

Curriculum Structure Sem-III & IV

Second Year B.Tech Mechanical Engineering Semester-III															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
ME24PCC201	Thermofluidic	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
ME24PCC202	Solid Mechanics	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
ME24PCC203	Manufacturing Process	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	*MDM	MDM	2	-	-	40	60	-	-	-	100	2	-	-	2
ME24PCC205	Thermofluidic Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
ME24PCC206	Solid Mechanics Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
*	*MDM Lab	MDM	-	2	-	-	-	25	-	-	25	-	1	-	1
ME24CEP208	Experiential Learning Laboratory	CEP	-	4	-	-	-	50	-	-	50	-	2	-	2
ME24EEM209	Engineering Economics	EEM	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24VEC201	Environment Sustainability	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			11	10	4	160	240	175	100	-	675	11	5	4	20

* Refer separate MDM Booklet

Second Year B.Tech Mechanical Engineering Semester-IV															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
ME24PCC251	Applied Thermofluidic	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
ME24PCC252	Kinematics of Machines	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
ME24PCC253	Engineering Metallurgy	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	*Open Elective	OEL	3	-	-	40	60	-	-	-	100	3	-	-	3
ME24PCC255	Applied Thermofluidic Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
ME24PCC256	Kinematics of Machines Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
ME24VSE257	Solid Modeling	VSE	-	4	-	-	-	50	-	-	50	-	2	-	2
ME24VEC258	Industrial Engineering	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24AEC202	Professional Communication and Personality Development	AEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			12	8	4	160	240	150	100	-	650	12	4	4	20

* Refer separate OEL Booklet

L- Lecture

P- Practical

T- Tutorial

CIE-Continuous Internal Evaluation

ETE- End Term Examination

TW- Term work

PR- Practical

OR- Oral

L : 1 Hr. = 1 credit

P: 2 Hr. = 1 Credit

T: 1 Hr. = 1 Credit

H. Gaonkar
HOD (Mechanical)
Second Year Mechanical Engineering

R. Wadgaonkar
Dean Academics



[Signature]
Principal

Curriculum Structure Sem-III & IV

Second Year B. Tech Electrical Engineering - SEMESTER - III															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
EE24PCC201	Analog and Digital Electronics	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
EE24PCC202	Network Analysis	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
EE24PCC203	Power System- I	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	MDM TH	MDM	2	-	-	40	60	-	-	-	100	2	-	-	2
EE24PCC205	Analog and Digital Electronics Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
EE24PCC206	Network Analysis Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
*	MDM Lab	MDM	-	2	-	-	-	25	-	-	25	-	1	-	1
EE24CEP208	Project Based Learning Lab	CEP	-	4	-	-	-	50	-	-	50	-	2	-	2
EE24AEC209	Professional Ethics	AEC	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24VEC201	Environment Sustainability	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			11	10	4	160	240	175	100	-	675	11	5	4	20

* Refer separate MDM Booklet

Second Year B. Tech Electrical Engineering - SEMESTER-IV															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
EE24PCC251	Electrical Machines-I	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
EE24PCC252	Power Electronics	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
EE24PCC253	Electromagnetic Field Theory	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	Open Elective	OEL	3	-	-	40	60	-	-	-	100	3	-	-	3
EE24PCC255	Electrical Machines-I Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
EE24PCC256	Power Electronics Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
EE24VSE257	Programming & Simulation for Electrical Applications Lab	VSE	-	4	-	-	-	50	-	-	50	-	2	-	2
EE24VEC258	Industrial and Technology Management	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24AEC202	Professional Communication and Personality Development	AEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			12	8	4	160	240	150	100	-	650	12	4	4	20

* Refer separate OEL Booklet

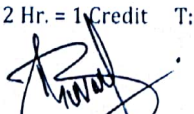
L- Lecture
ETE- End Term Examination
L: 1 Hr.= 1 credit

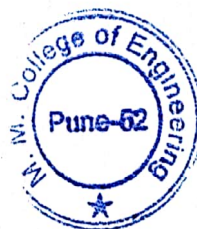
P- Practical
TW- Term work
P: 2 Hr. = 1 Credit

T- Tutorial
PR- Practical
T: 1 Hr. = 1 Credit

CIE-Continuous Internal Evaluation
OR- Oral


HOD


Dean Academics




Principal



Marathwada Mitra Mandal's

COLLEGE OF ENGINEERING, Karvenagar, Pune - 52

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Department of Electronics and Telecommunication Engineering

