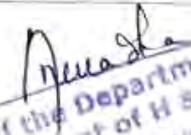


Scheme of Instruction & Examination
B.E. I - SEMESTER
CIVIL ENGINEERING

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

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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	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

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Anusha
Head of the Department
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Methodist College of Engg. & Tech,
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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 Examinati on		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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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

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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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	SEE	
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		Credits
			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

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Amasha
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Department of H & S
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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

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: 1). Each Contact Hour is a Clock hour

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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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Semester - II										
S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		Credits	
			Hours Per week			Duration in Hrs	Maximum Marks	CIE		SEE
			L	T	P/D					
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

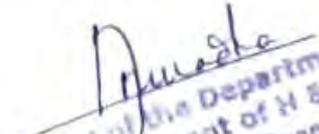
MC: Mandatory Courses

CIE: Continuous Internal Evaluation

SEE: Semester End Examination

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

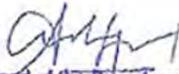
Note: Each Contact Hour is a Clock hour


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SCHEME OF INSTRUCTION & EXAMINATION

B.E. (Civil Engineering) III – SEMESTER

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pr/ Drg	CIE	SEE	
Theory Courses								
1	BS 205 MT	Mathematics – III	3	1	-	30	70	4
2	ES 301 EE	Basic Electrical Engineering	3	-	-	30	70	3
3	PC 401 CE	Building Materials and Construction	3	-	-	30	70	3
4	PC 402 CE	Solid Mechanics	3	-	-	30	70	3
5	PC 403 CE	Fluid Mechanics	3	-	-	30	70	3
6	PC 404 CE	Surveying and Geomatics	3	-	-	30	70	3
Practical/ Laboratory Courses								
7	PC 451CE	Fluid Mechanics Laboratory	-	-	2	25	50	1
8	PC 452CE	Surveying Laboratory	-	-	2	25	50	1
9	ES 354CE	Building Drawing & Drafting Laboratory	-	-	2 x 3 hrs	25	50	3
			20	1	10			24

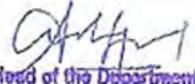

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SCHEME OF INSTRUCTION & EXAMINATION

B.E. (Civil Engineering) IV– SEMESTER

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pr/Drg	CIE	SEE	
Theory Courses								
1	HS 103CM	Finance and Accounting	3	-	-	30	70	3
2	HS102 EG	Effective Technical Communication in English	2	-	-	30	70	2
3	ES 304 CE	Engineering Geology	3	-	-	30	70	3
4	PC 405CE	Mechanics of Materials	3	-	-	30	70	3
5	PC 406CE	Hydraulic Engineering	3	-	-	30	70	3
6	PC 407 CE	Design of Reinforced Concrete Structures	3	-	-	30	70	3
7	PC408 CE	Hydrology	3	-	-	30	70	3
Practical/ Laboratory Courses								
8	ES 355 CE	Engineering Geology Laboratory	-	-	2	25	50	1
9	PC 453 CE	Mechanics of Materials Laboratory	-	-	2	25	50	1
10	PC 454 CE	Hydraulic Engineering Laboratory	-	-	2	25	50	1
		Survey Camp *						
			20	-	6			23

* Survey Camp is to be conducted after the IV Semester in the Summer Vacation. To be evaluated in V Sem


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SCHEME OF INSTRUCTION & EXAMINATION
B.E. V – Semester
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	Pr/ Drg	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC321CE	Structural Analysis - I	3	1	-	3	30	70	3	3
2	PC322CE	Hydraulic Engineering	3	-	-	3	30	70	3	3
3	PC323CE	Structural Engineering Design and Detailing	2	1	-	3	30	70	3	3
4	PC324CE	Geotechnical Engineering	2	1	-	3	30	70	3	3
5	PC325CE	Hydrology & Water Resources Engineering	2	1	-	3	30	70	3	3
6	PC326CE	Transportation Engineering	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	PC351CE	Fluid Mechanics Lab	-	-	2	2	25	50	3	1
8	PC352CE	Geotechnical Engineering Lab	-	-	2	2	25	50	3	1
9	PC353CE	Transportation Engineering Lab	-	-	2	2	25	50	3	1
			15	03	06	24	345	780		21

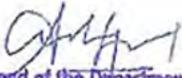
PC: Professional Course

L: Lectures **T:** Tutorial **Pr :** Practical **Drg:** 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.


