

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	Compuer Programming Lab		3	60	40	100		
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		
4ANDC	Discipline & Extra curricular Activity					50		
Total		18	3	10			1000	

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SEMESTER V		Hrs. / Week			IA	Exam	Total	
Subject Code	Title	L	T	P				
5AN1	Vibration Engg.	3	1	Theory Subjects	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	Space Dynamics	3			20	80	100	
5AN6.2	Fatigue and Fracture							
5AN6.3	Aircraft rules & regulation - I							
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		
5ANDC	Discipline & Extra curricular Activity							50
Total		18	3	10			1000	
SEMESTER VI		Hrs. / Week			IA	Exam	Total	
Subject Code	Title	L	T	P				
6AN1	Digital Techniques	3		Theory Subjects	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	Heat transfer in space application	3			20	80	100	
6AN6.2	Computational Fluid Dynamics							
6AN6.3	Aircraft rules & regulation - II							
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	

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SEMESTER VII Subject Code	Title	Hrs. / Week			IA	Exam	Total
		L	T	P			
7AN1	Avionics - I	3			20	80	100
7AN2	Finite Element Methods	3	1		20	80	100
7AN3	Aerodynamics II	3	1		20	80	100
7AN4	Aircraft Performance	3			20	80	100
7AN5	Aircraft Stability and Control	3			20	80	100
7AN6.1	Space mission design & optimization	3	Theory Subjects		20	80	100
7AN6.2	Helicopter theory						
7AN6.3	Maintenance of Airframe and System design /						
7AN7	Avionics Lab - I			3	60	40	100
7AN8	Finite Element Lab			3	30	20	100
7ANTR	Practical Training & Industrial visit			2		100	100
7ANPR	Project -I			2	50		50
7ANDC	Discipline & Extra curricular Activity						50
Total		18	2	10			1000

SEMESTER VIII Subject Code	Title	Hrs. / Week			IA	Exam	Total
		L	T	P			
8AN1	Avionics - II	4			20	80	100
8AN2	CAD	4			20	80	100
8AN3	Airlines and Airport Management	3			20	80	100
8AN4.1	Refrigeration & Cryogenics	3	Theory Subjects		20	80	100
8AN4.2	Theory of Plate and Shells						
8AN4.3	Maintenance of Power Plant & Systems						
8AN5	Avionics Lab - II			3	30	20	125
8AN6	CAD Lab			3	60	40	125
8ANPR	Project-II			4	120	80	200
8ANSM	Seminar			2	60	40	100
8ANDC	Discipline & Extra curricular Activity						50
Total		14		12			1000