



MARATHWADA MITRA MANDAL'S
COLLEGE OF ENGINEERING
An Autonomous Institute Approved by AICTE New Delhi
Recognised by Directorate of Technical Education Mumbai
Affiliated to Savitribai Phule Pune University

- NAAC Accredited with A++ Grade
- NBA Accredited
- 'Best College Award 2019' by SPPU

COURSE STRUCTURE 2025-26

First Year M. Tech Computer Engineering: SEMESTER I															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs./Week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
CE24PCC501	Applied Algorithms	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
CE24PCC502	Distributed Operating System	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
CE24PCC503	Computer Vision	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
CE24PEC504	Elective - I	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
CE24PCC505	Program Core Lab I	PCC	-	4		-	-	-	-	50	50	-	2	-	2
CE24RMD506	Program Elective Lab I	RMD	-	4		-	-	50	-	-	50	-	2	-	2
Total			12	8	4	250	150	50	-	50	500	12	4	4	20

CE24PEC504		Elective - I	
CE24PEC504A	Data Science	CE24PEC504C	Blockchain Technology
CE24PEC504B	Artificial Intelligence	CE24PEC504D	High Performance Computing


HOD


Dean Academics




Principal

www.mmcoe.edu.in
E: mmcoe@mmcoe.edu.in

(020) 25479811/12
M: (+91) 7720097780 / 81 / 82

Sr. No. 18, Plot No. 5/3, CTS No- 205,
Karvenagar, Pune- 411052



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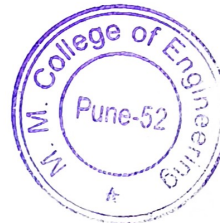
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First Year M. Tech Computer Engineering – SEMESTER II															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs./Week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
CE24PCC551	Advanced Databases	PCC	4	-		50	50	-	-	-	100	4	-	-	4
CE24PCC552	Software Architecture and Component-Based Design	PCC	4	-		50	50	-	-	-	100	4	-	-	4
CE24PCC553	Natural Language Processing	PCC	4	-		50	50	-	-	-	100	4	-	-	4
CE24PEC554	Elective – II	PEC		-	4	100	-	-	-	-	100	-	-	4	4
CE24PCC555	Program Core Lab II	PCC	-	4		-	-	-	-	50	50	-	2	-	2
CE24RMD556	Program Elective Lab II	RMD	-	4		-	-	50	-	-	50	-	2	-	2
CE24HSSM557	Introduction to Constitution	HSSM	-	-	2	50	-	-	-	-	50	-	-	2	2
Total			12	8	6	300	150	50	-	50	550	12	4	6	22

CE24PEC554	Elective – II		
CE24PEC554A	Web Intelligence	CE24PEC554C	Cyber Security
CE24PEC554B	Internet of Things	CE24PEC554D	Deep Learning


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Second Year M. Tech Computer Engineering - SEMESTER III

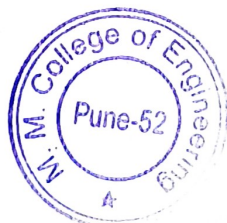
Course Code	Course Name	Course Type	Teaching Scheme(Hrs/Week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	ODL	P	Total
CE24RMD601	Research Proposal and Intellectual Property Rights	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
CE24INT602	Internship	INT	-	-	16	-	-	200	-	-	200	-	-	8	8
CE24PRJ603	Dissertation Stage -I	PRJ	-	-	8	-	-	-	-	100	100	-	-	4	4
CE24VSE604	Skill Development	VSE	-	-	8	100	-	-	-	-	100	-	-	4	4
CE24VSE605	Cyber Security	VSE	4	-	-	100	-	-	-	-	100	-	4	-	4
Total			4	-	40	300	-	200	-	100	600	-	4	20	24

