




ESTD : 1946

The National Institute of Engineering
Scheme of Teaching & Examinations - 2025
Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS)
(Effective from the AY 2025-26)

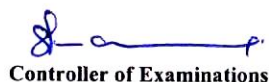
I Semester					(Physics Cycle)								
Sl.No	Course	Course Code	Course Title	Teaching Department	Teaching Hrs/Week				Credits	Examination			
					L	T	P	SAAE		Duration in Hrs	CIE	SEE	Total
1	ASC	1BMAxx101	Applied Mathematics - I (Stream Specific)	Maths	3	2	0	0	4	3	50	50	100
2	ASC	1BPHxx102	Applied Physics (Stream Specific)	Physics	2	2	0	0	3	3	50	50	100
3	ESC	1BCEDxx103	Computer-Aided Engineering Drawing (Stream Specific)	Mechanical	2	0	2	0	3	3	50	50	100
4	ESC	1BESC104x	Engineering Science Course - I	Respective Engg.Dept	3	0	0	0	3	3	50	50	100
5	PSC	1Bxxx105	Programme Specific Course	Respective Engg.Dept	2	2	0	0	3	3	50	50	100
					OR								
					3	0	0	0	3	3	50	50	100
	PLC	1BPLC105x	Programming Language Course	Any Dept.	3	0	0	0	3	3	50	50	100
6	AEC (NCMC)	1Bxxx106	Soft Skills	Humanities	0	0	0	2	0	0	50	0	50
7	PSC	1BxxxL107	Program Specific Course Laboratory	Respective Engg Dept	0	0	2	0	1	2	50	50	100
	OR												
	PLC	1BPLCL105x	Programming Language Course Laboratory	Any Dept.	0	0	2	0	1	2	50	50	100
8	ASC	1BPHxxL102	Applied Physics Laboratory (Stream Specific)	Physics	0	0	2	0	1	2	50	50	100
9	AEC/SDC	1BPRJ158	Interdisciplinary Project-Based Learning	Respective Engg Dept	0	0	0	2	1	0	50	0	50
10	HSMS	1BKSK109(BKSK107)/ 1BKBK109(BKKBK107)	Sanskritika Kannada / Balake Kannada	Humanities	1	0	0	0	1	0	50	0	50
TOTAL									20				

AICTE Activity Points (students have to earn 100 activity points between 01 to 08 semester)

Compulsory requirement for the award of a degree


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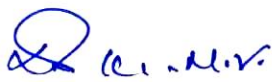
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Scheme of Teaching & Examinations - 2025
Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS)
(Effective from the AY 2025-26)

I Semester					(Chemistry Cycle)								
Sl.No	Course	Course Code	Course Title	Teaching Department	Teaching Hrs/Week				Credits	Examination			
					L	T	P	SAAE		Duration in Hrs	CIE	SEE	Total
1	ASC	1BMAxx101	Applied Mathematics - I (Stream Specific)	Maths	3	2	0	0	4	3	50	50	100
2	ASC	1BCHxx102	Applied Chemistry (Stream Specific)	Chemistry	2	2	0	0	3	3	50	50	100
3	ETC	1BAIA103/ BETC105x	Introduction to AI and Applications	Any Dept.	3	0	0	0	3	3	50	50	100
4	ESC	1BESC104x	Engineering Science Course -I	Respective Engg.Dept	3	0	0	0	3	3	50	50	100
5	PSC	1Bxxx105	Programme Specific Course	Respective Engg.Dept	2	2	0	0	3	3	50	50	100
					OR								
					3	0	0	0	3	3	50	50	100
	PLC	1BPLC105x	Programming Language Course	Any Dept.	3	0	0	0	3	3	50	50	100
6	AEC	1BENGL106	Communication Skills	Humanities	1	0	0	0	1	0	50	0	50
7	PSC	1BxxxL107	Program Specific Course Laboratory	Respective Engg Dept	0	0	2	0	1	2	50	50	100
	OR												
	PLC	1BPLCL105x	Programming Language Course Laboratory	Any Dept.	0	0	2	0	1	2	50	50	100
8	ASC	1BCHxxL102	Applied Chemistry Laboratory (Stream Specific)	Chemistry	0	0	2	0	1	2	50	50	100
9	AEC/SDC	1BIDTL158	Innovation and Design Thinking Lab	Respective Engg Dept	0	0	2	0	1	0	50	0	50
10	AEC (NMC)	1BICO107	Indian Constitution & Engineering Ethics	Humanities	0	0	0	2	0	0	50	0	50
TOTAL									20				

