

B.Tech.In Aerospace Engineering (Batch 2023-27)

SEMESTER I				SEMESTER II			
Subject Code	Subject	Type	Credits	Subject Code	Subject	Type	Credits
DSC	Mathematics I		4	DSC	Mathematics II		4
DCS	Engineering Mechanics		3	DSC	Engineering Material and Metrology		3
DSC	Introduction To Engineering Programming		2	VAC	Design Thinking for Strategic Innovation	C-Ind	1
VAC	Introduction to Aerospace Engineering	C-Ind	2	DSC	Engineering Thermodynamics		3
DSC	Engineering Physics		4	MDC	Environmental Studies		0
	Induction Program (PEP)		0	AEC	English Communication		3
SEC	Innovation, Enterpreneuship and Sustainability		2	DSC	Introduction to Aerospace Systems and Mission Design		2
PRACTICAL				PRACTICAL			
DSC	Engineering Drawing Lab (Autocad/CATIA)		1	VAC	Design Thinking for Strategic Innovation Lab		2
DSC	Introduction To Engineering Programming Lab		1	DSC	Engineering Material and metrology Lab		1
DSC	Engineering Physics		1	DSC	Thermodynamics lab		1
TOTAL			20	TOTAL			20
SEMESTER III				SEMESTER IV			
Subject Code	Subject	Type	Credits	Subject Code	Subject	Type	Credits
DSC	Numerical Methods		3	DSC	Kinematics and Dynamics of Machinery		3
DSC	Strength of Materials		3	DSC	Microprocessor and microcontroller		3
DSC	Fluid Mechanics		3	VAC	Aerospace Vehicle Design	Ind	2
VAC	Radio and satellite communication	Ind	2	DSC	Heat and Mass Transfer		3
DSC	Aerodynamics		3	SEC	Inter Disciplinary Project II		3
SEC	Inter Disciplinary Project I		3	VAC	Open Elective-1		3
PRACTICAL				PRACTICAL			
DSC	Fluid Mechanics Lab		1	DSC	Kinematics and Dynamics of Machinery Lab		1
DSC	Strength of Materials Lab		1	DSC	Microprocessor and micro controller Lab		1
VAC	Radio and Stellite Communication Lab		1	VAC	Aerospace Vehicle Design Lab	Ind	1
DSC	Aerodynamics Lab	Ind	1	DSC	Heat and Mass Transfer Lab		1
SEC	Social Internship - I		2				
TOTAL			23	TOTAL			21
SEMESTER V				SEMESTER VI			
Subject Code	Subject	Type	Credits	Subject Code	Subject	Type	Credits
DSC	Atmospheric Flight Mechanics		3	DSC	Air-Breathing Propulsion		3
VAC	Spaceflight Mechanics	Ind	2	DSC	Rocket Propulsion		3

DSC	Mechanical Vibration		2	VAC	Aerospace Structures	Ind	2
DSC	Compressible Flow		3	MIC	DE-2	Ind	2
DSC	Space Science & Space Environment		2	DSC	Computational Fluid Dynamics		3
MIC	DE-1	Ind	2	AEC	Professional Communication		3
				EEC	Professional Ethics & Human Values		2
PRACTICAL				PRACTICAL			
MIC	Minor Project I		6	VAC	Aerospace Structures Lab	Ind	1
SEC	Social Internship - II		2	DSC	Flight Mechanics and Propulsion Lab		1
VAC	Spaceflight Mechanics Lab	Ind	1	MIC	Minor Project II		6
MIC	DE-1 Lab	Ind	1	MIC	DE 2 - Lab	Ind	1
				DSC	Rocket Propulsion Lab		1
				DSC	Computational Fluid Dynamics Lab		1
TOTAL			24	TOTAL			29
PE - I (Specialization Minor 1)				PE - II (Specialization Minor 2)			
SEMESTER VII							
SEMESTER VIII							
Subject Code	Subject		Credits	Subject Code	Subject		Credits
MIC	DE - 3	Ind	2	MIC	DE - 4	Ind	2
VAC	Open Elective-2		3	MDC	Indian Constitution		0
PRACTICAL				PRACTICAL			
RESEARCH	Major Project I		6	RESEARCH	Major Project II		10
MIC	DE - 3 Lab	Ind	1	MIC	DE - 4 Lab	Ind	1
SUMMER INTERNSHIP	Summer Internship		6				
TOTAL			18	TOTAL			13
PE- III (Specialization Minor 3)				PE- IV (Specialization Minor 4)			
Total Credits of B.Tech. In Aerospace Engineering							
							168

Orange courses are offered by the Department of Aerospace Engineering

Exit policy for students (* as per NEP if desired) :

1. After the completion of 1st Year	Certificate in Aerospace Engineering with Industry certificate
2. After the completion of 2nd Year	Diploma in Aerospace Engineering with industry certificate
3. After the completion of 3rd Year	Advance Diploma in Aerospace Engineering with Specialisation Certificate