

Rashtriya Mahatma Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology

Absorption Scheme of Bachelor of Technology

Choice Base Credit System (CBCS)

III Semester B. Tech. (Aeronautical Engineering)

S. N.	CODE	CBS Subject Name	NEW Subject Code	CBCS Subject Name
1.	BEAE 301T	Applied Mathematics - III	BTAE 301T	Applied Mathematics - III
2.	BEAE 302T	Aero - Thermodynamics	BTAE 302T	Aero - Thermodynamics
3.	BEAE 302P	Aero - Thermodynamics	BTAE 302P	Aero - Thermodynamics
4.	BEAE 303T	Fluid Mechanics & Machinery	BTAE 303T	Fluid Mechanics & Machinery
5.	BEAE 303P	Fluid Mechanics & Machinery	BTAE 303P	Fluid Mechanics & Machinery
6.	BEAE 304T	Computer Programming	-	-
7.	-	-	BTAE 304T	Avionics - I*
8.	BEAE 304P	Computer Programming	BTAE 305P	Computer Programming
9.	BEAE 305T	Elements of Aeronautics	BTAE 306T	Elements of Aeronautics
10.	-	-	BTAE 307T	Aerodynamics - I*
11.	-	-	BTAE 308T	Essence of Indian Traditional Knowledge*

The students who fail to clear any subject(s) of the III Semester Old Pattern by the last chance prescribed, shall be required to clear the respective equivalent subject of III Semester New CBCS Pattern) along with the additional subject marked with (*). The Theory and Practical College and University Assessment Marks of Old Pattern will be converted into the same proportion in New CBCS Pattern. The College Assessment Marks of the Additional Theory/Practical Subject marked with (*) will be taken in same proportion of the average College Assessment Marks in all the Theory/Practical subject of old pattern.

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Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology

Absorption Scheme of Bachelor of Technology

Choice Base Credit System (CBCS)

IV Semester B. Tech. (Aeronautical Engineering)

S. N.	CODE	CBS Subject Name	NEW Subject Code	CBCS Subject Name
1.	BEAE 401T	Mechanics of Machines	-	-
2.	BEAE 402T	Manufacturing Process - I	BTAE 401T	Manufacturing Process - I
3.	-	-	BTAE 401P	Manufacturing Process Lab.*
4.	BEAE 403T	Aircraft Materials	-	-
5.	BEAE 404T	Aircraft Structure - I	BTAE 402T	Aircraft Structure - I
6.	BEAE 404P	Aircraft Structure - I	BTAE 402P	Aircraft Structure - I
7.	BEAE 405T	Aerodynamics - I	-	-
8.	-	-	BTAE 403T	Aerodynamics - II*
9.	BEAE 405P	Aerodynamics - I	BTAE 403P	Aerodynamics Lab
10.	BEAE 406P	Aircraft Layout & Component Drawing	-	-
11.	-	-	BTAE 404T	Propulsion- I*
12.	-	-	BTAE 405T	Aircraft Flight Mechanics*
13.	-	-	BTAE 406T	Professional Ethics*
14.	-	-	BTAE 407P	Mini Project -I : (Internship/Case Study)*
15.	BEAE 407T	Environmental Studies	BTAE 408T	Environmental Studies

The students who fail to clear any subject(s) of the IV Semester Old Pattern by the last chance prescribed, shall be required to clear the respective equivalent subject of IV Semester (New CBCS Pattern) along with the additional subject marked with (*). The Theory and Practical College and University Assessment Marks of Old Pattern will be converted into the same proportion in New CBCS Pattern. The College Assessment Marks of the Additional Theory/Practical Subject marked with (*) will be taken in same proportion of the average College Assessment Marks in all the Theory/Practical subject of old pattern.

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Faculty of Engineering & Technology

Absorption Scheme of Bachelor of Technology

Choice Base Credit System (CBCS)

V Semester B. Tech. (Aeronautical Engineering)

