Proposed for the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION

B.E (Computer Science and Engineering)

SEMESTER-I

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.	**Three Week Induction Program**									
2.	MC 802 CE	Environmental Sciences	2	-	-	2	30	70	3	-
3.	MC 803 PY	Essence of Indian Traditional Knowledge	2	-	-	2	30	70	3	-
4.	BS 201 MT	Mathematics-I	3	1	-	4	30	70	3	4
5.	BS 204 CH	Chemistry	3	1	-	4	30	70	3	4
6.	ES 302 CS	Programming for Problem Solving	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
7.	BS 252CH	Chemistry Lab	-	-	3	3	25	50	3	1.5
8.	ES 351 CS	Programming for Problem Solving Lab	-	-	2	2	25	50	3	1
9.	ES 352 ME	Workshop Practice	-	-	2x3	6	50	50	3	3
Total			**13**	**02**	**11**	**26**	**250**	**500**		**16.5**

BS: Basic Science ES: Engineering Science MC: Mandatory Course

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

CIE: Continuous Internal Evaluation SEE: Semester End Evaluation

Head of the Department
Department of CSE
Methodist College of Engg & Tech
Abids, Hyderabad.

Proposed for the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION

B.E (Computer Science and Engineering)

SEMESTER-II

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	MC 801 PO	Indian Constitution	2	-	-	2	30	70	3	-
2	HS 101 EG	English	2	-	-	2	30	70	3	2
3	BS 202 PH	Physics	3	1	-	4	30	70	3	4
4	BS 203MT	Mathematics-II	3	1	-	4	30	70	3	4
5	ES 301 EE	Basic Electrical Engineering	3	1	-	4	30	70	3	4
Practical / Laboratory Courses										
6	HS 151EG	English Lab	-	-	2	2	25	50	3	1
7	BS 251PH	Physics Lab	-	-	3	3	25	50	3	1.5
8	ES 353 CE	Engineering Graphics		-	3x2	6	50	50	3	3
9	ES 354 EE	Basic Electrical Engineering Lab	-	-	2	2	25	50	3	1
Total			**13**	**03**	**13**	**29**	**275**	**550**		**20.5**

Head of the Department
Department of CSE
Methodist College of Engg & Tech
Abids, Hyderabad.

Proposed for the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION

B.E (Computer Science and Engineering)

SEMESTER-II

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	MC 801 PO	Indian Constitution	2	-	-	2	30	70	3	-
2	HS 101 EG	English	2	-	-	2	30	70	3	2
3	BS 202 PH	Physics	3	1	-	4	30	70	3	4
4	BS 203MT	Mathematics-II	3	1	-	4	30	70	3	4
5	ES 301 EE	Basic Electrical Engineering	3	1	-	4	30	70	3	4
Practical / Laboratory Courses										
6	HS 151EG	English Lab	-	-	2	2	25	50	3	1
7	BS 251PH	Physics Lab	-	-	3	3	25	50	3	1.5
8	ES 353 CE	Engineering Graphics		-	3x2	6	50	50	3	3
9	ES 354 EE	Basic Electrical Engineering Lab	-	-	2	2	25	50	3	1
Total			**13**	**03**	**13**	**29**	**275**	**550**		**20.5**

Head of the Department
Department of CSE

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:

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.
3. All the mentioned **Mandatory Courses** should be offered either in I–Semester or II–Semester only **from the academic year 2019-2020**.
4. 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.**

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:

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.
3. All the mentioned **Mandatory Courses** should be offered either in I–Semester or II–Semester only **from the academic year 2019-2020**.
4. 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.**
5. 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.

Head of the Department
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Abids, Hyderabad.

Profession Elective – IV	
Course Code	**Course Title**
PE 641 CS	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 Inte
PE 653 CS 11	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 an Organizational Behaviour
OE 603	Cyber Law and Ethics

Head of the Dep
Department of
Methodist College of E
Abids, Hydera

SCHEME OF INSTRUCTION

BE (COMPUTER SCIENCE AND ENGINEERING)