Second Year M. Tech Computer Engineering – SEMESTER IV

Course Code	Course Name	Course Type	Teaching Scheme(Hrs/Week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	ODL	P	Total
CE24PRJ651	Dissertation Stage II	PRJ	-	-	16	-	-	200	-	-	200	-	-	8	8
CE24PRJ652	Project Presentation	PRJ	-	-	16	-	-	-	-	200	200	-	-	8	8
CE24RMD653	Research Paper Writing	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
CE24HSSM654	Human Rights	HSSM	2	-	-	-	-	50	-	-	50	-	2	-	2
Total			2	-	40	100	-	250	-	200	550	-	2	20	22


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COURSE STRUCTURE 2025-26

First Year M. Tech Data Science: SEMESTER I															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs./Week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
IT24PCC501	Mathematics for Data Analytics	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
IT24PCC502	Research Methodology	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
IT24PCC503	Applied Data Science	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
IT24PEC504	Elective - I	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
IT24PCC505	Program Core Lab I	PCC	-	4	-	-	-	-	-	50	50	-	2	-	2
IT24RMD506	Program Elective Lab I	RMD	-	4	-	-	-	50	-	-	50	-	2	-	2
Total			12	8	4	250	150	50	-	50	500	12	4	4	20

Elective - I			
IT24PEC504			
IT24PEC504A	Applied Data Analytics	IT24PEC504C	AI Cloud Engineering
IT24PEC504B	Data Mining & Warehousing	IT24PEC504D	Soft Computing

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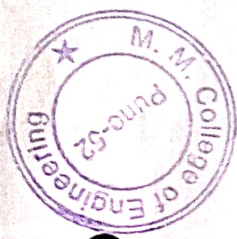
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First Year M. Tech Data Science – SEMESTER II															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs./Week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
IT24PGC551	Blockchain Technology	PCC	4	-		50	50	-	-	-	100	4	-	-	4
IT24PCC552	Artificial Intelligence	PCC	4	-		50	50	-	-	-	100	4	-	-	4
IT24PCC553	Big Data Analytics and Visualization	PCC	4	-		50	50	-	-	-	100	4	-	-	4
IT24PEC554	Elective – II	PEC		-	4	100	-	-	-	-	100	-	-	4	4
IT24PCC555	Program Core Lab II	PCC	-	4		-	-	-	-	50	50	-	2	-	2
IT24RMD556	Program Elective Lab II	RMD	-	4		-	-	50	-	-	50	-	2	-	2
IT24HSSM557	Introduction to Constitution	HSSM	-	-	2	50	-	-	-	-	50	-	-	2	2
Total			12	8	6	300	150	50	-	50	550	12	4	6	22

IT24PEC554	Elective – II		
IT24PEC554A	Web Intelligence	IT24PEC554C	Data Security
IT24PEC554B	Computer Vision	IT24PEC554D	Large Language Models

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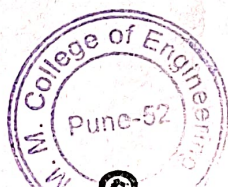
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Second Year M. Tech Data Science - SEMESTER III															
Course Code	Course Name	Course Type	Teaching Scheme(Hrs/Week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	ODL	P	Total
IT24RMD601	Research Proposal and Intellectual Property Rights	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
IT24INT602	Internship	INT	-	-	16	-	-	200	-	-	200	-	-	8	8
IT24PRJ603	Dissertation Stage -I	PRJ	-	-	8	-	-	-	-	100	100	-	-	4	4
IT24VSE604	Skill Development	VSE	-	-	8	100	-	-	-	-	100	-	-	4	4
IT24VSE605	Cyber Security	VSE	4	-	-	100	-	-	-	-	100	-	4	-	4
Total			4	-	40	300	-	200	-	100	600	-	4	20	24

Second Year M. Tech Data Science – SEMESTER IV															
Course Code	Course Name	Course Type	Teaching Scheme(Hrs/Week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	ODL	P	Total
IT24PRJ651	Dissertation Stage II	PRJ	-	-	16	-	-	200	-	-	200	-	-	8	8
IT24PRJ652	Project Presentation	PRJ	-	-	16	-	-	-	-	200	200	-	-	8	8
IT24RMD653	Research Paper Writing	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
IT24HSSM654	Human Rights	HSSM	2	-	-	-	-	50	-	-	50	-	2	-	2
Total			2	-	40	100	-	250	-	200	550	-	2	20	22

