

ACADEMIC CURRICULA
UNDERGRADUATE/ INTEGRATED
POST GRADUATE DEGREE
PROGRAMMES

(With exit option of Diploma)

(Choice Based Flexible Credit System)

Regulations 2021

Volume – 1

(Revised on July 2024)



SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

Kattankulathur, Chengalpattu District 603203,

Tamil Nadu, India

1. B.Tech. in Aerospace Engineering

1. (a) Mission of the Department

Mission Stmt – 1	<i>To impart students with quality education centered on altering global requirements and add values to their career desires</i>
Mission Stmt – 2	<i>To enhance the knowledge and skill of students in collaboration with public and private sectors</i>
Mission Stmt – 3	<i>To identify and acknowledge economic, social and environmental issues that influences the quality of life in the vicinity and the globe</i>
Mission Stmt – 4	<i>To inculcate leadership qualities needed for automotive industries through robust curriculum with international outlook for sustainable future</i>
Mission Stmt – 5	<i>To build trust and co-operation at the workplace through effective inter-personal and communication skills</i>

1. (b) Program Educational Objectives (PEO)

PEO – 1	<i>Offer the students those skill sets and domain knowledge based on contemporary requirements</i>
PEO – 2	<i>Provide the students with the capabilities in the areas of analysis, design, manufacture and testing</i>
PEO – 3	<i>Ignite the minds of students to take up research and development in aerospace engineering with missionary zeal</i>
PEO – 4	<i>Train the students to become effective communicators in professional as well as general aspects of life</i>
PEO – 5	<i>Prepare the students into balanced individuals who are keen to leave a mark by excelling in their profession</i>

1. (c) Mission of the Department to Program Educational Objectives (PEO) Mapping

	Mission Stmt. - 1	Mission Stmt. - 2	Mission Stmt. - 3	Mission Stmt. - 4	Mission Stmt. - 5
PEO - 1	3	3	2	3	2
PEO - 2	3	2	3	3	3
PEO - 3	2	3	2	3	3
PEO - 4	3	3	3	1	2
PEO - 5	1	3	2	3	3

3 – High Correlation, 2 – Medium Correlation, 1 – Low Correlation

1. (d) Mapping Program Educational Objectives (PEO) to Program Outcomes (PO)

	Program Outcomes (PO)												Program Specific Outcomes (PSO)		
	1	2	3	4	5	6	7	8	9	10	11	12	PSO-1	PSO-2	PSO-3
	Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning			
PEO - 1	3	3	3	3	3	1	2	1	2	2	3	3	2	3	3
PEO - 2	3	3	3	3	3	1	2	1	2	3	2	2	3	3	2
PEO - 3	3	3	3	3	3	2	3	2	2	2	3	3	3	2	2
PEO - 4	3	2	2	3	3	3	2	3	3	3	3	1	2	2	3
PEO - 5	2	2	3	3	2	3	2	3	3	3	2	2	3	2	2

3 – High Correlation, 2 – Medium Correlation, 1 – Low Correlation

PSO – Program Specific Outcomes (PSO)