S. N.	CODE	CBS Subject Name	NEW Subject Code	CBCS Subject Name
1.	BEAE 501T	Heat Transfer	BTAE 505T(E) - 1	Heat and Mass Transfer
2.	BEAE 502T	Aircraft Flight Mechanics	-	-
3.	BEAE 503T	Aerodynamics - II	-	-
4.	-	-	BTAE 501T	Propulsion - II *
5.	-	-	BTAE 501P	Propulsion - II Lab*
6.	-	-	BTAE 502T	Aircraft System & Instrumentation*
7.	-	-	BTAE 502P	Aircraft Systems & Instrumentation Lab*
8.	BEAE 504T	Aircraft Structure - II	BTAE 503T	Aircraft Structure - II
9.	BEAE 504P	Aircraft Structure - II	BTAE 503P	Aircraft Structure - II Lab
10.	BEAE 505T	Propulsion - I	-	-
11.	BEAE 506P	Non Destructive Inspection Lab	-	-
12.	BEAE 507P	CAD/CAM Lab	-	-
13.	-	-	BTAE 504T	Industrial Economics and Management*
14.	-	-	BTAE 505T(E) - 1	Heat and Mass Transfer
15.	-	-	BTAE 505T(E) - 2	Smart materials and Introduction to composites*
16.	-	-	BTAE 505T(E) - 3	Airworthiness and Certification*
17.	-	-	BTAE 505T(E) - 4	Introduction to Helicopter Dynamics*
18.	-	-	BTAE 506T	Introduction to Aeromodelling*

The students who fail to clear any subject(s) of the V Semester Old Pattern by the last chance prescribed, shall be required to clear the respective equivalent subject of V Semester (New CBCS Pattern) along with the additional subject marked with (*). The Theory and Practical College and University Assessment Marks of Old Pattern will be converted into the same proportion in New CBCS Pattern. The College Assessment Marks of the Additional Theory/Practical Subject marked with (*) will be taken in same proportion of the average College Assessment Marks in all the Theory/Practical subject of old pattern.

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Faculty of Engineering & Technology

Absorption Scheme of Bachelor of Technology

Choice Base Credit System (CBCS)

VI Semester B. Tech. (Aeronautical Engineering)

S. N.	CODE	CBS Subject Name	NEW Subject Code	CBCS Subject Name
1.	BEAE 601T	Propulsion - II	-	-
2.	BEAE 601P	Propulsion - II	-	-
3.	BEAE 602T	Manufacturing Process - II	-	-
4.	BEAE 603T	System Modeling and Simulation	-	-
5.	BEAE 604T	Applied Electronics	-	-
6.	BEAE 604P	Applied Electronics	-	-
7.	BEAE 605T	Aircraft Design	BTAE 601T	Aircraft Design
8.	-	-	BTAE 601P	Aircraft Design Laboratory*
9.	-	-	BTAE 602T	Space Technology*
10.	-	-	BTAE 603T(OE) - 1	Design of Machine Elements*
11.	-	-	BTAE 603T(OE) - 2	Finance And Accounting*
12.	-	-	BTAE 603T(OE) - 3	Renewable Energy Sources*
13.	-	-	BTAE 603T(OE) - 4	Industrial Safety and Environment*
14.	-	-	BTAE604T(E) - 1	Aircraft Mechanisms Analysis and Synthesis*
15.	-	-	BTAE604T(E) - 2	Flight Dynamics*
16.	-	-	BTAE604T(E) - 3	Principles of Combustion*
17.	-	-	BTAE604T(E) - 4	Aerodynamic Design of Compressors and Turbine*
18.	-	-	BTAE 605P	Aero-Design and Simulation Lab*
19.	-	-	BTAE 606P	Non Destructive Inspection Lab*
20.	BEAE 606T	Functional English	BTAE 607T	Effective Technical Communication
21.	BEAE 607P	Seminar	BTAE 608P	Mini Project - II : { Internship/Case Study/Seminar }
22.	-	-	BTAE 609P	Sports/Yoga/NSS/NCC*

The students who fail to clear any subject(s) of the VI Semester Old Pattern by the last chance prescribed, shall be required to clear the respective equivalent subject of VI Semester (New CBCS Pattern) along with the additional subject marked with (*). The Theory and Practical College and University Assessment Marks of Old Pattern will be converted into the same proportion in New CBCS Pattern. The College Assessment Marks of the Additional Theory/Practical Subject marked with (*) will be taken in same proportion of the average College Assessment Marks in all the Theory/Practical subject of old pattern.