AICTE MODEL CURRICULUM

CSE - SEMESTER - V

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

Head of the Department

SCHEME OF INSTRUCTION
BE (COMPUTER SCIENCE AND ENGINEERING)
CSE - SEMESTER - VI

S. No	Course Code	Course Title	Scheme of Instruction				Scheme of Examination		
			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
2.	PC 602 CS Core-11	Computer Networks	3	1	-	4	30	70	3
3.	PC 603 CS Core 12	Design and Analysis of Algorithms	3	1	-	3	30	70	3
4.	PE –IV	Professional Elective - IV	3	-	-	3	30	70	3
5	PE –V	Professional Elective -V	3	-	-	3	30	70	3
6	OE-I	Open Elective-I	3	-	-	-	30	70	3
Practical/Laboratory Course									
7	PC631 CS	Compiler Design Lab	-	-	2	2	25	50	3
8	PC632 CS	Computer Networks Lab	-	-	2	2	25	50	3
9	PC 633 CS	Design and Analysis of Algorithms Lab	-	-	2	2	25	50	3
10	SI 671 CS	Summer Internship*	-	-	-	-	-	-	-
Total			**18**	**3**	**6**	**27**	**205**	**570**	

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VII - Semester
(COMPUTER SCIENCE AND 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	**PC 701 CS**	Compiler Construction	3	1	-	4	30	70	3	3
2	**PC 702 CS**	Distributed Systems	3	1	-	4	30	70	3	3
3	**PC 703 CS**	Information Security	3	1	-	4	30	70	3	3
4	**PC 704 CS**	Data Mining	3	1	-	4	30	70	3	3
5		Open Elective – II	3	-	-	3	30	70	3	3
6		Open Elective – III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
7	**PC 751 CS**	Compiler Construction Lab	-	-	2	2	25	50	-	1
8	**PC 752 CS**	Distributed Systems Lab	-	-	2	2	25	50	-	1
9	**PC 753 CS**	Data Mining Lab	-	-	2	2	25	50	-	1
10	**PW 761 CS**	Project Work – I	-	-	4	4	50	-	-	2
11	**SI 762 CS**	Summer Internship	-	-	-	-	50	-	-	2
			18	**04**	**10**	**32**	**355**	**570**		**25**

Open Elective – II			**Open Elective – III**		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	**OE 771 CE**	Green Building Technologies	1	**OE 781 CE**	Road Safety Engineering
2	**OE 772 CS****	Data Science Using R Programming	2	**OE 782 IT****	Software Engineering
3	**OE 773 EC**	Fundamentals of IoT	3	**OE 783 EC**	Principles of Electronic Communications
4	**OE 774 EE**	Non-Conventional Energy Sources	4	**OE 784 EE**	Illumination and Electric Traction systems
5	**OE 775 ME**	Entrepreneurship	5	**OE 785 ME**	Mechatronics

PC: Professional Course PE: Professional Elective
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 practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.

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 CSE and IT Departments.

Head of the Department
Department of CSE
Methodist College of Engg. & Tech.

SCHEME OF INSTRUCTION& EXAMINATION
B.E. VIII - SEMESTER
(COMPUTER SCIENCE AND 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										
4	**PW 961 CS**	Project Work – II	-	-	16	16	50	100	-	8
			09	**-**	**16**	**25**	**140**	**310**		**17**

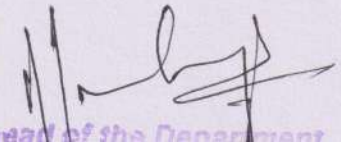
Professional Elective – III		
S. No.	Course Code	Course Title
1	**PE 821 CS**	Mobile Computing
2	**PE 822 CS**	Image Processing
3	**PE 823 CS**	Software Quality and Testing
4	**PE 824 CS**	Web Services and Architecture
5	**PE 825 CS**	Computational Intelligence

Professional Elective – IV		
S. No.	Course Code	Course Title
1	**PE 831 CS**	Embedded Systems
2	**PE 832 CS**	Information Retrieval Systems
3	**PE 833 CS**	Machine Learning
4	**PE 834 CS**	Natural Language Processing
5	**PE 835 CS**	Data Science using R Programming

Professional Elective – V		
1	**PE 841 CS**	Multicore and GPU Programming
2	**PE 842 CS**	Cloud Computing
3	**PE 843 CS**	Human Computer Interaction

PC: Professional Course PE: Professional Elective
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



SEMESTER-WISE SYLLABI OF COURSES

SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Civil Engineering) I- SEMESTER

