


Scheme of Instruction & Examination
B.E. I – SEMESTER
CIVIL ENGINEERING

Semester - I									
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			Hours Per week			Duration in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
Theory Courses									
1	2BS101 HS	Engineering Mathematics - I	3	1	0	4	40	60	4
2	2BS107 HS	Engineering Chemistry	3	1	0	4	40	60	4
3	2HS101 HS	English	2	0	0	2	40	60	2
4	2ES101CE	Engineering Mechanics-I	3	0	0	3	40	60	3
Laboratories									
5	2BS154 HS	Engineering Chemistry Lab	0	0	3	3	40	60	1.5
6	2HS151 HS	English Lab	0	0	2	2	40	60	1
7	2ES152 ME	Engineering Workshop Practice	0	0	4	4	40	60	2
8	2C151SP	Yoga/NSS/Sports	0	0	2	2	50	-	0
			11	2	11	24	330	420	17.5


 Head of the Department
 Department of H & S
 Methodist College of Engg. & Tech.
 Abids, Hyderabad-500 001

Semester - II									
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			Hours Per week			Duration in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
Theory Courses									
1	2BS202 HS	Engineering Mathematics - II	3	1	0	4	40	60	4
2	2BS205 HS	Engineering Physics	3	1	0	4	40	60	4
3	2ES202 CE	Engineering Mechanics -II	2	0	0	2	40	60	3
4	2ES202 EE	Elements of Electrical and Electronics Engineering	3	0	0	3	40	60	3
5	2MC20 ICE	Environmental Science	2	0	0	2	40	60	0
Laboratories									
6	2BS252 HS	Engineering Physics Lab	0	0	3	3	40	60	1.5
7	2ES252 EE	Elements of Electrical and Electronics Engineering Lab	0	0	2	2	40	60	1
8	2ES251 CE	Engineering Graphics Lab	1	0	4	5	40	60	3
			15	2	9	26	320	480	19.5

BS: Basic Sciences
Humanities and Sciences

ES: Engineering Sciences

HS:

MC: Mandatory Courses

CIE: Continuous Internal Evaluation

SEE: Semester End Examination


L: Lectures T : Tutorials P: Practicals D : Drawing

Note: 1). Each Contact Hour is a Clock hour

Anusha
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Scheme of Instruction & Examination
B.E. I – YEAR
(Common for CSE & AI&DS)

Semester - I									
S . N o	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Cre dits
			Hours Per week			Du rati on in Hr s	Maximum Marks		
			L	T	P/D		CIE	SE E	
Theory Courses									
1	BS101HS	Engineering Mathematics - I	3	1	0	4	40	60	4
2	BS104HS	Applied Physics	3	1	0	4	40	60	4
3	ES101CS	Programming for Problem Solving	3	0	0	3	40	60	3
4	ES102EE	Elements of Electrical and Electronics Engineering	3	0	0	3	40	60	3
5	MC101CE	Environmental Science	2	0	0	2	40	60	0
Laboratories									
6	BS151HS	Applied Physics Lab	0	0	3	3	40	60	1.5
7	ES151CS	Programming for Problem Solving Lab	0	0	2	2	40	60	1
8	ES152EE	Elements of Electrical and Electronics Engineering Lab	0	0	2	2	40	60	1
9	ES152CE	Engineering Graphics Lab	1	0	4	5	40	60	3
		Total							20.5


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 Abids, Hyderabad-500 003

Semester - II										
S N o	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credit s	
			Hours Per week			D u r a t i o n i n H r s	Maximum Marks			
			L	T	P/D		CIE	SEE		
Theory Courses										
1	BS202HS	Engineering Mathematics - II	3	1	0	4	40	60	4	
2	BS206HS	Chemistry	3	1	0	4	40	60	4	
3	HS201HS	English	2	0	0	2	40	60	2	
4	ES202CS	Data Structures	3	0	0	3	40	60	3	
Laboratories										
5	BS253HS	Chemistry Lab	0	0	3	3	40	60	1.5	
6	HS251HS	English Lab	0	0	2	2	40	60	1	
7	ES252CS	Data Structures lab	0	0	2	2	40	60	1	
8	ES252ME	Engineering Workshop Practice	0	0	1	4	40	60	2	
9	MC251SP	Yoga/NSS/Sports	0	0	2	2	50	-	0	
Total Credits										18.5

BS: Basic Sciences

ES: Engineering Sciences

HS: Humanities and Sciences

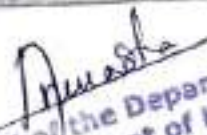
MC: Mandatory Courses

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L: Lectures T : Tutorials P: Practicals D : Drawing

Note: 1). Each Contact Hour is a Clock hour


 Head of the Department
 Department of H & S
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 Abids, Hyderabad-500 991

Scheme of Instruction & Examination
B.E. FIRST YEAR
ELECTRONICS AND COMMUNICATION ENGINEERING

Semester - I									
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			Hours Per week			Duration in Hrs	Maximum Marks		
			L	T	P/D		CIE	SE E	
Theory Courses									
1	5BS10 1HS	Engineering Mathematics - I	3	1	0	4	40	60	4
2	5BS10 6HS	Chemistry	3	1	0	4	40	60	4
3	5HS10 1HS	English	2	0	0	2	40	60	2
4	5ES103 ME	Elements of Mechanical Engineering	3	0	0	3	40	60	3
Laboratories									
5	5BS15 3HS	Chemistry Lab	0	0	3	3	40	60	1.5
6	5HS15 1HS	English Lab	0	0	2	2	40	60	1
7	5ES152 ME	Engineering Workshop Practice	0	0	4	4	40	60	2
8	5MC15 1SP	Yoga/NSS/Sports	0	0	2	2	50	-	0
		Total	11	2	11	24	330	420	17.5

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Semester - II									
S N o	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credit s	
			Hours Per week			D u r a t i o n i n H r s	Maximum Marks		
			L	T	P/D		CIE		SEE
Theory Courses									
1	5BS203HS	Engineering Mathematics - II	3	1	0	4	40	60	4
2	5BS204HS	Applied Physics	3	1	0	4	40	60	4
3	5ES201CS	Programming for Problem Solving	3	0	0	3	40	60	3
4	5ES202EE	Elements of Electrical Engineering	3	0	0	3	40	60	3
5	5MC201CE	Environmental Science	2	0	0	2	40	60	0
Laboratories									
6	5BS252HS	Applied Physics Lab	0	0	3	3	40	60	1.5
7	5ES251CS	Programming for Problem Solving Lab	0	0	2	2	40	60	1
8	5ES252EE	Elements of Electrical Engineering Lab	0	0	2	2	40	60	1
9	5ES252CE	Engineering Graphics Lab	1	0	4	5	40	60	3
		Total	15	2	9	26	320	480	20.5

BS: Basic Sciences
Humanities and Sciences

ES: Engineering Sciences

HS:

MC: Mandatory Courses

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lectures T: Tutorials P: Practicals D: Drawing

Note: 1). Each Contact Hour is a Clock hour

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Aruna
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Scheme of Instruction & Examination
B.E. FIRST YEAR
ELECTRICAL AND ELECTRONICS ENGINEERING

Semester - I									
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			Hours Per week			Duration in Hrs	Maximum Marks		
			L	T	P/D		CIE	SE E	
Theory Courses									
1	4BS101 HS	Engineering Mathematics - I	3	1	0	4	40	60	4
2	4BS106 HS	Chemistry	3	1	0	4	40	60	4
3	4HS101 HS	English	2	0	0	2	40	60	2
4	4ES103 CE	Engineering Mechanics	3	0	0	3	40	60	3
Laboratories									
5	4BS153 HS	Chemistry Lab	0	0	3	3	40	60	1.5
6	4HS151 HS	English Lab	0	0	2	2	40	60	1
7	4ES152 ME	Engineering Workshop Practice	0	0	4	4	40	60	2
8	4MC15 ISP	Yoga/NSS/Sports	0	0	2	2	50	-	0
		Total	11	2	11	24	330	420	17.5

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Semester - II									
S N o	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credit s
			Hours Per week			D u r a t i o n i n H o u r s	Maximum Marks		
			L	T	P/D		CIE	SEE	
Theory Courses									
1	4BS202HS	Engineering Mathematics - II	3	1	0	4	40	60	4
2	4BS204HS	Applied Physics	3	1	0	4	40	60	4
3	4ES203EE	Principles of Electrical and Electronics Engineering	3	0	0	3	40	60	3
4	4ES204ME	Principles of Mechanical Engineering	3	0	0	3	40	60	3
5	4MC201CE	Environmental Science	2	0	0	2	40	60	0
Laboratories									
6	4BS251HS	Applied Physics Lab	0	0	3	3	40	60	1.5
7	4ES253ME	Principles of Mechanical Engineering Lab	0	0	2	2	40	60	1
8	4ES252CE	Engineering Graphics Lab	1	0	4	5	40	60	3
		Total	15	2	9	26	320	480	19.5

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Humanities and Sciences

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Scheme of Instruction & Examination
B.E. I – SEMESTER
Mechanical Engineering

Semester - I									
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			Hours Per week			Duration in Hrs	Maximum Marks		
			L	T	P/D		CIE	SEE	
Theory Courses									
1	6BS101HS	Engineering Mathematics - I	3	1	0	4	40	60	4
2	6BS107HS	Engineering Chemistry	3	1	0	4	40	60	4
3	6HS101HS	English	2	0	0	2	40	60	2
4	6ES101ME	Engineering Mechanics-I	3	0	0	3	40	60	3
Laboratories									
5	6BS154HS	Engineering Chemistry Lab	0	0	3	3	40	60	1.5
6	6HS151HS	English Lab	0	0	2	2	40	60	1
7	6ES152ME	Engineering Workshop Practice	0	0	4	4	40	60	2
8	6C151SP	Yoga/NSS/Sports	0	0	2	2	50	-	0
Total			11	2	11	24	330	420	17.5

BS: Basic Sciences

ES: Engineering Sciences

HS: Humanities and Sciences

MC: Mandatory Courses

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lectures T: Tutorials P: Practicals D: Drawing

