ACADEMIC CURRICULA

UNDERGRADUATE DEGREE PROGRAMMES

Bachelor of Technology

(B.Tech. - Four Years)

(Choice Based Flexible Credit System)

Regulations 2018

Volume - 1

(Revised in March 2019)



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Kattankulathur, Kancheepuram District 603203, Tamil Nadu, India



1. B.Tech. in Aerospace Engineering

27. (a) Mission of the Department

Mission Stmt - 1	Impart student's essential knowledge and skills required for a successful career as in aerospace engineering
Mission Stmt - 2	Instill confidence in the students to take up new challenges by grooming them appropriately
Mission Stmt - 3	Inculcate in the students a sense of commitment to professional ethics, moral values with emphasis on team work and leadership
IVIISSION SUNC-3	qualities
Mission Stmt - 4	Ingrain the students with a clear awareness of environmental issues and their relevance to engineering profession
Mission Stmt - 5	Impress upon the students the impact of their work on the nation's economic and social progress

27. (b) Program Educational Objectives (PEO)

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

27. (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	Н	Н	M	Н	М
PEO - 2	Н	М	Н	H	Н
PEO - 3	M	H	M	Н	Н
PEO-4	Н	Н	Н	L	M
PEO-5	L	H	M	Н	Н

H - High Correlation, M - Medium Correlation, L - Low Correlation

27. (d) Mapping Program Educational Objectives (PEO) to Program Learning Outcomes (PLO)

	1					Progra	am Lear	ning Ou	itcomes	(PLO)					
			42	Š.,	Gr	aduate At	ttributes (GA)	-	557	Ty			gram Spe comes (F	
No.	Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modem Tool Usage	Society & Culture	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Leaming	PSO - 1	PSO-2	PSO - 3
PEO - 1	Н	Н	H	Н	Н	L	М	L	М	М	Н	· H	- M	Н	Н
PEO - 2	Н	Н	Н	Н	Н	L	= M	L	М	Н	М	М	Н	Н	М
PEO - 3	Н	Н	Н	Н	Н	М	Н	М	М	М	Н	Н	Н	М	М
PEO - 4	Н	М	М	Н	Н	Н	М	Н	Н	Н	Н	L	М	М	Н
PEO - 5	М	М	Н	Н	М	Н	М	Н	Н	Н	М	М	Н	М	М

H – High Correlation, M – Medium Correlation, L – Low Correlation

PSO – Program Specific Outcomes (PSO)

PSO - 1	Ability to be aware about Safety aspects
PSO - 2	Ability to build Reliable systems and practices
PSO - 3	Ability to maintain systems and practices

