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Ref: MITM/1ˢᵗ Yr/ME Stream/Scheme/2023-24/001

Scheme of Teaching and Examination for BE (Autonomous Scheme-2023)
(Effective from the Academic Year 2023 - 24)

I-Semester (Mechanical Engineering Stream) — **Physics Group**

Sl. No.	Course Area	Course Code (Existing)	Course Code (To be Changed to)	Course Title	TD/ PSB	Theory/ Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	BS	BMATM101	M23BMATM101	Mathematics-I for Mechanical stream	Basic Science	2	2	2	0	03	50	50	100	04
2	BS	BPHYM102	M23BPHYM102	Applied Physics for ME Stream	Basic Science	2	2	2	0	03	50	50	100	04
3	ES	BEMEM103	M23BEMEM103	Elements of Mechanical Engineering	Respective Dept	2	0	2	0	03	50	50	100	03
4	ES-1	BESCK104x	M23BESK104x	Engineering Science Course-I	Respective Dept	2	0	2	0	03	50	50	100	03
5	ET-1	BETCK105x	M23BETK105x	Emerging Technology Course-I	Any Dept	3	0	0	0	03	50	50	100	03
		OR												
	PL	BPLCK105x	M23BPLK105x	Programming Language Course-I		2	0	2	0	03				
6	HS	BENGK106	M23BENGK106	Communicative English	Humanities/ Any Dept.	1	0	0	0	01	50	50	100	01
		OR												
		BPWSK106	M23BPWSK106	Professional Writing Skills in English										
7	HS	BKSKK107/ BKBKK107	M23BKSKK107/ M23BKBKK107	Samskrutika Kannada/ Balake Kannada	Humanities/ Any Dept.	1	0	0	0	01	50	50	100	01
		OR												
		BICOK107	M23BICOK107	Indian Constitution										
8	AE	BIDTK158	M23BIDTK158	Innovation and Design Thinking	Basic Science/ Any Dept.	1	0	0	0	01	50	50	100	01
		OR												
		BSFHK158	M23BSFHK158	Scientific Foundations of Health		1	0	0	0	01				
				Total							400	400	800	20

SDA-Skill Development Activities, **TD/PSB** – Teaching Department / Paper Setting Board, **BS** – Basic Science Course, **ES** – Engineering Science Courses, **ET** - Emerging Technology Course, **AE** –Ability Enhancement Course, **HSMS** – 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)

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Credit Definition:	04- Credits courses are to be designed for 50 hours of Teaching – Learning Session
1- hour Lecture **(L)** per week = **1Credit**	04- Credits (IC) are to be designed for 40 hours' theory and 12 – 14 hours of practical sessions
2- hours Tutorial **(T)** per week = **1Credit**	03- Credits courses are to be designed for 40 hours of Teaching – Learning Session
2- hours Practical/ Drawing **(P)** per week = **1Credit**	02- Credits courses are to be designed for 25 hours of Teaching – Learning Session
2- hours Skill Development Actives **(SDA)** per week = **1Credit**	01- Credit courses are to be designed for 12 – 15 hours of Teaching – Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students abroad 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 fulfil 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 – I 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/ B.Tech.,/ B.Plan 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 4years 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 they are of entry to VTU. 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 hours' 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.

ES or ET of 03 credits Courses shall have only a theory component (L:T:P:S = 3:0:0:0) or if the nature the of course required practical earning syllabus shall be designed as an Integrated course (L:T:P:S = 2:0:2:0). **All 01 Credit –** courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ

(ES-II) Engineering Science Courses - II					(ET-II) Emerging Technology Courses - II				
Code	**Title**	**L**	**T**	**P**	**Code**	**Title**	**L**	**T**	**P**
M23BESK104A	Introduction to Civil Engineering				M23BETK105A	Green Buildings			
M23BESK104B	Introduction to Electrical Engineering				M23BETK105B	Introduction to Nano Technology			
M23BESK104C	Introduction to Electronics Communication				M23BETK105C	Renewable Energy Sources			
M23BESK104D	Introduction to Mechanical Engineering				M23BETK105D	Waste Management			
M23BESK104E	Introduction to C Programming				M23BETK105E	Introduction to Internet of Things (IOT)			
					M23BETK105F	Introduction to Cyber Security			

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(PL-I) Programming Language Courses - I			
Code	**Title**	**L**	**T**	**P**
M23BPLK105A	Introduction to Web Programming			
M23BPLK105B	Introduction to Python Programming			
M23BPLK105C	Basics of JAVA programming			
M23BPLK105D	Introduction to C++ Programming			

• The student has to select one course from the ES-I group.

• Civil Engineering Students shall opt for any one of the courses from the ES-I group except, BESCK104A Introduction to Civil

Engineering

• The students have to opt for the courses from ES group without repeating the course either 1st or 2nd semester

• The students must select one course from either ET-I or PL-I group.

• If students study the subject from ET-I in 1st

semester he/she has to select the course from PL-II in the 2nd semester and vice-versa

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Dean Academics
MIT Mysore

Principal
MIT Mysore

Ref: MITM/1ˢᵗ Yr/ME Stream/Scheme/2023-24/001

Scheme of Teaching and Examination for BE (Autonomous Scheme-2023)
(Effective from the Academic Year 2023 - 24)

II-Semester (Mechanical Engineering Stream)   **Chemistry Group (For the students attended 1ˢᵗsem under Physics group)**

Sl. No.	Course Area	Course Code Existing	Course Code Tobe Changed to	Course Title	TD/ PSB	Theory/ Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	BS	BMATM201	M23BMATM201	Mathematics – II for Mechanical stream	Basic Science	2	2	2	0	03	50	50	100	04
2	BS	BCHEM202	M23BCHEM202	Applied Chemistry for Mechanical stream	Basic Science	2	2	2	0	03	50	50	100	04
3	ES	BCEDK203	M23BCEDK203	Computer-Aided Engineering Drawing	Respective Dept	2	0	2	0	03	50	50	100	03
4	ES-II	BESCK204x	M23BESK204x	Engineering Science Course-II	Respective Dept	2	0	2	0	03	50	50	100	03
5	ET-II	BPLCK205x	M23BPLK205x	Programming Language Course-II	Any Dept	3	0	0	0	03	50	50	100	03
		OR												
	PL	BETCK205x	M23BETK205x	Emerging Technology Course-II		2	0	2	0	03				
6	HS	BPWSK206	M23BPWSK206	Professional Writing Skills in English	Humanities/ Any Dept.	1	0	0	0	01	50	50	100	01
		OR												
		BENGK206	M23BENGK206	Communicative English										
7	HS	BICOK207	M23BICOK207	Indian Constitution	Humanities/ Any Dept.	1	0	0	0	01	50	50	100	01
		OR												
		BKSKK207/ BKBKK207	M23BKSKK207/ M23BKBKK207	Samskrutika Kannada/ Balake Kannada										
8	AE	BSFHK258	M23BSFHK258	Scientific Foundations of Health	Basic Science/ Any Dept.	1	0	0	0	01	50	50	100	01

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		OR											
	BIDTK258	M23BIDTK258	Innovation and Design Thinking		1	0	0	0	01				
			Total							400	400	800	20

SDA-Skill Development Activities, **TD/PSB** – Teaching Department / Paper Setting Board, **BS** – Basic Science Course, **ES** – Engineering Science Courses, **ET** - Emerging Technology Course, **AE** –Ability Enhancement Course, **HSMS** – 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)

Credit Definition:	04- Credits courses are to be designed for 50 hours of Teaching – Learning Session
1- hour Lecture **(L)** per week = **1Credit**	04- Credits (IC) are to be designed for 40 hours' theory and 12 – 14 hours of practical sessions
2- hours Tutorial **(T)** per week = **1Credit**	03- Credits courses are to be designed for 40 hours of Teaching – Learning Session
2- hours Practical/ Drawing **(P)** per week = **1Credit**	02- Credits courses are to be designed for 25 hours of Teaching – Learning Session
2- hours Skill Development Actives **(SDA)** per week = **1Credit**	01- Credit courses are to be designed for 12 – 15 hours of Teaching – Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students abroad 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 fulfil 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 – I 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/ B.Tech../ B.Plan 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 4years 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 they are of entry to VTU. 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 hours' 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.

ES or ET of 03 credits Courses shall have only a theory component (L:T:P:S = 3:0:0:0) or if the nature the of course required practical earning syllabus shall be designed as an Integrated course (L:T:P:S = 2:0:2:0). **All 01 Credit –** courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ

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(ES-II) Engineering Science Courses - II					(ET-II) Emerging Technology Courses - II				
Code	Title	L	T	P	Code	Title	L	T	P
M23BESK204A	Introduction to Civil Engineering				M23BETK105A	Green Buildings			
M23BESK204B	Introduction to Electrical Engineering				M23BETK105B	Introduction to Nano Technology			
M23BESK204C	Introduction to Electronics Communication				M23BETK105C	Renewable Energy Sources			
M23BESK204D	Introduction to Mechanical Engineering				M23BETK105D	Waste Management			
M23BESK204E	Introduction to C Programming				M23BETK105E	Introduction to Internet of Things (IOT)			
					M23BETK105F	Introduction to Cyber Security			

(PL-II) Programming Language Courses - II				
Code	Title	L	T	P
M23BPLK205A	Introduction to Web Programming			
M23BPLK205B	Introduction to Python Programming			
M23BPLK205C	Basics of JAVA programming			
M23BPLK205D	Introduction to C++ Programming			

• The student has to select one course from the ES-II group.

• Civil Engineering Students shall opt for any one of the courses from the ES-II group except, M23BESCK204A -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 ET-II or PL-II group.

• If students study the subject from ET-I in 1st semester he/she has to select the course from PL-II in the 2nd semester and vice-versa

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Scheme of Teaching and Examination for BE (Autonomous Scheme-2023)
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I-Semester (Mechanical Engineering Stream) **Chemistry Group**

Sl. No.	Course Area	Course Code Existing	Course Code Tobe Changed to	Course Title	TD/ PSB	Theory/ Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	BS	BMATM101	M23BMATM101	Mathematics – I for Mechanical stream	Basic Science	2	2	2	0	03	50	50	100	04
2	BS	BCHEC102	M23BCHEC102	Applied Chemistry for Mechanical stream	Basic Science	2	2	2	0	03	50	50	100	04
3	ES	BCEDK103	M23BCEDK103	Computer-aided engineering Drawing	Respective Dept	2	0	2	0	03	50	50	100	03
4	ES-1	BESCK104x	M23BESK104x	Engineering Science Course-I	Respective Dept	2	0	2	0	03	50	50	100	03
5	ET-1	BETCK105x	M23BETK105x	Emerging Technology Course-I	Any Dept	3	0	0	0	03	50	50	100	03
		OR												
	PC	BPLCK105x	M23BPLK105x	Programming Language Course-I		2	0	2	0	03				
6	HS	BPWSK106	M23BPWSK106	Professional Writing Skills in English	Humanities/ Any Dept.	1	0	0	0	01	50	50	100	01
		OR												
		BENGK106	M23BENGK106	Communicative English										
7	HS	BICOK107	M23BICOK107	Indian Constitution	Humanities/ Any Dept.	1	0	0	0	01	50	50	100	01
		OR												
		BKSK107/ BKBK107	M23BKSK107/ M23BKBK107	Samskrutika Kannada/ Balake Kannada										
8	AE	BSFHK158	M23BSFHK158	Scientific Foundations of	Basic Science/ Any Dept.	1	0	0	0	01	50	50	100	01

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			Health										
		OR											
	BITDK158	M23BITDK158	Innovation and Design Thinking		1	0	0	0	01				
				Total						400	400	800	20

SDA-Skill Development Activities, **TD/PSB** – Teaching Department / Paper Setting Board, **BS** – Basic Science Course, **ES** – Engineering Science Courses, **ET** - Emerging Technology Course, **AE** –Ability Enhancement Course, **HSMS** – 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)

Credit Definition:	
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2- hours Tutorial **(T)** per week = **1Credit**	04- Credits (IC) are to be designed for 40 hours' theory and 12 – 14 hours of practical sessions
2- hours Practical/ Drawing **(P)** per week = **1Credit**	03- Credits courses are to be designed for 40 hours of Teaching – Learning Session
	02- Credits courses are to be designed for 25 hours of Teaching – Learning Session
2- hours Skill Development Actives **(SDA)** per week = **1Credit**	01- Credit courses are to be designed for 12 – 15 hours of Teaching – Learning sessions

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ES or ET of 03 credits Courses shall have only a theory component (L:T:P:S = 3:0:0:0) or if the nature the of course required practical earning syllabus shall be designed as an Integrated course (L:T:P:S = 2:0:2:0). **All 01 Credit –** courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ

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(ES-II) Engineering Science Courses - II					(ET-II) Emerging Technology Courses - II				
Code	Title	L	T	P	Code	Title	L	T	P
M23BESK104A	Introduction to Civil Engineering				M23BETK105A	Green Buildings			
M23BESK104B	Introduction to Electrical Engineering				M23BETK105B	Introduction to Nano Technology			
M23BESK104C	Introduction to Electronics Communication				M23BETK105C	Renewable Energy Sources			
M23BESK104D	Introduction to Mechanical Engineering				M23BETK105D	Waste Management			
M23BESK104E	Introduction to C Programming				M23BETK105E	Introduction to Internet of Things (IOT)			
					M23BETK105F	Introduction to Cyber Security			

(PL-I) Programming Language Courses - I				
Code	Title	L	T	P
M23BPLK105A	Introduction to Web Programming			
M23BPLK105B	Introduction to Python Programming			
M23BPLK105C	Basics of JAVA programming			
M23BPLK105D	Introduction to C++ Programming			

• The student has to select one course from the ES-I group.

• Civil Engineering Students shall opt for any one of the courses from the ES-I group except, BESCK104A Introduction to Civil Engineering

• The students have to opt for the courses from ES group without repeating the course either 1st or 2nd semester

• The students must select one course from either ET-I or PL-I group.

• If students study the subject from ET-I in 1st semester he/she has to select the course from PL-II in the 2nd semester and vice-versa

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II-Semester (Mechanical Engineering Stream) | **Physics Group(For the students attended 1ˢᵗsem under Chemistry group)**

Sl. No.	Course Area	Course Code Existing	Course Code To be Changed to	Course Title	TD/ PSB	Teaching Hours/Week Theory/ Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	BS	BMATM201	M23BMATM201	Mathematics – II for Me stream	Basic Science	2	2	2	0	03	50	50	100	04
2	BS	BPHYC202	M23BPHYC202	Applied Physics for ME Stream	Basic Science	2	2	2	0	03	50	50	100	04
3	ES	BEME203	M23 BEME203	Elements of Mechanical Engineering	Respective Dept	2	0	2	0	03	50	50	100	03
4	ES-II	BESCK204x	M23BESK204x	Engineering Science Course-II	Respective Dept	2	0	2	0	03	50	50	100	03
5	ET-II	BETCK205x	M23BETK205x	Emerging Technology Course-II	Any Dept	3	0	0	0	03	50 OR 50	50	100	03
		OR				OR								
	PC	BPLCK205x	M23BPLK205x	Programming Language Course-II		2	0	2	0	03				
6	HS	BENGK206 x	M23BENGK206 x	Communicative English	Humanities/ Any Dept.	1 OR	0	0	0	01	50	50	100	01
		OR												
		BPWSK206	M23BPWSK206	Professional Writing Skills in English										
7	HS	BKSKK207 BKBKK207	M23BKSKK207 M23BKBKK207	Samskrutika Kannada/ Balake Kannada	Humanities/ Any Dept.	1 OR	0	0	0	01	50	50	100	01
		OR												
		BICOK207	M23BICOK207	Indian Constitution										
8	AE	BIDTK258	M23BIDTK258	Innovation and Design Thinking	Basic Science/ Any Dept.	1	0	0	0	01	50	50	100	01
		OR				OR								
		BSFHK258	M23BSFHK258	Scientific Foundations of		1	0	0	0	01				

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				Health										
Total											400	400	800	20

SDA-Skill Development Activities, **TD/PSB** – Teaching Department / Paper Setting Board, **BS** – Basic Science Course, **ES** – Engineering Science Courses, **ET** - Emerging Technology Course, **AE** –Ability Enhancement Course, **HSMS** – 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)

Credit Definition:	04- Credits courses are to be designed for 50 hours of Teaching – Learning Session
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2- hours Practical/ Drawing **(P)** per week = **1Credit**	02- Credits courses are to be designed for 25 hours of Teaching – Learning Session
2- hours Skill Development Actives **(SDA)** per week = **1Credit**	01- Credit courses are to be designed for 12 – 15 hours of Teaching – Learning sessions

Student's Induction Program: Motivating (Inspiring) Activities under the Induction program – The main aim of the induction program is to provide newly admitted students abroad 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 fulfil 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 – I 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/ B.Tech.,/ B.Plan 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 4years 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 they are of entry to VTU. 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 hours' 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.

ES or ET of 03 credits Courses shall have only a theory component (L:T:P:S = 3:0:0:0) or if the nature the of course required practical earning syllabus shall be designed as an Integrated course (L:T:P:S = 2:0:2:0). **All 01 Credit –** courses shall have the SEE of 01 hours duration and the pattern of the question paper shall be MCQ

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Ref: MITM/1ˢᵗ Yr/ME Stream/Scheme/2023-24/001

(ES-II) Engineering Science Courses - II					(ET-II) Emerging Technology Courses - II				
Code	Title	L	T	P	Code	Title	L	T	P
M23BESK204A	Introduction to Civil Engineering				M23BETK105A	Green Buildings			
M23BESK204B	Introduction to Electrical Engineering				M23BETK105B	Introduction to Nano Technology			
M23BESK204C	Introduction to Electronics Communication				M23BETK105C	Renewable Energy Sources			
M23BESK204D	Introduction to Mechanical Engineering				M23BETK105D	Waste Management			
M23BESK204E	Introduction to C Programming				M23BETK105E	Introduction to Internet of Things (IOT)			
					M23BETK105F	Introduction to Cyber Security			

(PL-II) Programming Language Courses - II				
Code	Title	L	T	P
M23BPLK205A	Introduction to Web Programming			
M23BPLK205B	Introduction to Python Programming			
M23BPLK205C	Basics of JAVA programming			
M23BPLK205D	Introduction to C++ Programming			

• The student has to select one course from the ES-II group.

• Civil Engineering Students shall opt for any one of the courses from the ES-II group except, M23BESCK204A -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 ET-II or PL-II group.

• If students study the subject from ET-I in 1st semester he/she has to select the course from PL-II in the 2nd semester and vice-versa