



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT
(Autonomous Institution Affiliated to VTU, Belagavi)

Scheme of Teaching and Examinations – 2024 Scheme

Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2024-25 onwards)

For the students of Departments of CSE*, AIML & CSBS

I Semester (Physics Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC(IC)	BMATCS11	Multivariate Calculus and Linear Algebra	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC(IC)	BPHYCS12	Quantum Computing and Photonics	Physics	3	0.5	0.5	4	50	50	100	3	5
3	ESC	BPOP13	Principles of Programming using C	CSE/AIML /CSBS	2	0	1	3	50	50	100	3	4
4	ESC-I	BESC14X	Engineering Science Course I	Concerned Department	3	0	0	3	50	50	100	3	3
5	ETC-I	BETC15X	Emerging Technology Course I	Any Department	3	0	0	3	50	50	100	3	3
6	AEC	BENGL16	Communicative English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BSKK17/ BBKK17	Sanskrutika Kannada/ Balake Kannada	Humanities	1	0	0	1	50	50	100	1	1
8	AEC/SDC	BIDTL18	Innovation and Design Thinking	Any Department	0	0	1	1	50	50	100	2	2
TOTAL					15	1	4	20	400	400	800		25

ASC-Applied Science Course, ESC- Engineering Science Courses. ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMC-Humanity and Social Science and management Course, SDC- Skill Development Course. CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course).

* Time table applicable for CSE section CSE – 15.

Scheme updated with new course codes as approved in the HoDs meeting held on 02.12.2024

BMATCS11 Shall have the 03 hours of theory examination (SEE), however, practical sessions question shall be included in the theory question papers. Mathematics should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

BPHYCS12 SEE shall have the 03 hours of theory examination.

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc.

AICTE Activity Points to be earned by students admitted to BE day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to the Institution. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hour's requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

Engineering Science Courses-I (ESC-I)						Emerging Technology Courses-I (ETC-I)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
1	BESC14A	Introduction to Civil Engineering	3	0	0	1	BETC15A	Introduction to IoT	3	0	0
2	BESC14B	Introduction to Electrical Engineering	3	0	0	2	BETC15B	Introduction to Cyber Security	3	0	0
3	BESC14C	Introduction to Electronics Engineering	3	0	0	3	BETC15C	Introduction to Cloud Computing	3	0	0
4	BESC14D	Introduction to Mechanical Engineering	3	0	0	4	BETC15D	Rapid Prototyping	3	0	0
5	BESC14E	Introduction to C Programming	2	0	1	5	BETC15E	Introduction to Robotics	3	0	0
						6	BETC15F	Introduction to Green Buildings	3	0	0
						7	BETC15G	Introduction to Intelligent Transportation Systems	3	0	0
						8	BETC15H	Introduction to Bio Sensors	3	0	0
						9	BETC15I	Introduction to Nano Technology	3	0	0
						10	BETC15J	Introduction to Renewable Energy Systems	3	0	0
						11	BETC15K	Introduction to Electric Vehicles	3	0	0

- CSE/AIML/CSBS branch Students shall opt for any one of the courses from the ESC-I group **except BESC14E - Introduction to C Programming.**
- The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester
- The students must select one course from ETC-I group.
- If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa.



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Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2024-25 onwards)

For the students of Departments of CSE*, AIML & CSBS

II Semester (Chemistry Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC(IC)	BMATCS21	Ordinary Differential Equations and Numerical Methods	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC(IC)	BCHECS22	Materials Chemistry for Energy and Data Processing	Chemistry	3	0	1	4	50	50	100	3	5
3	ESC	BCED23	Computer Aided Engineering Drawing	ME	2	0	1	3	50	50	100	3	4
4	ESC-II	BESC24X	Engineering Science Course II	Concerned Department	3	0	0	3	50	50	100	3	3
5	PLC-II	BPLC25X	Programming Language Course II	Any Department	2	0	1	3	50	50	100	3	4
6	AEC	BPWSL26	Professional Writing Skills in English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BICO27	Indian Constitution	Humanities	1	0	0	1	50	50	100	1	1
8	HSMC	BSFH28	Scientific Foundations of Health	Any Department	1	0	0	1	50	50	100	1	1
TOTAL					15	0.5	4.5	20	400	400	800		25

ASC-Applied Science Course, ESC- Engineering Science Courses, ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMC-Humanity and Social Science and management Course, SDC- Skill Development Course, CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course). Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course).