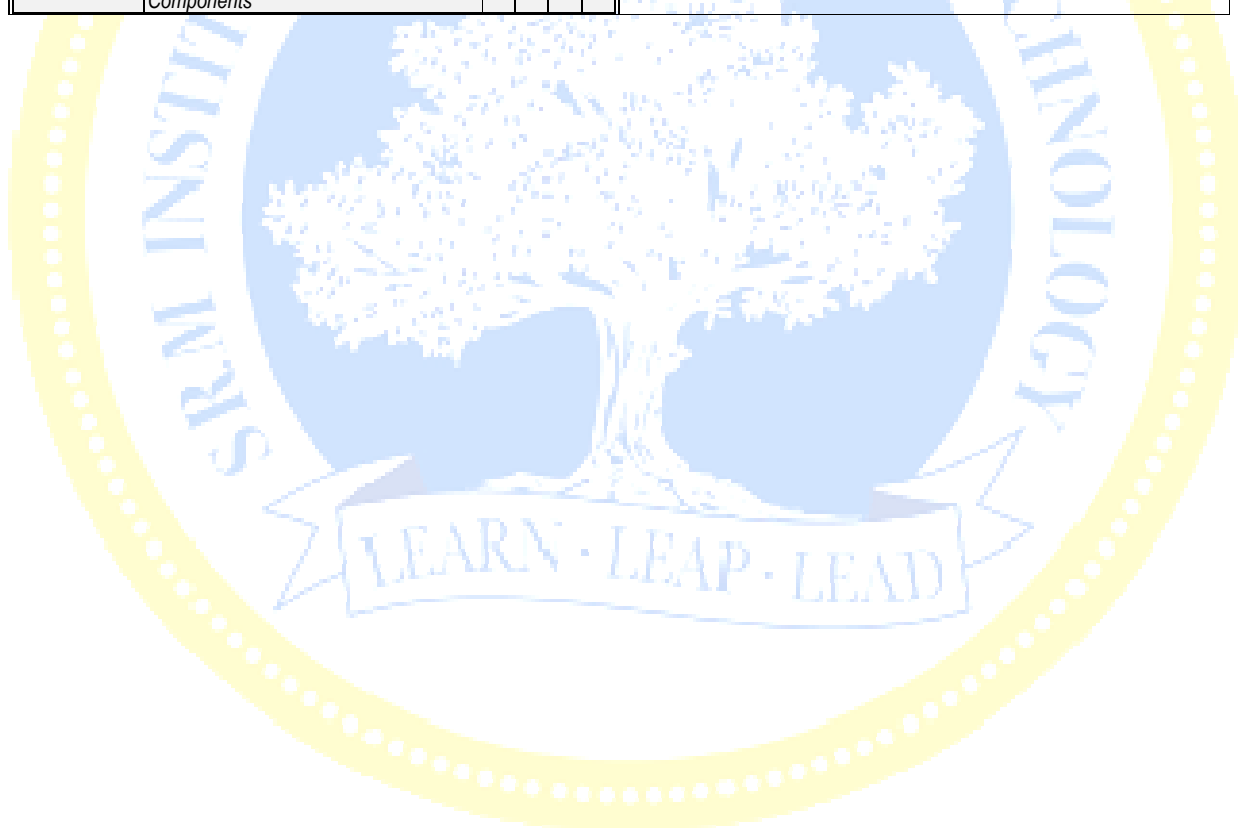
PSO - 1	<i>Expertise in theoretical and experimental aspects of various thrust areas of Aerospace Engineering</i>
PSO - 2	<i>Ability to use modern engineering tools applicable to design and analysis of systems and components of flight vehicles</i>
PSO - 3	<i>Able to inculcate awareness about environmental impact, safety aspects, cost sustainability, multidisciplinary project management, ethics and human values.</i>