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pr/ Drg	CIE	SEE	
Theory Courses								
1	BS 201 MT	Mathematics -I	3	1	-	30	70	4
2	BS 214 CH	Chemistry	3	1	-	30	70	4
3	ES 302 CS	Programming and Problem Solving	3	-	-	30	70	3
4	MC802CE	Environmental Sciences	2	-	-	30	70	-
Practical/ Laboratory Courses								
5	BS253 CH	Chemistry Laboratory	-	-	3	25	50	1.5
6	ES351 CS	Programming and Problem Solving Laboratory	-	-	2	25	50	1
7	ES 352 ME	Workshop Practice	-	-	2 x 3hrs	50	50	3
			9	**1**	**12**			**16.5**

***Mandatory Requirement: Three weeks induction program to be conducted before commencement of the coursework of Semester-I as per the guidelines given by AICTE**

SCHEME OF INSTRUCTION & EXAMINATION

B.E. (Civil Engineering) II – SEMESTER

S. No.	Course Code	Course Title	Scheme of Instruction			Scheme of Examination		Credits
			L	T	Pr/ Drg	CIE	SEE	
Theory Courses								
1	HS 101 EG	English	2	-	-	30	70	2
2	BS 203MT	Mathematics -II	3	1	-	30	70	4
3	BS 202 PH	Engineering Physics	3	1	-	30	70	4
4	ES 302 CE	Engineering Mechanics	3	1	-	30	70	4
Practical/ Laboratory Courses								
5	HS 151 EG	English Laboratory	-	-	2	25	50	1
6	BS 251 PH	Physics Laboratory	-	-	3	25	50	1.5
7	ES 353 CE	Engineering Graphics	-	-	2 x 3hrs	50	50	3
			11	**2**	**10**			**19.5**

* These courses, namely, Engineering Mechanics and Engineering Graphics and Design are also offered as service courses by the Department of Civil Engineering to the other departments.

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	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	~~MC112CE~~	~~Environmental Science~~	2	-	-	2	30	70	3	-
2	~~MC113PY~~	~~Essence of Indian Traditional Knowledge~~	2	-	-	2	30	70	3	-
3	MC204CE	Overview of Civil Engineering*	1	-	-	1	30	-	-	-
4	HS203MP	Industrial Psychology	3	-	-	3	30	70	3	3
5	BS206BZ	Biology for Engineers	3	-	-	3	30	70	3	3
6	ES211CE	Engineering Mechanics	2	1	-	3	30	70	3	3
7	ES213ME	Energy Sciences and Engineering	2	-	-	2	30	70	3	2
8	PC221CE	Solid Mechanics	3	-	-	3	30	70	3	3
9	PC222CE	Engineering Geology	2	-	-	2	30	70	3	2
10	PC223CE	Surveying and Geomatics	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
11	PC251CE	Engineering Geology Lab	-	-	2	2	25	50	3	1
12	PC252CE	Surveying Lab	-	-	2	2	25	50	3	1
			23	**01**	**04**	**28**	**350**	**800**		**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)

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.

3. All Mentioned **Mandatory Course** should be offered BE (All Branches) either in I-semester or II – Semester only **from the academic year 2019-2020**.
4. For those of the students admitted BE (All Branches) during the academic year 2018-2019 the Mandatory Courses were not offered during the I-semester or II –Semester may be compulsorily offered in either in III-semester or IV-semester **for the academic year 2019-2020 only**.

* Mandatory Course for Civil Engineering Students only

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	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	~~MC111PO~~	~~Indian Constitution~~	2	-	-	2	30	70	3	-
2	HS201EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
3	HS202CM	Finance and Accounting	3	-	-	3	30	70	3	3
4	BS205MT	Mathematics – III	3	-	-	3	30	70	3	3
5	ES212ME	Elements of Mechanical Engineering	3	-	-	3	30	70	3	3
6	PC231CE	Mechanics of Materials and Structures	3	-	-	3	30	70	3	3
7	PC232CE	Fluid Mechanics	3	-	-	3	30	70	3	3
8	PC233CE	Materials: Testing and Evaluation	2	-	-	2	30	70	3	2
Practical/ Laboratory Courses										
9	PC261CE	Solid Mechanics Lab	-	-	2	2	25	50	3	1
10	PC262CE	Materials: Testing and Evaluation Lab	-	-	2	2	25	50	3	1
			22	**-**	**04**	**26**	**290**	**660**		**22**

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)

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.