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

	rogram Structure: b. 1 ech. 1	11 1			<u> </u>	Diigiiie	8				
	Humanities & Social Sciences						Basic Science Courses (B)				
Course	including Management Courses (H) Course	Ho	ırs/ W	/eek		Course	Course	Hou	ırs/ W		
Code	Title	I	T	P	С	Code	Title	L	Τ	Р	С
18LEH101J		2	0	2	3	18PYB102J	Physics: Mechanics and Mechanics of Solids	3	1	2	5
18LEH102J						18CYB101J	Calculus and Linear Algebra	3	1	0	5 4
18LEH103J				ļļ			Advanced Calculus and Complex Analysis	3	1	0	4
18LEH104J		2	0	2	3		Transforms and Boundary Value Problems	3	1	0	4
18LEH105J							Numerical Methods for Engineers	3	1	0	4
18LEH106J		0	0	2	1	18MAB301T	Probability and Statistics	3	1	0	4
	General Aptitude Management Principles for Engineers	2	0	0	2	18BTB101T		2	0	0	2
	Social Engineering	2	0	0	2		Total Learning Credits				32
	Employability Skills & Practices	0	0	2	1		Professional Core Courses (C)				
	Total Learning Credits				12	Course	Course	Ηοι	ırs/ W	eek	
	Engineering Science Courses (S)					Code	Title	L	Т	Р	С
Course	Course	Ηοι	ırs/ W				Applied Engineering Mechanics	3	1	0	4
Code	Title	L	T	Р	С		Applied Fluid Mechanics	3	0	2	4
	Engineering Graphics and Design	1	0	4	3		Aero Engineering Thermodynamics	3	0	0	3
18MES102J	Basic Civil and Mechanical Engineering	3	1	2	5		Aircraft Materials and Production Techniques	3	0	0	3
	Electrical and Electronics Eng. Workshop	1	0	4	3		Aircraft Systems and Instruments Applied Solid Mechanics	3	0	2	4
180331013	Programming for Problem Solving Total Learning Credits	3	0	4	5 16		Incompressible Aerodynamics	3	0	2	4
				_	10		Air Breathing Propulsion	3	0	0	3
	Professional Elective Courses (E) (Any 6 Courses)						Compressible Aerodynamics	3	0	2	4
Course	Course	Ho	ırs/ W	/eek			Flight Dynamics – I	3	0	0	3
Code	Title	I	T	P	С	18ASC303J	Rocket Propulsion	3	0	2	4
	Industrial Aerodynamics	3	0	0	3		Aircraft Structures	3	0	2	4
	Applied Structural Mechanics	3	0	0	3		Flight Dynamics – II	3	0	0	3
	Experimental Stress Analysis	3	0	0	3	18ASC306T	Introduction to Space Technology	3	0	0	3
18ASE204T	Composite Materials & Structures	3	0	0	3	18ASC307L	Aircraft Component Drawing and	0	0	2	1
	Theory of Plates and Shells	3	0	0	3		Computational Analysis Laboratory	0	1	0	1
	Theory of Elasticity	3	0	0	3	10A3C3301	Comprehension Total Learning Credits	U	-/	U	52
	Fundamentals of Combustion	3	0	0	3		Total Learning Credits				JŁ
	Heat Transfer	3	0	0	3		Open Elective Courses (O)				
	Theory of Fire Propagation and Safety	3	0	0	3		(Any 5 Courses))				
	Airframe Maintenance and Repair Airborne Sensors and Actuators	3	0	0	3	Course	Course	Hou	ırs/ W	eek	
	Aircraft Control Systems	3	0	0	3	Code	Title	L	Т	Р	С
	Helicopter Aerodynamics	3	0	0	3	18ASO101T	Elements of Aeronautics	3	0	0	3
	Rocket Aerodynamics	3	0	0	3	18ASO102T	Creativity, Innovation. & New Product	3	0	0	3
	Space Mission Design and Analysis	3	0	0	3		Development				
			0	0	3	18ASO1031	Aviation and Airline Maintenance Management		0	0	3
18ASE305T	Vibrations and Elements of Aeroelasticity	3					<u> </u>	3	0		
18ASE305T 18ASE306T	Digital Avionics	3	0	0	3	18ASO104T	Aircraft General Engineering and Maintenance	3	0	0	3
18ASE305T 18ASE306T 18ASE307T	Digital Avionics Computational Heat Transfer & Fluid Dynamics	3	0	0	3		Aircraft General Engineering and Maintenance Practices	3	0		
18ASE305T 18ASE306T 18ASE307T 18ASE308T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles	3 3	0 0 0	0 0 0	3	18ASO105T	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques	3	0	0	3
18ASE305T 18ASE306T 18ASE307T 18ASE308T 18ASE309T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics	3 3 3	0 0 0	0 0 0 0	3 3	18ASO105T 18ASO106T	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering	3 3	0 0 0	0	3
18ASE305T 18ASE306T 18ASE307T 18ASE308T 18ASE309T 18ASE310T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering	3 3 3 3 3	0 0 0 0	0 0 0 0	3 3 3	18ASO105T 18ASO106T	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics	3	0	0	3 3
18ASE305T 18ASE306T 18ASE307T 18ASE308T 18ASE309T 18ASE310T 18ASE311T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems	3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	3 3 3 3	18ASO105T 18ASO106T	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering	3 3	0 0 0	0	3
18ASE305T 18ASE306T 18ASE307T 18ASE308T 18ASE309T 18ASE310T 18ASE311T 18ASE312T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance	3 3 3 3 3 3 3	0 0 0 0 0 0	0 0 0 0 0	3 3 3 3 3	18ASO105T 18ASO106T	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits	3 3	0 0 0	0	3 3
18ASE305T 18ASE306T 18ASE307T 18ASE309T 18ASE310T 18ASE311T 18ASE312T 18ASE313T 18ASE314T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling	3 3 3 3 3 3	0 0 0 0 0	0 0 0 0 0	3 3 3 3	18ASO105T 18ASO106T	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In	3 3	0 0 0	0	3 3