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Absorption Scheme of Bachelor of Technology

Choice Base Credit System (CBCS)

VII Semester B. Tech. (Aeronautical Engineering)

S. N.	CODE	CBS Subject Name	NEW Subject Code	CBCS Subject Name
1.	BEAE 701T	Aircraft System & Instrumentation	-	-
2.	BEAE 702T	Design of Machine Elements	-	-
3.	BEAE 703T	Space Flight Mechanics	-	-
4.	BEAE 704T	Control Engineering	-	-
5.	BEAE 705T	Aircraft General Engineering & Maintenance Practices	-	-
6.	BEAE 706P	Aircraft Design Project	-	-
7.	BEAE 707P	Aircraft Systems Lab	-	-
8.	-	-	BTAE 701T	Air Transportation and Management*
9.	-	-	BTAE 702T(OE)-1	Open Elective - Introduction to multi-disciplinary design optimization*
10.	-	-	BTAE 702T(OE)-2	Open Elective -Relativity, Cosmology, and the Early Universe*
11.	-	-	BTAE 702T(OE)-3	Open Elective -MATLAB for Engineering Applications*
12.	-	-	BTAE 703T(E) -1	Reliability Centered Maintenance*
13.	-	-	BTAE 703T(E) -2	UAV Systems Design*
14.	-	-	BTAE 703T(E) -3	Theory of Vibrations *
15.	-	-	BTAE 704T(E) -1	Elective I - Avionics-II*
16.	-	-	BTAE 704T(E)-2	Elective II - Computational Fluid dynamics*
17.	-	-	BTAE 704T(E) -3	Elective III - Finite Element Method*
18.	-	-	BTAE 704T(E)-4	Elective IV- Aircraft Maintenance and Overhaul*
19.	-	-	BTAE 704P(E)	Elective III Laboratory*
20.	BEAE 708P	Project Work Phase- I	BTAE 705P	Project Work Phase- I
21.	-	-	BTAE 706T	Universal Human Values* {Audit}

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The students who fail to clear any subject(s) of the VII Semester Old Pattern by the last chance prescribed, shall be required to clear the respective equivalent subject of VII Semester (New CBCS Pattern) along with the additional subject marked with (*). The Theory and Practical College and University Assessment Marks of Old Pattern will be converted into the same proportion in New CBCS Pattern. The College Assessment Marks of the Additional Theory/Practical Subject marked with (*) will be taken in same proportion of the average College Assessment Marks in all the Theory/Practical subject of old pattern.

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Faculty of Engineering & Technology

Absorption Scheme of Bachelor of Technology

Choice Base Credit System (CBCS)

VIII Semester B. Tech. (Aeronautical Engineering)

S. N.	CODE	CBS Subject Name	NEW Subject Code	CBCS Subject Name
1.	BEAE 801T	Air Transportation	-	-
2.	BEAE 803T	Elective- I Theory of Elasticity	-	-
3.	BEAE 803T	Elective- I Optimization Techniques	-	-
4.	BEAE 803T	Elective- I Reliability Centered Maintenance	-	-
5.	BEAE 803T	Elective- I Aircraft Mechanisms- Analysis and Synthesis	-	-
6.	BEAE 804T	Elective- II Finite Element Method	-	-
7.	BEAE 804T	Elective- II Airframe Maintenance and Repair	-	-
8.	BEAE 804T	Elective- II Flight Dynamics	-	-
9.	BEAE 805T	Elective- III Fatigue and Fracture	-	-
10.	BEAE 805T	Elective- III Computational Fluid Dynamics	-	-
11.	-	-	BTAE 801T	Hypersonic Aerodynamics
12.	BEAE 805T	Elective- III Experimental Stress Analysis	BTAE 802T(E) - 1	Elective – V -Experimental Stress Analysis
13.	-	-	BTAE 802T (E) -2	Elective – V -Wind Tunnel techniques*
14.	-	-	BTAE 802T (E) -3	Elective–V-Introduction to Hybrid Propellant and Cryogenics*
15.			BTAE 802T(E) -4	Elective - V-Bio-Fluid Dynamics*
16.	BEAE 804T	Elective- II Aero- Engine Maintenance and Repair	BTAE 803T(E) - 1	Elective – VI - Aero Engine Maintenance
17.	BEAE 802T	Vibration & Aero elasticity	BTAE 803T(E) - 2	Elective – VI- Theory of Aero elasticity
18.	-	-	BTAE 803T(E) - 3	Elective – VI - Industrial Aerodynamics*
19.	-	-	BTAE 803T(E) - 4	Elective–IV-Aviation Logistics and Supply Chain Management*
20.	BEAE 806P	Project Work Phase- II	BTAE 804P	Project Work Phase- II

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The students who fail to clear any subject(s) of the VIII Semester Old Pattern by the last chance prescribed, shall be required to clear the respective equivalent subject of VIII Semester (New CBCS Pattern) along with the additional subject marked with (*). The Theory and Practical College and University Assessment Marks of Old Pattern will be converted into the same proportion in New CBCS Pattern. The College Assessment Marks of the Additional Theory/Practical Subject marked with (*) will be taken in same proportion of the average College Assessment Marks in all the Theory/Practical subject of old pattern.

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