

PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

DEPARTMENT OF MECHANICAL ENGINEERING

**Scheme of Examination for B.Tech.
in
Mechanical Engineering 2023-24**

PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR
DEPARTMENT OF MECHANICAL ENGINEERING
Scheme of Examination for B.Tech. in Mechanical Engineering 2023-24

Abbreviations Used

PCC	Professional Core Course (Program Courses)
PEC	Programme Elective Course (Program Courses)
MDM	Multidisciplinary Minor Course (Multidisciplinary Course)
OE	Open Elective (Multidisciplinary Course)
VSEC	Vocational & Skill enhancement Course (Skill Courses)
AEC	Ability Enhancement Course (Humanities Social Science & Management)
EEMC	Entrepreneurship/ Economics/ Management Courses (Humanities Social Science & Management)
IKS	Indian Knowledge System (Humanities Social Science & Management)
VEC	Value Education Course (Humanities Social Science & Management)
RM	Research Methodology (Experimental Learning Course)
CEP/FP	Comm. Engineering Project/ Field Project (Experimental Learning Course)
PR	Project (Experimental Learning Course)
INT	Inernship (Experimental Learning Course)
CC	Co-Curricular Courses (Liberal Learning Courses)

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Illustrative Semester wise Credit distribution structure for Four Year UG Engineering Program - One Major, One Minor

Semester		I	II	III	IV	V	VI	VII	VIII	Total Credits
Basic Science Course BSC/ESC	BSC/ESC	8	8							16
Engineering Science Course		7	7							14
Programme Core Course (PCC)	Program Courses		2	6	11	14	11	9	6	59
Programme Elective Course (PEC)						3	6	7		16
Multidisciplinary Minor (MDM)	Multidisciplinary Courses			2	2	2	4	2		12
Open Elective (OE) Other than a particular program				3	2	2				7
Vocational and Skill Enhancement Course (VSEC)	Skill Courses	2	2		2		2			8
Ability Enhancement Course (AEC -01, AEC-02)	Humanities Social Science and Management (HSSM)	2		2	2					6
Entrepreneurship/Economics/ Management Courses				2						2
Indian Knowledge System (IKS)			2							2
Value Education Course (VEC)				2	2					4
Research Methodology	Experiential Learning Courses							2		2
Comm. Engg. Project (CEP)/Field Project (FP)				2						2
Project								4		4
Internship/ OJT									12	12
Co-curricular Courses (CC)	Liberal Learning Courses	2	2							4
Total Credits (Major)		21	23	19	21	21	23	24	18	170

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I Semester

Sr. No.	Course Code	Course Category	BOS/ Dept	Course Name	Contact Hours				Mar ks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY1A1T	BSC	ASH	Basic calculus & differential equations	3	1	0	4	40	60	--	--	100
2	24UFY1B2T	BSC	ASH	Engineering Physics	3	0	0	3	40	60			100
3	24UFY1B2P	BSC	ASH	Lab: Engineering Physics	0	0	2	1			25	25	50
4	24UFY1D3T	ESC	CV	Engineering Mechanics	3	0	0	3	40	60			100
5	24UFY1D3P	ESC	CV	Lab: Engineering Mechanics	0	0	2	1			25	25	50
6	24UFY1B4T	ESC	ME	Computer Aided Graphics.	1	0	0	1	20	30			50
7	24UFY1B4P	ESC	ME	Lab: Computer Aided Graphics	0	0	2	1			25	25	50
8	24UFY1A5P	ESC	ME	Lab: Engineering Workshop	0	0	2	1	--	-	25	25	50
9	24UFY1B6T	AEC	ASH	Communication skills	1	0	0	1	20	30			50
10	24UFY1B6P	AEC	ASH	Lab: Communicationskills	0	0	2	1			25	25	50
11	24UFY1A7P	SEC1	ASH	Skill Enhancement in Analytical Techniques	0	1	2	2	--	-	25	25	50
12	24UFY111P	CC1	ASH	Liberal Learning Course: Yoga and Meditation									
	24UFY112P			Liberal Learning Course: Physical Education(Sports)									
	24UFY113P			Liberal Learning Course:Music									
	24UFY114P			Liberal Learning Course:National Service Scheme(NSS)									
					11	2	14	21	160	240	200	150	750