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 King Koti Road, Abids, Hyderabad

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VI – Semester
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	Pr/Drg	Contact Hrs/Wk	CI E	SE E	Duration in Hrs	
Theory Courses										
1	PC331CE	Environmental Engineering	3	-	-	3	30	70	3	3
2	PC332CE	Estimation and Specifications	3	-	-	3	30	70	3	3
3		Professional Elective – 1	3	-	-	3	30	70	3	3
4		Professional Elective – 2	3	-	-	3	30	70	3	3
5		Professional Elective – 3	3	-	-	3	30	70	3	3
6		Open Elective – 1	3	-	-	3	30	70	3	3
7		Open Elective – 2	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
8	PC361CE	Environmental Engineering Laboratory	-	-	2	2	25	50	3	1
9	PC362CE	Computer Aided Civil Engineering Drafting, Analysis & Design Lab	-	-	2	2	25	50	3	1
10	PC363CE	Hydraulics Laboratory	-	-	2	2	25	50	3	1
			21	-	06	27	285	640		24

Professional Elective – 1			Professional Elective – 3		
S. No.	Course code	Course title	S. No.	Course code	Course title
1	PE301CE	Design of Hydraulic Structures	1	PE309CE	Steel Structures
2	PE302CE	Structural Analysis –II	2	PE310CE	Ground Water Engineering
3	PE303CE	Foundation Engineering	3	PE311CE	Geotechnical Design
4	PE304CE	Railway and Airport Engineering	4	PE312CE	Environmental Impact Assessment of Transportation Projects

Professional Elective – 2

S. No.	Course code	Course title			
1	PE305CE	Design of Concrete Structures-I			
2	PE306CE	Traffic Engineering and Management			
3	PE307CE	Sustainable Construction Methods			
4	PE308CE	Open Channel Flow & River Engineering			

Open Elective – 1			Open Elective – 2		
S. No.	Course code	Course title	S. No	Course code	Course title
1	OE350CE	Remote Sensing & Geographical Information	3	OE353CE	Principles of Green Building Practices
2	OE351CE	Road Safety Engineering	4	OE354CE	Disaster Mitigation & Management

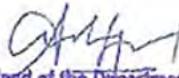
PC: Professional Course **PE:** Professional Elective **OE:** Open Elective

L: Lectures **T:** Tutorials **Pr :** Practical **Drg:** 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.


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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)

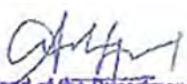

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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Civil Engineering) VIII– SEMESTER
AICTE MODEL CURRICULUM (for 2018-2022 & 2019-2023 Batches)

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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**SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Computer Science and Engineering) III – 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	HS204ME	Operations Research	3	-	-	3	30	70	3	3
2	BS206BZ	Biology for Engineers	3	-	-	3	30	70	3	3
3	ES214EC	Basic Electronics	3	-	-	3	30	70	3	3
4	ES216EC	Digital Electronics	3	-	-	3	30	70	3	3
5	PC221CS	Data Structures and Algorithms	3	-	-	3	30	70	3	3
6	PC222CS	Discrete Mathematics	3	-	-	3	30	70	3	3
7	PC223CS	Programming Languages	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
8	ES251EC	Basic Electronics Lab	-	-	2	2	25	50	3	1
9	PC252CS	Data Structures and Algorithms Lab	-	-	2	2	25	50	3	1
10	PC253CS	Advanced Computer Skills Lab	-	-	2	2	25	50	3	1
			21	-	06	27	285	640		24

HS: Humanities and Social Sciences BS: Basic Science ES: Engineering Science
 MC: Mandatory Course PC: Professional Core
 L: Lecture T: Tutorial P: Practical D: Drawing
 CIE: Continuous Internal Evaluation SEE: Semester End Evaluation (Univ. Exam)
 PY: Philosophy, BZ: Biology/ Life Sciences, CE: Civil Engineering, CS: Computer Science and Engineering
 EC: Electronics and Communication Engineering, ME: Mechanical Engineering.

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.
- All the mentioned **Mandatory Courses** should be offered either in I–Semester or II–Semester only **from the academic year 2019-2020**.
- For those of the students admitted during the academic year 2018-2019, since the Mandatory Courses were not offered during the I–Semester or II–Semester, they should be offered either in III–Semester or IV–Semester of the **academic year 2019-2020**.