* Time table applicable for CSE section CSE – 15.

BMATCS21 Shall have the 03 hours of theory examination (SEE), however, practical sessions question shall be included in the theory question papers. Mathematics should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

BCHECS22 - SEE shall have the 03 hours of theory examination.

Engineering Science Courses-II (ESC-II)						Programming Language Courses-II (PLC-II)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
1	BESC24A	Introduction to Civil Engineering	3	0	0	1	BPLC25A	Introduction to Web Programming	2	0	1
2	BESC24B	Introduction to Electrical Engineering	3	0	0	2	BPLC25B	Introduction to Python Programming	2	0	1
3	BESC24C	Introduction to Electronics Engineering	3	0	0	3	BPLC25C	Basics of JAVA programming	2	0	1
4	BESC24D	Introduction to Mechanical Engineering	3	0	0	4	BPLC25D	Introduction to C++ Programming	2	0	1
5	BESC24E	Introduction to C Programming	2	0	1						
<ul style="list-style-type: none"> • CSE/AIML/CSBS branch students shall opt for any one of the courses from the ESC-II group except, BESC24E -Introduction to C Programming • The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester • The students must select one course from PLC-II group. • If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa. 											



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(Effective from the academic year 2024-25 onwards)

For the students of Departments of ECE and EEE

I Semester (Physics Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC(IC)	BMATEE11	Calculus and Ordinary Differential Equations	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC(IC)	BPHYEE12	Optoelectronics and Electrodynamics	Physics	3	0.5	0.5	4	50	50	100	3	5
3	ESC	BBEE13	Basic Electronics	ECE	3	0	0	3	50	50	100	3	3
		BEEE13	Elements of Electrical Engineering	EEE									
4	ESC-I	BESC14X	Engineering Science Course I	Concerned Department	3	0	0	3	50	50	100	3	3
5	ETC-I	BETC15X	Emerging Technology Course I	Any Department	3	0	0	3	50	50	100	3	3
6	AEC	BENGL16	Communicative English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BSKK17/ BBKK17	Sanskrutika Kannada/ Balake Kannada	Humanities	1	0	0	1	50	50	100	1	1
8	AEC/SDC	BIDTL18	Innovation and Design Thinking	Any Department	0	0	1	1	50	50	100	2	2
TOTAL					16	1	3	20	400	400	800		24

ASC-Applied Science Course, ESC- Engineering Science Courses, ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMC-Humanity and Social Science and management Course, SDC- Skill Development Course, CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course).

BMATEE11 Shall have the 03 hours of theory examination (SEE), however, practical sessions question shall be included in the theory question papers. Mathematics should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

BPHYEE12 SEE shall have the 03 hours of theory examination.

Students of Electronics & Communication Engineering (ECE) have to study the course “**Basic Electronics**” (**BBEE13**) mandatorily as Program Core Course. Whereas, Students of Electrical & Electronics Engineering (EEE) have to study “**Elements of Electrical Engineering**” (**BEEE14**) mandatorily as Program Core Course.

Student’s Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students’ character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc.