AICTE Activity Points (students have to earn 100 activity points between 01 to 08 semester)

Compulsory requirement for the award of a degree



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Applied Mathematics - I (Stream Specific)					Applied Mathematics - II (Stream Specific)				
Code	Title	L	T	P	Code	Title	L	T	P
1BMACV101	Applied Mathematics - I for Civil Engineering	3	2	0	1BMACV201	Applied Mathematics - II for Civil Engineering	3	2	0
1BMAME101	Applied Mathematics - I for Mechanical Engineering	3	2	0	1BMAME201	Applied Mathematics - II for Mechanical Engineering	3	2	0
1BMAEC101	Applied Mathematics - I for Electronics & Communication Engineering	3	2	0	1BMAEC201	Applied Mathematics - II for Electronics & Communication Engineering	3	2	0
1BMAEE101	Applied Mathematics - I for Electrical & Electronics Engineering	3	2	0	1BMAEE201	Applied Mathematics - II for Electrical & Electronics Engineering	3	2	0
1BMACS101	Applied Mathematics - I for Computer Science & Engineering Stream	3	2	0	1BMACS201	Applied Mathematics - II for Computer Science & Engineering Stream	3	2	0
Applied Physics (Stream Specific)					Applied Chemistry (Stream Specific)				
Code	Title	L	T	P	Code	Title	L	T	P
1BPHCV102/ 202	Applied Physics for Civil Engineering	2	2	0	1BCHCV102/ 202	Applied Chemistry for Civil Engineering	2	2	0
1BPHME102/ 202	Applied Physics for Mechanical Engineering	2	2	0	1BCHME102/ 202	Applied Chemistry for Mechanical Engineering	2	2	0
1BPHEC102/ 202	Applied Physics for Electronics & Communication Engineering	2	2	0	1BCHCE102/ 202	Applied Chemistry for Electronics & Communication Engineering	2	2	0
1BPHEE102/ 202	Applied Physics for Electrical & Electronics Engineering	2	2	0	1BCHEE102/ 202	Applied Chemistry for Electrical & Electronics Engineering	2	2	0
1BPHCS102/ 202	Applied Physics for Computer Science & Engineering Stream	2	2	0	1BCHCS102/ 202	Applied Chemistry for Computer Science & Engineering Stream	2	2	0
Engineering Science Course - I (ESC - I)					Engineering Science Course - II (ESC - II)				
Code	Title	L	T	P	Code	Title	L	T	P
1BESC104A	Building Sciences & Mechanics	3	0	0	1BESC204A	Building Sciences & Mechanics	3	0	0
1BESC104B	Introduction to Electrical Engineering	3	0	0	1BESC204B	Introduction to Electrical Engineering	3	0	0
1BESC104C	Introduction to Electronics & Communication Engineering	3	0	0	1BESC204C	Introduction to Electronics & Communication Engineering	3	0	0
1BESC104D	Introduction to Mechanical Engineering	3	0	0	1BESC204D	Introduction to Mechanical Engineering	3	0	0
1BESC104E	Essentials of Information Technology	3	0	0	1BESC204E	Essentials of Information Technology	3	0	0
Programming Language Courses (PLC)					Programming Language Courses (PLC)				
Code	Title	L	T	P	Code	Title	L	T	P
1BPLC105E	Introduction to C (For non IT programmes)	3	0	0	1BPLC205E	Introduction to C (For non IT programmes)	3	0	0
1BPLC105B	Python Programming (for CSE and allied programmes)	3	0	0	1BPLC205B	Python Programming (for CSE and allied programmes)	3	0	0
Programming Language Courses Laboratory (PLCL)					Programming Language Courses Laboratory (PLCL)				
Code	Title	L	T	P	Code	Title	L	T	P
1BPLCL105E	Introduction to C Laboratory (For non IT programmes)	0	0	2	1BPLCL205E	Introduction to C Laboratory (For non IT programmes)	0	0	2
1BPLCL105B	Python Programming Laboratory (for CSE and allied programmes)	0	0	2	1BPLCL205B	Python Programming Laboratory (for CSE and allied programmes)	0	0	2