Note: Each Contact Hour is a Clock hour

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Ananda
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Semester - II									
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			Hours Per week			Duration in Hrs	Maximum Marks		
			L	T	PD		CIE	SEE	
Theory Courses									
1	6BS202HS	Engineering Mathematics - II	3	1	0	4	40	60	4
2	6BS205HS	Engineering Physics	3	1	0	4	40	60	4
3	6ES202ME	Engineering Mechanics - II	3	0	0	3	40	60	3
4	6ES202EE	Elements of Electrical and Electronics Engineering	3	0	0	3	40	60	3
5	6MC201CE	Environmental Science	2	0	0	2	40	60	0
Laboratories									
6	6BS252HS	Engineering Physics Lab	0	0	3	3	40	60	1.5
7	6ES252EE	Elements of Electrical and Electronics Engineering Lab	0	0	2	2	40	60	1
8	6ES251ME	Engineering Graphics Lab	1	0	4	5	40	60	3
Total			15	2	9	26	320	480	19.5

BS: Basic Sciences

ES: Engineering Sciences

HS: Humanities and Sciences


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CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lectures T: Tutorials P: Practicals D: Drawing


Note: Each Contact Hour is a Clock hour


 Head of the Department
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 Abids, Hyderabad-500 001

SCHEME OF INSTRUCTION AND EXAMINATION

B.E. (Civil Engineering) - III SEMESTER

S. No.	Course Category	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	Pr/Drg	Total Hours	CIE	SEE	
Theory Courses									
1	2BS303HS	Numerical Methods and Partial Differential Equations	3	1	-	4	40	60	4
2	2HS302HS	Managerial Economics & Financial Accountancy	3	-	-	3	40	60	3
3	2ES301CS	Programming for Problem Solving (C)	3	-	-	3	40	60	3
4	2PC301CE	Building Materials and Concrete Technology	3	-	-	3	40	60	3
5	2PC302CE	Solid Mechanics	3	-	-	3	40	60	3
6	2PC303CE	Surveying	3	-	-	3	40	60	3
7	2MC302HS	Essence of Indian Traditional Knowledge	2	-	-	2	40	60	-
Practical Courses									
8	2ES351CS	Programming for Problem Solving Laboratory (C)	-	-	2	2	40	60	1
9	2PC351CE	Surveying Laboratory	-	-	2	2	40	60	1
10	2PC352CE	Concrete Technology Laboratory	-	-	2	2	40	60	1
Total			20	1	6	27			22


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METHODIST COLLEGE OF ENGG. & TECH.
 King Koti Road, Abids, Hyderabad

SCHEME OF INSTRUCTION AND EXAMINATION

B.E. (Civil Engineering) - IV SEMESTER

S. No.	Course Category	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	Pr/Drg	Total Hours	CIE	SEE	
Theory Courses									
1	2HS403HS	Human Values and Professional Ethics	2	-	-	2	40	60	2
2	2ES403CS	Python Programming	2	-	-	2	40	60	3
3	2PC404CE	Mechanics of Materials and Structures	3	-	-	3	40	60	3
4	2PC405CE	Design of Reinforced Concrete Structures	3	-	-	3	40	60	3
5	2PC406CE	Fluid Mechanics	3	-	-	3	40	60	3
6	2PC407CE	Hydrology	2	-	-	2	40	60	2
7	2MC403HS	Constitution of India	2	-	-	2	40	60	-
Laboratory Courses									
8	2PC453CE	Mechanics of Materials Laboratory	-	-	2	2	40	60	1
9	2PC454CE	Building Drawing & Drafting Laboratory	-	-	2 x 3h	6	40	60	3
10	2ES453CS	Python Programming Lab	-	-	2	2	40	60	1
	PW	Practise School-1 (Short Internship) #							
Total			17	0	10	27			21


To be conducted after the IV Semester in the Summer Vacation and to be evaluated in V Semester

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SCHEME OF INSTRUCTION & EXAMINATION

B.E. (Civil Engineering) V- SEMESTER

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pr/Dr/g	CIE	SEE	
Theory Courses								
1	PC 409 CE	Theory of Structures	3	-	-	30	70	3
2	PC 410 CE	Soil Mechanics	3	-	-	30	70	3
3	PC 411 CE	Concrete Technology	3	-	-	30	70	3
4	PC 412 CE	Water Resources Engineering	3	-	-	30	70	3
5	PC 413 CE	Environmental Engineering	3	-	-	30	70	3
6	PC 414 CE	Construction Engineering & Management	3	-	-	30	70	3
Practical/ Laboratory Courses								
7	PC 455 CE	Soil Mechanics Laboratory	-	-	2	25	50	1
8	PC 456 CE	Concrete Technology Laboratory	-	-	2	25	50	1
9	PC 457 CE	Environmental Engineering Laboratory	-	-	2	25	50	1
10	PW701 CE	Survey Camp	-	-	-			1
			18	-	6			22


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SCHEME OF INSTRUCTION & EXAMINATION

B.E. (Civil Engineering) VI- SEMESTER

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pr/Drg	CIE	SEE	
Theory Courses								
1	HS 104 BM	Professional Practice & Ethics	2	-	-	30	70	2
2	PC 415 CE	Design of Steel Structures	3	-	-	30	70	3
3	PC 416 CE	Transportation Engineering	3	-	-	30	70	3
4	PE-1	Professional Elective – I	3	-	-	30	70	3
5	PE-2	Professional Elective - II	3	-	-	30	70	3
6	PE-3	Professional Elective - III	3	-	-	30	70	3
7	OE-I	Open Elective – I	3	-	-	30	70	3
Practical/ Laboratory Courses								
8	PC 458 CE	Transportation Engineering Laboratory	-	-	2	25	50	1
9	PC 459 CE	Computer Applications Laboratory	-	-	2	25	50	1
		Summer Internship*						
			18	-	6			22

* To be conducted after the VI Semester in the Summer Vacation and to be evaluated in VII Sem

Professional Elective – 1		
S. No.	Course Code	Course Title
1	PE 501 CE	Structural Analysis
2	PE 502 CE	Geotechnical Design
3	PE 503 CE	Open Channel Flows
4	PE 504 CE	Construction Equipment and Automation

Professional Elective – 2		
S. No.	Course Code	Course Title
1	PE 505 CE	Earthquake Resistant Design of Structures
2	PE 506 CE	Foundation Engineering
3	PE 507 CE	Ground Water Engineering
4	PE 508 CE	Sustainable Construction Methods

Professional Elective – 3		
S. No.	Course Code	Course Title
1	PE 509 CE	Advanced Concrete Technology
2	PE 510 CE	Road Safety Engineering
3	PE 511 CE	Design of Irrigation Structures
4	PE 512 CE	Infrastructure Engineering

For the academic years 2020-2024

Open Elective 1		
Sl.No	Code	Name of Subject
1	OE601 EE	Electrical Energy Conservation and Safety (Not for EEE & EIE Students)
2	OE602 EE	Reliability Engineering (Not for EEE & EIE Students)
3	OE611 AE	Basics of Automobile Engineering(Not for Mech./Prod./Automobile Engg. students)
4	OE611 ME	Industrial Robotics (Not for Mech./Prod./Automobile Engg. students)
5	OE601 EG	Soft Skills & Interpersonal Skills
6	OE602 MB	Human Resource Development and Organizational Behaviour
7	OE601 LW	Cyber Law and Ethics
8	OE601 CS	Operating Systems (Not for CSE Students)
9	OE602 CS	OOP using Java (Not for CSE Students)
10	OE601 IT	Database Systems (Not for IT Students)
11	OE602 IT	Data Structures (Not for IT Students)
12	OE601 CE	Disaster Mitigation (Not for Civil Engg. Students)

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SCHEME OF INSTRUCTION & EXAMINATION
B.E. – VII SEMESTER (CIVIL ENGINEERING)
AICTE MODEL CURRICULUM (for 2018-2022 & 2019-2023 Batches)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	Pr/Dr/g	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC401CE	Construction Engineering and Management	3	-	-	3	30	70	3	3
2	PC402CE	Prestressed Concrete	3	-	-	3	30	70	3	3
3	PE	Professional Elective - IV	3	-	-	3	30	70	3	3
4	PE	Professional Elective - V	3	-	-	3	30	70	3	3
5	OE	Open Elective - II	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
6	PR401CE	Seminar*	-	-	4	4	25	-	3	2
7	PW401CE	Project - I	-	-	4	4	50	-	-	2
			15	-	8	23	225	350		19

*Technical Report and Seminar / based on summer industrial Internship/Mini Project

Professional Elective – 4			Professional Elective – 5		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	PE401CE	Design of Concrete Structures - II	1	PE405CE	Advanced Steel Design
2	PE402CE	Urban Transportation Planning	2	PE406CE	Retrofitting and Rehabilitation of Structures
3	PE403CE	Surface Hydrology	3	PE407CE	Highway Construction and Management
4	PE404CE	Disaster Mitigation and Management	4	PE408CE	Geographic Information Systems and Remote sensing

Open Elective – II		
1	OE421 ME	Entrepreneurship (Not for Mech/Prod Engg students)
2	OE402 CE	Green Building Technologies (Not for Civil Engg students)
3	OE402 CS	Data science using R (Not for CS students)
4	OE403 IT	Cyber security (Not for IT students)
5	OE402 EE	Transducers And Sensors (Not for EEE & EIE Students)

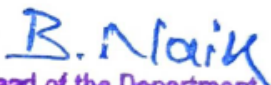
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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Civil Engineering) VIII- SEMESTER
AICTE MODEL CURRICULUM (for 2018-2022 & 2019-2023 Batches)

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pro/Drg	CIE	SEE	
Theory Courses								
1	MC	Gender Sensitization	2	-	-	30	70	-
2	PE	Professional Elective – VI	3	-	-	30	70	3
3	PE	Professional Elective - VII	3	-	-	30	70	3
4	OE	Open Elective -III	3	-	-	30	70	3
Practical/ Laboratory Courses								
5	PW 704 CE	Project Work - II	-	-	12	50	100	6
			8	-	12	170	380	15

Open Elective – III		
1	OE605 EE	Smart Building Systems (Not for EEE & EIE Students)
2	OE606 EE	Programmable Logic Controllers (Not for EEE & EIE Students)
3	OE631 AE	Automotive Maintenance (Not for Mech./Prod./Automobile Engg. students)
4	OE631 ME	Mechatronics (Not for Mech./Prod./Automobile Engg. students)
5	OE603 CE	Road Safety Engineering (Not for Civil Engg. Students)
6	OE604 IT	Software Engineering (Not for IT Students)