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Engineering Science Courses-I (ESC-I)						Emerging Technology Courses-I (ETC-I)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
1	BESC14A	Introduction to Civil Engineering	3	0	0	1	BETC15A	Introduction to IoT	3	0	0
2	BESC14B	Introduction to Electrical Engineering	3	0	0	2	BETC15B	Introduction to Cyber Security	3	0	0
3	BESC14C	Introduction to Electronics Engineering	3	0	0	3	BETC15C	Introduction to Cloud Computing	3	0	0
4	BESC14D	Introduction to Mechanical Engineering	3	0	0	4	BETC15D	Rapid Prototyping	3	0	0
5	BESC14E	Introduction to C Programming	2	0	1	5	BETC15E	Introduction to Robotics	3	0	0
						6	BETC15F	Introduction to Green Buildings	3	0	0
						7	BETC15G	Introduction to Intelligent Transportation Systems	3	0	0
						8	BETC15H	Introduction to Bio Sensors	3	0	0
						9	BETC15I	Introduction to Nano Technology	3	0	0
						10	BETC15J	Introduction to Renewable Energy Systems	3	0	0
						11	BETC15K	Introduction to Electric Vehicles	3	0	0
<ul style="list-style-type: none"> • EEE branch Students shall opt for any one of the courses from the ESC-I group except, BESC14B - Introduction to Electrical Engineering • ECE branch Students shall opt for any one of the courses from the ESC-I group except, BESC14C - Introduction to Electronics Engineering • The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester • The students must select one course from ETC-I group. • If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa. 											



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II Semester (Chemistry Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC(IC)	BMATEE21	Numerical Methods and Linear Algebra	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC(IC)	BCHEEE22	Materials Chemistry for Energy and Display Systems	Chemistry	3	0	1	4	50	50	100	3	5
3	ESC	BCED23	Computer Aided Engineering Drawing	ME	2	0	1	3	50	50	100	3	4
4	ESC-II	BESC24X	Engineering Science Course II	Concerned Department	3	0	0	3	50	50	100	3	3
5	PLC-II	BPLC25X	Programming Language Course-II	Any Department	2	0	1	3	50	50	100	3	4
6	AEC	BPWSL26	Professional Writing Skills in English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BICO27	Indian Constitution	Humanities	1	0	0	1	50	50	100	1	1
8	HSMC	BSFH28	Scientific Foundations of Health	Any Department	1	0	0	1	50	50	100	1	1
TOTAL					15	0.5	4.5	20	400	400	800		25

ASC-Applied Science Course, ESC- Engineering Science Courses, ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMC-Humanity and Social Science and management Course, SDC- Skill Development Course, CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course). Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course).

BMATEE21 Shall have the 03 hours of theory examination (SEE), however, practical sessions question shall be included in the theory question papers. Mathematics should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

BCHEEE22 - SEE shall have the 03 hours of theory examination.

Engineering Science Courses-II (ESC-II)						Programming Language Courses-II (PLC-II)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
1	BESC24A	Introduction to Civil Engineering	3	0	0	1	BPLC25A	Introduction to Web Programming	2	0	1
2	BESC24B	Introduction to Electrical Engineering	3	0	0	2	BPLC25B	Introduction to Python Programming	2	0	1
3	BESC24C	Introduction to Electronics Engineering	3	0	0	3	BPLC25C	Basics of JAVA programming	2	0	1
4	BESC24D	Introduction to Mechanical Engineering	3	0	0	4	BPLC25D	Introduction to C++ Programming	2	0	1
5	BESC24E	Introduction to C Programming	2	0	1						
<ul style="list-style-type: none"> • EEE branch Students shall opt for any one of the courses from the ESC-I group except, BESC24B - Introduction to Electrical Engineering • ECE branch Students shall opt for any one of the courses from the ESC-I group except, BESC24C - Introduction to Electronics Engineering • The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester • The students must select one course from PLC-II group. • If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa. 											



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(Effective from the academic year 2024-25 onwards)

For the students of Department of ME

I Semester (Physics Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC(IC)	BMATMC11	Calculus and Linear Algebra	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC(IC)	BPHYME12	Material Science and Metallurgy	Physics	3	0.5	0.5	4	50	50	100	3	5
3	ESC	BEME13	Elements of Mechanical Engineering	ME	3	0	0	3	50	50	100	3	3
4	ESC-I	BESC14X	Engineering Science Course I	Concerned Department	3	0	0	3	50	50	100	3	3
5	ETC-I	BETC15X	Emerging Technology Course I	Any Department	3	0	0	3	50	50	100	3	3
6	AEC	BENGL16	Communicative English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BSKK17/ BBKK17	Sanskritika Kannada/ Balake Kannada	Humanities	1	0	0	1	50	50	100	1	1
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TOTAL					16	1	3	20	400	400	800		24

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BPHYME12 SEE shall have the 03 hours of theory examination.