18ASE305T 18ASE306T 18ASE306T 18ASE308T 18ASE309T 18ASE310T 18ASE311T 18ASE312T 18ASE313T 18ASE314T 18ASE314T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	3 3 3 3 3 3 3	18ASO105T 18ASO106T	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P)	3 3 3	0 0 0 0	0 0 0	3 3
18ASE305T 18ASE306T 18ASE306T 18ASE308T 18ASE309T 18ASE310T 18ASE311T 18ASE312T 18ASE313T 18ASE314T 18ASE314T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics	3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	18ASO105T 18ASO106T 18ASO107T	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course	3 3 3	0 0 0	0 0 0	3 3 3 15
18ASE305T 18ASE306T 18ASE306T 18ASE308T 18ASE309T 18ASE310T 18ASE311T 18ASE312T 18ASE313T 18ASE314T 18ASE314T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits	3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	3 3 3 3 3 3 3	18ASO105T 18ASO106T 18ASO107T Course Code	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P)	3 3 3 3	0 0 0 0	0 0 0	3 3
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE309T 18ASE310T 18ASE311T 18ASE313T 18ASE313T 18ASE314T 18ASE315T 18ASE315T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M)	3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3	18ASO105T 18ASO106T 18ASO107T Course Code 18ASP101L 18ASP102L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I	3 3 3 3	0 0 0 0	0 0 0	3 3 3 15
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE313T 18ASE314T 18ASE315T 18ASE316T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course	3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 18	18ASO105T 18ASO106T 18ASO107T Course Code 18ASP101L 18ASP102L 18ASP103L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I	3 3 3 3 Hou L	0 0 0 0	0 0 0	3 3 3 15
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE314T 18ASE315T 18ASE315T 18ASE316T	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title	3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 18	18ASO105T 18ASO106T 18ASO107T Course Code 18ASP101L 18ASP102L 18ASP103L 18ASP104L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II	3 3 3 3 4 Hou L	0 0 0 0 0 T	0 0 0	3 3 3 15
18ASE305T 18ASE306T 18ASE300T 18ASE309T 18ASE309T 18ASE310T 18ASE311T 18ASE313T 18ASE314T 18ASE315T 18ASE316T Course Code 18PDM101L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses Title Professional Skills and Practices	3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 18	18ASO105T 18ASO106T 18ASO107T 18ASO107T Course Code 18ASP101L 18ASP102L 18ASP103L 18ASP104L 18ASP105L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II	3 3 3 3 Hou L	0 0 0 0	0 0 0	3 3 3 15
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE315T 18ASE315T 18ASE316T Course Code 18PDM101L 18PDM201L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills	3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 18	18ASO105T 18ASO106T 18ASO107T 18ASO107T Course Code 18ASP101L 18ASP102L 18ASP103L 18ASP105L 18ASP105L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Industrial Training-II Seminar - II	3 3 3 3 4 Hou L	0 0 0 0 0 T	0 0 0	3 3 3 15
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE312T 18ASE314T 18ASE314T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM201L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development	3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 18	18ASO105T 18ASO106T 18ASO107T 18ASO107T Course Code 18ASP101L 18ASP102L 18ASP104L 18ASP105L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Mindustrial Training-II Seminar - II Minor Project	3 3 3 3 4 Hou L	0 0 0 0 0 T	0 0 0	3 3 3 15
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE312T 18ASE313T 18ASE314T 18ASE315T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM203L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills	3 3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 18	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP104L 18ASP105L 18ASP106L 18ASP107L 18ASP107L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - III Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks)	3 3 3 3 3 4 Hou L	0 0 0 0 0 T	0 0 0 0 0 P 2	3 3 3 15 C
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE313T 18ASE315T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM202L 18PDM202L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs	3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 18	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - III Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project	3 3 3 3 3 Hou L	0 0 0 0 0 T	0 0 0 0 P	3 3 3 15 C