Programme Specific Courses (PSC)					Programme Specific Courses (PSC)				
1BCIV105	Engineering Mechanics	3	0	0	1BCIV205	Engineering Mechanics	3	0	0
1BEME105	Elements of Mechanical Engineering	3	0	0	1BEME205	Elements of Mechanical Engineering	3	0	0
1BBEE105	Basics of Electrical Engineering	2	2	0	1BBEE205	Basics of Electrical Engineering	2	2	0
1BECE105	Fundamentals of Electronics & Communication Engineering	2	2	0	1BECE205	Fundamentals of Electronics & Communication Engineering	2	2	0
1BEIT105	Programming in C	3	0	0	1BEIT205	Programming in C	3	0	0
Program-Specific Course Lab (PSCL)					Program-Specific Course Lab (PSCL)				
1BMEML107	Mechanics and Materials Lab	0	0	2	1BMEML207	Mechanics and Materials Lab	0	0	2
1BEMEL107	Elements of Mechanical Engineering Lab	0	0	2	1BEMEL207	Elements of Mechanical Engineering Lab	0	0	2
1BBEEL107	Basic Electrical Lab	0	0	2	1BBEEL207	Basic Electrical Lab	0	0	2
1BECEL107	Fundamentals of Electronics & Communication Engineering Lab	0	0	2	1BECEL207	Fundamentals of Electronics & Communication Engineering Lab	0	0	2
1BPOPL107	C Programming Lab	0	0	2	1BPOPL207	C Programming Lab	0	0	2
Computer-Aided Engineering Drawing					Computer-Aided Engineering Drawing				
1BCEDCV103	Computer-Aided Engineering Drawing for CV	2	0	2	1BCEDCV203	Computer-Aided Engineering Drawing for CV	2	0	2
1BCEDME103	Computer-Aided Engineering Drawing for ME	2	0	2	1BCEDME203	Computer-Aided Engineering Drawing for ME	2	0	2
1BCEDCE103	Computer-Aided Engineering Drawing for ECE	2	0	2	1BCEDCE203	Computer-Aided Engineering Drawing for ECE	2	0	2
1BCEDDE103	Computer-Aided Engineering Drawing for EEE	2	0	2	1BCEDDE203	Computer-Aided Engineering Drawing for EEE	2	0	2
1BCEDCS103	Computer-Aided Engineering Drawing for CSE stream	2	0	2	1BCEDCS203	Computer-Aided Engineering Drawing for CSE stream	2	0	2

AICTE Activity Points Requirement for BE/B.Tech. Programmes

As per AICTE guidelines (refer Chapter 6 – AICTE Activity Point Program, Model Internship Guidelines), in addition to academic requirements, students must earn a specified number of **Activity Points** to be eligible for the award of the degree. The points to be earned is:

1. **Regular students** admitted to a 4-year degree program must earn **100 Activity Points**.
2. **Lateral entry students** (joining from the second year) must earn **75 Activity Points**.
3. **Students transferred** from other universities directly into the fifth semester must earn **50 Activity Points** from the date of entry into VTU.

These Activity Points are **non-credit** and will not be considered for the **SGPA/CGPA** or be used for **vertical progression**. However, earning Activity Points is mandatory for the **award of the degree**, and the points earned will be reflected on the **eighth semester Grade Card**.

If a student completes all the semesters (eight or six) at the end of the programme but fails to earn the required Activity Points, the eighth-semester Grade Card will be withheld until the requirement is fulfilled. Also, the degree will be awarded only after the Grade Card has been released.