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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Computer Science and Engineering) IV – 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	HS201EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
2	HS202CM	Finance and Accounting	3	-	-	3	30	70	3	3
3	BS207MT	Mathematics – III (Probability & Statistics)	3	-	-	3	30	70	3	3
4	ES215EC	Signals and Systems	3	-	-	3	30	70	3	3
5	PC231CS	OOP using JAVA	3	-	-	3	30	70	3	3
6	PC232CS	Computer Organization	3	-	-	3	30	70	3	3
7	PC233CS	Database Management Systems	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
8	PC261CS	Computer Organization Lab	-	-	2	2	25	50	3	1
9	PC262CS	OOP using JAVA Lab	-	-	2	2	25	50	3	1
10	PC263CS	Database Management Systems Lab	-	-	2	2	25	50	3	1
			23	-	06	29	315	710		24

HS: Humanities and Social Sciences BS: Basic Science ES: Engineering Science
 MC: Mandatory Course PC: Professional Core
 L: Lecture T: Tutorial P: Practical D: Drawing
 CIE: Continuous Internal Evaluation SEE: Semester End Evaluation (Univ. Exam)
 PO: Political Science, EG: English, CM: Commerce, MT: Mathematics,
 CS: Computer Science and Engineering, EC: Electronics and Communication Engineering,

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.
- All the mentioned **Mandatory Courses** should be offered either in I–Semester or II–Semester only **from the academic year 2019-2020**.
- For those of the students admitted during the academic year 2018-2019, since the Mandatory Courses were not offered during the I–Semester or II–Semester, they should be offered either in III–Semester or IV–Semester of the **academic year 2019-2020**.
- The students have to undergo a Summer Internship of two-week duration after IV – Semester and credits will be awarded in V – Semester after evaluation.


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

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.	PC 501 CS Core-7	Software Engineering	3	1	-	4	30	70	3	3
2.	PC 502 CS Core-8	Operating Systems	3	1	-	4	30	70	3	3
3.	PC 503 CS Core-9	Automata Languages & Computation	3	1	-	4	30	70	3	3
4.	PE-I	Professional Elective-I	3	-	-	3	30	70	3	3
5.	PE-II	Professional Elective-II	3	-	-	3	30	70	3	3
6.	PE-III	Professional Elective-III	3	-	-	3	30	70	3	3
Practical/Laboratory Course										
7.	PC531 CS	Software Engineering Lab	-	-	2	2	25	50	3	1.5
8.	PC532 CS	Operating Systems Lab	-	-	2	2	25	50	3	1.5
9.	PW533 CS	Mini Project	-	-	2	2	25	50	3	1
Total			18	03	06	27	255	570		22

Profession Elective – I	
Course Code	Course Title
PE 511 CS	Artificial Intelligence
PE 512 CS	Advanced Computer Architecture
PE 513 CS	Image Processing

Profession Elective – II	
Course Code	Course Title
PE 521 CS	Web and Internet Technologies
PE 522 CS	Embedded Systems
PE 523 CS	Graph Theory
PE 524 CS	Data Analytics

Profession Elective – III	
Course Code	Course Title
PE 531 CS	Block Chain Technologies
PE 532 CS	Information Retrieval Systems
PE 533 CS	Soft Computing
PE 534 CS	Computer Graphics


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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Computer Science and Engineering) VI – SEMESTER

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 Course										
1.	PC 601 CS Core-10	Compiler Design	3	1	-	4	30	70	3	3
2.	PC 602 CS Core-11	Computer Networks	3	1	-	4	30	70	3	3
3.	PC 603 CS Core 12	Design and Analysis of Algorithms	3	1	-	3	30	70	3	3
4.	PE –IV	Professional Elective - IV	3	-	-	3	30	70	3	3
5.	PE –V	Professional Elective -V	3	-	-	3	30	70	3	3
6.	OE-I	Open Elective-I	3	-	-	-	30	70	3	3
Practical/Laboratory Course										
7.	PC631 CS	Compiler Design Lab	-	-	2	2	25	50	3	1
8.	PC632 CS	Computer Networks Lab	-	-	2	2	25	50	3	1
9.	PC 633 CS	Design and Analysis of Algorithms Lab	-	-	2	2	25	50	3	1
10.	SI 671 CS	Summer Internship*	-	-	-	-	-	-	-	-
Total			18	3	6	27	205	570		21

Profession Elective – IV	
Course Code	Course Title
PE 641CS	Advanced Operating Systems
PE 642 CS	Cloud Computing
PE 643 CS	Speech and Natural Language Processing
PE 644 CS	Machine Learning

Profession Elective – V	
Course Code	Course Title
PE 651 CS	Data Mining
PE 652CS	Human Computer Interaction
PE 653 CS	Digital Forensics
PE 654 CS	Internet of Things

Open Elective - I	
Course Code	Course Title
OE 601	Soft Skills & Interpersonal Skills
OE 602	Human Resource Development and Organizational Behaviour
OE 603	Cyber Law and Ethics

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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Computer Science and Engineering) VII SEMESTER

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:

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

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

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


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

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 AL & 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


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**SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Electrical and Electronics Engineering) III – 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	ES302CE	Engineering Mechanics	3	1	-	4	30	70	3	4
2	BS205MT	Mathematics – III	3	1	-	4	30	70	3	4
3	PC401EE	Electrical Circuit Analysis	3	-	-	3	30	70	3	3
4	PC402EE	Electromagnetic Fields	3	-	-	3	30	70	3	3
5	PC403EE	Electrical Machines – I	3	1	-	4	30	70	3	4
6	PC403EC	Analog Electronic Circuits	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
7	PC451EE	Electrical Circuits Lab	-	-	2	2	25	50	3	1
8	PC452EE	Computer Aided Electrical Drawing Lab	-	-	2	2	25	50	3	1
9	PC453EC	Analog Electronic Circuits Lab	-	-	2	2	25	50	3	1
Total			18	3	6	27	255	570	-	24

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.