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II Semester

Sr. No.	Course Code	Course Catego ry	BOS/ Dept	Course	Contact Hours				Marks				Total Marks
									Theory		Practical		
					L	T	P	Credits	CE	ESE	CE	ESE	
1	24UFY2C1T	BSC	ASH	Advanced Calculus &Statistics	3	1	0	4	40	60	--	--	100
2	24UFY2A2T	BSC	ASH	Engineering Chemistry	3	0	0	3	40	60	--	--	100
3	24UFY2A2P	BSC	ASH	Lab: Engineering Chemistry	0	0	2	1	--	--	25	25	50
4	24UFY2B3T	ESC	CSE	Computer Programming	2	0	0	2	20	30			50
5	24UFY2B3P	ESC	CSE	Lab: Computer Programming	0	0	2	1	--	--	25	25	50
6	24UFY2A4T	ESC	EE	Basics of Electrical & Electronics Engineering	3	0	0	3	40	60	--	--	100
7	24UFY2A4P	ESC	EE	Lab: Basics of Electrical & Electronics Engineering	0	0	2	1	--	--	25	25	50
8	24UFY2A5T	IKS	ASH	Indian Traditional knowledge	2	0	0	2	20	30	--	--	50
9	24UFY2A6P	SEC2	ASH	Skill Enhancement in Instrumental Techniques	0	1	2	2	--	--	25	25	50
10	24UFY221T	PCC	ME	Basic of Mechanical Engineering	2	0	0	2	20	30	--	--	50
	24UFY222T		AE	Aeronautical Introduction to aeronautical Engineering									
11	24UFY211P	CC2	ASH	Liberal Learning Course: Creative Arts	--	--	--	2	--	--	50	--	50
	24UFY212P			Liberal Learning Course: Professional Skills									
	24UFY213P			Liberal LearningCourse: Photography & Film making									
	24UFY214P			Liberal LearningCourse: Foreign Language (German or French)									
					15	2	8	23	180	270	150	100	700

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III Semester

Sr. No.	Course Code	Category	BOS/ Dept	Course Name	Hours/ Week			Credits	Maximum Marks			ESE Duration (Hrs.)
					L	T	P		Continuous Evaluation	End Semester Exam	Total	
1	24UME301T	PCC	ME	Kinematics of Machines	2			2	20	30	50	02
2	24UME302T	PCC	ME	Material Engineering	2			2	20	30	50	02
3	24UME302P	PCC	ME	Material Testing			2	1	25	25	50	--
4	24UME303T	MDM	ASH	General Mathematical Techniques	2			2	20	30	50	02
5	24UME3XXT	OE	ME	Open Elective-01	3			3	40	60	100	03
6	24UME305T	AEC	ASH	Professional Communication	2			2	20	30	50	02
7	24UME306T	EEMC	ASH	Digital Economy and Management	2			2	20	30	50	02
8	24UME307T	VEC	ASH	Environmental Sciences	2			2	20	30	50	02
9	24UME308P	PCC	ME	M/C Drawing & Solid Modeling			2	1	25	25	50	00
10	24UME309P	CEP/FP	ME	Industry Interaction (Visit)			4	2	50	---	50	---
Total					15		8	19	260	290	550	13

Open Elective-01		
S.N.	Course Code	Course Name
1	24UOE340T	Entrepreneurship Development
2	24UOE341T	Introduction to Electric Vehicles
3	24UOE342T	Waste Management

Theory	Practical
07	03

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IV Semester

Sr. No.	Course Code	Category	BOS/ Dept	Course Name	Hours/ Week			Credits	Maximum Marks			ESE Duration (Hrs.)
					L	T	P		Continuous Evaluation	End Semester Exam	Total	
1	24UME401T	PCC	ME	Engineering Thermodynamics	2			2	20	30	50	02
2	24UME402T	PCC	ME	Fluid Mechanics and Hydraulic Machines	4			4	40	60	100	03
3	24UME402P	PCC	ME	Lab -Hydraulic Machines			2	1	25	25	50	--
4	24UME403T	PCC	ME	Dynamics of Machine	2			2	20	30	50	02
5	24UME403P	PCC	ME	Lab -Dynamics of Machine			2	1	25	25	50	--
6	24UME404P	VSEC	ME	Lab -Machine learning			4	2	25	25	50	--
7	24UME405P	PCC	ME	Lab -Python programming			2	1	25	25	50	--
8	24UAE405T/ 24URO406T	MDM	AE/RAI	Multidisciplinary Minor Course-02	2			2	20	30	50	02
9	24UOE4XXT	OE	ME	Open Elective-02	2			2	20	30	50	02
10	24UBS408T	EMC	ASH	Entrepreneurship Development and Startups	2			2	20	30	50	02
11	24UBS411T	VEC	ASH	Universal Human Values	2			2	20	30	50	02
Total					16		10	21	255	345	600	17