The hours spent earning the activity points will not be counted for regular attendance requirements. Students can accumulate these points at any time during their program period, including weekends, holidays, and vacations, starting from the year of admission, provided they meet the minimum hours of engagement prescribed for each activity by AICTE.


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Dean (Academic Affairs)
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II Semester (For the students who have studied the Physics Cycle in I semester)													
Sl.No	Course	Course Code	Course Title	Teaching Department	Teaching Hrs/Week				Credits	Examination			
					L	T	P	SAAE		Duration in Hrs	CIE	SEE	Total
1	ASC	1BMAxx201	Applied Mathematics - II (Stream Specific)	Maths	3	2	0	0	4	3	50	50	100
2	ASC	1BCHxx202	Applied Chemistry (Stream Specific)	Chemistry	2	2	0	0	3	3	50	50	100
3	ETC	1BAIA203/ BETC205x	Introduction to AI and Applications	Any Dept.	3	0	0	0	3	3	50	50	100
4	ESC	1BESC204x	Engineering Science Course - I	Respective Engg.Dept	3	0	0	0	3	3	50	50	100
5	PSC	1Bxxx205	Programme Specific Course	Respective Engg.Dept	2	2	0	0	3	3	50	50	100
					OR								
					3	0	0	0	3	3	50	50	100
	OR												
	PLC	1BPLC205x	Programming Language Course	Any Dept.	3	0	0	0	3	3	50	50	100
6	AEC	1BENGL206	Communication Skills	Humanities	1	0	0	0	1	0	50	0	50
7	PSC	1BxxxL207	Program Specific Course Laboratory	Respective Engg Dept	0	0	2	0	1	2	50	50	100
	OR												
	PLC	1BPLCL205x	Programming Language Course Laboratory	Any Dept.	0	0	2	0	1	2	50	50	100
8	ASC	1BCHxxL202	Applied Chemistry Laboratory (Stream Specific)	Chemistry	0	0	2	0	1	2	50	50	100
9	AEC/SDC	1BIDTL258	Innovation and Design Thinking Lab	Respective Engg Dept	0	0	2	0	1	0	50	0	50
10	AEC (NCMC)	1BICO207	Indian Constitution & Engineering Ethics	Humanities	0	0	0	2	0	0	50	0	50
TOTAL									20				


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II Semester (For the students who have studied the Chemistry Cycle in I semester)

Sl.No	Course	Course Code	Course Title	Teaching Department	Teaching Hrs/Week				Credits	Examination			
					L	T	P	SAAE		Duration in Hrs	CIE	SEE	Total
1	ASC	1BMAxx201	Applied Mathematics - II (Stream Specific)	Maths	3	2	0	0	4	3	50	50	100
2	ASC	1BPHxx202	Applied Physics (Stream Specific)	Physics	2	2	0	0	3	3	50	50	100
3	ESC	1BCEDxx203	Computer-Aided Engineering Drawing (Stream Specific)	Mechanical	2	0	2	0	3	3	50	50	100
4	ESC	1BESC204x	Engineering Science Course - II	Respective Engg.Dept	3	0	0	0	3	3	50	50	100
5	PSC	1Bxxx205	Programme Specific Course	Respective Engg.Dept	2	2	0	0	3	3	50	50	100
					OR								
					3	0	0	0	3	3	50	50	100
	PLC	1BPLC205x	Programming Language Course	Any Dept.	3	0	0	0	3	3	50	50	100
6	AEC (NCMC)	1Bxxx206	Soft Skills	Humanities	0	0	0	2	0	0	50	0	50
7	PSC	1BxxxL207	Program Specific Course Laboratory	Respective Engg Dept	0	0	2	0	1	2	50	50	100
	PLC	1BPLCL205x	Programming Language Course Laboratory	Any Dept.	0	0	2	0	1	2	50	50	100
8	ASC	1BPHxxL202	Applied Physics Laboratory (Stream Specific)	Physics	0	0	2	0	1	2	50	50	100
9	AEC/SDC	1BPRJ258	Interdisciplinary Project-Based Learning	Respective Engg Dept	0	0	0	2	1	0	50	0	50
10	HSMS	1BKSK209(BKSK207)/ 1BKBK209(BKKBK207)	Sanskritika Kannada / Balake Kannada	Humanities	1	0	0	0	1	0	50	0	50
TOTAL									20				