3. All Mentioned **Mandatory Course** should be offered BE (All Branches) either in I-semester or II – Semester only **from the academic year 2019-2020**.
4. For those of the students admitted BE (All Branches) during the academic year 2018-2019 the Mandatory Courses were not offered during the I-semester or II –Semester may be compulsorily offered in either in III-semester or IV-semester **for the academic year 2019-2020 only**.

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.

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	CIE	SEE	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.

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VII - Semester
(CIVIL 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	**PC 701 CE**	Str. Engg. Design and Drawing – II (Steel)	3	1	-	4	30	70	3	3
2	**PC 702 CE**	Estimation Costing & Specifications	3	1	-	4	30	70	3	3
3	**PC 703 CE**	Finite Element Techniques	3	-	-	3	30	70	3	3
4	**PC 704 CE**	Prestressed Concrete	3	-	-	3	30	70	3	3
5	**PC 705 CE**	Foundation Engineering	3	-	-	3	30	70	3	3
6		Open Elective – II	3	-	-	3	30	70	3	3
7		Open Elective – III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
8	**PC 751 CE**	Computer Application Lab	-	-	2	2	25	50	3	1
9	**PW 761 CE**	Project Work – I	-	-	4	4	50	-	-	2
10	**SI 762 CE**	Summer Internship	-	-	-	-	50	-	-	2
			21	**02**	**06**	**29**	**335**	**540**		**26**

Open Elective – II			**Open Elective – III**		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	**OE 771 CE****	Green Building Technologies	1	**OE 781 CE****	Road Safety Engineering
2	**OE 772 CS**	Data Science Using R Programming	2	**OE 782 IT**	Software Engineering
3	**OE 773 EC**	Fundamentals of IoT	3	**OE 783 EC**	Principles of Electronic Communications
4	**OE 774 EE**	Non-Conventional Energy Sources	4	**OE 784 EE**	Illumination and Electric Traction systems
5	**OE 775 ME**	Entrepreneurship	5	**OE 785 ME**	Mechatronics

PC: Professional Course PE: Professional Elective
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 practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.

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 Civil Engineering Department.

SCHEME OF INSTRUCTION& EXAMINATION
B.E. VIII - SEMESTER
(CIVIL 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	**PC 801 CE**	Construction Management & Technology	3	-	-	3	30	70	3	3
2		Professional Elective – III	3	-	-	3	30	70	3	3
3		Professional Elective – IV	3	-	-	3	30	70	3	3
4		Professional Elective – V	3	-	-	3	30	70	3	3
5	**MC 901 EG**	Gender Sensitization	3	-	-	3	30	70	3	-
Practical/ Laboratory Courses										
6	**PW 961 CE**	Project Work – II	-	-	16	16	50	100	-	8
7		Mandatory Course	-	-	3	3	50	-	3	-
			15	**-**	**19**	**34**	**250**	**450**		**20**

Professional Elective – III			**Professional Elective – IV**		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	**PE 821 CE**	Retrofitting and Rehabilitation of Structures	1	**PE 831 CE**	Structural Dynamics
2	**PE 822 CE**	Computer Aided Analysis and Design	2	**PE 832 CE**	Design with Geosynthetics
3	**PE 823 CE**	Applied Hydrology	3	**PE 833 CE**	Groundwater Management
4	**PE 824 CE**	Introduction to Climate Change	4	**PE 834 CE**	Intelligent Transportation Systems
Professional Elective – V			**Mandatory Course**		
1	**PE 841 CE**	Prefabrication Engineering	1	**MC 951 SP**	Yoga Practice
2	**PE 842 CE**	Principles of Green Building Practices	2	**MC 952 SP**	NSS
3	**PE 843 CE**	Advanced Reinforced Concrete Design	3	**MC 953 SP**	Sports
4	**PE 844 CE**	Traffic Engineering & Infrastructure Design			

PC: Professional Course PE: Professional Elective
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