Professional Elective – 6			Professional Elective – 7		
S.No	Course code	Course title	S.No	Course code	Course title
1	PE409CE	Finite Element Techniques	1	PE413CE	Concrete Technology
2	PE410CE	Principles of Climate Change	2	PE414CE	Water and Air quality
3	PE411CE	Principle of green buildings	3	PE415CE	Intelligent transportation systems
4	PE412CE	Construction Equipment and Automation	4	PE416CE	Infrastructure Engineering


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 King Koh Road, Abids, Hyderabad

CSE Semester - IV									
S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P/D	Contact Hours / week	CIE	SEE	
Theory Courses									
1	3HS404HS	Optimization & Problem Solving Techniques	3	0	0	3	40	60	3
2	3PC404CS	Data Mining	3	1	0	4	40	60	4
3	3PC405CS	Operating Systems	3	0	0	3	40	60	3
4	3PC406CS	Computer Networks	3	0	0	3	40	60	3
5	3HS403HS	Human Values Professional Ethics	2	0	0	2	40	60	2
Practical / Laboratory Courses									
6	3PC455CS	Operating Systems Lab	0	0	2	2	40	60	1
7	3PC456CS	Computer Networks Lab	0	0	2	2	40	60	1
8	3PC457CS	Java Programming Lab	0	0	2*2	4	40	60	2
9	3PW458CS	Skill Development Course- II	0	0	2	2	40	60	1
Total Credits						25	360	540	20


 Head of the Department
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**SCHEME OF INSTRUCTION & EXAMINATION
B.E (Computer Science and Engineering)
SEMESTER-VI**


S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs/Wk	
Theory Courses										
1	PC 601 CS	Compiler Design	3	1	-	4	30	70	3	3
2	PC 602 CS	Design and Analysis of Algorithms	3	1	-	4	30	70	3	3
3	PC 603 CS	Machine learning	3	1	-	4	30	70	3	3
4	PC-604 CS	Cryptography and Network Security	3	-	-	3	30	70	3	3
5	PE-62X CS	Professional Elective -II	3	-	-	3	30	70	3	3
6	OE-I	Open Elective-I	3	-	-	3	30	70	3	3
Practical/Laboratory Courses										
7	PC 651 CS	Machine learning LAB	-	-	2	2	25	50	3	1
8	PC 652 CS	Design and Analysis of Algorithms Lab	-	-	2	2	25	50	3	1
9	PW 653 CS	Mini Project	-	-	4	4	25	50	3	2
10	SI 671 CS	Summer Internship*	-	-	-	-	-	-	-	-
Total			18	3	8	29	255	570		22

Profession Elective - II

Course Code	Course Title
PE 621 CS	Quantum Computing
PE 622 CS	Advanced Computer Architecture
PE 623 CS	Image Processing
PE 624 CS	Software Testing
PE 625 CS	Data Mining
PE 626 CS	Mobile Computing

Open Elective - I

Course Code	Course Title
OE601 CS	OOP using Java (Not for CSE Students)
OE602 CS	Data Structure and Algo. (Not for CSE Students)


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BE(CSE) SEMESTER-VIII SCHEME:-

Sl.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PE-VI	Professional Elective – VI	3	-	-	3	30	70	3	3
2	OE-III	Open Elective – III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	PW861 CS	Project Work – II	-	-	16	16	50	100	-	8
			06	-	16	22	110	240	06	14

Profession Elective – VI		
Sl.	Course Code	Course Title
1	PE 827 CS	Mobile Computing
2	PE 828 CS	Semantic Web & Social Networking
3	PE 829 CS	Cyber Security & Forensics

Open Elective III	
Course Code	Course Title
OE 801 CE	Road Safety Engineering
OE 801CS**	Fundamentals of AI & ML
OE801EE	Smart Building Systems
OE802EE	Programmable Logic Controllers
OE801EC	Principles of Electronic Communications
OE801 IT**	Software Engineering
OE801ME	3D Printing Technologies
OE801AE	Elements Of Electric And Hybrid Vehicle Technology

Note- : ** Subject is not offered to the students of CSE and IT Department.

PC: Professional Course
MC: Mandatory Course

HS: Humanities and Sciences

L: Lectures **T:** Tutorials

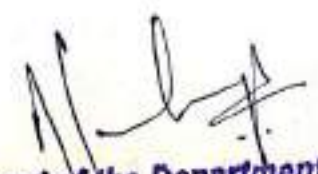
P: Practical **D:** Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)


Note-2: 1) Each contact hour is a Clock Hour

2) The practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.


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AI&DS Semester - IV

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P/D	Contact Hours / week	CIE	SEE	
Theory -Courses									
1	1PC404AD	Operating Systems	3	0	0	3	40	60	3
2	1PC405AD	Statistical Analytics and Computing	3	0	0	3	40	60	3
3	1PC406AD	Foundations of Artificial Intelligence	3	1	0	4	40	60	4
4	1PC407AD	Software Engineering	3	0	0	3	40	60	3
5	1HS403HS	Human Values and Professional Ethics	3	0	0	3	40	60	2
Practical / Laboratory Courses									
6	1PC455AD	Operating Systems Lab	0	0	2	2	40	60	1
7	1PC456AD	Java Programming Lab	0	0	2*2	4	40	60	2
8	1PC457AD	Statistical Analytics and Computing using Python Lab	0	0	2	2	40	60	1
9	1PW458AD	Skill Development Course - II	0	0	2	2	40	60	1
Total Credits						26	360	540	20


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SCHEME OF INSTRUCTION & EXAMINATION
B.E. VI - SEMESTER
(Artificial Intelligence and Data Science)


S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs./Wk	CIE	SEE	Duration	
Theory Courses										
1.	PC601AD	Machine Learning	3	0	-	3	30	70	3	3
2.	PC602AD	Big Data Analytics	3	0	-	3	30	70	3	3
3.	PC603AD	Cloud Computing	3	0	-	3	30	70	3	3
4.	PE-II	Professional Elective-II	3	-	-	3	30	70	3	3
5.	PE-III	Professional Elective-III	3	-	-	3	30	70	3	3
6.	OE-I	Open Elective-I	3			3	30	70	3	3
Practical/Laboratory Courses										
7.	PC654AD	Machine Learning Lab	-	-	2	2	25	50	2	1
8.	PC655AD	BDA Lab	-	-	2	2	25	50	2	1
9.	SI671AD	Summer Internship*	-	-	-	-	25	25	-	2
Total			15	0	4	22	280	620		22

Professional Elective-II

Course Code	Course Title
PE621AD	Data Visualization
PE622AD	Human Computer Interaction
PE623AD	Soft Computing
PE624AD	Scripting Languages
PE625AD	Block chain Technology
PE626AD	Design Thinking

Professional Elective-III

Course Code	Course Title
PE631AD	Information Retrieval Systems
PE632AD	Cognitive Science & Analytics
PE633AD	Quantum Computing
PE634AD	Web Services
PE635AD	Cyber Security
PE636AD	Open source tools



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Open Elective-I		
Sl. No	Code	Name of the Subject
1	OE601EE	Electrical Energy Conservation and Safety (Not for EEE & EIE Students)
2	OE602EE	Reliability Engineering(Not for EE & EIE students)
3	OE611AE	Automobile Engineering (Not for Auto. Engg students)
4	OE611ME	Entrepreneurship (Not for Mech Engg & Prod. Engg)
5	OE601EG	Soft Skills & Interpersonal Skills
6	OE602MB	Human Resource Development and Organizational Behaviour
7	OE601LW	Cyber Law and Ethics
8	OE601CE	Disaster Mitigation (Not for Civil Engg. Students)
9	OE601CS	OOPS using Java(not CSE,IT,AI&DS,AI&ML,DS,(IOT, Cybersecurity, Blockchain))
10	OE602CS	Data Structure and Algorithm(not CSE,IT,AI&DS,AI&ML,DS,(IOT, Cybersecurity, Blockchain))
11	OE601AS	Principles of AI(not CSE,IT,AI&DS,AI&ML,DS,(IOT, Cybersecurity, Blockchain))
12	OE601AL	Principles of Machine Learning(Not CSE,IT,AI&DS,AI&ML,DS,(IOT, Cybersecurity, Blockchain))
13	OE601DS	Principles of Data Science(Not CSE,IT,AI&DS,AI&ML,DS,(IOT, Cybersecurity, Blockchain))
14	OE601CB	Principles of IOT(Not CSE,IT,AI&DS,AI&ML,DS,(IOT, Cybersecurity, Blockchain))
15	OE601IT	Operating Systems(Not CSE,IT,AI&DS,AI&ML,DS,(IOT, Cybersecurity, Blockchain))


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B. E. - Computer Science and Engineering


CSE Semester - III									
S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P/D	Contact Hours / week	CIE	SEE	
Theory Courses									
1	3BS305HS	Probability & Statistics	3	1	0	4	40	60	4
2	3ES301EC	Switching Theory and Logic Design	3	0	0	3	40	60	3
3	3PC301CS	Database Management Systems	3	0	0	3	40	60	3
4	3PC302CS	Discrete Mathematics	3	0	0	3	40	60	3
5	3PC303CS	Computer Organization and Microprocessor	3	0	0	3	40	60	3
6	3MC302HS	Essence of Indian Traditional Knowledge	3	0	0	3	40	60	0
Practical / Laboratory Courses									
7	3PC351CS	Database Management Systems Lab	0	0	2	2	40	60	1
8	3PC352CS	Computer Organization and Microprocessor Lab	0	0	2	2	40	60	1
9	3PC353CS	Python Programming Lab	0	0	2*2	4	40	60	2
10	3PW354CS	Skill Development Course-I	0	0	2	2	40	60	1
Total Credits						29	400	600	21


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**SCHEME OF INSTRUCTION & EXAMINATION
B.E (Computer Science and Engineering)
SEMESTER-V**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 501 CS	Software Engineering	3	1	-	4	30	70	3	3
2	PC 502 CS	principles of Programming Languages	3	1	-	4	30	70	3	3
3	PC 503 CS	Automata Languages & Computation	3	1	-	4	30	70	3	3
4	PC 504 CS	Artificial intelligence	3	-	-	3	30	70	3	3
5	PC 505 CS	Computer Networks	3	-	-	3	30	70	3	3
6	PE-51X CS	Professional Elective-I	3	-	-	3	30	70	3	3
Practical/Laboratory Courses										
7	PC 551 CS	Software Engineering Lab	-	-	2	2	25	50	3	1
8	PC 552 CS	Artificial intelligence lab	-	-	2	2	25	50	3	1
9	PC 553 CS	Computer Networks LAB	-	-	2	2	25	50	3	1
Total			18	03	06	27	255	570		21