Curriculum Structure Sem-III

Second Year B.Tech Electronics and Telecommunication Engineering Semester-III															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
ET24PCC201	Digital Electronics	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
ET24PCC202	Data Structures & Algorithms	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
ET24PCC203	Network Analysis	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	*	MDM	2	-	-	40	60	-	-	-	100	2	-	-	2
ET24PCC205	Digital Electronics Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
ET24PCC206	Data Structures & Algorithms Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
*	*	MDM	-	2	-	-	-	25	-	-	25	-	1	-	1
ET24CEP208	Project Based Learning	CEP	-	4	-	-	-	50	-	-	50	-	2	-	2
ET24VEC209	E-Waste Management	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24AEC202	Professional Communication and Personality Development	AEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			11	10	4	160	240	175	100	-	675	11	5	4	20

* Refer separate MDM Booklet

L- Lecture
ETE- End Term Examination
L : 1 Hr.= 1 Credit

P- Practical
TW- Term work
P: 2 Hr. = 1 Credit

T- Tutorial
PR- Practical
T: 1 Hr. = 1 Credit

CIE-Continuous Internal Evaluation
OR- Oral

Dr. A. S. Bhatlawande

HOD

Dr. Bharati P. Vasgi

Dean Academics

Dr. Sachin Sakhare

Principal



Marathwada Mitra Mandal's

COLLEGE OF ENGINEERING, Karvenagar, Pune - 52

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Department of Electronics and Telecommunication Engineering

Curriculum Structure Sem- IV

Second Year B.Tech Electronics and Telecommunication Engineering Semester-IV

Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
ET24PCC251	Analog Electronics	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
ET24PCC252	Microcontroller and Interfacing	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
ET24PCC253	Signals and Systems	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	*	OEL	3	-	-	40	60	-	-	-	100	3	-	-	3
ET24PCC255	Analog Electronics Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
ET24PCC256	Microcontroller and Interfacing Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
ET24VSE257	Circuit & Systems Laboratory	VSE	-	4	-	-	-	50	-	-	50	-	2	-	2
ET24EEM258	Entrepreneurship Skills Development	EEM	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24PVEC201	Environment Sustainability	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			12	8	4	160	240	150	100	-	650	12	4	4	20

* Refer separate OEL Booklet

L- Lecture
ETE- End Term Examination
L : 1 Hr. = 1 Credit

P- Practical
TW- Term work
P : 2 Hr. = 1 Credit

T- Tutorial
PR- Practical
T : 1 Hr. = 1 Credit

CIE-Continuous Internal Evaluation
OR- Oral

Dr. A. S. Bhatlawande

HOD

Dr. Bharati P. Vasgi

Dean Academics

Dr. Sachin Sakhare

Principal



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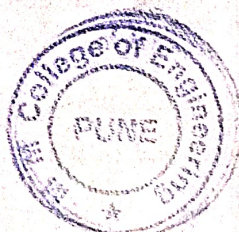
Second Year B.Tech Information Technology SEMESTER III

Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
IT24PCC201	Data Structures and Algorithms	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
IT24PCC202	Object Oriented Programming	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
IT24PCC203	Software Engineering and Modelling	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	MDM TH	MDM	2	-	-	40	60	-	-	-	100	2	-	-	2
IT24PCC205	Data Structures and Algorithms Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
IT24PCC206	Object Oriented Programming Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
*	MDM Lab	MDM	-	2	-	-	-	25	-	-	25	-	1	-	1
IT24CEP208	Community Centered Project	CEP	-	4	-	-	-	50	-	-	50	-	2	-	2
IT24VEC209	Problem Solving and Analytical Skills	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24AEC202	Professional Communication and Personality Development	AEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			11	10	4	160	240	175	100	-	675	11	5	4	20

Second Year B.Tech Information Technology SEMESTER IV

Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
IT24PCC251	Database Management Systems	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
IT24PCC252	Operating Systems	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
IT24PCC253	Computer Networks	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	Open Elective	OEL	3	-	-	40	60	-	-	-	100	3	-	-	3
IT24PCC255	Database Management Systems Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
IT24PCC256	Operating Systems Lab	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
IT24VSE257	Web Development	VSE	-	4	-	-	-	50	-	-	50	-	2	-	2
IT24EEM258	Startup Fundamentals and Financing	EEM	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24VEC201	Environment Sustainability	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			12	8	4	160	240	150	100	-	650	12	4	4	20

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DEAN ACADEMICS

PRINCIPAL



Curriculum Structure Sem-III & IV

Second Year B.Tech Computer Engineering Semester-III

Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
CE24PCC201	Data Structures	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
CE24PCC202	Object Oriented Programming	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
CE24PCC203	Digital Electronics and Computer Organization	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
CE24MDM204	*Multidisciplinary Minor Theory	MDM	2	-	-	40	60	-	-	-	100	2	-	-	2
CE24PCC205	Data Structures Laboratory	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
CE24PCC206	Object Oriented Programming Laboratory	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
CE24MDM207	*Multidisciplinary Minor Laboratory	MDM	-	2	-	-	-	25	-	-	25	-	1	-	1
CE24CEP208	Project based Learning	CEP	-	4	-	-	-	50	-	-	50	-	2	-	2
CE24EEM209	Human Values and Professional Ethics	EEM	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24VEC201	Environment Sustainability	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			11	10	4	160	240	175	100	-	675	11	5	4	20

