

**CURRICULUM**

**OF**

**B. TECH., B. TECH. WITH HONORS,  
B. TECH. + M. TECH. DUAL DEGREE  
AND MINOR PROGRAMS**

**IN**

**AEROSPACE ENGINEERING,  
IIT BOMBAY**

**FOR**

**BATCHES OF 2023 AND ONWARDS**

**(Updated 24<sup>th</sup> July, 2023)**

## **Preamble**

The B. Tech. programme of the department of aerospace engineering aims to provide generic engineering training, along with some specialism pertinent to aerospace engineering at the undergraduate level. The B. Tech. + M. Tech. Dual Degree programme provides additional higher level training at the Masters level. The programmes are designed to achieve the above stated objectives, through a set of generic (or common) courses in basic sciences and general engineering, specific core courses in aerospace sciences and a basket of elective courses to provide next level of training for highly motivated and committed B. Tech. and Dual Degree students. In addition, emphasis is laid on the HASMED component comprising of compulsory as well as optional courses from the disciplines of Humanities, Arts, Social Sciences, Management, Entrepreneurship and Design. The programme also has sufficient flexibility for students to explore various disciplines as per individual interests and requirements.

As of now, only the first-year curriculum has been finalized, and it is being presented below. The curriculum for subsequent years, as well as all the description regarding them, will be published once they are finalized.

**Table I – Semester-wise Schedule of Courses - B. Tech., Honors, Minor and Dual Degree Programmes in Aerospace Engineering**

<b>AEROSPACE ENGINEERING</b>											
<b>Table I – Course Curriculum for B. Tech., Honors, Minor and Dual Degree Programmes</b>											
<b>Semester I</b>						<b>Semester II</b>					
Course Code	Course Name	Credit Structure				Course Code	Course Name	Credit Structure			
		L	T	P	C			L	T	P	C
AE 103	A Historical Perspective of Aerospace Engineering	3	0	0	6	AE 152	Introduction to Aerospace Engineering	3	0	0	6
CS 101	Computer Programming and Utilization*				6	BB 101	Biology*				6
MA 105	Calculus				8	MA 110	Linear Algebra and Differential Eqns.				8
HSS/IDC/ENT	Introduction to HASMED*				8	MS 101	Makerspace*				8
PH 117	Physics Lab*				3	CH 117	Chemistry Lab*				3
NC 101/ NO 101/ NS 101	National Cadet Corps (NCC)/ National Sports Organization (NSO)/ National Service Scheme (NSS)				P/NP	NC 102/ NO 102/ NS 102	National Cadet Corps (NCC)/ National Sports Organization (NSO)/ National Service Scheme (NSS)				P/NP
GC 101	Gender Sensitization				P/NP						
	<b>Total</b>				<b>31</b>		<b>Total</b>				<b>31</b>

\*These courses may be interchanged between the two semesters due to operational reasons and the actual distribution will depend upon the timetable and the division allotted. The above distribution is indicative and the online registration system will show the actual distribution for each batch.

## Document History

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