Profession Elective – I	
Course Code	Course Title
PE 511 CS	Parallel and Distributed Algorithms
PE 512 CS	Embedded Systems
PE 513 CS	Computer Graphics
PE 514 CS	Object oriented Analysis and Design
PE 515 CS	Data Science
PE 516 CS	Blockchain Technology


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BE(CSE) SEMESTER-VII SCHEME:-

Sl.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 701 CS Core-13	Information Security	3	-	-	3	30	70	3	3
2	PC 702 CS Core-14	Data Science Using R Programming	3	1	-	4	30	70	3	4
3	PC 703 CS Core-15	Distributed Systems	3	1	-	4	30	70	3	4
4	OE-II	Open Elective – II	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
5	PC 751 CS	Data Science Lab	-	-	3	3	25	50	3	1.5
6	PC 752 CS	Distributed Systems Lab	-	-	3	3	25	50	3	1.5
7	PW 761 CS	Project Work – I	-	-	4	4	50	-	-	2
8	SI 762 CS	Summer Internship	-	-	-	-	25	50	-	2
			12	02	10	24	245	430	18	21

PC: Professional Course PE: Professional Elective,
 HS: Humanities and social Science
 MC: Mandatory Course
 L: Lecture T: Tutorial
 P: Practical D: Drawing
 CIE: Continuous Internal Evaluation,
 SEE: Semester End Examination (Univ. Exam)

Note:

1. Each contact hour is a Clock Hour
2. The practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.


Open Elective II	
Course Code	Course Title
OE 701 CE	Green Building Technologies
OE 701 CS**	Data Science and Data Analytics
OE701EE	Non-Conventional Energy Sources
OE702EE	Transducers and Sensors
OE701EC	Fundamentals of IoT
OE701 IT**	Cyber Security
OE701ME	Start-Up Entrepreneurship
OE701AE	Automotive Maintenance

Note:- ** Subject is not offered to the students of CSE and IT Department.

Scheme of Instruction & Examination
B. E. - Artificial Intelligence and Data Science

AI&DS Semester - III


S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P / D	Contact Hours / week	CIE	SEE	
Theory Courses									
1	1BS305HS	Probability and Statistics	3	1	0	4	40	60	4
2	1PC301AD	Discrete Mathematics	3	0	0	3	40	60	3
3	1PC302AD	Database Management Systems	3	0	0	3	40	60	3
4	1PC303AD	Computer Organization and Microprocessor	3	0	0	3	40	60	3
5	1ES303EC	Switching Theory and Logic Design	3	0	0	3	40	60	3
6	1MC302HS	Essence of Indian Traditional Knowledge	3	0	0	3	40	60	0
Practical / Laboratory Courses									
7	1PC351AD	Database Management Systems Lab	0	0	2	2	40	60	1
8	1PC352AD	Python Programming Lab	0	0	2*2	4	40	60	2
9	1PC353AD	Computer Organization and Microprocessor Lab	0	0	2	2	40	60	1
10	1PW354AD	Skill Development Course- I	0	0	2	2	40	60	1
Total Credits						29	400	600	21


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SCHEME OF INSTRUCTION & EXAMINATION
B.E. V - SEMESTER
(Artificial Intelligence and Data Science)


S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	D/P	Contact Hrs./W	CIE	SEE	Duration in Hrs.	
Theory Course										
1.	PC501AD	Software Engineering	3	0	-	3	30	70	3	3
2.	PC502AD	Database Management System	3	0	-	3	30	70	3	3
3.	PC503AD	Artificial Intelligence	3	0	-	3	30	70	3	3
4.	PC504AD	Automata languages & Computation	3	-	-	3	30	70	3	3
5.	PC505AD	Forecasting Techniques	3	-	-	3	30	70	3	3
6.	PE-I	Professional Elective-I	3	-	-	3	30	70	3	3
Practical/Laboratory Course										
7.	PC551AD	Artificial Intelligence Lab	-	-	2	2	25	50	2	1
8.	PC552AD	DBMS Lab			2	2	25	50	2	1
9.	PW553AD	Mini Project	-	-	4	4	25	50	4	2
Total			20	00	08	32	280	640		22

Professional Elective-I	
Course Code	Course Title
PE511AD	Artificial Neural Networks
PE512AD	Computer Vision
PE513AD	Distributed system
PE514AD	Web Technologies
PE515AD	Foundation of Cryptography
PE516AD	Internet of Things


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B.E. III Semester

Sl. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs per Week	CIE	SEE	SEE Duration in ours	
Theory Courses										
1	5PC301EC	Electronic Devices	3	0	0	3	40	60		3
2	5PC302EC	Signals and Systems	3	0	0	3	40	60		3
3	5PC303EC	Network Theory	3	0	0	3	40	60		3
4	5PC304EC	Switching Theory and Logic Design	3	0	0	3	40	60		3
5	5ES303EC	Probability Theory and Stochastic Processes	3	0	0	3	40	60		3
6	5HS302HS	Managerial Economics and Financial Accountancy	3	0	0	3	40	60		3
7	5MC303HS	Indian Constitution	2	0	0	2	40	60		0
8	5ES304EC	Python Programming	2	0	0	2	40	60		2
Practical/Laboratory Course										
9	5PC351EC	Electronic Devices and Logic Design Lab	0	0	2	2	40	60		1
10	5PC352EC	Network Theorem Lab	0	0	2	2	40	60		1
11	5ES353EC	Python Programming Laboratory	0	0	2	2	40	60		1
		Total	22	0	6	28	440	660		23


HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD.

B.E. (ECE) - IV SEMESTER

Sl. No.	Course Category	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			L	T	P	Total Hours	CIE	SEE	
Theory									
1	5PC405EC	Analog Electronic Circuits	3	0	0	3	40	60	3
2	5PC406EC	Automatic Control Systems	3	1	0	4	40	60	4
3	5PC407EC	Computer Organization and Architecture	3	0	0	3	40	60	3
4	5PC408EC	Electro Magnetic Theory and Transmission Lines	3	0	0	3	40	60	3
5	5PC409EC	IC Applications	3	0	0	3	40	60	3
6	5MC402HS	Essence of Indian Traditional Knowledge	2	0	0	2	40	60	0
7	5HS403HS	Human Values and Professional Ethics	3	0	0	3	40	60	3
Laboratories									
8	5PC453EC	AEC Laboratory	0	0	2	2	40	60	1
9	5PC454EC	IC Applications Laboratory	0	0	2	2	40	60	1
Total Credits									21


 HEAD OF THE DEPARTMENT
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 METHODIST COLLEGE OF ENGG. & TECH.
 ABIDS, HYDERABAD.

**SCHEME OF INSTRUCTION & EXAMINATION
B.E. V- Semester**

ELECTRONICS AND COMMUNICATION ENGINEERING

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Course										
1	PC408EC	Digital Signal Processing	3	-	-	3	30	70	3	3
2	PC409EC	Microprocessor and Microcontroller	3	-	-	3	30	70	3	3
3	PC410EC	Analog Communication	3	-	-	3	30	70	3	3
4	PC411EC	Automatic Control Systems	3	-	-	3	30	70	3	3
5	PC412EC	Antennas and wave Propagation	3	-	-	3	30	70	3	3
6	HS104ME	Industrial Administration and Financial Management	3	-	-	3	30	70	3	3
Practical/Laboratory Course										
7	PC455EC	Microprocessor and Microcontroller Lab	-	-	2	2	25	50	3	1
8	PC456EC	Systems and Signal Processing Lab	-	-	2	2	25	50	3	1
9	PW701EC	Mini Project	-	-	2	2	50	-	-	2
Total			18	-	6	24	280	520	24	22

PC: Professional Core **HS:** Humanities and Social Sciences **PW:** Project Work


L: Lecture **T:** Tutorial **P:** Practical **D:** Drawing

CIE: Continuous Internal Evaluation **SEE:** Semester End Examination (Univ. Exam)

EC: Electronics and Communication Engineering **ME:** Mechanical Engineering

NOTE:

- Each contact hour is a Clock Hour.
- The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment.


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 DEPARTMENT OF ECE
 METROPOLITAN COLLEGE OF ENGG. & TECH.
 HYDERABAD

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VI - Semester
(ELECTRONICS AND COMMUNICATION ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Course										
1	PC413EC	Digital Communication	3	-	-	3	30	70	3	3
2	PC414EC	VLSI Design	3	-	-	3	30	70	3	3
3	PC415EC	Data Communication and Computer Networks	3	-	-	3	30	70	3	3
4	PE5XXEC	Professional Elective-I	3	-	-	3	30	70	3	3
5	PE5XXEC	Professional Elective-II	3	-	-	3	30	70	3	3
6	OE6XXYY	Open Elective-I	3	-	-	3	30	70	3	3
Practical/Laboratory Course										
7	PC458EC	Communication Systems Lab	-	-	2	2	25	50	3	1
8	PC459EC	Digital Integrated Circuits Lab	-	-	2	2	25	50	3	1
9	PC460EC	Data Communication and Computer Networks Lab	-	-	2	2	25	50	3	1
*10	*PW701EC	*Summer Internship	-	-	-	-	*50		-	*2
Total			18	-	6	24	255	570	27	21

PC: Professional Core **HS:** Humanities and Social Sciences **W:** Project Work

L: Lecture **T:** Tutorial **P:** Practical **D:** Drawing


CIE: Continuous Internal Evaluation **SEE:** Semester End Examination (Univ. Exam)

EC: Electronics and Communication Engineering

ME: Mechanical Engineering

NOTE:

1. Each contact hour is a Clock Hour.
2. The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment.


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 METHODIST COLLEGE OF ENGG. & TECH.
 ABIDS, HYDERABAD.