HOD



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Department of Electronics and Telecommunication Engineering

First Year M.Tech(E&TC) (VLSI and Embedded Systems)- SEMESTER I															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
ET24PCC501	CMOS Digital Design	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ET24PCC502	Advanced Power Electronics	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ET24PCC503	Embedded System Design and RTOS	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ET24PEC504	Elective I	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
ET24PCC505	Program Core Lab I	PCC	-	4	-	-	-	-	-	50	50	-	2	-	2
ET24RMD506	Research Methodology Lab I	RMD	-	4	-	-	-	50	-	-	50	-	2	-	2
Total			12	8	4	250	150	50	-	50	500	12	4	4	20

ET24PEC504 Elective-I Domain

ET24PEC504	Elective - I
ET24PEC504A	VLSI Physical Design
ET24PEC504B	Embedded System Design


HOD
Dr. A.S. Bhatlawande


Dr. B. W. Joshi
Dean Academics


Principal Dr. S. K. Khare



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Department of Electronics and Telecommunication Engineering

First Year M.Tech(E&TC) (VLSI and Embedded Systems) - SEMESTER II															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
ET24PCC551	Testing and Verification of VLSI Design	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ET24PCC552	Embedded System in IOT	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ET24PCC553	Embedded Systems in Automation and Machine Learning	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ET24PEC554	Elective II	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
ET24PCC555	Program Core Lab II	PCC	-	4	-	-	-	-	-	50	50	-	2	-	2
ET24RMD556	Research Methodology Lab II	RMD	-	4	-	-	-	50	-	-	50	-	2	-	2
ET24HSSM557	Introduction to Constitution	HSSM	-	-	2	50	-	-	-	-	50	-	-	2	2
Total			12	8	6	300	150	50	-	50	550	12	4	6	22

ET24PEC554 Elective-II Domain

ET24PEC554 Elective II

ET24PEC554A IC Design

ET24PEC554B Industrial Automation

Dr. A. S. Bhatkande
HOD

Dr. Vasgi
Dean Academics

Dr. Sakhare
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Department of Electronics and Telecommunication Engineering**Second Year M.Tech (E&TC) (VLSI and Embedded Systems) - SEMESTER III**

Course Code	Course Name	Course Type	Teaching Scheme(Hrs/W week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	ODL	P	Total
ET24RMD601	Research Proposal and Intellectual Property Rights	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
ET24INT602	Internship	INT	-	-	16	-	-	200	-	-	200	-	-	8	8
ET24PRJ603	Dissertation Stage -I	PRJ	-	-	8	-	-	-	-	100	100	-	-	4	4
ET24VSE604	Skill Development	VSE	-	-	8	100	-	-	-	-	100	-	-	4	4
ET24VSE605	Cyber Security	VSE	4	-	-	100	-	-	-	-	100	-	4	-	4
Total			4	-	40	300	-	200	-	100	600	-	4	20	24

Second Year M.Tech (E&TC) (VLSI and Embedded Systems) - SEMESTER IV

Course Code	Course Name	Course Type	Teaching Scheme(Hrs/W week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	ODL	P	Total
ET24PRJ651	Dissertation Stage II	PRJ	-	-	16	-	-	200	-	-	200	-	-	8	8
ET24PRJ652	Project Presentation	PRJ	-	-	16	-	-	-	-	200	200	-	-	8	8
ET24RMD653	Research Paper Writing	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
ET24HSSM654	Human Rights	HSSM	2	-	-	-	-	50	-	-	50	-	2	-	2
Total			2	-	40	100	-	250	-	200	550	-	2	20	22

HOD: A.S. Bhutlawande

Dr. V. S. Gai
Dean Academics

Principal: Dr. S. Sakhar



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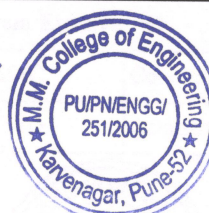
COURSE STRUCTURE 2025-26