1. (e) Program Structure: B.Tech. in Aerospace Engineering

Humanities & Social Sciences including Management Courses (H)					Basic Science Courses (B)										
Course Code	Course Title	Hours / Week			Course Code	Course Title	Hours / Week								
		L	T	P			L	T	P						
21LEH101T	Communicative English	2	1	0	3	21PYB101J	Physics: Electromagnetic Theory, Quantum Mechanics, Waves and Optics	3	1	2	5				
21LEH102T	Chinese	2	1	0	3	21CYB101J	Chemistry	3	1	2	5				
21LEH103T	French					21MAB101T	Calculus and Linear Algebra	3	1	0	4				
21LEH104T	German					21MAB102T	Advanced Calculus and Complex Analysis	3	1	0	4				
21LEH105T	Japanese					21MAB201T	Transforms and Boundary Value Problems	3	1	0	4				
21LEH106T	Korean					21MAB202T	Numerical Methods	3	1	0	4				
21LEH107T	Spanish					21BTB103T	Biology	2	0	0	2				
21LEH108T	Russian					Total Credits				28					
21GNH101J	Philosophy of Engineering	1	0	2	2	Professional Core Courses (C)									
21PDH209T ¹	Social Engineering	2	0	0	2	Course Code	Course Title	Hours / Week			C				
21GNH401T	Behavioral Psychology	2	1	0	3			L	T	P					
Total Credits					13		21ASC201J	Elements of Aerospace Engineering	2	0	2	3			
Engineering Science Courses (S)															
Course Code	Course Title	Hours / Week			21ASC202T	Applied Solid Mechanics	3	0	0	3					
		L	T	P	C	21ASC203T	Applied Fluid Mechanics	3	0	0	3				
21MES101L ¹	Basic civil and Mechanical Workshop	0	0	4	2	21ASC204T	Incompressible Aerodynamics	3	0	0	3				
21MES102L ¹	Engineering Graphics and Design	0	0	4	2	21ASC205T	Aero Engineering Thermodynamics	3	0	0	3				
21EES101T	Electrical and Electronics Engineering	3	1	0	4	21ASC206T	Air Breathing Propulsion	3	0	0	3				
21CSS101J	Programming for Problem Solving	3	0	2	4	21ASC207T	Aircraft Materials and Production Techniques	3	0	0	3				
21DCS201P ¹	Design Thinking and Methodology	1	2	0	3	21ASC221L ¹	Fluid Mechanics Laboratory	0	0	2	1				
21ASS101T	Applied Engineering Mechanics	3	0	0	3	21ASC223L ¹	Manufacturing Process Laboratory	0	0	2	1				
21CSS303T	Data Science	2	0	0	2	21ASC225L ¹	Aircraft Component Drawing Laboratory	0	0	2	1				
Total Credits					20		21ASC222L ¹	Applied Solid Mechanics Laboratory	0	0	2	1			
Non Credit Courses (M)					21ASC224L ¹	Incompressible Aerodynamics Laboratory	0	0	2	1					
Course Code	Course Title	Hours / Week			C	21ASC301T	Aircraft Structures	3	0	0	3				
		L	T	P		21ASC302T	Aircraft Systems and Instruments	3	0	0	3				
21PDM101L ¹	Professional Skills and Practices	0	0	2	0	21ASC303T	Compressible Aerodynamics	3	0	0	3				
21PDM102L ¹	General Aptitude	0	0	2		21ASC304T	Space Mechanics	3	0	0	3				
21PDM201L ¹	Verbal Reasoning	0	0	2		21ASC305T	Rocket Propulsion	3	0	0	3				
21PDM202L ¹	Critical and Creative Thinking Skills	0	0	2		21ASC306T	Aircraft Stability and Control	3	0	0	3				
21PDM301L ¹	Analytical and Logical Thinking Skills	0	0	2		21ASC307T	Aircraft Performance	3	0	0	3				
21PDM302L ¹	Employability Skills and Practices	0	0	2		21ASC321L ¹	Aircraft Structures Laboratory	0	0	2	1				
21CYM101T ¹	Environmental Science	1	0	0	0	21ASC322P ¹	Aircraft Design Project	0	0	2	1				
21LEM101T ¹	Constitution of India	1	0	0	0	21ASC323L ¹	Compressible Aerodynamics Laboratory	0	0	2	1				
21LEM102T ¹	Universal Human Values – Introduction	1	0	0	0	21ASC324L ¹	Aerospace Computational Analysis Laboratory	0	0	2	1				
21LEM201T ¹	Professional Ethics	1	0	0	0	21ASC325L ¹	Aerospace Propulsion Laboratory	0	0	2	1				
21LEM202T ¹	Universal Human Values-II: Understanding Harmony and Ethical Human Conduct	2	1	0	3	21ASC326L ¹	Aircraft Maintenance Repair Laboratory	0	0	2	1				
21LEM301T ¹	Indian Art Form	1	0	0	0	21CSC206T	Artificial Intelligence	2	1	0	3				
21LEM302T ¹	Indian Traditional Knowledge	1	0	0	0	Total Credits				56					
21GNM101L ¹	Physical and Mental Health using Yoga	0	0	2	0	Open Elective Courses (O) (Any 3 Courses)									
21GNM102L ¹	National Service Scheme					Course Code	Course Title	Hours / Week			C				
21GNM103L ¹	National Cadet Corps							L	T	P					
21GNM104L ¹	National Sports Organization					21ASO301T	Elements of Aeronautics	3	0	0	3				
Total Credits					03		21ASO302T	Creativity, Innovation. and New Product Development	3	0	0	3			
Project Work, Seminar, Internship in Industry / Higher Technical Institutions (P)															
Course Code	Course Title	Hours / Week			C	21ASO303T	Aviation and Airline Maintenance Management	3	0	0	3				
		L	T	P		21ASO304T	Aircraft General Engineering and Maintenance Practices	3	0	0	3				
21GNP301L ¹	Community Connect	0	0	2	1	21ASO305T	Flow Visualization Techniques	3	0	0	3				
21ASP302L ¹	Project	0	0	6	3	21ASO306T	Airport Engineering	3	0	0	3				
21ASP303T ¹	MOOC	3	0	0		21ASO307T	Molecular Gas Dynamics	3	0	0	3				
21ASP401L	Major Project	0	0	30	15	Total Credits				09					
21ASP402L	Major Project	0	0	20	10										
21ASP403L	Internship	0	0	10	5										
Total Credits					19										