IV Semester

Open Elective-02		
S.N.	Course Code	Course Name
1	24UOE451T	Automobile Engineering
2	24UOE452T	Project Evaluation & Management
3	24UOE453T	Project & Cost Management

Multidisciplinary Minor Course-02		
S.N.	Course Code	Course Name
1	24UAE405T	Basics of Aircraft Propulsion
2	24URO406T	Numerical Python & Pandas

Theory	Practical
07	04

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V Semester

Sr. No.	Course Code	Category	BOS/ Dept	Course Name	Hours/ Week			Credits	Maximum Marks			ESE Duration (Hrs.)
					L	T	P		Continuous Evaluation	End Semester Exam	Total	
1	25UME501T	PCC	ME	Manufacturing Processes	3			3	40	60	100	03
2	25UME501P	PCC	ME	Lab-Manufacturing Processes			2	1	25	25	50	
3	25UME502T	PCC	ME	Strength of Materials	4			4	40	60	100	03
4	25UME502P	PCC	ME	Lab-Strength of Materials			2	1	25	25	50	
5	25UME503T	PCC	ME	Heat Transfer	3			3	40	60	100	03
6	25UME503P	PCC	ME	Lab-Heat Transfer			2	1	25	25	50	
7	25UME5XXT	PEC	ME	PEC-I	3			3	40	60	100	03
8	25UME504P	MDM	ME	Lab-Employability Enhancement Skill			4	2	50		50	
9	25UME5XXT	OE	ME	Open Elective-03	2			2	20	30	50	02
10	25UME505P	PCC	ME	Lab-MATLAB Programming			2	1	25	25	50	
Total					15		12	21	330	370	700	14

V Semester

Programme Elective Course (PEC)-I		
S.N.	Course Code	Course Name
1	25UME521T	Advanced Manufacturing Techniques
2	25UME522T	Industrial Robotics,
3	25UME523T	Internal Combustion Engines,
4	25UME524T	Production Planning and Control
5	25UME525T	Material Handling Systems
6	25UME526T	Introduction to Computational Fluid Dynamics

Open Elective-03		
S.N.	Course Code	Course Name
1	25UOE550T	Industrial Robotics
2	25UOE551T	Introduction to Renewable Energy Sources
3	25UOE552T	Industrial Safety & Environment

Multidisciplinary Minor (MDM)		
S.N.	Course Code	Course Name
1	25UME504P	Employability Enhancement Skill

Theory	Practical
05	05

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VI Semester

Sr. No.	Course Code	Category	BOS/ Dept	Course Name	Hours/ Week			Credits	Maximum Marks			ESE Duration (Hrs.)
					L	T	P		Continuous Evaluation	End Semester Exam	Total	
1	25UME601T	PCC	ME	Machining Processes	2			2	20	30	50	2
2	25UME601P	PCC	ME	Lab - Machining Processes			2	1	25	25	50	
3	25UME602T	PCC	ME	Automation in Production	2			2	20	30	50	2
4	25UME602P	PCC	ME	Lab - Automation in Production			2	1	25	25	50	
5	25UME603T	PCC	ME	Design of Machine Elements	2			2	20	30	50	2
6	25UME604T	PCC	ME	Energy Conversion-I	2			2	20	30	50	2
7	25UME6XXT	PEC	ME	PEC-II	3			3	40	60	100	3
8	25UME6XXP	PEC	ME	Lab - PEC-II			2	1	25	25	50	
9	25UME6XXT	PEC	ME	PEC-III	2			2	20	30	50	2
10	25UAE606T/ 25URO606T	MDM	RAI/AE	Multidisciplinary Minor Course-04	3			3	20	30	50	2
11	25UAE606P/ 25URO606P	MDM	RAI/AE	Lab - Multidisciplinary Minor Course-04			2	1	25	25	50	
12	25UME606P	PCC	ME	Lab - Robot Programming			2	1	25	25	50	
13	25UME607P	VSEC	ME	Lab - Tool Designing			4	2	50	--	50	
Total					16		14	23	335	365	700	15

VI Semester

Programme Elective Course (PEC)-II (Theory)		
S.N	Course Code	Course Name
1	25UME621T	Mechatronics
2	25UME622T	Design of Transmission System
3	25UME623T	Refrigeration and Air-conditioning
4	25UME624T	Computer Integrated Manufacturing Techniques
5	25UME625T	Mechanical Vibrations
6	25UME626T	Industrial Fluid Power

Programme Elective Course (PEC)-II (Practical)		
S.N.	Course Code	Course Name
1	25UME621P	Mechatronics
2	25UME622P	Design of Transmission System
3	25UME623P	Refrigeration and Air-conditioning
4	25UME624P	Computer Integrated Manufacturing Techniques
5	25UME625P	Mechanical Vibrations
6	25UME626P	Industrial Fluid Power