18ASE305T 18ASE306T 18ASE300T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE313T 18ASE314T 18ASE315T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM201L 18PDM202L 18PDM202L 18PDM204L 18PDM301L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills	3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 T	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 18	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project Semester Internship	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1 3
18ASE305T 18ASE306T 18ASE300T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE311T 18ASE315T 18ASE315T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM301L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management	3 3 3 3 3 3 3 3 3 3 3 4 1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 18	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - III Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE314T 18ASE315T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India	3 3 3 3 3 3 3 3 3 3 4 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 18	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project Semester Internship	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1 3
18ASE305T 18ASE306T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE312T 18ASE313T 18ASE314T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM201L 18PDM201L 18PDM301L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education	3 3 3 3 3 3 3 3 3 3 3 3 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 18	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project Semester Internship	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1 3
18ASE305T 18ASE306T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE312T 18ASE313T 18ASE314T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM201L 18PDM201L 18PDM301L	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga	3 3 3 3 3 3 3 3 3 3 3 3 4 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0 0 0	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project Semester Internship	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1 3
18ASE305T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE313T 18ASE315T 18ASE315T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM301L 18PD	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga NSS NCC	3 3 3 3 3 3 3 3 3 3 3 3 4 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0 0 0	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project Semester Internship	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1 3
18ASE305T 18ASE306T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE313T 18ASE315T 18ASE315T 18ASE316T Course Code 18PDM101L 18PDM201L 18PDM301L 18P	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga NSS NSC	3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0 0	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project Semester Internship	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1 3
18ASE305T 18ASE306T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE312T 18ASE313T 18ASE315T 18ASE316T Course Code 18PDM201L 18PDM301L 18P	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga INSS INSC Indian Traditional Knowledge	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0 0	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project Semester Internship	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1 3
18ASE305T 18ASE306T 18ASE306T 18ASE306T 18ASE309T 18ASE310T 18ASE311T 18ASE311T 18ASE313T 18ASE313T 18ASE315T 18ASE316T Course Code 18PDM201L 18PDM301L 18P	Digital Avionics Computational Heat Transfer & Fluid Dynamics Rockets and Missiles Fatigue and Fracture Mechanics Cryogenic Engineering Aircraft Engine and Instrument Systems Helicopter Maintenance Aerial Robotics Turbulence and Turbulence Modeling High Temperature Gas Dynamics Hypersonic Aerothermodynamics Total Learning Credits Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Entrepreneurial Skill Development Critical and Creative Thinking Skills Business Basics for Entrepreneurs Analytical and Logical Thinking Skills Entrepreneurship Management Constitution of India Value Education Physical and Mental Health using Yoga NSS NSC	3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 0 0 0 0	Course Code 18ASP101L 18ASP101L 18ASP101L 18ASP103L 18ASP105L 18ASP105L 18ASP106L 18ASP106L 18ASP106L 18ASP106L	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques Airport Engineering Molecular Gas Dynamics Total Learning Credits Project Work, Seminar, Internship In Industry / Higher Technical Institutions (P) Course Title Massive Open Online Course - I Industrial Training-I Seminar - I Massive Open Online Course - II Industrial Training-II Seminar - II Minor Project Internship (4-6 weeks) Project Semester Internship	3 3 3 3 3 4 Hou L	0 0 0 0 0 0 T 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 P 2	3 3 3 15 C 1 1 3

