

RAJASTHAN TECHNICAL UNIVERSITY, KOTA
B. Tech. Scheme

Course	Aeronautical Engineering					Code	AN		
SEMESTER III	Subject Code	Title	Hrs. / Week			IA	Exam	Total	
			L	T	P				
	3AN1	Mechanics of Solids	3	1	Theory Subjects	20	80	100	
	3AN2	Material Science and Engineering.	3			20	80	100	
	3AN3	Engineering Thermodynamics	3	1		20	80	100	
	3AN4	Manufacturing Processes	3			20	80	100	
	3AN5	Object Oriented Programming in C++	3			20	80	100	
	3AN6	Advanced Engg. Mathematics	3			20	80	100	
	3AN7	Strength of Material Lab	Practical laboratory courses			2	45	30	75
	3AN8	Material Science Lab				2	45	30	75
	3AN9	Production Practice Lab				3	60	40	100
	3AN10	Computer Programming Lab				3	60	40	100
							0	0	
	3ANDC	Discipline & Extra curricular Activity						50	
		Total	18	2	10			1000	

SEMESTER IV	Subject Code	Title	Hrs. / Week			IA	Exam	Total	
			L	T	P				
	4AN1	Introduction to Aeronautics	3		Theory Subjects	20	80	100	
	4AN2	Instrumentation and Control Engg.	3	1		20	80	100	
	4AN3	Fluid Mechanics	3			20	80	100	
	4AN4	Theory of Machines	3	1		20	80	100	
	4AN5	Aircraft Materials	3			20	80	100	
	4AN6	Machine Design	3	1		20	80	100	
	4AN7	Machine Design Sessional	Practical laboratory courses			3	60	40	100
	4AN8	Instrumentation Lab				2	45	30	75
	4AN9	Fluid Mechanics Lab				2	45	30	75
	4AN10	Introduction to Aeronautics lab				3	60	40	100
				0	0				
	4ANDC	Discipline & Extra curricular Activity						50	
		Total	18	3	10			1000	

RAJASTHAN TECHNICAL UNIVERSITY, KOTA
B. Tech. Scheme

Course	Aeronautical Engineering				Code	AN		
SEMESTER V								
Subject Code	Title	Hrs. / Week			IA	Exam	Total	
		L	T	P				
5AN1	Vibration Engg.	3	1		20	80	100	
5AN2	Heat Transfer	3	1		20	80	100	
5AN3	Aircraft System	3			20	80	100	
5AN4	Aircraft Structure I	3	1		20	80	100	
5AN5	Propulsion	3			20	80	100	
5AN6.1	Reliability and Maintenance Engg.	3		Theory Subjects	20	80	100	
5AN6.2	Fatigue and Fracture							
5AN6.3	Total Quality Management							
5AN7	Thermal Engineering Lab	Practical laboratory courses			3	60	40	100
5AN8	Aircraft Structure Lab				2	45	30	75
5AN9	Aircraft System lab				3	60	40	100
5AN10	Propulsion Lab				2	45	30	75
						0	0	
5ANDC	Discipline & Extra curricular Activity							50
Total		18	3	10				1000
SEMESTER VI								
Subject Code	Title	Hrs. / Week			IA	Exam	Total	
		L	T	P				
6AN1	Digital Techniques	3			20	80	100	
6AN2	Mechanics of Composite Materials	3			20	80	100	
6AN3	Aerodynamics I	3	1		20	80	100	
6AN4	Aircraft Structure II	3	1		20	80	100	
6AN5	Aircraft Design	3			20	80	100	
6AN6.1	Maintenance of Power Plant & Systems	3		Theory Subjects	20	80	100	
6AN6.2	Computational Fluid Dynamics							
6AN6.3	Helicopter Theory							
6AN7	Aircraft Design Lab	Practical laboratory courses			3	60	40	100
6AN8	Aerodynamics Lab				3	60	40	100
6AN9	Airframe Lab				2	30	20	50
6AN10	Soft Skill Development Lab				2	30	20	50
6AN11	Professional Ethics and Disaster Management				2	30	20	50
6ANDC	Discipline & Extra curricular Activity							50
Total		18	2	12				1000

RAJASTHAN TECHNICAL UNIVERSITY, KOTA
B. Tech. Scheme

Course	Aeronautical Engineering				Code	AN	
SEMESTER VII		Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
7AN1	Aircraft Communication and Navigation	3		Theory Subjects	20	80	100
7AN2	Finite Element Methods	3			20	80	100
7AN3	Aerodynamics II	3	1		20	80	100
7AN4	Civil Aviation and Regulation	3			20	80	100
7AN5	Aircraft Instrument	3			20	80	100
7AN6.1	Maintenance of Airframe System	3			20	80	100
7AN6.2	Theory of Plate and Shells						
7AN6.3	Rocket and Missile Design						
7AN7	Finite Element Lab	Practical laboratory courses	3	60	40	100	
7AN8	Aircraft Communication Systems Lab		2	30	20	50	
7AN9	Aircraft Instruments Lab		2	30	20	50	
			0	0			
7ANTR	Practical Training & Industrial visit		2		100	100	
7ANPR	Project -I		2	50		50	
7ANDC	Discipline & Extra curricular Activity					50	
	Total	18	1	11			1000

SEMESTER VIII		Hrs. / Week			IA	Exam	Total
Subject Code	Title	L	T	P			
8AN1	Avionics	3	1	Theory Subjects	20	80	100
8AN2	Aircraft Performance	3	1		20	80	100
8AN3	Aircraft Stability and Control	3	1		20	80	100
8AN4.1	Aircraft Electrical Systems	3	1		20	80	100
8AN4.2	Aeroelasticity						
8AN4.3	Space Dynamics						
8AN5	Avionics Lab	Practical laboratory courses	2	30	20	50	
8AN6	Aircraft Electrical Lab		3	60	40	100	
8AN7	CAD Lab		3	60	40	100	
8ANPR	Project-II		2	120	80	200	
8ANSM	Seminar		2	60	40	100	
8ANDC	Discipline & Extra curricular Activity						50
	Total	12	4	12			1000