Programme Elective Course (PEC)-III		
S.N	Course Code	Course Name
1	25UME631T	Industrial Engineering,
2	25UME632T	Synthesis of Mechanisms,
3	25UME633T	Automobile Engineering,
4	25UME634T	Operation Research
5	25UME635T	Power Plant Engineering
6	25UME636T	Introduction to Cryogenics

Multidisciplinary Minor Course		
S.N	Course Code	Course Name
1	25UAE606T	Fundamentals of Aerodynamics
2	25URO606T	Principles of Robotics

Theory	Practical
07	06

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VII Semester

Sr. No.	Course Code	Category	BOS/ Dept	Course Name	Hours/ Week			Credits	Maximum Marks			ESE Duration (Hrs.)
					L	T	P		Continuous Evaluation	End Semester Exam	Total	
1	26UME701T	RM	ME	Research Methodology	2			2	20	30	50	2
2	26UME702T	PCC	ME	Mechanical Measurement & Metrology	2			2	20	30	50	2
3	26UME702P	PCC	ME	Lab - Mechanical Measurement & Metrology			2	1	25	25	50	
4	26UME703T	PCC	ME	Computer aided Design	2			2	20	30	50	2
5	26UME703P	PCC	ME	Lab - Computer aided Design			2	1	25	25	50	
6	26UME704T	PCC	ME	Energy Conversion-II	2			2	20	30	50	2
7	26UME704P	PCC	ME	Lab - Energy Conversion-II			2	1	25	25	50	
8	26UME7XXT	PEC	ME	PEC-IV	3			3	40	60	100	3
9	26UME7XXP	PEC	ME	Lab - PEC-IV			2	1	25	25	50	
10	26UME7XXT	PEC	ME	PEC-V	3			3	40	60	100	3
11	26UAE704T/ 26URO705T	MDM	RAI/AE	Multidisciplinary Minor Course-05	2			2	20	30	50	2
12	26UME706P	PR	ME	Project			8	4	50	50	100	
Total					16		16	24	330	420	750	16

VII Semester

Programme Elective Course (PEC)-IV (Theory)		
S.N	Course Code	Course Name
1	26UME721T	Additive Manufacturing
2	26UME722T	Advanced Finite Element Analysis
3	26UME723T	Design of HVAC System
4	26UME724T	Cyber Physical Production Systems

Programme Elective Course (PEC)-IV (Practical)		
S.N.	Course Code	Course Name
1	26UME721P	Additive Manufacturing
2	26UME722P	Advanced Finite Element Analysis
3	26UME723P	Design of HVAC System
4	26UME724P	Cyber Physical Production Systems

Programme Elective Course (PEC)-V		
S.N	Course Code	Course Name
1	26UME731T	IOT in Mechanical Engineering
2	26UME732T	Stress Analysis
3	26UME733T	Renewable Energy Sources

Multidisciplinary Minor Course		
S.N	Course Code	Course Name
1	26UAE704T	Advanced Propulsion System
2	26URO705T	AI Driven Data Insights

Theory	Practical
07	05

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VIII Semester

Sr. No.	Course Code	Category	BOS/ Dept.	Course Name	Hours/ Week			Credits	Maximum Marks			ESE Duration (Hrs.)
					L	T	P		Continuous Evaluation	End Semester Exam	Total	
1	26UME801T	PCC	ME	Design Practice (NPTEL Course)	3			3	40	60	100	3
2	26UME802T	PCC	ME	Advanced Robotics (NPTEL Course)	3			3	40	60	100	3
3	26UME803P	INT	ME	Internship at Industry / Project			24	12	150	150	300	
Total					6		24	18	230	270	500	6

Theory	Practical
02	01

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B. Tech. Double Minors in R&AC Engineering

Sr. No.	Sem .	Course Code	Categor y	BOS/ Dept .	Course Name	Hours/ Week			Credi ts	Maximum Marks				Tota l Mar ks	ESE Duratio n (Hrs.)
										Theory		Practical			
						L	T	P		Conti nuous Evalu ation	End Semester Exam	Conti nuous Evalu ation	End Semes ter Exam		
1	4 th	24UDMME4T	PCC	ME	Fundamentals of HVAC & Thermofluids	3	0	0	3	40	60			100	03
2	4 th	24UDMME4P	PCC	ME	Lab: Basics of Refrigeration	0	0	2	1			25	25	50	--
3	5 th	25UDMME5T	PCC	ME	Applied HVAC Systems and Building Science	3	0	0	3	40	60			100	03
4	5 th	25UDMME5P	PCC	ME	Lab: Basics of Air-Conditioning	0	0	2	1			25	25	50	--
5	6 th	25UDMME6T	PCC	ME	Controls, Simulation & Smart HVAC	4	0	0	4	40	60			100	03
6	7 th	26UDMME7T	PCC	ME	Advanced Topics and Capstone Project	3	0	0	3	40	60			100	03
7	7 th	26UDMME7P	PCC	ME	Project	0	0	6	3			50	50	100	--
Total						13		10	18	160	240	100	100	600	12

Theory	Practical
04	03

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B. Tech. Honors in HVAC&R Engineering

Sr. No.	Sem .	Course Code	Catego ry	BOS/ Dept.	Course Name	Hours/ Week			Cr edi ts	Maximum Marks				Tot al Ma rks	ESE Durat ion (Hrs.)
						Theory		Practical							
						L	T	P		Conti nuous Evalu ation	End Semest er Exam	Contin uous Evaluat ion	End Semes ter Exam		
1	4 th	24UHSME4T	PCC	ME	Applied Thermodynamics and Load Analysis in HVAC&R Systems	3	0	0	3	40	60			100	03
2	4 th	24UHSME4P	PCC	ME	Lab: Basics of Refrigeration	0	0	2	1			25	25	50	--
3	5 th	25UHSME5T	PCC	ME	HVAC System Design and Component Selection	3	0	0	3	40	60			100	03
4	5 th	25UHSME5P	PCC	ME	Lab: Basics of Air-Conditioning	0	0	2	1			25	25	50	--
5	6 th	25UHSME6T	PCC	ME	HVAC System Integration, Energy Analysis, and Project Documentation	3	0	0	3	40	60			100	03
6	6 th	25UHSME6P	PCC	ME	Lab: HVAC System Integration, Energy Analysis, and Project Documentation	0	0	2	1			25	25	50	--
7	7 th	26UHSME6T	PCC	ME	Advanced HVAC Consulting Practice and Capstone Project	3	0	0	3	40	60			100	03
8	7 th	26UHSME6P	PCC	ME	Project	0	0	6	3			50	50	100	--
Total						13		10	18	160	240	125	125	650	12

Theory	Practical
04	03

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List of Multidisciplinary Minor Subject
MDM Basket (1) of ME from AE

Sr. No.	Semester	Subject	Subject Name	Board
1	3	MDM-01	General Mathematical Techniques	ASH
2	4	MDM-02	Basics of Aircraft Propulsion	AE
3	5	MDM-03	Employability Enhancement Skill	ME
4	6	MDM-04	Fundamentals of Aerodynamics	AE
5	7	MDM-05	Advanced Propulsion System	AE

MDM Basket (2) of ME from RAI

Sr. No.	Semester	Subject	Subject Name	Board
1	3	MDM-01	General Mathematical Techniques	ASH
2	4	MDM-02	Numerical Python & Pandas	RAI
3	5	MDM-03	Employability Enhancement Skill	ME
4	6	MDM-04	Principles of Robotics	RAI
5	7	MDM-05	AI Driven data Insights	RAI

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Exit Scheme of Mechanical Engineering

Certificate Course After B. Tech First year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hours				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	24UECCMET	PCC	ME	Introduction to Production Drawing	4	-	-	4	40	60	-	-	100	3 Hours
2	24UECCMEP	PCC	ME	Auto CAD 2D-Drafting	-	-	8	4	-	-	50	50	100	-
				Total	4	-	8	08	40	60	50	50	200	

Diploma Course After B. Tech Second year (08 credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	25UEDCMET	PCC	ME	Fundamental of Casting and Welding	4	-	-	4	40	60	-	-	100	3 Hours
2	25UEDCMEP	PCC	ME	Hands on Training on CAM	-	-	8	4	-	-	50	50	100	-
				Total	4	-	8	08	40	60	50	50	200	

B. Vocational Course After B. Tech Third Year (08 Credits)

Sr. No.	Course Code	Course Category	BOS/ Dept	Course	Contact Hour				Marks				Total Marks	ESE Duration
									Theory		Practical			
					L	T	P	Credits	CE	ESE	CE	ESE		
1	26UEBVMET	PCC	ME	Automobile Engineering	4	-	-	4	40	60	-	-	100	3 Hours
2	26UEBVMEP	PCC	ME	CAD Modeling of Automobile Component	-	-	8	4	-	-	50	50	100	-
				Total	4	-	8	08	40	60	50	50	200	

*Abbreviation: E: Exit Course, CC: Certificate Course, DC: Diploma Course, BV: B. Vocational