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Engineering Science Courses-I (ESC-I)						Emerging Technology Courses-I (ETC-I)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
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3	BESC14C	Introduction to Electronics Engineering	3	0	0	3	BETC15C	Introduction to Cloud Computing	3	0	0
4	BESC14D	Introduction to Mechanical Engineering	3	0	0	4	BETC15D	Rapid Prototyping	3	0	0
5	BESC14E	Introduction to C Programming	2	0	1	5	BETC15E	Introduction to Robotics	3	0	0
						6	BETC15F	Introduction to Green Buildings	3	0	0
						7	BETC15G	Introduction to Intelligent Transportation Systems	3	0	0
						8	BETC15H	Introduction to Bio Sensors	3	0	0
						9	BETC15I	Introduction to Nano Technology	3	0	0
						10	BETC15J	Introduction to Renewable Energy Systems	3	0	0
						11	BETC15K	Introduction to Electric Vehicles	3	0	0

- ME branch Students shall opt for any one of the courses from the ESC-I group **except, BESC14D - Introduction to Mechanical Engineering**
- The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester
- The students must select one course from either ETC-I group.
- If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa.



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(Effective from the academic year 2024-25 onwards)

For the students of Department of ME

II Semester (Chemistry Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
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3	ESC	BCED23	Computer Aided Engineering Drawing	ME	2	0	1	3	50	50	100	3	4
4	ESC-II	BESC24X	Engineering Science Course II	Concerned Department	3	0	0	3	50	50	100	3	3
5	PLC-II	BPLC25X	Programming Language Course-II	Any Department	2	0	1	3	50	50	100	3	4
6	AEC	BPWSL26	Professional Writing Skills in English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BICO27	Indian Constitution	Humanities	1	0	0	1	50	50	100	1	1
8	HSMC	BSFH28	Scientific Foundations of Health	Any Department	1	0	0	1	50	50	100	1	1
TOTAL					15	0.5	4.5	20	400	400	800		25

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BCHEME22 - SEE shall have the 03 hours of theory examination.

Engineering Science Courses-II (ESC-II)						Programming Language Courses-II (PLC-II)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
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2	BESC24B	Introduction to Electrical Engineering	3	0	0	2	BPLC25B	Introduction to Python Programming	2	0	1
3	BESC24C	Introduction to Electronics Engineering	3	0	0	3	BPLC25C	Basics of JAVA programming	2	0	1
4	BESC24D	Introduction to Mechanical Engineering	3	0	0	1	BPLC25D	Introduction to C++ Programming	2	0	1
5	BESC24E	Introduction to C Programming	2	0	1						

- ME branch Students shall opt for any one of the courses from the ESC-I group **except, BESC24D - Introduction to Mechanical Engineering**
- The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester
- The students must select one course from PLC-II group.
- If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa.



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

(Autonomous Institution Affiliated to VTU, Belagavi)

Scheme of Teaching and Examinations – 2024 Scheme

Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2024-25 onwards)

For the students of Department of CV

I Semester (Physics Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC(IC)	BMATMC11	Calculus and Linear Algebra	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC(IC)	BPHYCV12	Materials and wave properties for structural applications	Physics	3	0.5	0.5	4	50	50	100	3	5
3	ESC	BEEM13	Elements of Engineering Mechanics	CV	3	0	0	3	50	50	100	3	3
4	ESC-I	BESC14X	Engineering Science Course I	Concerned Department	3	0	0	3	50	50	100	3	3
5	ETC-I	BETC15X	Emerging Technology Course I	Any Department	3	0	0	3	50	50	100	3	3
6	AEC	BENGL16	Communicative English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BSKK17/ BBKK17	Sanskritika Kannada/ Balake Kannada	Humanities	1	0	0	1	50	50	100	1	1
8	AEC/SDC	BIDTL18	Innovation and Design Thinking	Any Department	0	0	1	1	50	50	100	2	2
TOTAL					16	1	3	20	400	400	800		24

ASC-Applied Science Course, ESC- Engineering Science Courses, ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMC-Humanity and Social Science and management Course, SDC- Skill Development Course, CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course).