Professional Elective-I		
S. No.	Course Code	Course Title
1	PE501EC	Digital Image and Video Processing
2	PE502EC	Advanced Microcontrollers
3	PE503EC	Python Programming and Applications
4	PE504EC	Neural Networks

Professional Elective-II		
S.No.	Course Code	Course Title
1	PE505EC	FPGA Architectures
2	PE506EC	Advanced Digital Signal Processing
3	PE507EC	CMOS Analog IC Design
4	PE508EC	IoT system Design and Applications

Open Elective 1		
Sl No	Code	Name of Subject
1	OE601EE	Electrical Energy Conservation and Safety (Not for EEE & EIE Students)
2	OE602EE	Reliability Engineering (Not for EEE & EIE Students)
3	OE611AE	Basics of Automobile Engineering (Not for Mech./Prod./Automobile Engg. students)
4	OE611ME	Industrial Robotics (Not for Mech./Prod./Automobile Engg. students)
5	OE601EG	Soft Skills & Interpersonal Skills
6	OE602MB	Human Resource Development and Organizational Behaviour
7	OE601LW	Cyber Law and Ethics
8	OE601CS	OOP using Java (Not for CSE, IT, AD, AM, DS and CB Students)
9	OE602CS	Data Structures & Algorithms (Not for CSE, IT, AD, AM, DS and CB Students)
10	OE601IT	Operating Systems (Not for CSE, IT, AD, AM, DS and CB Students)
11	OE601AD	Principles of Artificial Intelligence (Not for CSE, IT, AD, AM, DS and CB Students)
12	OE601AM	Principles of Machine Learning (Not for CSE, IT, AD, AM, DS and CB Students)
13	OE601DS	Data Science (Not for CSE, IT, AD, AM, DS and CB Students)
14	OE601CB	Principles of IOT (Not for CSE, IT, AD, AM, DS and CB Students)
15	OE601CE	Disaster Mitigation (Not for Civil Engg. Students)
16	OE601EC	Principles of Electronic Communication (Not for ECE students)
17	OE602EC	Digital system design using verilog HDL (Not for ECE students)

AD- Artificial Intelligence & Data Science

AE- Automobile Engineering

AM- Artificial Intelligence & Machine Learning

CB- IoT, Cyber Security & Block Chain

CE- Civil Engineering

CS- Computer Science

DS- Data Science

EC- Electronics and Communication Engg.

EE- Electrical Engineering

EG- English

IT- Information Technology

LW- Law

MB- Business Management

ME- Mechanical Engineering

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VII- Semester
(ELECTRONICS AND COMMUNICATION ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Course										
1	PC 701 EC	Embedded System	3	-	-	3	30	70	3	3
2	PC 702 EC	VLSI Design	3	-	-	3	30	70	3	3
3	PC 703 EC	Microwave Techniques	3	-	-	3	30	70	3	3
4	HS 707 ME	Industrial Administration and Financial Management	3	-	-	3	30	70	3	3
5	PEXXXEC	Professional Elective – II	3	-	-	3	30	70	3	3
6	OEXXXyy	Open Elective – II	3	-	-	3	30	70	3	3
7	OEXXXyy	Open Elective – III	3	-	-	3	30	70	3	3
Practical/Laboratory Course										
8	PC751 EC	Microwave Lab	-	-	2	2	25	50	3	1
9	PC752 EC	Electronic Design & Automation Lab	-	-	2	2	25	50	3	1
10	PW 761 EC	Project Work – I	-	-	4	4	50	-	-	2
11	PW 762EC	Summer Internship	-	-	-	-	50	-	-	2
Total			21	-	8	29	360	590		27

PC: Professional Course
 OE: Open Elective

MC: Mandatory Course
 PW: Project Work

L: Lecture T: Tutorial P: Practical
 CIE: Continuous Internal Evaluation

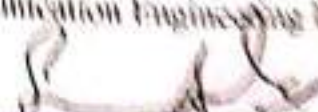
D: Drawing G: Grade (E/VG/G/S/U)
 SEE: Semester End Examination (Univ. Exam)

Note-1:

- Each contact hour is a Clock Hour
- The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment

Note-2:

- *The students have to undergo a Summer Internship of four weeks duration after VI semester and credits will be awarded in VII semester after evaluation.
- ** Subject is not offered to the students of Electronics and Communication Engineering Department


 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 JYOTIBA PHULE COLLEGE OF ENGINEERING
 WARANANAGAR

Professional Elective - II		
SNo	Course Code	Course Title
1	PE 721 EC	Mobile and Cellular Communications
2	PE 722 EC	Speech Signal Processing
3	PE 723 EC	Nano Technology and Applications
4	PE 724 EC	Digital Signal Processor Architectures

Open Elective - II		
SNo	Course Code	Course Title
1	OE771 CE	Green Building Technologies
2	OE 772 CS	Data Science Using R Programming
3	OE773EC**	Fundamentals of IoT
4	OE 774 EE	Non-Conventional Energy Sources
5	OE 775 ME	Entrepreneurship

Open Elective - III		
SNo	Course Code	Course Title
1	OE 781 CE	Road Safety Engineering
2	OE 782 IT	Software Engineering
3	OE 783EC**	Principles of Electronic Communications
4	OE 784 EE	Illumination and Electric Traction systems
5	OE 785 ME	Mechatronics

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VIII - SEMESTER
(ELECTRONICS AND COMMUNICATION ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1		Professional Elective – III	3	-	-	3	30	70	3	3
2		Professional Elective – IV	3	-	-	3	30	70	3	3
3		Professional Elective – V	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
5	PW961 EC	Project Work – II	-	-	16	16	50	100		8
			09	-	16	25	140	310		17

Professional Elective – III			Professional Elective – IV		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	PE 821 EC	Field Programmable Gate Arrays	1	PE 831 EC	Wireless Sensor Networks
2	PE 822 EC	Artificial Intelligence and Machine Learning	2	PE 832 EC	Global Navigational Satellite Systems
3	PE 823 EC	Neural Networks	3	PE 833 EC	System Verilog
4	PE 824 EC	Satellite Communications	4	PE 834 EC	Multirate Signal Processing
Professional Elective – V					
1	PE 841 EC	Real Time Operating Systems			
2	PE 842 EC	Fuzzy Logic And Applications			
3	PE 843 EC	Radar Systems			
4	PE 844 EC	Design of Fault Tolerant Systems			

PC: Professional Course PE: Professional Elective PW : Project Work
L:Lectures T:Tutorials P:Practical D: Drawing
CIE: Continuous Internal Evaluation SEE: Semester End Examination (Univ.Exam)

Note: 1) Each contact hour is a Clock Hour

2) The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment


HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGINEERING & TECH.

Scheme of Instruction & Examination
B.E. FIRST YEAR
ELECTRICAL AND ELECTRONICS ENGINEERING

S. No	Course Code	Course Title	Semester - I				Scheme of Examination		Credits
			Scheme of Instruction				Maximum Marks		
			Hours Per week			Duration in Hrs	CIE	SEE	
			L	T	P/D				
Theory Courses									
1	4BS101 HS	Engineering Mathematics - I	3	1	0	4	40	60	4
2	4BS106 HS	Chemistry	3	1	0	4	40	60	4
3	4HS101 HS	English	2	0	0	2	40	60	2
4	4ES103 CE	Engineering Mechanics	3	0	0	3	40	60	3
Laboratories									
5	4BS153 HS	Chemistry Lab	0	0	3	3	40	60	1.5
6	4HS151 HS	English Lab	0	0	2	2	40	60	1
7	4ES152 ME	Engineering Workshop Practice	0	0	4	4	40	60	2
8	4MC15 ISP	Yoga/NSS/Sports	0	0	2	2	50	-	0
		Total	11	2	11	24	330	420	17.5

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Aruna Sharma
Head of the Department
Department of H & S
College of Engg. & Tech.
Hyderabad-500 007

Semester - II									
S N o	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Cred it s
			Hours Per week			D u r a t i o n i n H o u r s	Maximum Marks		
			L	T	P/D		CIE	SEE	
Theory Courses									
1	4BS202HS	Engineering Mathematics - II	3	1	0	4	40	60	4
2	4BS204HS	Applied Physics	3	1	0	4	40	60	4
3	4ES203EE	Principles of Electrical and Electronics Engineering	3	0	0	3	40	60	3
4	4ES204ME	Principles of Mechanical Engineering	3	0	0	3	40	60	3
5	4MC201CE	Environmental Science	2	0	0	2	40	60	0
Laboratories									
6	4BS251HS	Applied Physics Lab	0	0	3	3	40	60	1.5
7	4ES253ME	Principles of Mechanical Engineering Lab	0	0	2	2	40	60	1
8	4ES252CE	Engineering Graphics Lab	1	0	4	5	40	60	3
		Total	15	2	9	26	320	480	19.5

BS: Basic Sciences
Humanities and Sciences

ES: Engineering Sciences

HS:

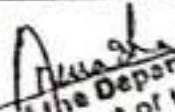
MC: Mandatory Courses

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

L: Lectures T: Tutorials P: Practicals D: Drawing

Note: 1). Each Contact Hour is a Clock hour


Head of the Department
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 Methodist College of Engg. & Tech.
 Abids, Hyderabad-500 001

Scheme of Instruction & Examination
B.E. SECOND YEAR, III SEMESTER
ELECTRICAL AND ELECTRONICS ENGINEERING

Semester - III									
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
			Hours Per week				CIE	SEE	
			L	T	P/D	Duration in Hrs			
Theory Courses									
1	4BS303HS	Engineering Mathematics - III	3	1	0	4	40	60	4
2	4PC301EE	Electro Magnetic Fields	3	0	0	3	40	60	3
3	4PC302EE	Electrical Circuits-I	3	0	0	3	40	60	3
4	4ES304CS	Programming for Problem Solving	3	0	0	3	40	60	3
5	4PC303EE	Analog and Digital Electronics	3	0	0	3	40	60	3
6	4HS302HS	Human Values & Professional Ethics	2	0	0	2	40	60	2
7	4MC302HS	Essence of Indian traditional knowledge	2	0	0	2	40	60	-
Laboratories									
8	4PC351EE	Analog and Digital Electronics Lab	0	0	2	2	40	60	1
9	4ES354CS	Programming for Problem Solving Lab	0	0	2	2	40	60	1
		Total	19	1	5	25	360	540	20

HS: Humanities and Social Sciences
MC: Mandatory Course
L: Lecture
CIE: Continuous Internal Evaluation

BS: Basic Science
PC: Professional Core
T: Tutorial
SEE: Semester End Evaluation (Univ. Exam)

ES: Engineering Science
P: Practical
D: Drawing
EE: Electrical Engg.

Note:

1. Each contact hour is a clock hour.
2. The duration of the practical class is two hours, however it can be extended wherever necessary, to enable the student to complete the experiment.