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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Electrical and Electronics Engineering) IV – 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	HS102EG	Effective Technical Communication in English	2	-	-	2	30	70	3	2
2	PC408EE	Power Systems – I	3	-	-	3	30	70	3	3
3	ES305ME	Energy Sciences and Engineering	2	-	-	2	30	70	3	2
4	PC409EE	Electrical Machines – II	3	1	-	4	30	70	3	4
5	PC410EE	Digital Electronics and Logic Design	3	-	-	3	30	70	3	3
6	PC411EE	Power Electronics	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
7	PC455EE	Electrical Machines Lab – I	-	-	2	2	25	50	3	1
8	PC456EE	Power Electronics Lab	-	-	2	2	25	50	3	1
9	PC457EE	Digital Electronics and Logic Design Lab	-	-	2	2	25	50	3	1
Total			16	01	06	23	330	570	-	20

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.


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

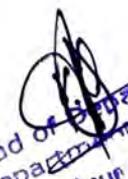
S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC235EE	Electrical Machines – II	3	1	-	4	30	70	3	4
2	PC236EE	Power Systems – I	3	-	-	3	30	70	3	3
3	PC237EE	Linear Control Systems	3	-	-	3	30	70	3	3
4	PC238EE	Microprocessors and Microcontrollers	3	-	-	3	30	70	3	3
5	PC239EE	Signals and Systems	3	-	-	3	30	70	3	3
6	PE1__EE	Professional Elective - I	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	PC263EE	Electrical Circuits Lab	-	-	2	2	25	50	3	1
8	PC264EE	Control Systems Lab	-	-	2	2	25	50	3	1
9	PC265EE	Power Electronics Lab	-	-	2	2	25	50	3	1
			18	01	06	25	255	570	-	22

Professional Elective – I		
1.	PE101EE	Electric Distribution System
2.	PE102EE	Renewable Energy Sources
3.	PE103EE	Introduction to Electric Vehicles

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 Engineering,

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. (Electrical and 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	PC240EE	Power Systems – II	3	-	-	3	30	70	3	3
2	PC241EE	Electrical Measurements and Instrumentation	3	1	-	4	30	70	3	4
3	PC242EE	Digital Signal Processing and Applications	3	1	-	3	30	70	3	4
4	PC243EE	Utilization of Electrical Energy	3	-	-	3	30	70	3	3
5	PE2__EE	Professional Elective - II	3	-	-	3	30	70	3	3
6	PE3__EE	Professional Elective – III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	PC266EE	Electrical Machines Lab – II	-	-	2	2	25	50	3	1
8	PC267EE	Measurements and Instrumentation Lab	-	-	2	2	25	50	3	1
9	PC268EE	Microprocessors and Microcontrollers Lab	-	-	2	2	25	50	3	1
10	PC901EE	Summer Internship*	Six Weeks during Summer Vacation							
			18	1	06	25	255	570	--	23

Professional Elective – II		
1.	PE201EE	Power Electronic Applications to Power Systems
2.	PE202EE	Electrical Energy Conservation and Auditing
3.	PE203EE	Power System Reliability
Professional Elective – III		
1.	PE301EE	Programming Logic Controllers
2.	PE302EE	Linear Integrated Circuits
3.	PE303EE	Digital Control Systems

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 Engineering

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) 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:

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.

SCHEME OF INSTRUCTION & EXAMINATION
B.E. III- 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	HS102EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
2	HS103CM	Finance and Accounting	3	-	-	3	30	70	3	3
3	ES 303EC	Digital Electronics	3	1	-	4	30	70	3	4
4	ES304EC	Probability Theory and Stochastic Processes	3	1	-	4	30	70	3	4
5	PC401EC	Electronic Devices	3		-	3	30	70	3	3
6	PC402EC	Network Theory	3	1	-	4	30	70	3	4
Practical/Laboratory Course										
7	PC451EC	Electronic Devices and Circuits Lab	-	-	2	2	25	50	3	1
8	PC452EC	Electronic Workshop Lab	-	-	2	2	25	50	3	1
Total			18	3	4	25	230	520	24	23

PC: Professional Course

MC: Mandatory Course

L: Lecture

T: Tutorial

P: Practical

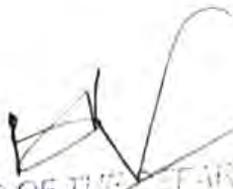
D: Drawing

G: Grade (E/VG/G/S/U)

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 ENGG. & TECH.
 ABIDS, HYDERABAD.