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

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/W	CIE	SEE	Duration in Hrs	
MC: Three Week Induction Programme										
Theory Course										
1	MC 801 PO	Indian Constitution	2	-	-	2	30	70	3	-
2	BS 201 MT	Mathematics-I	3	1	-	4	30	70	3	4
3	BS 202 PH	Engineering Physics	3	1	-	4	30	70	3	4
4	ES 301 EE	Basic Electrical Engineering	3	1	-	4	30	70	3	4
Practical/Laboratory Course										
5	BS 251 PH	Engineering Physics Lab	-	-	3	3	25	50	3	1.5
6	ES 354 EE	Basic Electrical Engineering Lab	-	-	2	2	25	50	3	1
7	ES 353 CE	Engineering Graphics	-	-	3*2	6	50	50	3	3
Total			**11**	**3**	**11**	**25**	**220**	**430**	**21**	**17.5**

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)

PO: Political Science **MT:** Mathematics **PH:** Physics
EE: Electrical Engineering **CE:** Civil Engineering

Note:

1. Each contact hour is a ClockHour
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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SCHEME OF INSTRUCTION & EXAMINATION
B.E. II- Semester
(ELECTRONICS AND COMMUNICATION ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/W	CIE	SEE	Duration in Hrs	
Theory Course										
1	MC 802 CE	Environmental Science	2	-	-	2	30	70	3	-
2	MC 803 PY	Essence of Indian Traditional Knowledge	2	-	-	2	30	70	3	-
3	HS 101 EG	English	2	-	-	2	30	70	3	2
4	BS 203 MT	Mathematics-II	3	1	-	4	30	70	3	4
5	BS 204 CH	Engineering Chemistry	3	1	-	4	30	70	3	4
6	ES 302 CS	Programming for Problem Solving	3	-	-	3	30	70	3	3
Practical/Laboratory Course										
7	HS 151 EG	English Lab	-	-	2	2	25	50	3	1
8	BS 252 CH	Engineering Chemistry Lab	-	-	3	3	25	50	3	1.5
9	ES 351 CS	Programming for Problem Solving Lab	-	-	2	2	25	50	3	1
10	ES 352 ME	Workshop Practice	-	-	2*3	6	50	50	3	3
Total			**15**	**2**	**15**	**32**	**305**	**620**	**30**	**19.5**

HS: Humanities and Social Sciences **BS:** Basic Science **ES:** Engineering Science
MC: Mandatory Course

L: Lectures **T:** Tutorial **P:** Practical **D:** Drawing
CIE: Continuous Internal Evaluation **SEE:** Semester End Examination (Univ. Exam)

PY: Philosophy **EG:** English **MT:** Mathematics **CH:** Chemistry
CE: Civil Engineering, **CS:** Computer Science and Engineering, **ME:** Mechanical Engineering.

Note:

1. Each contact hour is a Clock Hour.
2. The students have to undergo a Summer Internship of Rural AgricultureWork Experience(RAWE) of one week duration after II-Semester and credits will be awarded in VII semesterafter evaluation.
3. Rural Agriculture Work Experience helps the students primarily to understand the rural situations,status of Agricultural Technologies adopted by farmers and village development plans and todevelop skills & attitude of working with farm families for overall development in rural area.
4. The main objectives of RAWE component are:
   - To make the students familiar with socio-economic conditions of the farmers.
   - To develop communication skills in students using extension teaching methods in transfer ofTechnologywherever necessary, to enable the student to complete the experiment.

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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	BS201EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
2	HS202CM	Finance and Accounting	3	-	-	3	30	70	3	3
3	ES 215EC	Digital Electronics	3	1	-	3	30	70	3	4
4	PC201EC	Probability Theory and Stochastic Processes	3	1	-	3	30	70	3	4
5	PC202EC	Electronic Devices	3	1	-	3	30	70	3	4
6	PC203EC	Network Theory	3	1	-	3	30	70	3	4
Practical/Laboratory Course										
7	PC251EC	Electronic Devices Lab	-	-	2	2	25	50	2	1
8	PC252EC	Electronic Workshop	-	-	2	2	25	50	2	1
Total			**18**	**4**	**4**	**22**	**230**	**520**	**22**	**24**