BMATMC11 Shall have the 03 hours of theory examination (SEE), however, practical sessions question shall be included in the theory question papers. Mathematics should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

BPHYCV12 SEE shall have the 03 hours of theory examination.

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc.

AICTE Activity Points to be earned by students admitted to BE day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to the Institution. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hour's requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

Engineering Science Courses-I (ESC-I)						Emerging Technology Courses-I (ETC-I)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
1	BESC14A	Introduction to Civil Engineering	3	0	0	1	BETC15A	Introduction to IoT	3	0	0
2	BESC14B	Introduction to Electrical Engineering	3	0	0	2	BETC15B	Introduction to Cyber Security	3	0	0
3	BESC14C	Introduction to Electronics Engineering	3	0	0	3	BETC15C	Introduction to Cloud Computing	3	0	0
4	BESC14D	Introduction to Mechanical Engineering	3	0	0	4	BETC15D	Rapid Prototyping	3	0	0
5	BESC14E	Introduction to C Programming	2	0	1	5	BETC15E	Introduction to Robotics	3	0	0
						6	BETC15F	Introduction to Green Buildings	3	0	0
						7	BETC15G	Introduction to Intelligent Transportation Systems	3	0	0
						8	BETC15H	Introduction to Bio Sensors	3	0	0
						9	BETC15I	Introduction to Nano Technology	3	0	0
						10	BETC15J	Introduction to Renewable Energy Systems	3	0	0
						11	BETC15K	Introduction to Electric Vehicles	3	0	0

- CV branch Students shall opt for any one of the courses from the ESC-I group **except, BESC14A - Introduction to Civil Engineering**
- The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester
- The students must select one course from either ETC-I group.
- If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa.



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT
(Autonomous Institution Affiliated to VTU, Belagavi)

Scheme of Teaching and Examinations – 2024 Scheme

Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2024-25 onwards)

For the students of Department of CV

II Semester (Chemistry Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC(IC)	BMATMC21	Numerical Techniques and Differential equations	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC(IC)	BCHECV22	Chemistry of Structural and Functional Materials	Chemistry	3	0	1	4	50	50	100	3	5
3	ESC	BCED23	Computer Aided Engineering Drawing	ME	2	0	1	3	50	50	100	3	4
4	ESC-II	BESC24X	Engineering Science Course II	Concerned Department	3	0	0	3	50	50	100	3	3
5	PLC-II	BPLC25X	Programming Language Course-II	Any Department	2	0	1	3	50	50	100	3	4
6	AEC	BPWSL26	Professional Writing Skills in English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BICO27	Indian Constitution	Humanities	1	0	0	1	50	50	100	1	1
8	HSMC	BSFH28	Scientific Foundations of Health	Any Department	1	0	0	1	50	50	100	1	1
TOTAL					15	0.5	4.5	20	400	400	800		25

ASC-Applied Science Course, ESC- Engineering Science Courses, ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMC-Humanity and Social Science and management Course, SDC- Skill Development Course, CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course). Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course).

BMATMC21 Shall have the 03 hours of theory examination (SEE), however, practical sessions question shall be included in the theory question papers. Mathematics should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

BCHECV22 - SEE shall have the 03 hours of theory examination.

Engineering Science Courses-II (ESC-II)						Programming Language Courses-II (PLC-II)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
1	BESC24A	Introduction to Civil Engineering	3	0	0	1	BPLC25A	Introduction to Web Programming	2	0	1
2	BESC24B	Introduction to Electrical Engineering	3	0	0	2	BPLC25B	Introduction to Python Programming	2	0	1
3	BESC24C	Introduction to Electronics Engineering	3	0	0	3	BPLC25C	Basics of JAVA programming	2	0	1
4	BESC24D	Introduction to Mechanical Engineering	3	0	0	4	BPLC25D	Introduction to C++ Programming	2	0	1
5	BESC24E	Introduction to C Programming	2	0	1						

- CV branch Students shall opt for any one of the courses from the ESC-I group **except, BESC24A - Introduction to Civil Engineering**
- The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester
- The students must select one course from either PLC-II group.
- If students study the subject from ETC-I in 1st semester he/she has to select the course from PLC-II in the 2nd semester and vice-versa.