Professional Elective Courses (E) (Any 5 Courses)						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21ASE301T	Industrial Aerodynamics	3	0	0	3	
21ASE302T	Helicopter Aerodynamics	3	0	0	3	
21ASE303T	Applied Structural Mechanics	3	0	0	3	
21ASE304T	Experimental Stress Analysis	3	0	0	3	
21ASE305T	Composite Materials and Structures	3	0	0	3	
21ASE306T	Theory of Elasticity	3	0	0	3	
21ASE307T ²	Fundamentals of Combustion	3	0	0	3	
21ASE308T ²	Heat Transfer	3	0	0	3	
21ASE309T	Theory of Fire Propagation and Safety	3	0	0	3	
21ASE310T	Airframe Maintenance and Repair	3	0	0	3	
21ASE311T	Aircraft Engine and Instrument Systems	3	0	0	3	
21ASE312T	Helicopter Maintenance	3	0	0	3	
21ASE313T	Space Mission Design and Analysis	3	0	0	3	
21ASE314T	Aero Engine Maintenance and Repair	3	0	0	3	
21ASE315T	Experimental Methods in Structural Mechanics	3	0	0	3	
21ASE316T	Aviation Legislation	3	0	0	3	
21ASE317T	Optical Methods in Fluid and Solid Mechanics	3	0	0	3	
21ASE318T	Combustion and Flow Diagnostics	3	0	0	3	
21ASE319T	Design of Gas Turbine Engine Components	3	0	0	3	

Professional Elective Courses (E)						
Course Code	Course Title	Hours / Week				
		L	T	P	C	
21ASE320T	Experimental Methods in Gas Dynamics and Propulsion	3	0	0	3	
21ASE401T	Rocket Aerodynamics	3	0	0	3	
21ASE402T	Computational Heat Transfer and Fluid Dynamics	3	0	0	3	
21ASE403T	Turbulence and Turbulence Modeling	3	0	0	3	
21ASE404T	High Temperature Gas Dynamics	3	0	0	3	
21ASE405T	Theory of Plates and Shells	3	0	0	3	
21ASE406T	Vibrations and Elements of Aeroelasticity	3	0	0	3	
21ASE407T	Fatigue and Fracture Mechanics	3	0	0	3	
21ASE408T	Rockets and Missiles	3	0	0	3	
21ASE409T	Cryogenic Engineering	3	0	0	3	
21ASE410T ²	Hypersonic Aerothermodynamics	3	0	0	3	
21ASE411T	Digital Avionics	3	0	0	3	
21ASE412T	Aircraft Control Systems	3	0	0	3	
21ASE413T	Aerial Robotics	3	0	0	3	
21ASE414T	Airborne Sensors and Actuators	3	0	0	3	
21ASE415T	Aviation Safety Management	3	0	0	3	
Total Credits					15	