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

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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	ES216EC	Signals and Systems	3	-	-	3	30	70	3	3
2	PC231EC	Analog Electronic Circuits	3	1	-	4	30	70	3	4
3	PC232EC	Electromagnetic Theory and Transmission Lines	3	1	-	4	30	70	3	4
4	PC233EC	Pulse and Digital Circuits	3	1	-	4	30	70	3	4
5	PC234EC	Computer Organization and Architecture	3	-	-	3	30	70	3	3
6	MC771EG	Human Values and Professional Ethics	2	-	-	3	30	70	3	0
Practical/Laboratory Course										
7	PC261EC	Analog Electronic Circuits Lab	-	-	2	2	25	50	3	1
8	PC262EC	Pulse and Digital Circuits Lab	-	-	2	2	25	50	3	1
Total			**17**	**3**	**4**	**24**	**230**	**520**	**24**	**20**

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:

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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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
6	MC506EG	Gender Sensitization	3	-	-	3	30	70	3	0
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
L: Lecture **T**: Tutorial **P**: Practical
CIE: Continuous Internal Evaluation
MC: Mandatory Course
D: Drawing **G**: Grade (E/VG/G/S/U)
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

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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:

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.

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Open Elective-I:

S.No	Course Code	Course Title
1	OE601EC	Principles of Electronic Communications
2	OE602EC	Fundamental Digital design using Verilog HDL

Professional Elective – I

S.No.	Course Code	Course Title
1	PE671EC	Image and Video Processing
2	PE672EC	Advanced Microcontrollers
3	PE673EC	Optical Communications
4	PE674EC	IOT Sensors

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 Courses										
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		Professional Elective – II	3	-	-	3	30	70	3	3
6		Open Elective – II	3	-	-	3	30	70	3	3
7		Open Elective – III	3	-	-	3	30	70	3	3
8	**MC 771 EG**	Human Values and Professional Ethics	2	-	-	2	30	70	3	-
Practical/ Laboratory Courses										
9	**PC 751 EC**	Microwave Lab	-	-	2	2	25	50	3	1
10	**PC 752 EC**	Electronic Design & Automation Lab	-	-	2	2	25	50	3	1
11	**PW 761 EC**	Project Work – I	-	-	4	4	50	-	-	2
12	**SI 762 EC**	Summer Internship	-	-	-	-	50	-	-	2
			23	**-**	**08**	**31**	**390**	**660**		**27**

Professional Elective – II		
S. No.	Course Code	Course Title
1	**PE 721 EC**	Mobile and Cellular Communications
2	**PE 722 EC**	Speech Signal Processing
3	**PE 723 EC**	Electronic Measurements and Instrumentation
4	**PE 724 EC**	Digital Signal Processor Architectures

Open Elective – II		
S. No.	Course Code	Course Title
1	**OE 771 CE**	Green Building Technologies
2	**OE 772 CS**	Data Science Using R Programming
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 Code	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

PC: Professional Course
PE: Professional Elective
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 practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.

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 ECE Department.

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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										
4	**PW 861 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**	Internet of Things	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
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

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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Electrical and Electronics Engineering) I – SEMESTER
(Common for EEE & EIE)

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	
MC: Three Week Induction Programme										
Theory Courses										
1	MC802CE	Environmental Science	2	-	-	2	30	70	3	-
2	MC803PY	Essence of Indian Traditional Knowledge	2	-	-	2	30	70	3	-
3	HS101EG	English	2	-	-	2	30	70	3	2
4	BS201MT	Mathematics-I	3	1	-	4	30	70	3	4
5	BS204CH	Engineering Chemistry	3	1	-	4	30	70	3	4
Practical/ Laboratory Courses										
6	HS151EG	English Lab	-	-	2	2	25	50	3	1
7	BS252CH	Chemistry Lab	-	-	3	3	25	50	3	1.5
8	ES352ME	Workshop / Practice	-	-	6	6	50	50	3	3
Total			**12**	**02**	**11**	**25**	**250**	**500**		**15.5**

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
PE: Professional Elective
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. (Electrical and Electronics Engineering) II – SEMESTER
(Common for EEE & EIE)

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	MC801PO	Indian Constitution	2	-	-	2	30	70	3	-
2	BS203MT	Mathematics-II	3	1	-	4	30	70	3	4
3	BS202PH	Engineering Physics	3	1	-	4	30	70	3	4
4	ES301EE	Basic Electrical Engineering	3	1	-	4	30	70	3	4
5	ES302CS	Programming for Problem Solving	3	-	-	3	30	70	3	3
Practical / Laboratory Courses										
6	BS251PH	Physics Lab	-	-	3	3	25	50	3	1.5
7	ES354EE	Basic Electrical Engineering Lab	-	-	2	2	25	50	3	1
8	ES351CS	Programming for Problem Solving Lab	-	-	2	2	25	50	3	1
9	ES353CE	Engineering Graphics	-	-	6	6	50	50	3	3
Total			**14**	**03**	**13**	**30**	**275**	**550**		**21.5**

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
PE: Professional Elective
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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Abids, Hyderabad-500 001.

