

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 Aeronautical 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	# TH /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	1BAE302 / 1BAS302	Aerospace Materials	TD/PSB: AE/AE	42	0	28	50	120	3	50	50	100	4	
3	PCC	1BAE303 / 1BAS303	Mechanics of Materials	TD/PSB: AE/AE	2	28	0	50	120	3	50	50	100	4	
4	PCC	1BAE304 / 1BAS304	Fluid Mechanics	TD/PSB: AE/AE	42	0	0	48	90	3	50	50	100	3	
5	PCC	1BAE305	Introduction to UAV Systems and Technologies	TD/PSB: AE/AE	42	0	0	48	90	3	50	50	100	3	
6	PCCL	1BAEL306 / 1BASL306	Computer-Aided Aircraft Drawing	TD/PSB: AE/AE	0	0	28	2	30	2	50	50	100	1	
7	AEC	1BAEL307x / 1BASL307x	Ability Enhancement Course Laboratory	TD/PSB: AE/CSE/EC /AE / CSE/ EC	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 / Mathematics	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

Ability Enhancement Course (Laboratory) 1BAEL307x			
1BAEL307A / 1BASL307A	Web Designing and App Development	1BAEL307C / 1BASL307C	Drone Development and Operations
1BAEL307B / 1BASL307B	Experimental Fluid Mechanics	1BAEL307D / 1BASL307D	Spreadsheet for Engineers with VBA Basics

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

IV 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	
						L	T	P	SL						
1	ASC	1BAE401 / 1BAS401	Complex Analysis and Probability Distributions	TD/PSB: Mathematics / Mathematics		42	0	0	48	90	3	50	50	100	3
2	IPCC	1BAE402	Engineering Thermodynamics	TD/PSB: AE/AE		42	0	28	50	120	3	50	50	100	4
3	PCC	1BAE403	Aerodynamics	TD/PSB: AE/AE		42	28	0	50	120	3	50	50	100	4
4	PCC	1BAE404	Manufacturing Techniques	TD/PSB: AE/AE		42	0	0	48	90	3	50	50	100	3
5	PCCL	1BAEL405	Aerodynamics Lab	TD/PSB: AE/AE		0	0	28	02	30	2	50	50	100	1
6	AEC	1BAEL406x	Ability Enhancement Course Laboratory	TD/PSB: AE/AE		0	0	28	02	30	2	50	50	100	1
7	BSC	1BAE407	Biology for Engineers	TD/PSB: AE/AE		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	1BAE409	Mechanisms and Machine Theory	TD/PSB: AE/AE		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	1BMATDIP410	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) 1BAEL406x														
1BAEL406A		GenAI Enabled Python Programming			1BAEL406C		Measurements and Instrumentation								
1BAEL406B		VR and AR in Aerospace Engineering			1BAEL406D		Smart Manufacturing and Robotics								

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