* Refer separate MDM Booklet

Second Year B.Tech Computer Engineering Semester-IV

Course Code	Course Name	Course Type	Teaching Scheme (Hrs/week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
CE24PCC251	Database Management Systems	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
CE24PCC252	Principles of Programming Languages	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
CE24PCC253	Software Engineering	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
CE24OEL254	* Open Elective	OEL	3	-	-	40	60	-	-	-	100	3	-	-	3
CE24PCC255	Database Management Systems Laboratory	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
CE24PCC256	Principles of Programming Languages Laboratory	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
CE24VSE257	Web Technology	VSE	-	4	-	-	-	50	-	-	50	-	2	-	2
CE24VEC258	OS Workshop	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24AEC202	Professional Communication and Personality Development	AEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			12	8	4	160	240	150	100	-	650	12	4	4	20

L- Lecture
ETE- End Term Examination
L: 1 Hr= 1 credit

P- Practical
TW- Term work
P: 2 Hr= 1 Credit

T- Tutorial
PR- Practical
T: 1 Hr= 1 Credit

CIE-Continuous Internal Evaluation
OR- Oral

BOS Chairperson
(Dr. K. S. Thakre)

Dean Academics
(Dr. B. P. Vasgi)

Principal
(Dr. S. R. Sakhare)

Department of Artificial Intelligence and Data Science

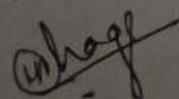
S.Y. B.Tech Curriculum Structure Sem-III and IV

Second Year B. Tech Artificial Intelligence and Data Science Semester- Semester III															
Course Code	Course Name	Course Type	Teaching Scheme (Hrs./week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
AI24PCC201	Problem Solving and Object-Oriented Programming	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
AI24PCC202	Operating System and Administration	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
AI24PCC203	Discrete Mathematics	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	*(Multi Disciplinary Minor Theory)	MDM	2	-	-	40	60	-	-	-	100	2	-	-	2
AI24PCC205	Problem Solving and Object-Oriented Programming Laboratory	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
AI24PCC206	Operating System and Administration Laboratory	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
*	*(Multi Disciplinary Minor Laboratory)	MDM	-	2	-	-	-	25	-	-	25	-	1	-	1
AI24CEP208	Engineering Design and Innovation Lab-I	CEP	-	4	-	-	-	50	-	-	50	-	2	-	2
AI24VEC209	Saint Traditions of India: Special reference to Maharashtra	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24AEC202	Professional Communication and Personality Development	AEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			11	10	4	160	240	175	100	-	675	11	5	4	20

Second Year B. Tech Artificial Intelligence and Data Science Semester- SEMESTER IV															
Course Code	Course Name	Course Type	Teaching Scheme(Hrs./week)			Examination Scheme						Credits			
			L	P	T	CIE	ETE	TW	PR	OR	Total	L	P	T	Total
AI24PCC251	Data Structure and Algorithms	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
AI24PCC252	Database Management System	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
AI24PCC253	Applied Statistics	PCC	3	-	-	40	60	-	-	-	100	3	-	-	3
*	*(Open Elective)	OEL	3	-	-	40	60	-	-	-	100	3	-	-	3
AI24PCC255	Data Structure and Algorithms Laboratory	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
AI24PCC256	Database Management System Laboratory	PCC	-	2	-	-	-	-	50	-	50	-	1	-	1
AI24VSE257	Engineering Design and Innovation Lab-II	VSE	-	4	-	-	-	50	-	-	50	-	2	-	2
AI24EEM258	Campus to Corporate	EEM	-	-	2	-	-	50	-	-	50	-	-	2	2
SH24VEC201	Media Literacy and Critical Thinking	VEC	-	-	2	-	-	50	-	-	50	-	-	2	2
Total			12	8	4	160	240	150	100	-	650	12	4	4	20

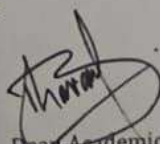
Abbreviations:

L- Lecture P- Practical T- Tutorial CIE-Continuous Internal Evaluation ETE- End Term Examination TW- Term work PR- Practical OR- Oral L: 1 Hr. = 1 credit P: 2 Hr. = 1 Credit T: 1 Hr. = 1 Credit



HoD AI&DS

Dr. Mrs. Manisha R. Dhage



Dean Academics

Dr. Bharati P. Vasagi



Principal
Dr. Sachin Sakhare