1. (f) Programme Articulation: B.Tech. in Aerospace Engineering

Course Code	Course Name	Program Outcomes (PO)												PSO		
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
		Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO-1	PSO-2	PSO-3
21ASS101T	Applied Engineering Mechanics	3	2	-	-	-	-	-	-	-	-	-	1	-	-	-
21ASC201J	Elements of Aerospace Engineering	3	1	-	-	2	-	-	-	-	-	-	1	3	-	-
21ASC203T	Applied Fluid Mechanics	3	3	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASC205T	Aero Engineering Thermodynamics	3	2	2	-	-	-	-	-	-	-	-	1	2	-	-
21ASC207T	Aircraft Materials and Production Techniques	3	-	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASC221L	Fluid Mechanics Laboratory	3	3	-	-	1	-	-	-	-	-	-	-	3	-	-
21ASC223L	Manufacturing Process Laboratory	3	-	-	-	2	-	-	-	-	-	-	-	3	-	-
21ASC225L	Aircraft Component Drawing Laboratory	3	-	3	-	3	-	-	-	-	-	-	-	-	3	-
21ASC202T	Applied Solid Mechanics	3	3	-	-	-	-	-	-	-	-	-	1	1	-	-
21ASC204T	Incompressible Aerodynamics	3	3	-	-	-	-	-	-	-	-	-	2	3	-	-
21ASC206T	Air Breathing Propulsion	3	2	2	-	-	-	-	-	-	-	-	1	2	-	-
21ASC222L	Applied Solid Mechanics Laboratory	3	3	-	-	2	-	-	-	-	-	-	-	1	-	-
21ASC224L	Incompressible Aerodynamics Laboratory	3	3	-	-	2	-	-	-	-	-	-	-	3	-	-
21ASC301T	Aircraft Structures	3	3	-	-	-	-	-	-	-	-	-	2	3	-	-
21ASC303T	Compressible Aerodynamics	3	3	-	-	-	-	-	-	-	-	-	2	3	-	-
21ASC305T	Rocket Propulsion	2	3	-	-	-	-	-	-	-	-	-	2	2	-	-
21ASC307T	Aircraft Performance	3	3	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASC321L	Aircraft Structures Laboratory	3	3	-	-	2	-	-	-	-	-	-	2	3	-	-
21ASC323L	Compressible Aerodynamics Laboratory	3	3	-	-	2	-	-	-	-	-	-	-	3	-	-
21ASC325L	Aerospace Propulsion Laboratory	2	-	3	2	2	-	-	-	-	-	-	-	2	-	-
21ASC302T	Aircraft Systems and Instruments	3	-	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASC304T	Space Mechanics	3	3	-	-	-	-	-	-	-	-	-	2	3	-	-
21ASC306T	Aircraft Stability and Control	3	3	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASC322P	Aircraft Design Project	3	2	1	-	-	-	-	-	-	-	-	1	3	-	-
21ASC324L	Aerospace Computational Analysis Laboratory	3	3	-	-	3	-	-	-	-	-	-	-	-	3	-
21ASC326L	Aircraft Maintenance Repair Laboratory	3	-	3	-	3	-	-	-	-	-	-	-	-	3	-
21ASE301T	Industrial Aerodynamics	3	2	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE302T	Helicopter Aerodynamics	3	3	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE303T	Applied Structural Mechanics	3	3	-	-	-	-	-	-	-	-	-	3	3	-	-
21ASE304T	Experimental Stress Analysis	3	3	-	-	-	-	-	-	-	-	-	3	3	-	-
21ASE305T	Composite Materials and Structures	3	2	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE306T	Theory of Elasticity	3	2	-	-	-	-	-	-	-	-	-	1	2	-	-
21ASE307T	Fundamentals of Combustion	3	2	2	-	-	-	-	-	-	-	-	1	3	-	-
21ASE308T	Heat Transfer	3	3	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE309T	Theory of Fire Propagation and Safety	3	2	2	-	-	-	-	-	-	-	-	1	3	-	-
21ASE310T	Airframe Maintenance and Repair	3	-	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE311T	Aircraft Engine and Instrument Systems	3	-	-	-	-	-	-	-	-	-	-	1	2	-	-
21ASE312T	Helicopter Maintenance	3	-	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE313T	Space Mission Design and Analysis	3	3	3	1	-	-	-	-	-	-	-	1	3	2	-
21ASE314T	Aero Engine Maintenance and Repair	3	-	-	-	-	-	-	-	-	-	-	1	2	-	-
21ASE315T	Experimental Methods in Structural Mechanics	3	3	-	-	-	-	-	-	-	-	-	3	3	-	-
21ASE316T	Aviation legislation	3	-	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE317T	Optical Methods in Fluid and Solid Mechanics	3	3	-	-	-	-	-	-	-	-	-	3	3	-	-
21ASE318T	Combustion and Flow Diagnostics	3	-	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE319T	Design of Gas Turbine Engine Components	3	-	-	-	-	-	-	-	-	-	-	1	1	-	-
21ASE320T	Experimental Methods in Gas Dynamics and Propulsion	3	-	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE401T	Rocket Aerodynamics	3	3	-	-	-	-	-	-	-	-	-	2	3	-	-
21ASE402T	Computational Heat Transfer & Fluid Dynamics	3	3	-	-	1	-	-	-	-	-	-	1	3	-	-
21ASE403T	Turbulence and Turbulence Modeling	3	-	3	1	3	-	-	-	-	-	-	1	3	-	-
21ASE404T	High Temperature Gas Dynamics	2	3	-	-	-	-	-	-	-	-	-	1	2	-	-
21ASE405T	Theory of Plates and Shells	3	2	-	1	-	-	-	-	-	-	-	1	3	-	-

