	4	No	Yes	No	No	No			50	100	3	A

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7 Sem.	AEL450	Aircraft Design	TH	CORE	5	No	Yes	No	No	No			50	100	2	A
7 Sem.	AEL331	Aerospace Propulsion	TH	CORE	6	No	Yes	No	No	No			50	100	4	A
7 Sem.	AEL322	Non-Destructive Testing	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	3	A
7 Sem.	AEL432	Heat Transfer in Space Applications	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	3	A
7 Sem.	AEL443	Rockets and Missiles	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	3	A
7 Sem.	AEL412	Hypersonic Aerodynamics	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	3	A
7 Sem.	AEL420	Finite Elements Methods	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	3	A
7 Sem.	AEL444	Rotorcraft Dynamics	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	3	A
7 Sem.	AEP450	Aeromodel Design and Fabrication Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A

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7 Sem.	MEL424	Human Resource Management/ Equivalent MOOC	TH	CORE	10	No	No	No	No	No	BUSINESS ADMINISTRATION		50	100	3	A
7 Sem.	MEL439	Design and Analysis of Thermal Systems/ Equivalent MOOC	TH	CORE	13	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
7 Sem.	MED413	Minor Project	PR	CORE	15	No	No	No	No	No	BUSINESS ADMINISTRATION		50	25	5	A
7 Sem.	MED416	Minor Project	PR	CORE	17	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	25	5	A
8 Sem.	HUL204	Innovation & Entrepreneurship	TH	CORE	1	Yes	No	No	No	No			50	100	3	A
8 Sem.	AED412	Project Part-2	PR	CORE	2	No	Yes	No	No	No			50	25	6	A
8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	3	No	No	No	No	No			100	0	0.5	A
8 Sem.	AEL323	Theory of Elasticity	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	3	A
8 Sem.	AEL401	Airlines and Airport Management	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	3	A

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8 Sem.	AEL421	Introduction to Aeroelasticity	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	3	A
8 Sem.	HUL205	EQUIVALENT MOOC OF Innovation & Entrepreneurship	TH	CORE	5	Yes	No	No	No	No			50	100	3	B
8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	6	No	No	No	No	No			100	0	0.5	B
8 Sem.	AED413	INTERNSHIP	PR	CORE	7	No	Yes	No	No	No			50	25	10	B