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Scheme of Instruction & Examination
B.E. SECOND YEAR, III SEMESTER
ELECTRICAL AND ELECTRONICS ENGINEERING

Semester - IV									
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits
							Maximum Marks		
			Hours Per week				CIE	SEE	
L	T	P/D	Duration in Hrs						
Theory Courses									
1	4HS403BM	Managerial Economics & Financial Accounts	3	0	0	3	40	60	3
2	4PC404EE	Power Systems-I	3	0	0	3	40	60	3
3	4PC405EE	Electrical Machines-I	3	0	0	3	40	60	3
4	4PC406EE	Control Systems	3	0	0	3	40	60	4
5	4PC407EE	Electrical Circuits-II	3	1	0	3	40	60	3
6	4ES405CS	Python Programming	3	0	0	3	40	60	-
7	4MC403HS	Indian Constitution	2	0	0	2	40	60	-
Laboratories									
8	4PC452EE	Electrical Circuits Lab	0	0	2	2	25	50	1
9	4PC453EE	Control Systems Lab	0	0	2	2	25	50	1
10	4ES455CS	Python Programming Lab	0	0	2	2	25	50	1
		Total	20	0	8	28	355	570	22

HS: Humanities and Social Sciences
MC: Mandatory Course
L: Lecture
CIE: Continuous Internal Evaluation

BS: Basic Science
PC: Professional Core
T: Tutorial
SEE: Semester End Evaluation (Univ. Exam)

ES: Engineering Science

P: Practical

D: Drawing
EE: Electrical Engg.

Note:

- Each contact hour is a clock hour.
- The duration of the practical class is two hours, however it can be extended wherever necessary, to enable the student to complete the experiment.

for
Head of Department
Department of EEE
Methodist College of Engg & Tech
Abids, Hyderabad-500 001

The following resolutions were taken:

- (i) Resolved that the enclosed scheme & Syllabi of B.E V Semester EEE under AICTE New Model scheme be approved.

B.E. (Electrical & Electronics Engineering) V – SEMESTER

S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hr/Wk	CIE	SEE	Duration In Hrs	
Theory Courses										
1	PC415EE	Linear Control Systems	3	-	-	3	30	70	3	3
2	PC416EE	Electrical Measurements and Instrumentation	3	-	-	3	30	70	3	3
3	PC417EE	Signals and Systems	3	-	-	3	30	70	3	3
4	PC418EE	Power Systems – II	3	-	-	3	30	70	3	3
5	PC419EE	Linear Integrated Circuits	3	-	-	3	30	70	3	3
6	PE5 EE	Professional Elective - I	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
7	PC459EE	Electrical Machines Lab – II	-	-	2	2	25	50	3	1
8	PC460EE	Electrical Measurements and Instrumentation Lab	-	-	2	2	25	50	3	1
9	PC461EE	Control Systems Lab	-	-	2	2	25	50	3	1
Total			18	-	06	24	255	570	-	21

Professional Elective – I		
1	PE501EE	Electrical Machine Design
2	PE502EE	Special Electric Machines
3	PE503EE	Renewable Energy Sources


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- (ii) Resolved that the enclosed scheme & Syllabi of B.E VI semester EEE under AICTE New Model scheme be approved.

B.E. (Electrical & Electronics Engineering) VI – SEMESTER

S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration In Hrs	
Theory Courses										
1	HS103CM	Finance and Accounting	3	-	-	3	30	70	3	3
2	PC423EE	Microprocessors and Microcontrollers	3	-	-	3	30	70	3	3
3	PC424EE	Digital Signal Processing and Applications	3	-	-	3	30	70	3	3
4	PC425EE	Switchgear and Protection	3	-	-	3	30	70	3	3
5	PE5_EE	Professional Elective – II	3	-	-	3	30	70	3	3
6	OE6_EE	Open Elective – I	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
7	PC462EE	Microprocessors and Microcontrollers Lab	-	-	2	2	25	50	3	1
9	PC463EE	Digital Signal Processing Lab	-	-	2	2	25	50	3	1
10	PW701EE	Summer Internship*	Six Weeks during Summer Vacation							
Total			18	-	04	22	230	520	-	20

Professional Elective – II

1	PE504EE	Electric Vehicles
2	PE505EE	High Voltage Engineering
3	PE506EE	Digital Control Systems

Open Elective – I

1	OE601EE	Electrical Energy Conservation and Safety (Not for EEE & EIE Students)
2	OE602EE	Reliability Engineering (Not for EEE & EIE Students)
3	OE601AE	Basics of Automobile Engineering (Not for Mech./Prod./Auto. Engg. students)
4	OE601ME	Industrial Robotics (Not for Mech./Prod./Automobile Engg. students)
5	OE601EG	Soft Skills & Interpersonal Skills
6	OE602MB	Human Resource Development and Organizational Behaviour
7	OE601LW	Cyber Law and Ethics
8	OE601CS	Operating Systems (Not for CSE Students)
9	OE602CS	OOP using Java (Not for CSE Students)
10	OE601IT	Database Systems (Not for IT Students)
11	OE602IT	Data Structures (Not for IT Students)
12	OE601CE	Disaster Mitigation (Not for Civil Engg. Students)

for

 Head of Department
 Department of EEE
 Methodist College of Engg &
 Hyderabad-500

SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Electrical and Electronics Engineering) VII – SEMESTER

S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration In Hrs	
Theory Courses										
1	PC428EE	Control of Electric Drives	3	-	-	3	30	70	3	3
2	PC429EE	Switchgear and Protection	3	-	-	3	30	70	3	3
3	PC430EE	Power Electronic Applications to Power Systems	3	-	-	3	30	70	3	3
4	PE5_EE	Professional Elective - II	3	-	-	3	30	70	3	3
5	PE5_EE	Professional Elective - III	3	-	-	3	30	70	3	3
6	PE5_EE	Professional Elective - IV	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
7	PC462EE	Power Systems Lab	-	-	2	2	25	50	3	1
8	PC466EE	Electrical Simulation Lab	-	-	2	2	25	50	3	1
9	PW702EE	Project Work Phase - I	-	-	6	6	25	50	-	3
10	PW701EE	Summer Internship*	-	-	-	-	50	-	-	1
Total			18	-	10	28	305	570	-	24

Professional Elective – II, III & IV		
1	PE501EE	Electrical Machine Design
2	PE502EE	Special Electric Machines
3	PE505EE	High Voltage Engineering
4	PE506EE	Digital Control Systems
5	PE509EE	Power Quality Engineering
6	PE510EE	Energy Management Systems and SCADA

HS: Humanities and Social Sciences BS: Basic Science ES: Engineering Science
 MC: Mandatory Course PC: Professional Core PE: Professional Elective
 L: Lecture T: Tutorial P: Practical D: Drawing
 CIE: Continuous Internal Evaluation SEE: Semester End Evaluation (Univ. Exam) EE: Electrical Engg.

Note:

- Each contact hour is a clock hour.
- The duration of the practical class is two hours, however it can be extended wherever necessary, to enable the student to complete the experiment.
- The students have to undergo a Summer Internship of six-week duration after VI-Semester and credits will be awarded in VII-Semester after evaluation.

**SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Electrical and Electronics Engineering) VIII – SEMESTER**

S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration In Hrs	
Theory Courses										
1	PE5_EE	Professional Elective – V	3	-	-	3	30	70	3	3
2	PE5_EE	Professional Elective –VI	3	-	-	3	30	70	3	3
3	OE6_EE	Open Elective-III	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
4	PC463EE	Digital Signal Processing Lab	-	-	2	2	25	50	3	1
5	PW703EE	Project Work Phase – II	-	-	16	16	50	100	-	8
Total			09	-	18	27	165	360	-	18

Professional Elective – V & VI		
1	PE511EE	AI Techniques in Electrical Engineering
2	PE512EE	Advances in Power Electronics
3	PE513EE	Grid Integration of Renewable Energy Systems
4	PE514EE	Smart Grid Technology

Open Elective – III		
1	OE605EE	Smart Building Systems (Not for EEE & EIE Students)
2	OE606EE	Programmable Logic Controllers (Not for EEE & EIE Students)
3	OE631AE	Automotive Maintenance (Not for Mech/Prod/Auto. Engg. students)
4	OE631ME	Mechatronics (Not for Mech/Prod/Auto. Engg. students)
5	OE603CE	Road Safety Engineering (Not for Civil Engg. Students)
6	OE604IT	Software Engineering (Not for IT Students)

HS: Humanities and Social Sciences BS: Basic Science ES: Engineering Science
 MC: Mandatory Course PC: Professional Core PE: Professional Elective
 L: Lecture T: Tutorial P: Practical D: Drawing
 CIE: Continuous Internal Evaluation SEE: Semester End Evaluation (Univ. Exam) EE: Electrical Engg.

Note:

- Each contact hour is a clock hour.
- The duration of the practical class is two hours, however it can be extended wherever necessary, to enable the student to complete the experiment.



B.E. (Mechanical Engineering) - III SEMESTER

S. No.	Code No.	Subject	Scheme of Instructions				Scheme of Examination		Credits
			L	T	P/D	Duration in Hrs.	CIE	SEE	
Theory Courses									
1	6BS303HS	Numerical Methods and Partial Differential Equations	3	1	-	4	40	60	4
2	6HS303HS	Human Value and Professional Ethics	2	-	-	2	40	60	2
3	6ES301CS	Programming for Problem Solving	3	-	-	3	40	60	3
4	6PC301ME	Thermodynamics	3	-	-	3	40	60	3
5	6PC302ME	Strength of Materials	3	-	-	3	40	60	3
6	6PC303ME	Metallurgy & Material Science	3	-	-	3	40	60	3
Practical / Laboratory									
7	6ES351CS	Programming for Problem Solving Lab	-	-	2	2	40	60	1
8	6PC351ME	Metallurgy and Material Testing Lab	-	-	3	3	40	60	1.5
9	6PC352ME	Computer Aided Machine Drawing	-	-	3	3	40	60	1.5
10	6MC351ME	Solid Edge Certification Course	-	-	2	2	50	*S/U	-
Total			17	1	10	28	410	540	22

*S=Satisfactory, U= Unsatisfactory

H.O.D.

Mechanical Engineering Department
Methodist College of Engg & Tech
King Koti, Hyderabad-500 001.



