

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 Biomedical 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
						L	T	P	SL						
1	ASC/PCC	1BBM301	Transform Techniques and Fourier Series	TD /PSB: Mathematics / Specific department		42	28	0	50	120	3	50	50	100	4
2	IPCC	1BBM302	Digital Design and HDL	TD/PSB: ECE/ECE		42	0	28	50	120	3	50	50	100	4
3	PCC	1BBM303	Analog Electronic Circuits	TD/PSB: ECE/ECE		42	28	0	50	120	3	50	50	100	4
4	PCC	1BBM304	Anatomy and Physiology	TD/PSB:BM/ BM		42	0	0	48	90	3	50	50	100	3
5	PCC	1BBM305	Instrumentation, Measurements and Biomedical Transducers	TD/PSB: BM/BM		42	0	0	48	90	3	50	50	100	3
6	PCCL	1BBML306	Analog Electronic Circuits Lab	TD/PSB:ECE/ECE		0	0	28	2	30	2	50	50	100	1
7	AEC	1BBML307	Instrumentation, Measurements and Biomedical Transducers Lab	TD/PSB: BM/BM		0	0	28	2	30	2	50	50	100	1
8	SDC	1BCP308	Community Project (Project-Based Learning)	Any Department/ 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	Mathematics course for Lateral Entry Students	TD/PSB -Maths Dept		14	0	0	14	28	3	100	---	100	PP

B.E. in Biomedical Engineering 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
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Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question 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	PCC	1BBM401	Data Acquisition Circuits	TD/PSB: ECE,/ECE		42	0	0	48	90	3	50	50	100	3
2	IPCC	1BBM402	Data Structures and Algorithms	TD/PSB: CS/CS		42	0	28	50	120	3	50	50	100	4
3	PCC	1BBM403	Biomechanics	TD/PSB: BM/BM		42	28	0	50	120	3	50	50	100	4
4	PCC	1BBM404	Embedded Controllers	TD/PSB: ECE/ECE		42	0	0	48	90	3	50	50	100	3
5	PCCL	1BBML405	Data Acquisition Circuits Lab	TD/PSB: ECE/ECE		0	0	28	02	30	2	50	50	100	1
6	AEC	1BBML406	Embedded Controllers Lab	TD/PSB: ECE/ECE		0	0	28	02	30	2	50	50	100	1
7	BSC	1BBM407	Programme Specific Biology	TD / PSB: BM/BM		28	0	0	32	60	3	50	50	100	2
8	SDC	1BEP408	Environmental Science Project	TD/PSB		0	0	0	30	30	3	50	50	100	1
9	PCC/PEC	1Bxx409	Control Systems Engineering	TD/PSB: BM/BM		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										598		550	450	1000	22
11	NCMC	1BMATDIP410	Mathematics course for Lateral Entry Students	TD/PSB -Maths Dept		14	0	0	14	28	--	100	--	100	PP
Total										626		650	450	1100	22
	Ability Enhancement Course (Laboratory) 1BxxL406x														
1BxxL406A					1BxxL406C										

1BxxL406B		1BxxL406D	
	# TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning, ** The course 1BXXL406x – Ability Enhancement Course Laboratory can be offered either as a single compulsory course. Alternatively, the Ability Enhancement Course Laboratory course can be offered with multiple elective options under the course codes 1BXXL406x (where $x = A, B, C, D$). Note to Chairpersons: If only one course is selected, the title of the course may please be entered at serial number 6 of the Scheme of Teaching and Examinations and the above table along with this row shall be deleted. In case, multiple courses are selected the above table shall be filled with the course titles and this row shall be deleted.		