27. (f) Program Articulation: B.Tech. in Aerospace Engineering

				F	rog	ram	Le	arniı	ng (Outo	om	es (l	PLO)		
		Graduate Attributes												PSO		
Course Code	Course Name	Engineering Knowledge	Problem Analysis	Design & Development	Analysis, Design, Research	Modern Tool Usage	Society & Culture	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Mgt. & Finance	Life Long Learning	PS0 - 1	PS0 - 2	PSO - 3
18ASC101T	Applied Engineering Mechanics	H	Η	M	M	L	Ĺ	L	L	L	Ľ	L	Ή	M	М	M
	Applied Fluid Mechanics	Н	Н	М	М	М	L	L	L	L	L	L	Н	М	М	М
	Aero Engineering Thermodynamics	Н	Н	М	М	М	L	М	М	L	М	L	Н	М	М	L
	Aircraft Materials and Production Techniques	Н	М	М	М	М	L	М	L	М	М	L	Н	Н	Н	Н
	Aircraft Systems and Instruments	Н	М	М	М	М	L	М	L	М	М	М	Н	Н	Н	Н
	Applied Solid Mechanics	Н	Н	М	М	М	L	L	L	М	М	М	М	М	М	М
	Incompressible Aerodynamics	Н	Н	Н	Н	М	L	L	L	М	L	М	Н	L	Н	L
	Air Breathing Propulsion	Н	Н	M	Н	М	L	М	М	L	L	М	Н	М	L	М
	Compressible Aerodynamics	Н	Н	Н	Н	M	L	L	L	М	М	М	М	L	L	L
	Flight Dynamics – I	Н	Н	Н	Н	М	L	L	L	Н	L	М	Н	Н	Н	L
	Rocket Propulsion	Н	Н	M	Н	М	L	М	М	L	L	M	Н	М	L	M
	Aircraft Structures	Н	H	М	М	М	L	L	L	М	М	M	М	М	М	М
	Flight Dynamics – II Introduction to Space Technology	H	H	H	H	M	М	M	L	L	L	M	M H	L M	L	L
18ASC307L	Aircraft Component Drawing and Computational Analysis	Н	Н	М	Н	М	L	L	L	М	L M	M	Н	М	М	L
	Laboratory Industrial Agradymamics											,	LI		1.1	
	Industrial Aerodynamics Applied Structural Mechanics	Н	Н	M	M	H	Н	H	L	M	L	L	H	Н	M	M
	Applied Structural Mechanics Experimental Stress Analysis	H	H	M	M M	M	L	L	L	M	M	M H	M M	M M	M	M
	Composite Materials & Structures	Н	Н	M	Н	M	L	L	L	M	M	М	H	M	M	M
	Theory of Plates and Shells	Н	Н	M	Н	M	L	L	L	M	M	M	Н	M	M	M
	Theory of Elasticity	Н	Н	M	Н	M	L	L	L	M	M	M	Н	M	M	M
	Fundamentals of Combustion	Н	Н	Н	Н	M	М	Н	М	M	M	Н	Н	M	M	Н
	Heat Transfer	H	Н	Н	Н	L	M	H	L	IVI	L	L	Н	M	M	Н
	Theory of Fire Propagation and Safety	Н	Н	Н	Н	L	M	H	L	L	L	L	Н	Н	M	М
	Airframe Maintenance and Repair	Н	М	М	М	М	L	М	L	М	М	М	Н	Н	Н	Н
	Airborne Sensors and Actuators	Н	Н	Н	Н	M	Ĺ	L	L	L	L	L	М	М	М	М