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT
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Scheme of Teaching and Examinations – 2024 Scheme

Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2024-25 onwards)

For the students of Department of CSE*

I Semester (Chemistry Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC (IC)	BMATCS11	Multivariate Calculus and Linear Algebra	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC (IC)	BCHECS12	Materials Chemistry for Energy and Data Processing	Chemistry	3	0	1	4	50	50	100	3	5
3	ESC	BCED13	Computer Aided Engineering Drawing	ME	2	0	1	3	50	50	100	3	4
4	ESC-I	BESC14X	Engineering Science Course I	Concerned Department	3	0	0	3	50	50	100	3	3
5	PLC-I	BPLC15X	Programming Language Course I	Any Department	2	0	1	3	50	50	100	3	4
6	AEC	BENGL16	Communicative English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BICO17	Indian Constitution	Humanities	1	0	0	1	50	50	100	1	1
8	HSMC	BSFH18	Scientific Foundations of Health	Any Department	1	0	0	1	50	50	100	1	1
TOTAL					15	0.5	4.5	20	400	400	800		25

ASC-Applied Science Course, ESC- Engineering Science Courses, ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMC-Humanity and Social Science and management Course, SDC- Skill Development Course, CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course). *Time table applicable for CSE sections from CSE – 1 to CSE – 14 sections (14 sections)

BMATCS11 Shall have the 03 hours of theory examination (SEE), however, practical sessions question shall be included in the theory question papers. The mathematics subject should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

BCHECS12- SEE shall have the 03 hours of theory examination and 02-03 hours of practical examination.

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students a broad understanding of society, relationships, and values. Along with the knowledge and skill of his/her study, students' character needs to be nurtured as an essential quality by which he/she would understand and fulfill the responsibility as an engineer. The following activities are to be covered in 21 days. Physical Activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to Local areas, Familiarization with Department/Branch and Innovation, etc. For details, refer the ANNEXURE- 1 of Induction Programs notification of the University published at the beginning of the 1st semester.

AICTE Activity Points to be earned by students admitted to BE day college program (For more details refer to Chapter 6, AICTE Activity Point Program, Model Internship Guidelines): Over and above the academic grades, every regular student admitted to the 4 years Degree program and every student entering 4 years Degree programs through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Program. Students transferred from other Universities to the fifth semester are required to earn 50 Activity Points from the year of entry to the Institution. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, any time during the semester weekends, and holidays, as per the liking and convenience of the student from the year of entry to the program. However, the minimum hour's requirement should be fulfilled. Activity Points (non-credit) do not affect SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, an Eighth Semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of the degree only after the release of the Eighth semester Grade Card.

Engineering Science Courses-I (ESC-I)						Programming Language Courses-I (PLC-I)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
1	BESC14A	Introduction to Civil Engineering	3	0	0	1	BPLC15A	Introduction to Web Programming	2	0	1
2	BESC14B	Introduction to Electrical Engineering	3	0	0	2	BPLC15B	Introduction to Python Programming	2	0	1
3	BESC14C	Introduction to Electronics Engineering	3	0	0	3	BPLC15C	Basics of JAVA programming	2	0	1
4	BESC14D	Introduction to Mechanical Engineering	3	0	0	4	BPLC15D	Introduction to C++ Programming	2	0	1
5	BESC14E	Introduction to C Programming	2	0	1						

- CSE branch Students shall opt for any one of the courses from the ESC-I group **except, BESC14E - Introduction to C Programming.**
- The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester
- The students must select one course from PLC-I group.
- If students study the subject from PLC - I in 1st semester he/she has to select the course from ETC-II in the 2nd semester and vice-versa.