First Year M. Tech Mechanical (Design Engineering): SEMESTER I															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs./Week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
ME24PCC501	Advanced Stress Analysis	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ME24PCC502	Advanced Mathematics for Engineers	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ME24PCC503	Mechanical Behaviour of Materials	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ME24PEC504	Program Elective - I	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
ME24PCC505	Program Core Lab - I	PCC	-	4	-	-	-	-	-	50	50	-	2	-	2
ME24RMD506	Program Elective Lab - I	RMD	-	4	-	-	-	50	-	-	50	-	2	-	2
Total			12	8	4	250	150	50	-	50	500	12	4	4	20

ME24PEC504	Program Elective - I		
ME24PEC504A	Structural Analysis	ME24PEC504C	Mechanisms and Machine Design
ME24PEC504B	Composite Structure	ME24PEC504D	Advanced Engineering Materials

Hodgaonkar
HOD (Mech.)

Thakur
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[Signature]
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First Year M. Tech Mechanical (Design Engineering): SEMESTER II

Course Code	Course Name	Course Type	Teaching Scheme (Hrs./Week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
ME24PCC551	Finite Element Method in Design Engineering	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ME24PCC552	Optimization Techniques in Design	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ME24PCC553	Mechanical Vibrations and Acoustics	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
ME24PEC554	Program Elective - II	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
ME24PCC555	Program Core Lab - II	PCC	-	4	-	-	-	-	-	50	50	-	2	-	2
ME24RMD556	Program Elective Lab - II	RMD	-	4	-	-	-	50	-	-	50	-	2	-	2
ME24HSSM557	Introduction to Constitution	HSSM	-	-	2	50	-	-	-	-	50	-	-	2	2
Total			12	8	6	300	150	50	-	50	550	12	4	6	22

ME24PEC554	Program Elective - II		
ME24PEC554A	Product Design	ME24PEC554C	Condition Based Monitoring
ME24PEC554B	Tribology	ME24PEC554D	Acoustics and Noise Control

Hodgaonkar
HOD (Mech.)

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Second Year M. Tech Mechanical (Design Engineering): SEMESTER III

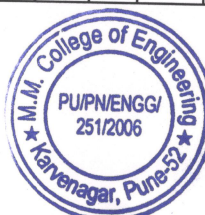
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/Week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	ODL	P	Total
ME24RMD601	Research Proposal and Intellectual Property Rights	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
ME24INT602	Internship	INT	-	-	16	-	-	200	-	-	200	-	-	8	8
ME24PRJ603	Dissertation Stage -I	PRJ	-	-	8	-	-	-	-	100	100	-	-	4	4
ME24VSE604	Skill Development	VSE	-	-	8	100	-	-	-	-	100	-	-	4	4
ME24VSE605	Cyber Security	VSE	4	-	-	100	-	-	-	-	100	-	4	-	4
Total			4	-	40	300	-	200	-	100	600	-	4	20	24

Second Year M. Tech Mechanical (Design Engineering) : SEMESTER IV

Course Code	Course Name	Course Type	Teaching Scheme (Hrs/Week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	ODL	P	Total
ME24PRJ651	Dissertation Stage II	PRJ	-	-	16	-	-	200	-	-	200	-	-	8	8
ME24PRJ652	Project Presentation	PRJ	-	-	16	-	-	-	-	200	200	-	-	8	8
ME24RMD653	Research Paper Writing	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
ME24HSSM654	Human Rights	HSSM	2	-	-	-	-	50	-	-	50	-	-	-	2
Total			2	-	40	100	-	250	-	200	550	-	2	20	22

Hodgaonkar
HOD (Mech.)