SCHEME OF INSTRUCTION & EXAMINATION
B.E. IV- 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	ES305EC	Signals and Systems	3	1	-	4	30	70	3	4
2	PC403EC	Analog Electronic Circuits	3	-	-	3	30	70	3	3
3	PC404EC	Computer Organization and Architecture	3	-	-	3	30	70	3	3
4	PC405EC	Electromagnetic Waves & Transmission Lines	3	-	-	3	30	70	3	3
5	PC406EC	Pulse and Linear Integrated Circuits	3	-	-	3	30	70	3	3
6	PC407EC	Electronic Measurements and Instrumentation	3	-	-	3	30	70	3	3
Practical/Laboratory Course										
7	PC453EC	Analog Electronic Circuits Lab	-	-	2	2	25	50	3	1
8	PC454EC	Pulse and Linear Integrated Circuits Lab	-	-	2	2	25	50	3	1
Total			18	1	4	23	230	520	24	21

HS: Humanities and Social Sciences

BS: Basic Science

ES: Engineering Science

MC: Mandatory Course

PC: Professional Core

L: Lecture T: Tutorial

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Evaluation (Univ. Exam)

PY: Philosophy, BZ: Biology/ Life Sciences,

CE: Civil Engineering,

MP: Mechanical / Production Engineering,

EC: Electronics and Communication 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


 HEAD OF THE DEPARTMENT
 DEPARTMENT OF ECE
 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	PC501EC	Analog Communication	3	-	-	3	30	70	3	3
2	PC502EC	Digital Signal Processing	3	1	-	4	30	70	3	4
3	PC503EC	Automatic Control Systems	3	1	-	4	30	70	3	4
4	PC504EC	Antenna and wave Propagation	3	-	-	3	30	70	3	3
5	PC505EC	Microprocessors & Microcontrollers	3	1	-	4	30	70	3	4
Practical/Laboratory Course										
8	PC551EC	Systems and Signal Processing Lab	-	-	2	2	25	50	2	1
9	PC552EC	Microprocessor and Microcontroller Lab	-	-	2	2	25	50	2	1
10	PC553EC	Mini Project	-	-	2	2	50	-	2	1
Total			18	3	6	27	280	520	24	21

PC: Professional Course

MC: Mandatory Course

L: Lecture

T: Tutorial

P: Practical

D: Drawing

G: Grade (E/VG/G/S/U)

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note-1:

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

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

(Handwritten Signature)

HEAD OF THE DEPARTMENT
 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
 FACULTY OF ENGINEERING, O. U. WARRANGAL

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 Courses										
1	PC601EC	Digital Communication	3	-	-	3	30	70	3	3
2	PC602EC	Digital system Design with Verilog	3	-	-	3	30	70	3	3
3	PC603EC	Data Communication and computer networking	3	1	-	4	30	70	3	4
4	PC604EC	Electronic Measurements and Instrumentation	3	-	-	3	30	70	3	3
5	PE – I	Professional Elective-I	3	-	-	3	30	70	3	3
6	OE – I	Open Elective-I	3	-	-	3	30	70	3	3
Practical/Laboratory Courses										
7	PC651EC	Communication Lab	-	-	2	2	25	50	3	1
8	PC652EC	DCCN Lab	-	-	2	2	25	50	3	1
9	PC653EC	Digital system Design with Verilog Lab	-	-	2	2	25	50	3	1
10	PC654EC	Summer Internship*	-	-	-	-	50	-	-	2
Total			18	1	6	24	305	570	27	24

PC: Professional Course

PE: Professional Elective

OE: Open Elective

MC: Mandatory Course

SI: Summer Internship

HS: Humanities and Social

Sciences

L: Lecture

T: Tutorial

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note-1:

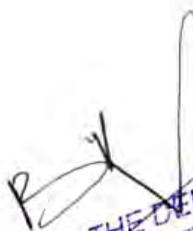
- Each contact hour is a Clock Hour
- The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment

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.