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Applied Mathematics - I (Stream Specific)					Applied Mathematics - II (Stream Specific)				
Code	Title	L	T	P	Code	Title	L	T	P
1BMACV101	Applied Mathematics - I for Civil Engineering	3	2	0	1BMACV201	Applied Mathematics - II for Civil Engineering	3	2	0
1BMAME101	Applied Mathematics - I for Mechanical Engineering	3	2	0	1BMAME201	Applied Mathematics - II for Mechanical Engineering	3	2	0
1BMAEC101	Applied Mathematics - I for Electronics & Communication Engineering	3	2	0	1BMAEC201	Applied Mathematics - II for Electronics & Communication Engineering	3	2	0
1BMAEE101	Applied Mathematics - I for Electrical & Electronics Engineering	3	2	0	1BMAEE201	Applied Mathematics - II for Electrical & Electronics Engineering	3	2	0
1BMACS101	Applied Mathematics - I for Computer Science & Engineering Stream	3	2	0	1BMACS201	Applied Mathematics - II for Computer Science & Engineering Stream	3	2	0
Applied Physics (Stream Specific)					Applied Chemistry (Stream Specific)				
Code	Title	L	T	P	Code	Title	L	T	P
1BPHCV102/ 202	Applied Physics for Civil Engineering	2	2	0	1BCHCV102/ 202	Applied Chemistry for Civil Engineering	2	2	0
1BPHME102/ 202	Applied Physics for Mechanical Engineering	2	2	0	1BCHME102/ 202	Applied Chemistry for Mechanical Engineering	2	2	0
1BPHEC102/ 202	Applied Physics for Electronics & Communication Engineering	2	2	0	1BCHCE102/ 202	Applied Chemistry for Electronics & Communication Engineering	2	2	0
1BPHEE102/ 202	Applied Physics for Electrical & Electronics Engineering	2	2	0	1BCHEE102/ 202	Applied Chemistry for Electrical & Electronics Engineering	2	2	0
1BPHCS102/ 202	Applied Physics for Computer Science & Engineering Stream	2	2	0	1BCHCS102/ 202	Applied Chemistry for Computer Science & Engineering Stream	2	2	0
Engineering Science Course - I (ESC - I)					Engineering Science Course - II (ESC - II)				
Code	Title	L	T	P	Code	Title	L	T	P
1BESC104A	Building Sciences & Mechanics	3	0	0	1BESC204A	Building Sciences & Mechanics	3	0	0
1BESC104B	Introduction to Electrical Engineering	3	0	0	1BESC204B	Introduction to Electrical Engineering	3	0	0
1BESC104C	Introduction to Electronics & Communication Engineering	3	0	0	1BESC204C	Introduction to Electronics & Communication Engineering	3	0	0
1BESC104D	Introduction to Mechanical Engineering	3	0	0	1BESC204D	Introduction to Mechanical Engineering	3	0	0
1BESC104E	Essentials of Information Technology	3	0	0	1BESC204E	Essentials of Information Technology	3	0	0
Programming Language Courses (PLC)					Programming Language Courses (PLC)				
Code	Title	L	T	P	Code	Title	L	T	P
1BPLC105E	Introduction to C (For non IT programmes)	3	0	0	1BPLC205E	Introduction to C (For non IT programmes)	3	0	0
1BPLC105B	Python Programming (for CSE and allied programmes)	3	0	0	1BPLC205B	Python Programming (for CSE and allied programmes)	3	0	0
Programming Language Courses Laboratory (PLCL)					Programming Language Courses Laboratory (PLCL)				
Code	Title	L	T	P	Code	Title	L	T	P
1BPLCL105E	Introduction to C Laboratory (For non IT programmes)	0	0	2	1BPLCL205E	Introduction to C Laboratory (For non IT programmes)	0	0	2
1BPLCL105B	Python Programming Laboratory (for CSE and allied programmes)	0	0	2	1BPLCL205B	Python Programming Laboratory (for CSE and allied programmes)	0	0	2