Course Code	Course Name	Program Outcomes (PO)												PSO		
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
		Engineering Knowledge	Problem Analysis	Design/development of solutions	Conduct investigations of complex problems	Modern Tool Usage	The engineer and society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PSO-1	PSO-2	PSO-3
21ASE406T	Vibrations and Elements of Aeroelasticity	3	3	-	-	-	-	-	-	-	-	-	3	3	-	-
21ASE407T	Fatigue and Fracture Mechanics	3	3	-	-	-	-	-	-	-	-	-	3	3	-	-
21ASE408T	Rockets and Missiles	3	2	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASE409T	Cryogenic Engineering	2	2	3	-	-	-	-	-	-	-	-	2	3	-	-
21ASE410T	Hypersonic Aerothermodynamics	2	3	-	-	-	-	-	-	-	-	-	1	3	2	-
21ASE411T	Digital Avionics	3	2	-	-	-	-	-	-	-	-	1	1	2	-	-
21ASE412T	Aircraft Control Systems	3	2	-	-	-	-	-	-	-	-	-	1	2	-	-
21ASE413T	Aerial Robotics	3	2	-	-	-	-	-	-	-	-	-	1	2	-	-
21ASE414T	Airborne Sensors and Actuators	3	2	-	-	-	-	-	-	-	-	-	1	2	-	-
21ASE415T	Aviation Safety Management	2	-	-	-	-	-	-	-	-	-	-	1	3	-	-
21ASO301T	Elements of Aeronautics	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-
21ASO302T	Creativity, Innovation. and New Product Development	3	2	-	-	-	-	-	-	-	-	-	1	-	-	-
21ASO303T	Aviation and Airline Maintenance Management	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-
21ASO304T	Aircraft General Engineering and Maintenance Practices	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-
21ASO305T	Flow Visualization Techniques	3	2	-	-	-	-	-	-	-	-	-	1	-	-	-
21ASO306T	Airport Engineering	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-
21ASO307T	Molecular Gas Dynamics	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-
21GNP301L	Community Connect	-	-	-	-	-	3	2	2	2	2	1	-	-	-	3
21ASP303T	MOOC	3	2	2	3	3	3	-	3	3	3	-	3	3	-	-
21ASP302L	Project	3	2	2	3	3	3	1	3	3	3	3	3	3	-	2
21ASP401L/ 21ASP402L/ 21ASP403L	Major Project	3	2	2	3	3	3	1	3	3	3	3	3	3	-	2
Program Average		3	3	2	3	3	3	1	3	3	3	3	1	3	3	3

1. (g) Implementation Plan: B.Tech. in Aerospace Engineering

Semester - I							Semester - II											
Course Code	Course Title	Hours / Week				C	Course Code	Course Title	Hours / Week				C					
		L	T	P					L	T	P							
21LEH101T	Communicative English	2	1	0	3		21LEH102T	Chinese										
21MAB101T	Calculus and Linear Algebra	3	1	0	4		21LEH103T	French										
21PYB101J	Physics: Electromagnetic Theory, Quantum Mechanics, Waves and Optics	3	1	2	5		21LEH104T	German	2	1	0	3						
21MES102L ¹	Engineering Graphics and Design	0	0	4	2		21LEH105T	Japanese										
21EES101T	Electrical and Electronics Engineering	3	1	0	4		21LEH106T	Korean										
21CYM101T ¹	Environmental Science	1	0	0	0		21LEH107T	Spanish										
21PDM101L ¹	Professional Skills and Practices	0	0	2	0		21LEH108T	Russian										
21LEM101T ¹	Constitution of India	1	0	0	0		21GNH101J	Philosophy of Engineering	1	0	2	2						
Total Credits 18							21MAB102T	Advanced Calculus and Complex Analysis	3	1	0	4						
Semester - III							21CYB101J	Chemistry	3	1	2	5						
Course Code	Course Title	Hours / Week				C	21BTB103T <td>Biology</td> <td>2</td> <td>0</td> <td>0</td> <td>2</td> <td></td>	Biology	2	0	0	2						
		L	T	P			21ASS101T	Applied Engineering Mechanics	3	0	0	3						
21MAB201T	Transforms and Boundary Value Problems	3	1	0	4		21CSS101J	Programming for Problem Solving	3	0	2	4						
21ASC201J	Elements of Aerospace Engineering	2	0	2	3		21MES101L ¹	Basic Civil and Mechanical Workshop	0	0	4	2						
21ASC203T	Applied Fluid Mechanics	3	0	0	3		21PDM102L ¹	General Aptitude	0	0	2	0						
21ASC205T	Aero Engineering Thermodynamics	3	0	0	3		21GNM101L ¹	Physical and Mental Health using Yoga	0	0	2	0						
21ASC207T	Aircraft Materials and Production Techniques	3	0	0	3	21GNM102L ¹	National Service Scheme											
						21GNM103L ¹	National Cadet Corps											
						21GNM104L ¹	National Sports Organization											
Total Credits 25						Semester - IV												
Course Code	Course Title	Hours / Week				C	Course Code	Course Title	Hours / Week				C					
		L	T	P					L	T	P							
21MAB202T	Numerical Methods	3	1	0	4		21CSC206T	Artificial Intelligence	2	1	0	3						
21ASC202T	Applied Solid Mechanics	3	0	0	3		21ASC202T	Applied Solid Mechanics	3	0	0	3						
21ASC204T	Incompressible Aerodynamics	3	0	0	3		21ASC204T	Incompressible Aerodynamics	3	0	0	3						
21ASC206T	Air Breathing Propulsion	3	0	0	3		21ASC206T	Air Breathing Propulsion	3	0	0	3						
21DCS201P ¹	Design Thinking and Methodology	1	2	0	3		21ASC222L ¹	Applied Solid Mechanics Laboratory	0	0	2	1						
21ASC222L ¹	Applied Solid Mechanics Laboratory	0	0	2	1		21ASC224L ¹	Incompressible Aerodynamics Laboratory	0	0	2	1						
21ASC224L ¹	Incompressible Aerodynamics Laboratory	0	0	2	1		21PDM202L ¹	Critical and Creative Thinking Skills	0	0	2	0						
Total Credits 21						Semester - VI												
Course Code	Course Title	Hours / Week				C	Course Code	Course Title	Hours / Week				C					
		L	T	P					L	T	P							
21CSS303T	Data Science	2	0	0	2		21ASC302T	Aircraft Systems and Instruments	3	0	0	3						
21ASC302T	Aircraft Systems and Instruments	3	0	0	3		21ASC304T	Space Mechanics	3	0	0	3						
21ASC304T	Space Mechanics	3	0	0	3		21ASC306T	Aircraft Stability and Control	3	0	0	3						
21ASC306T	Aircraft Stability and Control	3	0	0	3		E	Professional Elective - II				3						
E	Professional Elective - II				3		O	Open Elective - II				3						
21ASP303T ¹	MOOC	3	0	0	3		21ASP302L ¹	Project	0	0	6	3						
21ASP302L ¹	Project	0	0	6	3		21ASC322P ¹	Aircraft Design Project	0	0	2	1						
21ASC322P ¹	Aircraft Design Project	0	0	2	1		21ASC324L ¹	Aerospace Computational Analysis Laboratory	0	0	2	1						
21ASC324L ¹	Aerospace Computational Analysis Laboratory	0	0	2	1		21ASC326L ¹	Aircraft Maintenance Repair Laboratory	0	0	2	1						
21ASC326L ¹	Aircraft Maintenance Repair Laboratory	0	0	2	1		21PDM302L ¹	Employability Skills and Practices	0	0	2	0						
21PDM302L ¹	Employability Skills and Practices	0	0	2	0		21LEM302T ¹	Indian Traditional Knowledge	1	0	0	0						
21LEM302T ¹	Indian Traditional Knowledge	1	0	0	0		Total Credits 23											
Semester - VIII																		
Course Code	Course Title	Hours / Week				C	Course Code	Course Title	Hours / Week				C					
		L	T	P					L	T	P							
21ASP401L	Major Project	0	0	30	15		21ASP402L	Major Project	0	0	20	10						
21ASP402L	Major Project	0	0	20	10		21ASP403L	Internship#	0	0	10	5						
21ASP403L	Internship#	0	0	10	5		Total Credits 15											

Students have to register either 21ASP401L or 21ASP402L and 21ASP403L both in eighth semester



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

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