	Aircraft Control Systems	Н	Н	Н	Н	М	М	Н	L	L	L	Ĺ	Н	М	М	M
	Helicopter Aerodynamics	Н	Н	Н	Н	М	L	L	L	M	М	M	М	М	М	М
	Rocket Aerodynamics	Н	Н	Н	Н	Н	М	М	L	М	L	М	Н	Н	Н	М
	Space Mission Design and Analysis	Н	Н	Н	H_	М	Н	М	L	М	М	Н	М	М	Н	М
	Vibrations and Elements of Aero-elasticity	Н	Н	М	Н	М	L	L	L	М	М	М	Н	М	М	М
18ASE306T	Digital Avionics	Н	Н	Н	Н	L	L	М	М	М	L	L	М	Н	Н	Н
18ASE307T	Computational Heat Transfer and Fluid Dynamics	Н	Н	Н	Н	Н	L	Н	L	L	L	L	Н	Н	Н	М
18ASE308T	Rockets and Missiles	Н	Н	Н	Н	М	L	Н	L	М	L	Н	Н	Н	Н	L
	Fatigue and Fracture Mechanics	Н	Н	М	Н	М	L	L	L	М	M	М	Н	М	М	М
	Cryogenic Engineering	Н	Н	М	Н	Н	L	М	М	L	L	М	Н	М	L	М
	Aircraft Engine and Instrument Systems	Н	М	М	М	М	L	М	L	М	М	М	Н	Н	Н	Н
	Helicopter Maintenance	Н	Н	М	М	М	L	М	L	L	L	L	М	Н	Н	Н
	Aerial Robotics	Н	Н	Н	Н	М	М	Н	L	L	L	L	Н	М	М	М
	Turbulence and Turbulence Modeling	Н	-	Н	Н	Н	Н	-	-	-	-	-	-	М	М	М
	High Temperature Gas Dynamics	Н	М	-	L	-	-	М	-	-	-	-	-	Н	М	L
	Hypersonic Aerothermodynamics	Н	М		Н	L	-	-	-	-	-	-	-	М	Н	М
	Elements of Aeronautics	Н	Н	М	Н	L	L	М	L	L	L	L	Н	М	М	M
	Creativity, Innovation and New Product Development	M	L	L	L	L	Н	H	Н	Н	Н	Н	Н	Н	Н	М
	Aviation and Airline Maintenance Management	Н	L	L	L	L	M	M	L	L	L	M	М	М	Н	Н
	Aircraft General Engineering and Maintenance Practices Flow Visualization Techniques	H	Н	L	L	L	L	M	L	Н	M	L	Н	Н	Н	Н
	Flow Visualization Techniques	Н	Н	M H	M	M	L	M	L	M	M	M	M	H	L M	M
	Molecular Gas Dynamics	Н	H	-	M L	M	<u>М</u>	IVI -	L	IVI -	L -	L	M -	L	Н	M
	Massive Open Online Course - I	Н	М	М	М	M	М	М	М	Н	Н	Н	М	Н	Н	Н
	Industrial Training-I	Н	М	M	M	M	M	M	M	Н	Н	Н	М	Н	Н	Н
18ASP103L		Н	M	M	M	M	M	M	M	Н	Н	Н	M	Н	Н	H
	Massive Open Online Course - II	Н	M	M	M	M	M	M	М	Н	Н	H	М	Н	Н	H
18ASP105L		Н	M	M	M	M	M	M	M	Н	Н	Н	М	Н	Н	Н
18ASP106L		Н	M	M	М	M	M	M	M	Н	Н	Н	М	Н	Н	Н
	Minor Project	Н	Н	Н	Н	Н	M	М	H	Н	Н	H	Н	Н	М	М
18ASP108L		Н	Н	Н	Н	Н	М	М	Н	Н	Н	H	Н	Н	М	M
18ASP109L		Н	Н	Н	Н	Н	М	М	Н	Н	Н	Н	Н	Н	М	М
	Semester Internship	Н	Н	Н	Н	Н	М	М	H	Н	Н	Н	Н	Н	М	
	Program Average	Н	Н	М	Н	М	М	М	М	Н	Н	Н	Н	М	М	