Programme Specific Courses (PSC)					Programme Specific Courses (PSC)				
1BCIV105	Engineering Mechanics	3	0	0	1BCIV205	Engineering Mechanics	3	0	0
1BEME105	Elements of Mechanical Engineering	3	0	0	1BEME205	Elements of Mechanical Engineering	3	0	0
1BBEE105	Basics of Electrical Engineering	2	2	0	1BBEE205	Basics of Electrical Engineering	2	2	0
1BECE105	Fundamentals of Electronics & Communication Engineering	2	2	0	1BECE205	Fundamentals of Electronics & Communication Engineering	2	2	0
1BEIT105	Programming in C	3	0	0	1BEIT205	Programming in C	3	0	0
Program-Specific Course Lab (PSCL)					Program-Specific Course Lab (PSCL)				
1BMEML107	Mechanics and Materials Lab	0	0	2	1BMEML207	Mechanics and Materials Lab	0	0	2
1BEMEL107	Elements of Mechanical Engineering Lab	0	0	2	1BEMEL207	Elements of Mechanical Engineering Lab	0	0	2
1BBEEL107	Basic Electrical Lab	0	0	2	1BBEEL207	Basic Electrical Lab	0	0	2
1BECEL107	Fundamentals of Electronics & Communication Engineering Lab	0	0	2	1BECEL207	Fundamentals of Electronics & Communication Engineering Lab	0	0	2
1BPOPL107	C Programming Lab	0	0	2	1BPOPL207	C Programming Lab	0	0	2
Computer-Aided Engineering Drawing					Computer-Aided Engineering Drawing				
1BCEDCV103	Computer-Aided Engineering Drawing for CV	2	0	2	1BCEDCV203	Computer-Aided Engineering Drawing for CV	2	0	2
1BCEDME103	Computer-Aided Engineering Drawing for ME	2	0	2	1BCEDME203	Computer-Aided Engineering Drawing for ME	2	0	2
1BCEDCE103	Computer-Aided Engineering Drawing for ECE	2	0	2	1BCEDCE203	Computer-Aided Engineering Drawing for ECE	2	0	2
1BCEDDE103	Computer-Aided Engineering Drawing for EEE	2	0	2	1BCEDDE203	Computer-Aided Engineering Drawing for EEE	2	0	2
1BCEDCS103	Computer-Aided Engineering Drawing for CSE stream	2	0	2	1BCEDCS203	Computer-Aided Engineering Drawing for CSE stream	2	0	2

AICTE Activity Points Requirement for BE/B.Tech. Programmes

As per AICTE guidelines (refer Chapter 6 – AICTE Activity Point Program, Model Internship Guidelines), in addition to academic requirements, students must earn a specified number of **Activity Points** to be eligible for the award of the degree. The points to be earned is:

1. **Regular students** admitted to a 4-year degree program must earn **100 Activity Points**.
2. **Lateral entry students** (joining from the second year) must earn **75 Activity Points**.
3. **Students transferred** from other universities directly into the fifth semester must earn **50 Activity Points** from the date of entry into VTU.

These Activity Points are **non-credit** and will not be considered for the **SGPA/CGPA** or be used for **vertical progression**. However, earning Activity Points is mandatory for the **award of the degree**, and the points earned will be reflected on the **eighth semester Grade Card**.

If a student completes all the semesters (eight or six) at the end of the programme but fails to earn the required Activity Points, the eighth-semester Grade Card will be withheld until the requirement is fulfilled. Also, the degree will be awarded only after the Grade Card has been released.

The hours spent earning the activity points will not be counted for regular attendance requirements. Students can accumulate these points at any time during their program period, including weekends, holidays, and vacations, starting from the year of admission, provided they meet the minimum hours of engagement prescribed for each activity by AICTE.



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