Open Elective-I:			Professional Elective – I		
S.No	Course Code	Course Title	S.No.	Course Code	Course Title
1	OE601EC	Principles of Electronic Communications	1	PE671EC	Image and Video Processing
2	OE602EC	Fundamental Digital design using Verilog HDL	2	PE672EC	Advanced Microcontrollers
			3	PE673EC	Optical Communications
			4	PE674EC	IOT Sensors


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

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
Total			21	-	8	29	310	590	27	25

PC: Professional Course

MC: Mandatory Course

L: Lecture T: Tutorial P: Practical

D: Drawing G: Grade (E/VG/G/S/U)

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note-1:

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

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


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

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	PEXXXEC	Professional Elective – III	3	-	-	3	30	70	3	3
2	PEXXXEC	Professional Elective – IV	3	-	-	3	30	70	3	3
3	PEXXXEC	Professional Elective – V	3	-	-	3	30	70	3	3
Practical/Laboratory Courses										
4	PW96IEC	Project Work – II	-	-	12	12	50	100	-	6
Total			9	-	12	21	140	310	9	15

PC: Professional Course

PE: Professional Elective

OE: Open Elective

MC: Mandatory Course

SI: Summer Internship

HS: Humanities and Social

Sciences

L: Lecture

T: Tutorial

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note-1:

3. Each contact hour is a Clock Hour
4. 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.

Proposed ECE Dept Professional Electives

PE1	PE2	PE3	PE4	PE5
Image and Video Processing(PE671EC)	Mobile and Cellular Communications(PE 721 EC)	Field Programmable Gate Arrays (PE 821 EC)	Wireless Sensor Networks (PE 831 EC)	Real Time Operating Systems (PE 841 EC)
Advanced Microcontrollers (PC 672EC)	Speech Signal Processing(PE 722 EC)	Artificial Intelligence & Machine Learning (PE 822 EC)	Global Navigational Satellite Systems (PE 832 EC)	Fuzzy Logic And Applications (PE 842 EC)
Optical Communications(PC 673EC)	Nano Technology (PE 723 EC)	Neural Networks (PE 823 EC)	System Verilog(PE 833 EC)	Radar Systems(PE 843 EC)
IoT Sensors(PC 674EC)	Digital Signal Processor Architectures (PE 724 EC)	Satellite Communications (PE 824 EC)	Multirate Signal Processing (PE 834 EC)	Design of Fault Tolerant Systems(PE 844 EC)

Open Elective – I

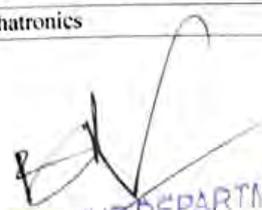
S. No.	Course Code	Course Title
1	OE 632 AE	Automotive Safety & Ergonomics
2	OE601CE	Disaster Management
3	OE602CE	Geo Spatial Techniques
4	OE 601CS	Operating Systems
5	OE 602CS	OOP using Java
6	OE601 EC	Principles of Embedded Systems **
7	OE602 EC	Digital System Design using Verilog HDL **
8	OE601 EE	Reliability Engineering
9	OE 602 EE	Basics of Power Electronics
10	OE601 ME	Industrial Robotics
11	OE602 ME	Material Handling
12	OE601 LA	Intellectual Property Rights

Open Elective – II

S. No.	Course Code	Course Title
1	OE771 CE	Green Building Technologies
2	OE 772 CS	Data Science Using R
3	OE 773 EC**	Fundamentals of IoT
4	OE 774 EE	Non-Conventional Energy Sources
5	OE 775 ME	Entrepreneurship

Open Elective – III

S.No	Course	Course Title
1	OE 781 CE	Road Safety Engineering
2	OE 782 IT	Software Engineering
3	OE 783 EC**	Principles of Electronic Communications
4	OE 784 EE	Illumination and Electric Traction systems
5	OE 785 ME	Mechatronics


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

For the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION
AICTE Model Curriculum
B. E. III – 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	HS102EG	Effective Technical Communication in English	2	-	-	2	30	70	3	2
2	HS103CM	Finance and Accounting	3	-	-	3	30	70	3	3
3	BS205MT	Mathematics-III	3	-	-	3	30	70	3	3
4	ES303ME	Engineering Mechanic-I	3	-	-	3	30	70	3	3
5	ES304EC	Basic Electronics	3	-	-	3	30	70	3	3
6	PC401ME	Metallurgy and Material Science	3	-	-	3	30	70	3	3
7	PC402ME	Thermodynamics	3	-	-	3	30	70	3	3
Practical / Laboratory Course										
8	PC451ME	Metallurgy and Material Testing Lab	-	-	2	2	25	50	3	1
9	PC452ME	Machine Drawing and Modeling Lab	-	-	2	2	25	50	3	1
Total										22

MC: Mandatory Course.

BS: Basic Science

ES: Engineering Science

L: Lecture

T: Tutorial

P: Practical

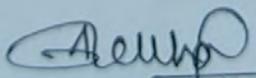
D: Drawing

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 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

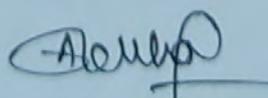
SCHEME OF INSTRUCTION & EXAMINATION
AICTE Model Curriculum
B. E. IV – Semester (MECHANICAL ENGINEERING)
(Proposed for the Academic year 2020-2021)

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	ES304ME	Engineering Mechanic-II	3	-	-	3	30	70	3	3
2	PC403ME	Fluid Mechanics	3	-	-	3	30	70	3	3
3	ES305ME	Energy Sciences and Engineering	2	-	-	2	30	70	3	2
4	PC404ME	Mechanics of Materials	3	-	-	3	30	70	3	3
5	PC405ME	Applied Thermodynamics	3	-	-	3	30	70	3	3
6	PC406ME	Kinematics of Machinery	3	-	-	3	30	70	3	3
7	PC407ME	Manufacturing Processes	3	-	-	3	30	70	3	3
Practical / Laboratory Course										
7	PC453ME	Thermal Engineering Lab -I	-	-	2	2	25	50	3	1
8	PC454ME	Manufacturing Processes Lab	-	-	2	2	25	50	3	1
Total										22

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 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.

**SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Mechanical Engineering) V – SEMESTER**

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	PC501ME	Fluid Mechanics and Hydraulic Machinery	3	-	-	3	30	70	3	3
2	PC502ME	Design of Machine Elements	3	-	-	3	30	70	3	3
3	PC503ME	Dynamics of Machines	3	-	-	3	30	70	3	3
4	PC504ME	Metal Cutting and Machine Tools	3	-	-	3	30	70	3	3
5	PC505ME	Heat Transfer	3	-	-	3	30	70	3	3
Laboratory Course										
6	PC591ME	Thermal Engineering Lab-2	-	-	2	2	25	50	3	1
7	PC592ME	Dynamics of Machines Lab	-	-	2	2	25	50	3	1
8	PC593ME	Fluid Mechanics and Hydraulic Machinery Lab	-	-	2	2	25	50	3	1
		Total	15	-	06	21				18

PC: Professional Core

PE: Professional Elective

OE: Open Elective

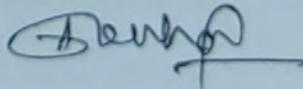
L: Lecture T: Tutorial

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Evaluation (Univ. Exam)



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

**SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Mechanical Engineering) VI – SEMESTER**

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	PC601ME	Machine Design	3	-	-	3	30	70	3	3
2	PC602ME	Metrology and Instrumentation	3	-	-	3	30	70	3	3
3	PC603ME	Finite Element Analysis	3	-	-	3	30	70	3	3
4	PEME - 1	Professional Elective – I	3	-	-	3	30	70	3	3
5	PEME - 2	Professional Elective – II	3	-	-	3	30	70	3	3
6	OEME - 1	Open Elective – 1	3	-	-	3	30	70	3	3
Laboratory Course										
7	PC691ME	Metrology and Machine Tools Lab	-	-	2	2	25	50	3	1
8	PC692ME	Computer Aided Engineering Lab	-	-	2	2	25	50	3	1
9		Summer Internship*								2
		Total	18	00	04	22				22

Open Elective - 1 (OE611ME) : Industrial Robotics (Not for Mechanical / Prod. / Automobile)

PROFESSIONAL ELECTIVE - I	
PE611ME	CAD/CAM
PE612ME	Automobile Engineering
PE613ME	Modern Machining and Forming Methods

Professional Elective-II		
S. No.	Course Code	Course Title
1.	PE621ME	Thermal Turbo Machines
2.	PE622ME	Production and Operations management
3.	PE623ME	Design For Manufacture

PC: Professional Core

PE: Professional Elective

OE: Open Elective

L: Lecture

T: Tutorial

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Evaluation (Univ. Exam)

(Signature)
M.O.D.

Mechanical Engineering Department
Jawahar Institute of Engineering & Tech
King Koti, Hyderabad-500 001.

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

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

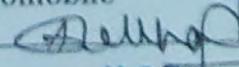
S. No.	Course Code	Course Title	Scheme of Instructions				Scheme of Examination			Credits
			L	T	P/D	Contact Hours/W	CIE	SEE	Duration in Hours	
Theory Course;										
1	PC701ME	Operations Research	3	-	-	3	30	70	3	3
2	PC702ME	Refrigeration & Air Conditioning	3	-	-	3	30	70	3	3
3	PE-III	Professional Elective-III	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

<i>Professional Elective-III</i>			<i>Professional Elective-IV</i>		
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
 L: Lecture
 P: Practical


H.O.D.
 Mechanical Engineering Department
 Techno's College of Engg & Tech
 Dnyanesh, Hyderabad-500 001.

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

BS: Basic Science
L: Lecture
P: Practical

ES: Engineering Science
T: Tutorial
D: Drawing
H.O.D.
Mechanical Engineering Department
Methodist College of Engg & Tech
King Koti, Hyderabad-500 001.

Note:

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


HEAD

Department of Business Management,
Methodist College of Engineering & Technology,
Abids, Hyderabad-500 001 (T.S.) India

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	4	-	4	40+60
	a. Innovation Management					
	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


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COLLEGE OF ENGINEERING & TECHNOLOGY

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Accredited by NAAC with A+ and NBA for UG Courses

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-1		
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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Mechanical Engineering Department
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College Code: 1607

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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College Code: 1607



Open Elective-I		
S. No.	Course Code	Course Title
1	6OE520ICE	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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Mechanical Engineering Department
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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										
1	Elective	Professional Elective – IV	3	-	-	3	30	70	3	3
2	Elective	Professional Elective – V	3	-	-	3	30	70	3	3
3	PC 5156 CD	Major Project Phase – I	-	-	20	20	100	-	3	10
Total			06	-	20	26	160	140		16

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	PC 5157 CD	Major Project Phase – II (Dissertation)	-	-	32	32	-	200	3	16
Total			-	-	32	32	-	200		16

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 (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.
3. ** Open Elective Subject is not offered to the students of Mechanical Engineering Department.
4. The students who are willing to register for MOOCs in the M.E. (ME) III – semester instead of Professional Electives – IV & V, should register for those of the courses, approved by the CBoS, OU and respective college MOOCs Coordinator. Those students are strictly not permitted to appear for either CIE or SEE of Professional Electives – IV & V if they abstain from attending the semester classwork. Further, for students willing to appear for both MOOCs and Professional Electives, they should fulfil the minimum attendance criteria.

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Mechanical Engineering Department
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List of subjects of Professional Core

S. No.	Course Code	Course Title
1	PC 5101 CD	Computer Aided Modelling and Design
2	PC 5102 CD	Computer Integrated Manufacturing
3	PC 5103 CD	Computer Aided Mechanical Design and Analysis
4	PC 5104 CD	Finite Element Techniques

List of subjects of Professional Electives I to V

S. No.	Course Code	Course Title
1	PE 5116 CD	Product Design and Process Planning
2	PE 5117 CD	Design for Manufacture
3	PE 5118 CD	Mechanics of Composite Materials
4	PE 5119 CD	Optimization Techniques
5	PE 5120 CD	Design of Press Tools
6	PE 5121 CD	Additive Manufacturing Technologies and Applications
7	PE 5122 CD	Fracture Mechanics
8	PE 5123 CD	Experimental Techniques and Data Analysis
9	PE 5124 CD	Vibration Analysis and Condition Monitoring
10	PE 5125 CD	Computational Fluid Dynamics
11	PE 5126 CD	Robotic Engineering
12	PE 5127 CD	Advanced Metrology
13	PE 5128 CD	Control of Dynamic Systems
14	PE 5129 CD	Advanced Materials Technology
15	PE 5130 CD	Failure Analysis and Design

List of Mandatory Courses

S. No.	Course Code	Course Title
1	MC 5161 ME	Research Methodology & IPR

List of Open Electives

S. No.	Course Code	Course Title
1	OE 9101 CE	Cost Management of Engineering Projects
2	OE 9102 CS	Business Analytics
3	OE 9103 EC	Embedded System Design
4	OE 9104 EE	Waste to Energy
5	OE 9105 ME**	Industrial Safety

Note: ** Open Elective Subject is not offered to the students of Mechanical Engineering Department.

List of subjects of Audit Course-I

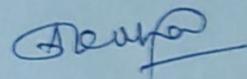
S. No.	Course Code	Course Title
1	AD 9001 HS	English for Research Paper Writing
2	AD 9002 CE	Disaster Management
3	AD 9003 HS	Sanskrit for Technical Knowledge
4	AD 9004 HS	Value Education

List of subjects of Audit Course-II

S. No.	Course Code	Course Title
1	AD 9011 HS	Constitution of India and Fundamental Rights
2	AD 9012 HS	Pedagogy Studies
3	AD 9013 HS	Stress Management by Yoga
4	AD 9014 HS	Personality Development through life Enlightenment Skills

List of Laboratory Courses

S. No.	Lab No.	Course Code	Course Title
1	I	PC 5151 CD	Advanced CAD Lab
2	II	PC 5152 CD	CAM and Automation Lab
3	III	PC 5153 CD	Computational Lab



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