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

	Semester - I	ı.					Semester - II				
Code	Course Title	Hou	rs/V	Veek P	С	Code	Course Title	Hou	urs/V	Veek P	С
	Chinese / French / German / Japanese/ Korean		0	2	3	18LEH101J	English	2	0		3
	Calculus and Linear Algebra	3	1	0	4	18MAB102T	Advanced Calculus and Complex Analysis	3	1	0	4
18CYB101J		3	1	2	5		Physics: Mechanics and Mechanics of Solids	3	1	2	5
18CSS101J	Programming for Problem Solving	3	0	4	5		Engineering Graphics and Design	1	0	4	3
	Electrical and Electronics Eng. Workshop	1	0	4	3		Basic Civil and Mechanical Engineering	3	1	2	5
	Professional Skills and Practices	0	0	2	0		General Aptitude	0	0		1
	Value Education	1	0	1	0		Constitution of India	1	0	2	0
18GNM102L 18GNM103L		0	0	2	0	INGINIMITUIL	Physical and Mental Health using Yoga Total Learning Credits		U		0 21
18GNM103L		U	U	2	U		Total Learning Credits	•			21
TOOTVIVITOAL	Total Learning Credits				20						
	Semester - III	T	/11	., .	1		Semester - IV	1	- / 1		
Code	Course Title	L	ırs/ V	Veek P	C	Code	Course Title	L	Τ	Veek P	С
	Transforms and Boundary Value Problems	3	1	0	4		Numerical Methods for Engineers	3	1		4
18ASC101T	Applied Engineering Mechanics	3	1	0	4	18BTB101T		2	0	0	2
	Applied Fluid Mechanics	3	0	2	4		Applied Solid Mechanics	3	0		4
18ASC103T	Aero Engineering Thermodynamics	3	0	0	3		Incompressible Aerodynamics	3	0	2	4
	Aircraft Materials and Production Techniques	3	0	2	4	18ASC2031	Air Breathing Propulsion	3	0		3
	Aircraft Systems and Instruments	2	0	0	3	1000111027	Open Elective - I Management Principles for Engineers	2	0	0	3
	Social Engineering Competencies in Social Skills		0				Critical and Creative Thinking Skills			0	2
10FDM201L	Entrepreneurial Skill Development	0	0	2	0		Business Basics for Entrepreneurs	0	0	2	0
	Environmental Science	1	0	0	0	TOP DIVIZUAL	Total Learning Credits				22
TOCTIVITOTT	Total Learning Credits		U	U	24		Total Learning Gredits	,			
	Semester - V			1	e de la	111111	Semester - VI				
Code	Course Title		ırs/ V	_	С	Code	Course Title	Ηοι	ırs/ V	Veek	С
		L	Τ	Р		Code	Course ritte		ΙT	P	
18MAB301T						ll		L			
	Probability and Statistics	3	1	0	4		Flight Dynamics - I	3	0		3
18ASC301J	Compressible Aerodynamics	3	0	2	4	18ASC306T	Introduction to Space Technology	3	0	0	3
18ASC301J 18ASC303J	Compressible Aerodynamics Rocket Propulsion	3	0	2	4	18ASC306T	Introduction to Space Technology Comprehension	3 3 0	0 0 1	0	3
18ASC301J 18ASC303J	Compressible Aerodynamics Rocket Propulsion Aircraft Structures	3 3	0 0	2 2 2	4 4 4	18ASC306T	Introduction to Space Technology Comprehension Professional Elective – 2	3 3 0 3	0 0 1 0	0 0	3 1 3
18ASC301J 18ASC303J	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1	3 3 3 3	0 0 0	2 2 2 0	4 4 4 3	18ASC306T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3	3 3 0 3 3	0 0 1 0 0	0 0 0	3 1 3 3
18ASC301J 18ASC303J 18ASC304J	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2	3 3	0 0	2 2 2	4 4 4	18ASC306T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4	3 3 0 3 3 3	0 0 1 0 0 0	0 0 0 0	3 1 3 3
18ASC301J 18ASC303J 18ASC304J 18ASP101L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I	3 3 3 3	0 0 0 0	2 2 2 0 0	4 4 3 3 3	18ASC350T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3	3 3 0 3 3	0 0 1 0 0	0 0 0	3 1 3 3
18ASC301J 18ASC303J 18ASC304J 18ASP101L 18ASP102L 18ASP103L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I	3 3 3 3	0 0 0	2 2 2 0	4 4 4 3	18ASC306T 18ASC350T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II	3 3 0 3 3 3	0 0 1 0 0 0	0 0 0 0	3 1 3 3
18ASC301J 18ASC303J 18ASC304J 18ASP101L 18ASP102L 18ASP103L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I	3 3 3 3 3	0 0 0 0 0 0	2 2 2 0 0	4 4 4 3 3 3	18ASC306T 18ASC350T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II	3 3 3 3 3	0 0 1 0 0 0	0 0 0 0 0	3 1 3 3 3 3
18ASC301J 18ASC303J 18ASC304J 18ASP101L 18ASP102L 18ASP103L 18PDM301L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I	3 3 3 3	0 0 0 0	2 2 2 0 0	4 4 3 3 3	18ASC306T 18ASC350T 18ASP104L 18ASP105L 18ASP106L 18PDH201T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices	3 3 3 3 3	0 0 1 0 0 0	0 0 0 0 0	3 1 3 3 3 3
18ASC301J 18ASC303J 18ASC304J 18ASP101L 18ASP102L 18ASP103L 18PDM301L 18PDM302L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills	3 3 3 3 3	0 0 0 0 0 0	2 2 2 0 0	4 4 4 3 3 3	18ASC306T 18ASC350T 18ASP104L 18ASP105L 18ASP106L 18PDH201T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II	3 3 0 3 3 3 3 0	0 0 1 0 0 0 0	0 0 0 0 0 0	3 1 3 3 3 3
18ASC301J 18ASC303J 18ASC304J 18ASP101L 18ASP102L 18ASP103L 18PDM301L 18PDM302L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits	3 3 3 3 3 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 0 0 2 2 2 2	4 4 4 3 3 3 1	18ASC306T 18ASC350T 18ASP104L 18ASP105L 18ASP106L 18PDH201T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices	3 3 0 3 3 3 3 0 0	0 0 1 0 0 0 0	0 0 0 0 0 0	3 1 3 3 3 3 1
18ASC301J 18ASC303J 18ASC304J 18ASP101L 18ASP102L 18ASP103L 18PDM301L 18PDM302L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits	3 3 3 3 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 0 0 2 2 2 2	4 4 4 3 3 1	18ASC306T 18ASC350T 18ASP104L 18ASP105L 18ASP106L 18PDH201T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge	3 3 0 3 3 3 3 0 0	0 0 1 0 0 0 0	0 0 0 0 0 0	3 1 3 3 3 3 1