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Scheme of Teaching and Examinations – 2024 Scheme

Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2024-25 onwards)

For the students of Department of CSE*

II Semester (Physics Cycle)

Sl. No.	Course Category	Course Code	Course Name	Teaching / QP Setting Department	Credits Distribution				Examination				Contact Hours/week
					L	T	P	Total	CIE Marks	SEE Marks	Total Marks	SEE Duration (H)	
1	ASC (IC)	BMATCS21	Ordinary Differential Equations and Numerical Methods	Maths	3	0.5	0.5	4	50	50	100	3	5
2	ASC (IC)	BPHYCS22	Quantum computing and Photonics	Physics	3	0.5	0.5	4	50	50	100	3	5
3	ESC	BPOP23	Principles of Programming using C	CSE/AIML	2	0	1	3	50	50	100	3	4
4	ESC-II	BESC24X	Engineering Science Course II	Concerned Department	3	0	0	3	50	50	100	3	3
5	ETC-II	BETC25X	Emerging Technology Course II	Any Department	3	0	0	3	50	50	100	3	3
6	AEC	BPWSL26	Professional Writing Skills in English	Humanities	0	0	1	1	50	50	100	2	2
7	HSMC	BSKK27/ BBKK27	Sanskrutika Kannada / Balake Kannada	Humanities	1	0	0	1	50	50	100	1	1
8	AEC/SDC	BIDTL28	Innovation and Design Thinking	Any Department	0	0	1	1	50	50	100	1	2
TOTAL					15	1	4	20	400	400	800		25

ASC-Applied Science Course, ESC-Engineering Science Courses, ETC- Emerging Technology Course, AEC- Ability Enhancement Course, HSMC-Humanity and Social Science and management Course, SDC- Skill Development Course, CIE -Continuous Internal Evaluation, SEE- Semester End Examination, IC – Integrated Course (Theory Course Integrated with Practical Course). *Time table applicable for CSE sections from CSE – 1 to CSE – 14 sections (14 sections)

BMATCS21 Shall have the 03 hours of theory examination (SEE), however, practical sessions question shall be included in the theory question papers. Mathematics should be taught by a single faculty member per division, with no sharing of the course(subject)module-wise by different faculty members.

BPHYCS22 SEE shall have the 03 hours of theory examination.

Engineering Science Courses-II (ESC-II)						Emerging Technology Courses-II (ETC-II)					
Sl. No.	Course Code	Course Name	Credits distribution			Sl. No.	Course Code	Course Name	Credits distribution		
			L	T	P				L	T	P
1	BESC24A	Introduction to Civil Engineering	3	0	0	1	BETC25A	Introduction to IoT	3	0	0
2	BESC24B	Introduction to Electrical Engineering	3	0	0	2	BETC25B	Introduction to Cyber Security	3	0	0
3	BESC24C	Introduction to Electronics Engineering	3	0	0	3	BETC25C	Introduction to Cloud Computing	3	0	0
4	BESC24D	Introduction to Mechanical Engineering	3	0	0	4	BETC25D	Rapid Prototyping	3	0	0
5	BESC24E	Introduction to C Programming	2	0	1	5	BETC25E	Introduction to Robotics	3	0	0
						6	BETC25F	Introduction to Green Buildings	3	0	0
						7	BETC25G	Introduction to Intelligent Transportation Systems	3	0	0
						8	BETC25H	Introduction to Bio Sensors	3	0	0
						9	BETC25I	Introduction to Nano Technology	3	0	0
						10	BETC25J	Introduction to Renewable Energy Systems	3	0	0
						11	BETC25K	Introduction to Electric Vehicles	3	0	0

- CSE branch Students shall opt for any one of the courses from the ESC-II group **except, BESC24E - Introduction to C Programming**
- The students have to opt for the courses from ESC group without repeating the course in either 1st or 2nd semester
- The students must select one course from either ETC-II group.
- If students study the subject from PLC-I in 1st semester he/she has to select the course from ETC-II in the 2nd semester and vice-versa.

Ht
CoE 03/12/2024

K. J. Satw
03.12.2024
Dean Academics

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3/12/24
PRINCIPAL