

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
Course and Examination Scheme Bachelor of Technology-Aeronautical Engineering
III Semester B. Tech. (CBCS)

	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory					Practical			
		L	T	P		Duration of Paper (Hrs)	Max Marks University Assessment	Max Marks College Assessment	Total Marks	Min. Passing Marks	Max Marks University Assessment	Max Marks College Assessment	Total Marks	Min. Passing Marks
BTAE 301T	Applied Mathematics -III	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 302T	Aero-Thermodynamics	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 302P	Aero-Thermodynamics	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 303T	Fluid Mechanics & Machinery	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 303P	Fluid Mechanics & Machinery	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 304T	Avionics -I	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 305P	Computer Programming	-	1	2	2	-	-	-	-	-	25	25	50	25
BTAE 306T	Elements of Aeronautics	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 307T	Aerodynamics-I	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 308T	Essence of Indian Traditional Knowledge	2	-	-	-	College assessment in Grades as O,A,B,C (Evaluation mentioned in the Syllabus of concern subject)								
Total		20	1	6	22	-	420	180	600	-	75	75	150	-
Semester Total		27			22	Marks 750								

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Faculty of Engineering & Technology
Course and Examination Scheme Bachelor of Technology-Aeronautical Engineering
IV Semester B. Tech. (CBCS)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory					Practical			
		L	T	P		Duration of Paper (Hrs)	Max Marks University Assessment	Max Marks College Assessment	Total Marks	Min. Passing Marks	Max Marks University Assessment	Max Marks College Assessment	Total Marks	Min. Passing Marks
BTAE 401T	Manufacturing Process- I	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 401P	Manufacturing Process Lab.	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 402T	Aircraft Structure- I	3	1	-	4	03	70	30	100	45	-	-	-	-
BTAE 402P	Aircraft Structure- I	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 403T	Aerodynamics-II	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 403P	Aerodynamics Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
-BTAE 404T	Propulsion- I	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 405T	Aircraft Flight Mechanics	3	1	-	4	03	70	30	100	45	-	-	-	-
BTAE 406T	Professional Ethics	2			2	02	35	15	50	25				
BTAE 407P	Mini Project -I : (Internship/Case Study)	-	-	4	2	-	-	-	-	-	25	25	50	25
BTAE 408T	Environmental Studies	3	-	-	-	College assessment in Grades as O,A,B,C (Evaluation mentioned in the Syllabus of concern subject)								
Total		20	2	10	24	-	385	165	550	-	100	100	200	-
Semester Total		32			24	Marks 750								

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Faculty of Engineering & Technology
Course and Examination Scheme of Bachelor of Technology-Aeronautical Engineering
V Semester B. Tech. (CBCS)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory					Practical			
		L	T	P		Duration of Paper (Hrs)	Max Marks University Assessment	Max Marks College Assessment	Total Marks	Min. Passing Marks	Max Marks University Assessment	Max Marks College Assessment	Total Marks	Min. Passing Marks
BTAE 501T	Propulsion- II	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 501P	Propulsion- II Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 502T	Aircraft System & Instrumentation	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 502P	Aircraft Systems & Instrumentation Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 503T	Aircraft Structure- II	3	1	-	4	03	70	30	100	45				
BTAE 503P	Aircraft Structure- II Lab	-	-	2	1	-	-	-			25	25	50	25
BTAE 504T(OE)	Open Elective-I	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 505T(E)	Elective-I	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 506T	Introduction to Aeromodelling	2	-	-	-	College assessment in Grades as O,A,B,C (Evaluation mentioned in the Syllabus of concerned subject)								
Total		17	1	6	19	-	350	150	500	-	75	75	150	-
Semester Total		24			19	Marks 650								

Open Elective-I		Elective-I	
Course Code	Course Name	Course Code	Course Name
BTAE 504T(OE) - 1	Intellectual Property Rights	BTAE 505T(E) -1	Heat and Mass Transfer
BTAE 504T(OE) - 2	Gender Sensitization	BTAE 505T(E) -2	Smart materials and Introduction to composites
BTAE 504T(OE) - 3	Organizational Behavior and Entrepreneurship Development	BTAE 505T(E) -3	Airworthiness and Certification
BTAE 504T(OE) - 4	Industrial Economics and Management	BTAE 505T(E) -4	Introduction to Helicopter Dynamics

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Course and Examination Scheme of Bachelor of Technology - Aeronautical Engineering
VI Semester B. Tech. (CBCS)

Subject Code	Subject	Teaching Scheme				Examination Scheme								
		Hours per week			No. of Credits	Theory					Practical			
		L	T	P		Duration of Paper (Hrs.)	Max Marks University Assessment	Max Marks College Assessment	Total Marks	Min. Passing Marks	Max Marks University Assessment	Max Marks College Assessment	Total Marks	Min. Passing Marks
BTAE 601T	Aircraft Design	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 601P	Aircraft Design Laboratory	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 602T	Space Technology	3	1	-	4	03	70	30	100	45	-	-	-	-
BTAE 603T	Open Elective-II	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 604T	Elective-II	3	-	-	3	03	70	30	100	45	-	-	-	-
BTAE 605P	Aero-design and Simulation Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 606P	Non Destructive Inspection Lab	-	-	2	1	-	-	-	-	-	25	25	50	25
BTAE 607T	Effective Technical Communication	2	-	-	2	02	35	15	50	25	-	-	-	-
BTAE 608P	Mini Project- II : {Internship/Case Study/ Seminar}	-	-	6	3	-	-	-	-	-	50	50	100	50
BTAE 609P	Sports/Yoga/ NSS/NCC			3	0	College assessment in Grades as O,A,B,C (Evaluation mentioned in the Syllabus of concern subject)								
Total		14	1	15	21		315	135	450		125	125	250	
Semester Total		30			21	Marks 700								

Open Elective-II		Elective-II	
Course Code	Course Name	Course Code	Course Name
BTAE 603T(OE)-1	Design of Machine Elements	BTAE604T(E)-1	Aircraft Mechanisms Analysis and Synthesis
BTAE 603T(OE)-2	Finance And Accounting	BTAE604T(E)-2	Flight Dynamics
BTAE 603T(OE)-3	Renewable Energy Sources	BTAE604T(E)-3	Principles of Combustion
BTAE 603T(OE)-4	Industrial Safety and Environment	BTAE604T(E)-4	Aerodynamic Design of Compressors and Turbine

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