18ASC301J 18ASC303J 18ASC304J 18ASP101L 18ASP102L 18ASP103L 18PDM301L 18PDM302L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits	3 3 3 3 0 0 0	0 0 0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASP104L 18ASP105L 18ASP106L 18PDH201T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge	3 3 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0 2 2	3 1 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP102L 18ASP1030L 18PDM301L 18PDM301L 18LEM110L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title	3 3 3 3 3 0 0	0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP106L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	3 3 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0	0 0 0 0 0 0	3 1 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP102L 18ASP1030L 18PDM301L 18PDM301L 18LEM110L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II	3 3 3 3 3 0 0	0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2 P	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	3 3 0 3 3 3 3 3 3 0 0 0 1 1	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2 0	3 1 3 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP102L 18ASP1030L 18PDM301L 18PDM301L 18LEM110L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II Professional Elective – 5	3 3 3 3 0 0 0 0 L	0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2 2 0 0	4 4 4 4 3 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	3 3 0 3 3 3 3 3 0 0 1 1	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2	3 1 3 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP102L 18ASP1030L 18PDM301L 18PDM301L 18LEM110L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II Professional Elective – 5 Professional Elective – 6	3 3 3 3 0 0 0 0 L L 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title	3 3 0 3 3 3 3 3 3 0 0 0 1 1	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2 0	3 1 3 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP102L 18ASP1030L 18PDM301L 18PDM301L 18LEM110L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II Professional Elective – 5 Professional Elective – 6 Open Elective – 4	3 3 3 3 3 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title Project	3 3 0 3 3 3 3 3 3 0 0 0 1 1	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2 0	3 1 3 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP102L 18ASP1030L 18PDM301L 18PDM301L 18LEM110L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II Professional Elective – 5 Professional Elective – 6 Open Elective – 4 Open Elective – 5	3 3 3 3 0 0 0 0 L L 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title Project	3 3 0 3 3 3 3 3 3 0 0 0 1 1	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2 0	3 1 3 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP103L 18ASP103L 18PDM301L 18PDM301L 18LEM110L	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II Professional Elective – 5 Professional Elective – 6 Open Elective – 4 Open Elective – 5 Aircraft Component Drawing and	3 3 3 3 3 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title Project Semester Internship	3 3 0 3 3 3 3 3 0 0 0 1 1 5	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2 0	3 1 3 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP103L 18PDM301L 18PDM301L 18LEM110L Code 18ASC305T	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II Professional Elective – 5 Professional Elective – 6 Open Elective – 4 Open Elective – 5 Aircraft Component Drawing and Computational Analysis Laboratory	3 3 3 3 3 0 0 0 0 1 1 1 1 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 0 0 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title Project	3 3 0 3 3 3 3 3 0 0 0 1 1 5	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2 0	3 1 3 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP103L 18PDM301L 18PDM302L 18LEM110L Code 18ASC305T	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II Professional Elective – 5 Professional Elective – 6 Open Elective – 4 Open Elective – 5 Aircraft Component Drawing and Computational Analysis Laboratory Minor Project	3 3 3 3 0 0 0 0 0 1 1 1 1 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0	2 2 0 0 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0	4 4 4 4 3 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title Project Semester Internship	3 3 0 3 3 3 3 3 0 0 0 1 1 5	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2 0	3 1 3 3 3 3 3 1 1 0 21
18ASC301J 18ASC303J 18ASC304J 18ASC304J 18ASP101L 18ASP103L 18PDM301L 18PDM302L 18LEM110L Code 18ASC305T	Compressible Aerodynamics Rocket Propulsion Aircraft Structures Professional Elective – 1 Open Elective – 2 Massive Open Online Course - I Industrial Training-I Seminar - I Analytical and Logical Thinking Skills Entrepreneurship Management Indian Art Form Total Learning Credits Semester - VII Course Title Flight Dynamics – II Professional Elective – 5 Professional Elective – 6 Open Elective – 4 Open Elective – 5 Aircraft Component Drawing and Computational Analysis Laboratory	3 3 3 3 3 3 0 0 0 0 0 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 2 2 0 0 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0	4 4 4 3 3 1 0 0 23	18ASC306T 18ASC350T 18ASC350T 18ASP104L 18ASP105L 18ASP109L 18PDH201T 18LEM109T	Introduction to Space Technology Comprehension Professional Elective – 2 Professional Elective – 3 Professional Elective – 4 Open Elective – 3 Massive Open Online Course - II Industrial Training-II Seminar - II Employability Skills and Practices Indian Traditional Knowledge Total Learning Credits Semester - VIII Course Title Project Semester Internship	3 3 0 3 3 3 3 3 0 0 0 1 1 5	0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0 2 2 0	3 1 3 3 3 3 3 1 1 0 21