

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangam, Machhe, Belagavi-590018



Scheme of Teaching and Examinations 2025

Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS)
(Effective from the academic year 2025-26)

**B.E. in Aerospace Engineering,
Scheme of Teaching and Examinations 2025**

Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2025-26)

III SEMESTER															
Sl. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)		Teaching & Learning Scheme					Examination				Credits
						CI		LI	TW & SL	# T H / S	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	ASC	1BMAT301	Transforms and Statistics	TD /PSB: Mathematics / Mathematics		42	28	0	50	120	3	50	50	100	4
2	IPCC	1BAS302 / 1BAE302	Aerospace Materials	TD/PSB: AS/AS		42	0	28	50	120	3	50	50	100	4
3	PCC	1BAS303 / 1BAE303	Mechanics of Materials	TD/PSB: AS/AS		42	28	0	50	120	3	50	50	100	4
4	PCC	1BAS304 / 1BAE304	Fluid Mechanics	TD/PSB: AS/AS		42	0	0	48	90	3	50	50	100	3
5	PCC	1BAS305	Mechanisms and Machine Theory	TD/PSB: AS/AS		42	0	0	48	90	3	50	50	100	3
6	PCCL	1BASL306 / 1BAEL306	Computer Aided Aircraft Drawing	TD/PSB: AS/AS		0	0	28	2	30	2	50	50	100	1
7	AEC	1BASL307x / 1BAEL307x	Ability Enhancement Course Laboratory	TD/PSB: AS/CSE/ ECE / AS/CSE/ ECE		0	0	28	2	30	2	50	50	100	1
8	SDC	1BCP308	Community Project (Project-Based Learning) / Societal Project	Respective Engineering Dept.		0	0	0	30	30	2	50	50	100	1
9	NCMC	1BNSS309	National Service Scheme (NSS)	Campus	NSS coordinator	0	0	0	28	28	--	100	---	100	PP
		1BPE309	Physical Education (PE) (Sports and Athletics)		Physical Education Director										
		1BYOG309	Yoga		Yoga Teacher										
		1BMUK309	Music		Music Teacher										
Total												500	400	900	21
10	NCMC	1BMATDIP310	Additional Mathematics-I	TD/PSB –Mathematics / Online		42	0	0	0	42	3	100	---	100	PP
Total										700		600	400	1000	21

TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning

V6/HB/KM/Dean/ Overview of Courses, Credits, Projects, and Internships under VTU Curriculum-Details are listed on page number 11(onwards)

Ability Enhancement Course (Laboratory) 1BASL307x			
1BASL307A / 1BAEL307A	Web Designing and App Development	1BASL307C / 1BAEL307C	Drone Development and Operations
1BASL307B / 1BAEL307B	Experimental Fluid Mechanics	1BASL307D / 1BAEL307D	Spreadsheet for Engineers with VBA Basics

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Scheme of Teaching and Examinations-2025**

Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2025-26)

IV SEMESTER															
Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)		Teaching & Learning Scheme					Examination				Credits
						CI		LI	# TW & SL	TH / S	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	ASC	1BAS401	Complex Analysis and Probability Distributions	TD/PSB: Mathematics / Mathematics		42	0	0	48	90	3	50	50	100	3
2	IPCC	1BAS402	Engineering Thermodynamics	TD/PSB: AS/AS		42	0	28	50	120	3	50	50	100	4
3	PCC	1BAS403	Aerodynamics	TD/PSB: AS/AS		42	28	0	50	120	3	50	50	100	4
4	PCC	1BAS404	Space Mechanics	TD/PSB: AS/AS		42	0	0	48	90	3	50	50	100	3
5	PCCL	1BASL405	Aerodynamics Lab	TD/PSB: AS/AS		0	0	28	02	30	2	50	50	100	1
6	AEC	1BASL406x	Ability Enhancement Course Laboratory	TD/PSB: AS/CSE/EC /AS / CSE/ EC		0	0	28	02	30	2	50	50	100	1
7	BSC	1BAS407	Biology for Engineers	TD/PSB: AS / AS		42	0	0	48	90	3	50	50	100	2
8	SDC	1BEP408	Environmental Science Project	TD / PSB: Basic Science/ Basic Science		0	0	0	30	30	3	50	50	100	1
9	PCC	1BAS409	Manufacturing Techniques	TD/PSB: AS/AS		42	0	0	48	90	3	50	50	100	3
10	NCMC	1BNSK409	National Service Scheme (NSS)	Campus	NSS coordinator	0	0	0	28	28	--	100	---	100	PP
		1BPEK409	Physical Education (PE) (Sports and Athletics)		Physical Education Director										
		1BYOK409	Yoga		Yoga Teacher										
		1BMUS409	Music		Music Teacher										
Total												550	450	1000	22
11	NCMC	1BMATDIP4 10	Additional Mathematics-II	TD/PSB -Mathematics / Mathematics		42	0	0	0	42	--	100	--	100	PP
Total										760		650	450	1100	22
	Ability Enhancement Course (Laboratory) 1BASL406x														
1BASL406A/ 1BAEL406A		GenAI Enabled Python Programming			1BASL406C/ 1BAEL406C		Measurements and Instrumentation								
1BASL406B/ 1BAEL406B		VR and AR in Aerospace Engineering			1BASL406D/ 1BAEL406D		Smart Manufacturing and Robotics								

	# TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning.