



Maharaja Education Trust (R), Mysuru
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
 An Autonomous Institute affiliated to Visvesvaraya Technological University, Belagavi
 Belawadi, Srirangapatna Taluk, Mandya – 571 477



Approved by AICTE, New Delhi | Recognized by Govt. of Karnataka

Ref: MITM/ME/Scheme (B.E)/2023-24/110



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

III-Semester-Branch

Sl. No.	Course Area	Course Code	Course Title	TD/PSB	Teaching Hours/Week				Examination				Credits
					Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BS	M23BMATM301	Mathematics – III for ME	Basic Science	2	2	0	0	03	50	50	100	3
2	PC	M23BME302	Mechanics of Materials	ME	3	0	0	0	03	50	50	100	3
3	PC	M23BME303	Metal Casting and Forming	ME	3	0	0	0	03	50	50	100	3
4	IPC	M23BME304	Material Science and Engineering	ME	3	0	2	0	03	50	50	100	4
5	PC	M23BME305	Basic Thermodynamics	ME	2	2	0	0	03	50	50	100	3
6	ES	M23BME306X	ESC/ETC/PLC	ME	3	0	0	0	03	50	50	100	3
7	PCL	M23BMEL307	Introduction to Modelling and Design for Manufacturing	ME	0	0	2	0	03	50	50	100	1
8	AE	M23BSCK308	Social Connect and Responsibility	Any Department	0	0	2	0	01	100	-	100	1
9	AE-III	M23BME309X	Ability Enhancement Course-III	ME	If the course is Theory				01	50	50	100	1
					1	0	0	0					
					If the course is Laboratory				02				
10	NCMC	M23BNSK310	National Service Scheme (NSS)	NSS coordinator	0	0	2	0	-	100	-	100	0
		M23BPEK310	Physical Education (PE) (Sports and Athletics)	PE Director									
		M23BYOK310	Yoga	Yoga Teacher									
11	BS	M23BDIPM311	Diploma Mathematics-I	Basic Science	2	0	0	0	00	50	00	50	0
									Total	600	400	1000	22

Notes:

- The total number of Credits for **CSE, CV, ECE, and ME** is **22** since they will be studying Mathematics III with 3 credits.
- The total number of Credits for **ISE, DS, BS, AI, AI&ML, IC, and CE** is **20** since they will be studying Biology for Engineers with 1 credit.

PC: Professional Core Course, **PCL:** Professional Core Course laboratory, **NCMC:** Non-Credit Mandatory Course, **AE:** Ability Enhancement Course, **L:** Lecture, **T:** Tutorial, **P:** Practical **S=SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **ES:** Engineering Science Course, **ETC:** Emerging



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Technology Courses, PLC -Programming Language Course, K :This letter in the course code indicates common to all the stream of engineering			
Engineering Science Course (ESC/ETC/PLC)[L-T-P::3-0-0]		Ability Enhancement Course – III	
Code	Title	Code	Title
M23BME306A	Electric and Hybrid Vehicle Technology	M23BME309A	Advanced Python Programming [0-0-2]
M23BME306B	Smart Materials & Systems	M23BME309B	Introduction To Virtual Reality
M23BME306C	Internet of Things (IoT)	M23BME309C	Spread sheet for Engineers
M23BME306D	Waste handling and Management		
<p>Professional Core Course (IPC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.</p> <p>National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.</p>			



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

IV-Semester-Branch

Sl. No.	Course Area	Course Code	Course Title	TD/PSB	Teaching Hours/Week				Examination				Credits
					Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	BS	M23BBIOK401	Biology for Engineers	Basic Science	1	0	0	0	03	50	50	100	1
2	IPC	M23BME402	Applied Thermodynamics	ME	3		2	0	03	50	50	100	4
3	PC	M23BME403	Machining Science & Metrology	ME	2	2	0	0	03	50	50	100	3
4	PC	M23BME404	Fluid Mechanics	ME	3	0	0	0	03	50	50	100	3
5	PC	M23BME405	Kinematics of Machines	ME	2	2	0	0	03	50	50	100	3
6	PCL	M23BMEL406	Mechanical Measurements and Metrology lab	ME	0	0	2	0	03	50	50	100	1
7	ES	M23BME407x	ESC/ETC/PLC	ME	3	0	0	0	03	50	50	100	3
8	AE-IV	M23BME408x	Ability Enhancement Course-IV	ME	If the course is Theory				01	50	50	100	1
					1	0	0	0					
					If the course is Laboratory				02				
					0	0	2	0					
9	AE	M23BUHK409	Universal human values course	Any Department	0	0	2	0	01	50	50	100	1
10	NMC	M23BNSK410	National Service Scheme (NSS)	NSS coordinator									
		M23BPEK410	Physical Education (PE) (Sports and Athletics)	PE Director	0	0	2	0	-	100	-	100	0
		M23BYOK410	Yoga	Yoga Teacher									
11	BS	M23BDIPM411	Diploma Mathematics-2	Basic Science	2	0	0	0	00	50	00	50	0
									Total	550	450	1000	20

Notes:

- The total number of Credits for **ISE, DS, BS, AI, AI&ML, IC, and CE** is **22** since they will be studying Mathematics III with 3 credits.
- The total number of Credits for **CSE, CV, ECE, and ME** is **20** since they will be studying Biology for Engineers with 1 credit.

PC: Professional Core Course, **PCL**: Professional Core Course laboratory, **NMC**: Non-Credit Mandatory Course, **AE**: Ability Enhancement Course, **L**: Lecture, **T**: Tutorial, **P**: Practical **S**= **SDA**: Skill Development Activity, **CIE**: Continuous Internal Evaluation, **SEE**: Semester End Evaluation. **ES**: Engineering Science Course, **ETC**: Emerging Technology Courses, **PLC**-Programming Language Course, **K** :This letter in the course code indicates common to all the stream of engineering



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Engineering Science Course (ESC/ETC/PLC)[L-T-P::3-0-0]		Ability Enhancement Course – IV	
Code	Title	Code	Title
M23BME407A	Non-Traditional Machining	M23BME408A	Introduction to AI & ML
M23BME407B	Die, Mold and Tool Engineering	M23BME408B	Digital Marketing
M23BME407C	Micro Electro Mechanical Systems (MEMS)	M23BME408C	Introduction to Data Analytics
M23BME407D	Robotics and Automation		

Professional Core Course (IPC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.



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Scheme of Teaching and Examination for BE (Autonomous Scheme-2023)

(Effective from the Academic Year 2023-24)

V-Semester-Branch

Sl. No.	Course Area	Course Code	Course Title	TD/PSB	Teaching Hours/Week				Examination			Credits	
					Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks		Total Marks
1	PC	M23BME501	Dynamics of Machines	ME	3	0	0	0	03	50	50	100	3
2	IPC	M23BME502	Turbo machines	ME	2	2	2	0	03	50	50	100	4
3	PC	M23BME503	CADM	ME	4	0	0	0	03	50	50	100	4
4	PCL	M23BMEL504	Machining & Foundry Lab	ME	0	0	2	0	03	50	50	100	1
5	PE	M23BME505x	Professional Elective -I	ME	3	0	0	0	03	50	50	100	3
6	PW	M23BME506	Mini Project Work	ME	0	0	4	0	03	100	-	100	2
7	AE	M23BRMK507	Research Methodology and IPR	ME	2	2	0	0	02	50	50	100	3
8	BS	M23BESK508	Environmental Studies	CV/ENV/CHE	2	0	0	0	02	50	50	100	2
9	NCCM	M23BNSK509	National Service Scheme (NSS)	NSS coordinator	0	0	2	0	-	100	-	100	0
		M23BPEK509	Physical Education (PE) (Sports and Athletics)	PE Director									
		M23BYOK509	Yoga	Yoga Teacher									
Total									500	300	800	22	

Professional Elective-I

Code	Title	Code	Title
M23BME505A	Automobile Engineering	M23BME505C	Supply chain management & Introduction to SAP
M23BME505B	Mechatronics	M23BME505D	Energy Engineering

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National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project: (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates. **No SEE component for Mini-Project.**

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.



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VI-Semester-Branch													
Sl. No.	Course Area	Course Code	Course Title	TD/PSB	Teaching Hours/Week				Examination				Credits
					Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	IPC	M23BME601	Heat Transfer	ME	2	2	2	0	03	50	50	100	4
2	PC	M23BME602	Machine Design	ME	3	2	0	0	03	50	50	100	4
3	PE	M23BME603x	Professional Elective -II	ME	3	0	0	0	03	50	50	100	3
4	OE	M23BME604x	Open Elective -I	ME	3	0	0	0	03	50	50	100	3
5	PW	M23BME605	Major Project Phase - I	ME	0	0	4	0	03	100	-	100	2
6	PCL	M23BMEL606	CNC Programming and 3-D Printing lab	ME	0	0	2	0	03	50	50	100	1
7	AE-V	M23BME607x	Ability Enhancement Course - V	ME	If the course is Theory				01	50	50	100	1
					1	0	0	0					
					If the course is Laboratory								
					0	0	2	0					
9	NCMC	M23BNSK608	National Service Scheme (NSS)	NSS coordinator	0	0	2	0	-	100	-	100	0
		M23BPEK608	Physical Education (PE) (Sports and Athletics)	PE Director									
		M23BYOK608	Yoga	Yoga Teacher									
Total									500	300	800	18	

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Professional Elective -II		Open Elective - I		Ability Enhancement - V	
Code	Title	Code	Title	Code	Title
M23BME603A	Additive manufacturing	M23BME604A	Non-Conventional Energy Resources	M23BME607A	Basics of MATLAB



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M23BME603B	Fracture Mechanics	M23BME604B	Power plant Engineering	M23BME607B	Simulation and Analysis using Ansys workbench
M23BME603C	Non-Destructive Testing	M23BME604C	Operations Research	M23BME607C	Introduction Augmented Reality
M23BME603D	Experimental Stress Analysis				

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Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students’ strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses: Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students’ strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

Project Phase-I : Students have to discuss with the mentor /guide and with their help he/she has to complete the literature survey and prepare the report and finally define the problem statement for the project work.



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Scheme of Teaching and Examination for BE (Autonomous Scheme-2023)

(Effective from the Academic Year 2023-24)

VII-Semester-Branch

Sl. No.	Course Area	Course Code	Course Title	TD/PSB	Teaching Hours/Week				Examination				Credits
					Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	MS	M23BME701	Industrial Management & Entrepreneurship	ME	3	0	0	0	03	50	50	100	3
2	IPC	M23BME702	Finite Element Methods	ME	3	0	2	0	03	50	50	100	4
3	PC	M23BME703	Control Engineering	ME	3	2	0	0	03	50	50	100	4
4	PE	M23BME704x	Professional Elective -III	ME	3	0	0	0	03	50	50	100	3
5	PE	M23BME705x	Professional Elective -IV	ME	3	0	0	0	03	50	50	100	3
6	PCL	M23BMEL706	Design lab	ME	0	0	2	0	03	50	50	100	1
7	PW	M23BME707	Major Project Phase - II	ME	0	0	9	0	03	100	100	200	5
Total									400	400	800	23	

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Professional Elective - III

Professional Elective -IV

Code	Title	Code	Title
M23BME704A	Tribology	M23BME705A	Organizational Behaviour
M23BME704B	IC Engines	M23BME705B	Total Quality Management
M23BME704C	Hydraulics and Pneumatics	M23BME705C	Engineering Economics
		M23BME705D	Operations Management

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Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will



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provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Major Project Phase - II :

CIE procedure for Project Work:

(1) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(2) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project Work: SEE for project work will be conducted by the two examiners appointed by the MIT Mysore. The SEE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25.



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(Effective from the Academic Year 2023-24)

VIII-Semester-Branch

Sl. No.	Course Area	Course Code	Course Title	TD/PSB	Teaching Hours/Week				Examination				Credits
					Theory/Lecture	Tutorial	Practical/Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	OE	M23BME801x	Open Elective –II	ME	3	0	0	0	03	50	50	100	3
2	OE	M23BME802x	Open Elective -III	ME	3	0	0	0	03	50	50	100	3
3	SR	M23BME803	Technical Seminar	ME	0	0	2	0	03	100	-	100	1
4	INT	M23BME804	Internship	ME	0	0	16	0	03	100	-	100	08
Total									200	200	400	15	

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Open Elective - II (Online Courses)

Open Elective – III (Online Courses)

Code	Title	Code	Title
M23BME801A		M23BME802A	
M23BME801B		M23BME802B	
M23BME801C		M23BME802C	
M23BME801D		M23BME802D	

Professional Core Course (IPC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.

Elucidation:

At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester **Research Internship /Industrial Internship / Rural Internship** shall be permitted to be operated simultaneously by the MIT Mysore so that students have ample opportunity for an internship. In other words, a good percentage of the class shall attend VII semester classwork and a similar percentage of others shall attend to Research Internship or Industrial Internship or Rural Internship. Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation centre, Incubation centre, Start-up, centre of Excellence (CoE), Study Centre established in



Maharaja Education Trust (R), Mysuru
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
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Ref: MITM/ME/Scheme (B.E)/2023-24/110



the parent institute and /or at reputed research organizations/institutes.

The mandatory Research internship /Industry internship / Rural Internship is for 14 to 20 weeks. The internship shall be considered as a head of passing and shall be considered for the award of a degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequent MIT Mysore examination after satisfying the internship requirements.

Research internship: A research internship is intended to offer the flavour of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry internship: Is an extended period of work experience undertaken by students to supplement their degree for professional development. It also helps them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints.

Rural Internship: Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departments studying in different academic years for exploring various opportunities in techno-social fields, to connect and work with Rural India for their upliftment.

The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship. The students are permitted to carry out the internship anywhere in India or abroad. MIT Mysore shall not bear any expenses incurred in respect of the internship.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (**within or outside the state or abroad**), provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide. **MIT Mysore shall not bear any cost involved in carrying out the internship by students.** However, students can receive any financial assistance extended by the organization.

Open Elective Course: These are ONLINE courses suggested by the respective Board of Studies and subjective the courses offered by NPTEL or any competitive agency during the applicable academic year.

Technical Seminar: Student's performance in Technical Seminar courses shall be assessed, and grades will be awarded by considering the performance in CIE only