[Signature]
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Principal



Course Structure

FY: Sem-I M.Tech (Power Electronics and Drives) Electrical Engineering

AY : 2025-26

Pattern : 2025

Course Code	Course Name	Course Type	Teaching Scheme (Hrs./Week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
EE24PCC501	Advanced Semiconductor	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
EE24PCC502	Modelling and Analysis of Electrical Machines	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
EE24PCC503	Advanced Power Electronic Converters	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
EE24PEC504	Elective-I	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
EE24PCC505	Power Conversion and Analysis Lab	PCC	-	4	-	-	-	-	-	50	50	-	2	-	2
EE24RMD506	Research Lab- I	RMD	-	4	-	-	-	50	-	-	50	-	2	-	2
Total			12	8	4	250	150	50	-	50	500	12	4	4	20

EE24PEC504	Elective-I
EE24PEC504A	Power Quality
EE24PEC504B	Soft Computing
EE24PEC504A	Control System

FY: Sem-II M.Tech (Power Electronics and Drives) Electrical Engineering

AY : 2025-26

Pattern : 2025

Course Code	Course Name	Course Type	Teaching Scheme (Hrs./Week)			Examination Scheme						Credits			
			L	P	ODL	CIE	ETE	TW	PR	OR	Total	L	P	ODL	Total
EE24PCC551	Switched Mode Power Conversion	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
EE24PCC552	Special Machines	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
EE24PCC553	Advanced Control Systems	PCC	4	-	-	50	50	-	-	-	100	4	-	-	4
EE24PEC554	Elective II	PEC	-	-	4	100	-	-	-	-	100	-	-	4	4
EE24PCC555	Power Converters and Drives Lab	PCC	-	4	-	-	-	-	-	50	50	-	2	-	2
EE24RMD556	Research Lab- II	RMD	-	4	-	-	-	50	-	-	50	-	2	-	2
EE24HSSM557	Introduction to Constitution	HSSM	-	-	2	50	-	-	-	-	50	-	-	2	2
Total			12	8	6	300	150	50	-	50	550	12	4	6	22

EE24PEC554	Elective-I
EE24PEC554A	Industrial Automation
EE24PEC554B	Electric Vehicles
EE24PEC554C	Renewable Energy

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Course Structure

SY: Sem-III M.Tech (Power Electronics and Drives) Electrical Engineering

AY : 2025-26

Pattern : 2025

Course Code	Course Name	Course Type	Teaching Scheme(Hrs/Week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	P	OL/ODL	Total
EE24RMD601	Research Proposal and Intellectual Property Rights	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
EE24INT602	Internship	INT	-	-	16	-	-	200	-	-	200	-	-	8	8
EE24PRJ603	Dissertation Stage -I	PRJ	-	-	8	-	-	-	-	100	100	-	-	4	4
EE24SEM604	Skill Development	VSE	-	-	8	100	-	-	-	-	100	-	-	4	4
EE24VSE605	Cyber Security	VSE	4	-	-	100	-	-	-	-	100	-	4	-	4
Total			4	-	40	300	-	200	-	100	600	-	4	20	24

*Cyber Security: As per SPPU Circular number 254/2025 dated on 16/9/2025

*Skill Development : As per SPPU Circular number 254/2025 dated on 16/9/2025

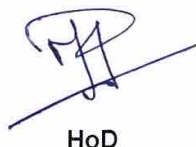
SY: Sem-IV M.Tech (Power Electronics and Drives) Electrical Engineering

AY : 2025-26

Pattern : 2025

Course Code	Course Name	Course Type	Teaching Scheme(Hrs/Week)			Examination Scheme						Credits			
			ODL	OL	P	CIE	ETE	TW	PR	OR	Total	L	P	OL	Total
EE24PRJ651	Dissertation Stage II	PRJ	-	-	16	-	-	200	-	-	200	-	-	8	8
EE24PRJ652	Project Presentation	PRJ	-	-	16	-	-	-	-	200	200	-	-	8	8
EE24RMD653	Research Paper Writing	RMD	-	-	8	100	-	-	-	-	100	-	-	4	4
EE24HSSM654	Human Rights	HSSM	2	-	-	-	-	50	-	-	50	-	2	-	2
Total			2	-	40	100	-	250	-	200	550	-	2	20	22

*Human Rights : As per SPPU Circular number 254/2025 dated on 16/9/2025


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