B.E. (Mechanical Engineering) - IV SEMESTER

S. No.	Code No.	Subject	Scheme of Instructions				Scheme of Examination		Credits
			L	T	P/D	Duration in Hrs.	CIE	SEE	
Theory Courses									
1	6ES403CS	Python Programming	3	-	-	3	40	60	3
2	6PC404ME	Applied Thermodynamics	3	1	-	4	40	60	4
3	6PC405ME	Manufacturing Processes	3	-	-	3	40	60	3
4	6PC406ME	Fluid Mechanics & Hydraulic Machines	3	-	-	3	40	60	3
5	6PC407ME	Kinematics of Machines	3	1	-	4	40	60	4
6	6MC402HS	Essence of Indian Traditional Knowledge	2	-	-	2	40	60	-
Practical / Laboratory									
7	6ES453CS	Python Programming Lab	-	-	2	2	40	60	1
8	6PC453ME	Applied Thermodynamics Lab	-	-	2	2	40	60	1
9	6PC454ME	Manufacturing Processes Lab	-	-	2	2	40	60	1
10	6PC455ME	Fluid Mechanics & Hydraulic Machines Lab	-	-	2	2	40	60	1
Total			17	2	8	27	400	600	21

H.O.D.
 Mechanical Engineering Department
 Methodist College of Engg & Tech
 King Koti, Hyderabad-500 001.

For the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION
AICTE Model Curriculum
B. E. V – Semester (MECHANICAL ENGINEERING)
(Proposed for the Academic year 2020-2021)

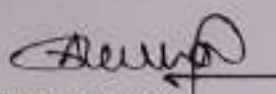
S. No.	Course Code	Course Title	Scheme of Instructions				Scheme of Examination			Credits
			L	T	P/D	Contact Hours/Week	CIE	SEE	Duration in Hours	
Theory Course										
1	PC408ME	Hydraulic Machines	3	-	-	3	30	70	3	3
2	PC409ME	Design of Machine Elements	3	-	-	3	30	70	3	3
3	PC410ME	Dynamics of Machines	3	-	-	3	30	70	3	3
4	PC411ME	Metrology and Instrumentation	3	-	-	3	30	70	3	3
5	PC412ME	Heat Transfer	3	-	-	3	30	70	3	3
6	PE51ME	Professional Elective-I	3	-	-	3	30	70	3	3
Practical / Laboratory Course										
7	PC455ME	Thermal Engineering Lab-2	-	-	2	2	25	50	3	1
8	PC456ME	Dynamics of Machines Lab	-	-	2	2	25	50	3	1
9	PC457ME	Fluid Mechanics and Hydraulics Machinery Lab	-	-	2	2	25	50	3	1
Total										21

Professional Elective-I		
S. No.	Course Code	Course Title
1	PE511ME	CAD/CAM
2	PE512ME	Automobile Engineering
3	PE513ME	Industrial Engineering

MC: Mandatory Course BS: Basic Science ES: Engineering Science
L: Lecture T: Tutorial P: Practical D: Drawing
CIE: Continuous Internal Evaluation SEE: Semester End Examination (Univ. Exam)

Note:

- Each contact hour is a clock hour
- The duration of the practical class is two hours, however it can be extended wherever necessary, to enable the student to complete the experiment.


H.O.D.
Mechanical Engineering Department
Methodist College of Engg & Tech
King Koti, Hyderabad-500 001.

For the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION
AICTE Model Curriculum

B. E. VI – Semester (MECHANICAL ENGINEERING)
(Proposed for the Academic year 2020-2021)

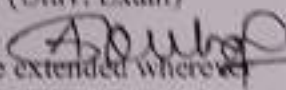
S. No.	Course Code	Course Title	Scheme of Instructions				Scheme of Examination			Credits
			L	T	P/D	Contact Hours/Week	CIE	SEE	Duration in Hours	
Theory Course										
1	PC413ME	Machine Design	3	-	-	3	30	70	3	3
2	PC414ME	Metal Cutting and Machine Tools	3	-	-	3	30	70	3	3
3	PC415ME	Finite Element Analysis	3	-	-	3	30	70	3	3
4	PE52ME	Professional Elective-II	3	-	-	3	30	70	3	3
5	PE53ME	Professional Elective-III	3	-	-	3	30	70	3	3
6	OE61	Open Elective-I	3	-	-	3	30	70	3	3
Practical / Laboratory Course										
7	PC458ME	Metrology and Machine Tools Lab	-	-	2	2	25	50	3	1
8	PC459ME	Computer Aided Engineering Lab	-	-	2	2	25	50	3	1
9	PW701ME	Summer Internship*						50		2
Total										22

Professional Elective-II			Professional Elective-III		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1.	PE521ME	Thermal Turbo Machines	1.	PE531ME	Composite Materials
2.	PE522ME	Production and Operations management	2.	PE532ME	Product Design And Process Planning
3.	PE523ME	Design For Manufacture	3.	PE533ME	Power Plant Engineering

Open Elective-I		
S. No.	Course Code	Course Title
1	OE611ME	Industrial Robotics (Not for Mech. Engg. students)

MC: Mandatory Course BS: Basic Science ES: Engineering Science
 L: Lecture T: Tutorial P: Practical D: Drawing
 CIE: Continuous Internal Evaluation SEE: Semester End Examination (Univ. Exam)

Note: 1. Each contact hour is a clock hour
 2. The duration of the practical class is two hours, however it can be extended where necessary, to enable the student to complete the experiment.


H.O.D.
 Mechanical Engineering Department
 Methodist College of Engg & Tech
 King Koti, Hyderabad-500 001.

* At the end of VI semester students should undergo Summer Internship. Summer Internship will be awarded in

SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Mechanical Engineering) VII - SEMESTER
 (wef: 2021-2022)

S. No.	Course Code	Course Title	Scheme of Instructions				Scheme of Examination			Credits
			L	T	P/D	Contact Hours/W	CIE	SEE	Duration in Hours	
Theory Course:										
1	PC701ME	Operations Research	3	-	-	3	30	70	3	3
2	PC702ME	Refrigeration & Air Conditioning	3	-	-	3	30	70	3	3
3	PE-III	Professional Elective-III	3	-	-	3	30	70	3	3
4	PE-IV	Professional Elective-IV	3	-	-	3	30	70	3	3
5	OE-II	Open Elective-II	3	-	-	3	30	70	3	3
Practical / Laboratory Course:										
6	PW702ME	Project -I	-	-	6	6	50			3
Total										18

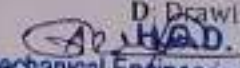
Professional Elective-III			Professional Elective-IV		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	PE711ME	Industrial Engineering	1	PE721ME	Additive Manufacturing Technology
2	PE712ME	Control Systems Theory	2	PE722ME	Robotics Engineering
3	PE713ME	Electric and Hybrid vehicles Technology			

Open Elective - II		
1	OE701 CE	Green Building Technologies (Not for Civil Engg students)
2	OE701 CS	Data science and Data Analytics (Not for CS students)
3	OE701 EE	Non Conventional Energy Sources (Not for EEE & EIE Students)
4	OE701 EC	Fundamentals of IoT (Not for ECE Students)
5	OE701 IT	Cyber security (Not for IT students)
6	OE701 ME	Start-up Entrepreneurship (Not for Mech/Prod Engg students)
7	OE701AE	Automotive Maintenance (Not for Automobile Engineering)

MC: Mandatory Course
 CIE: Continuous Internal Evaluation
 SEE: Semester End Examination (Univ. Exam)

BS: Basic Science ES: Engineering Science
 L: Lecture T: Tutorial
 P: Practical D: Drawing

Note:
 1. Each contact hour is a clock hour


 Mechanical Engineering Department
 Methodist College of Engg & Tech
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**SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Mechanical Engineering) VIII – SEMESTER
(Proposed for the Academic year 2021-2022)**

S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hours/Week	CIE	SEE	Duration in	
Theory Course										
1	PE-V	Professional Elective-V	3	-	-	3	30	70	3	3
2	PE-VI	Professional Elective-VI	3	-	-	3	30	70	3	3
3	OE-III	Open Elective-III	3	-	-	3	30	70	3	3
Practical / Laboratory Course										
4	PW703ME	Project-II	-	-	16	16	50	150		8
Total										17

<i>Professional Elective-V</i>		
S. No	Course Code	Course Title
1	PE811ME	Mechanical Vibrations
2	PE812ME	Composite Materials
3	PE813ME	Power-Plant Engineering

<i>Professional Elective-VI</i>		
S. No.	Course Code	Course Title
1	PE821ME	Energy Conservation & Management
2	PE822ME	Non-Destructive Testing
3	PE823ME	Entrepreneurship Development

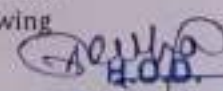
Open Elective - III		
1	OE801 CE	Road Safety Engineering (Not for Civil Engg. Students)
2	OE801CS	Fundamentals of AI & ML (Not for CSE & IT students)
3	OE801 EE	Smart Building Systems (Not for EEE & EIE Students)
4	OE802 EE	Programmable Logic Controllers (Not for EEE & EIE Students)
5	OE801EC	Principles of Electronic Communications (Not for ECE students)
6	OE801IT	Software Engineering (Not for IT Students)
7	OE801ME	3D Printing Technologies (Not for Mechanical and Production students)
8	OE801AE	Elements of Electrical and Hybrid Vehicle Technology

MC: Mandatory Course
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SEE: Semester End Examination (Univ. Exam)

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Note:

- Each contact hour is a clock hour
- The duration of the practical class is two hours, however it can be extended wherever necessary.


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College Code: 1607

SCHEME OF INSTRUCTION & EXAMINATION**M.E. (Mechanical Engineering) I – Semester****Specialization in CAD/CAM**

S. No.	Course Type/Code	Course Name		Scheme of Instruction				Scheme of Examination			Credits
				L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses		Code	Course Title								
1	Program Core – I	6PC5101ME	Finite Element Techniques	3	1	-	4	40	60	3	4
2	Program Core – II	6PC5102ME	Computer Integrated Manufacturing	3	-	-	3	40	60	3	3
3	Program Core – III	6PC5103ME	Computer Aided Modeling And Design	3	-	-	3	40	60	3	3
4	Elective-I	PE-I	Professional Elective – I	3	-	-	3	40	60	3	3
5	MC	6MC5101ME	Engineering Research Methodology	3	-	-	3	40	60	3	3
6	Audit-I	AD-I	Audit Course – I	-	-	2	2	40	60	2	-
Practical/ Laboratory Courses											
7	Lab-I	6PC5151CD	Finite Element Techniques Lab	-	-	2	2	40	60	3	1
8	Seminar	6PC5154CD	Seminar	-	-	2	2	50	-	2	1
Total				15	01	06	22	330	420	22	18

PC: Program Core PE: Professional Elective OE: Open Elective AD: Audit Course
 MC: Mandatory HS: Humanities and social science Course

L: Lecture T: Tutorial P: Practical D: Drawing
 CIE: Continuous Internal Evaluation SEE: Semester End Examination

Professional Elective-I		
S. No.	Course Code	Course Title
1	6PE5101ME	Additive Manufacturing Design and Applications
2	6PE5102ME	Advanced Metrology
3	6PE5103ME	Failure Analysis and Design
4	6PE5104ME	Design for Manufacture

Audit Course-I		
S. No.	Course Code	Course Title
1	6AD5101HS	English for Research Paper Writing
2	6AD5102CE	Disaster Management
3	6AD5103HS	Sanskrit for Technical Knowledge
4	6AD5104HS	Value Education

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**SCHEME OF INSTRUCTION & EXAMINATION****M.E. (Mechanical Engineering)****II Semester Specialization in
CAD/CAM**

S. No.	Course Type/Code	Course Name	Scheme of Instruction				Scheme of Examination			Credits		
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs			
Theory Courses		Code	Course Title									
1	Program Core -IV	6PC5204ME	Advanced Material Technology		3	1	-	4	40	60	3	4
2	Program Core -V	6PC5205ME	Automation		3	1	-	4	40	60	3	4
3	Elective-II	PE-II	Professional Elective - II		3	-	-	3	40	60	3	3
4	Open Elective	OE-I	Open Elective - I		3	-	-	3	40	60	3	3
5	Audit-II	AD-II	Audit Course - II		2	-	-	2	40	60	3	-
6	Mini project	6PC5255ME	Innovative Design Project		-	-	8	8	50	-	3	4
Practical/ Laboratory Courses												
7	Lab-II	6PC5252CD	Advanced CAD Lab		-	-	2	2	40	60	3	1
8	Lab-III	6PC5253CD	CAM & Automation Lab		-	-	2	2	40	60	3	1
Total					14	02	12	28	330	420	24	20

PC: Program Core PE: Professional Elective OE: Open Elective AD: Audit Course
 MC: Mandatory Course HS: Humanities and social science

L: Lecture T: Tutorial P: Practical D: Drawing
 CIE: Continuous Internal Evaluation SEE: Semester End Examination

Professional Elective-II		
S. No.	Course Code	Course Title
1	6PE5205ME	Advanced Machine Design
2	6PE5206ME	Optimization Techniques
3	6PE5207ME	Computational Fluid dynamics
4	6PE5208ME	Composite Materials



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Open Elective-I		
S. No.	Course Code	Course Title
1	6OE5201CE	Cost Management of Engineering Projects
2	6OE5202CS	Business Analytics
3	6OE5203EC	Fundamentals of Embedded Systems
4	6OE5204EE	Waste to Energy
5	6OE5205ME	Intellectual Property Rights & Copy Writing

Audit Course-II		
S. No.	Course Code	Course Title
1	6AD5205HS	Constitution of India and Fundamental Rights
2	6AD5206HS	Pedagogy Studies
3	6AD5207HS	Stress Management by Yoga
4	6AD5208HS	Personality Development through life Enlightenment Skills

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College Code: 1607

SCHEME OF INSTRUCTION & EXAMINATION**M.E. (Mechanical Engineering) III Semester****Specialization in CAD/CAM**

S. No.	Course Type/Code	Course Name	Scheme of Instruction				Scheme of Examination			Credits	
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs		
Theory Courses		Code	Course Title								
1	Elective-III	PE-III	Professional Elective – III	3	-	-	3	40	60	3	3
2	Elective-IV	PE-IV	Professional Elective – IV	3	-	-	3	40	60	3	3
3	Project Dissertation	6PC5356ME	Dissertation Phase – I	-	-	20	20	100	-	3	10
Total				06	-	20	26	180	120		16

Professional Elective-III		
S. No.	Course Code	Course Title
1	6PE5209ME	Tribology
2	6PE5210ME	Product Design & Process Planning
3	6PE5211ME	Non Destructive Testing and Evaluation
4	6PE5212ME	Flexible Manufacturing Systems

Professional Elective-IV		
S. No.	Course Code	Course Title
1	6PE5213ME	Robotic Engineering
2	6PE5214ME	Advanced Manufacturing Processes
3	6PE5215ME	Advanced Engineering Materials
4	6PE5216ME	Integrated Product Design And Development

PC: Program Core PE: Professional Elective OE: Open Elective AD: Audit Course
 MC: Mandatory Course HS: Humanities and social science

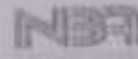
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College Code: 1607

SCHEME OF INSTRUCTION & EXAMINATION

M.E. (Mechanical Engineering)

IV Semester Specialization in
CAD/CAM

S. No.	Course Type/Code	Course Name	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	6PC5457ME	Dissertation Phase – II	-	-	28	28	-	200	3	14
Total			-	-	28	28	-	200		14

PC: Program Core PE: Professional Elective OE: Open Elective AD: Audit Course
MC: Mandatory Course HS: Humanities and social science

L: Lecture T: Tutorial P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

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MCET (AUTONOMOUS) MBA STRUCTURE & SYLLABUS MBA Semester- I

Course Code	Course Title	Nature	HPW		Credits	Max Marks (CIE+SEE) (40+60=100)
			L	P		
MB101C	Management & Organizational Behaviour	Core	4	-	4	40+60
MB102C	Accounting for Management	Core	4	-	4	40+60
MB103C	Marketing Management	Core	4	-	4	40+60
MB104C	Statistics for Management	Core	4	-	4	40+60
MB105C	Business Law and Ethics	Core	4	-	4	40+60
MB106C	IT Applications for Management	Core	4	-	4	40+60
MB107E	Open Elective-I	Open Elective - I	4	-	4	40+60
	a. Financial Markets and Services					
	b. Managerial Communication					
MB151C	Computer LAB	Practical	-	2	1	40+60
Total credits at the end of I Semester			28	2	-	-
			30	29	800	

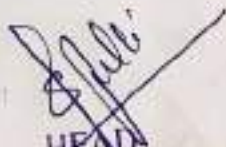
- HPW – Hburs Per Week
- CIE – Continuous Internal Evaluation
- SEE – Semester End Exam


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MCET (AUTONOMOUS) MBA SYLLABUS
MBA Semester- II

Course Code	Course Title	Nature	HPW		Credits	Max Marks (CIE+SEE) (40+60=100)
			L	P		
MB201C	Human Resource Management	Core	4	-	4	40+60
MB202C	Financial Management	Core	4	-	4	40+60
MB203C	Operations Research	Core	4	-	4	40+60
MB204C	Total Quality Management	Core	4	-	4	40+60
MB205C	Business Research Methods	Core	4	-	4	40+60
MB206C	Economics for Managers	Core	4	-	4	40+60
MB207E	Open Elective-II	Open Elective - II				
	a. Innovation Management		4	-	4	40+60
	b. Customer Relationship Management					
MB208C	Seminar Presentation (CIE ONLY)	-	-	2	2	50
Semester credits			28	2	-	-
			30		30	750
Total Credits at the end of II semester			60	59	1550	

- HPW – Hours Per Week
- CIE – Continuous Internal Evaluation
- SEE – Semester End Exam


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MCET (AUTONOMOUS) MBA SYLLABUS
MBA Semester- III

Course Code	Course Title	Nature	HPW	Credits	Max Marks (CIE+SEE) (40+60=100)	
MB301C	Operations Management	Core	4	4	40+60	
MB302C	E-Business	Core	4	4	40+60	
MB303C	Entrepreneurship Development	Core	4	4	40+60	
MB304C	Global Business Management	Core	4	4	40+60	
MB305E	Discipline Specific Elective:	DSE	8	8	-	
	Finance:		-	-	-	
MB305E-F-I	Investment Management		4	4	40+60	
MB305E-F-II	International Finance		4	4	40+60	
	Marketing :		-	-	-	
MB305E-M-I	Digital Marketing		4	4	40+60	
MB305E-M-II	Advertisement and Retail Management		4	4	40+60	
	Human Resource:		-	-	-	
MB305E-HR-I	Industrial Relations and Labour Laws		4	4	40+60	
MB305E-HR- II	Organisation Development		4	4	40+60	
	Systems :		-	-	-	
MB305E-S-I	Data Base Management System		4	4	40+60	
MB305E-S-II	Business Analytics		4	4	40+60	
MB306C	Synopsis of Project Work (CIE ONLY)		-	2	2	50+Nil
Semester credits			26	26	650	
Total Credits at the end of III semester			86	85	2200	

- HPW – Hours Per Week
- CIE – Continuous Internal Evaluation
- SEE – Semester End Exam


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**MCET (AUTONOMOUS) MBA SYLLABUS
MBA Semester- IV**

Course Code	Course Title	Nature	HPW	Credits	Max Marks (CIE+SEE) (40+60=100)	
MB401C	Strategic Management	Core	4	4	40+60	
MB402C	Business Intelligence	Core	4	4	40+60	
MB403C	Supply Chain Management	Core	4	4	40+60	
MB404E	Discipline Specific Elective:	DSE	8	8	-	
	Finance:		-	-	-	
MB404E-F-I	Financial Risk Management		4	4	40+60	
MB404E-F-II	Banking and Insurance		4	4	40+60	
	Marketing :		-	-	-	
MB404E-M-I	Buyer Behaviour		4	4	40+60	
MB404E-M-II	Services Marketing		4	4	40+60	
	Human Resource:		-	-	-	
MB404E-HR-I	Leadership and Change Management		4	4	40+60	
MB404E-HR-II	Performance Management		4	4	40+60	
	Systems :		-	-	-	
MB404E-S-I	Data Visualisation		4	4	40+60	
MB404E-S-II	Data Mining for Business		4	4	40+60	
MB405C	Project Work*		-	2	6	0+150
Semester credits			22	26	650	
Total Credits at the end of IV semester			108	111	2850	

- HPW – Hours Per Week
- CIE – Continuous Internal Evaluation
- SEE – Semester End Exam

Project Work* - Comprises of :

- 1) Project Report = 75 marks
- 2) Final Presentation = 50 marks and
- 3) Viva Voce = 25 marks

[Signature]

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