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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:

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

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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 duSing 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:

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.
3. 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.

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SCHEME OF INSTRUCTION & EXAMINATION
B.E. VII - Semester
(ELECTRICAL AND ELECTRONICS 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	PC 701 EE	Power System Operation and Control	3	1	-	4	30	70	3	3
2	PC 702 EE	Electric Drives and Static Control	3	1	-	4	30	70	3	3
3	PC 703 EE	Electrical Machine Design	3	1	-	4	30	70	3	3
4		Open Elective – II	3	-	-	3	30	70	3	3
5		Open Elective – III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
6	PC 751 EE	Electrical Simulation Lab	-	-	2	2	25	50	3	1
7	PC 752 EE	Microprocessor and Microcontrollers Lab	-	-	2	2	25	50	3	1
8	PW 761 EE	Project Work – I	-	-	4	4	50	-	-	2
9	PW 762 EE	Summer Internship	-	-	-	-	50	-	-	2
			15	03	08	26	300	450		21

Open Elective – II			Open Elective – III		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	OE 771 CE	Green Building Technologies	1	OE 781 CE	Road Safety Engineering
2	OE 772 CS	Data Science Using R Programming	2	OE 782 IT	Software Engineering
3	OE 773 EC	Fundamentals of IoT	3	OE 783 EC	Principles of Electronic Communications
4	OE 774 EE**	Non-Conventional Energy Sources	4	OE 784 EE**	Illumination and Electric Traction systems
5	OE 775 ME	Entrepreneurship	5	OE 785 ME	Mechatronics

PC: Professional Course PE: Professional Elective
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 practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.

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 EEE and EIE Department.

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SCHEME OF INSTRUCTION& EXAMINATION
B.E. VIII - SEMESTER
(ELECTRICAL AND ELECTRONICS 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	PC 801 EE	Utilization of Electrical Energy	3	-	-	3	30	70	3	3
2		Professional Elective – III	3	-	-	3	30	70	3	3
3		Professional Elective – IV	3	-	-	3	30	70	3	3
4		Professional Elective – V	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
5	PC 851 EE	Power Systems Lab	-	-	2	2	25	50	3	1
6	PW 961 EE	Project Work – II	-	-	16	16	50	100	-	8
			12	-	18	30	195	430		21

Professional Elective – III		
S. No.	Course Code	Course Title
1	PE 821 EE	Power System Reliability
2	PE 822 EE	Electric Vehicle and Hybrid Electric Vehicle
3	PE 823 EE	Machine Modelling Analysis
4	PE 824 EE	High Voltage DC Transmission

Professional Elective – IV		
S. No.	Course Code	Course Title
1	PE 831 EE	Advanced Control Systems
2	PE 832 EE	Electrical Estimation Costing & Safety
3	PE 833 EE	Advanced Power Electronics
4	PE 834 EE	Power Quality

Professional Elective – V		
1	PE 841 EE	Smart Grid Technologies
2	PE 842 EE	Energy Management Systems and SCADA
3	PE 843 EE	Special Electrical Machines
4	PE 844 EE	Power Electronics Applications to Renewable Energy
5	PE 845 EE	Electrical Substation Design and Equipment

PC: Professional Course PE: Professional Elective
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 Department
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SCHEME OF INSTRUCTION & EXAMINATION
B.E. VIII - SEMESTER
(MECHANICAL 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 – II	3	-	-	3	30	70	3	3
2		Professional Elective – III	3	-	-	3	30	70	3	3
3		Professional Elective – IV	3	-	-	3	30	70	3	3
4		Professional Elective – V	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
5	PW 961 ME	Project Work – II	-	-	16	16	50	100	-	8
			12	**-**	**16**	**28**	**170**	**380**		**20**

Professional Elective – II			**Professional Elective – III**		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	**PE 821 ME**	Design of Solar Energy System	1	**PE 826 ME**	Power Plant Engineering
2	**PE 822 ME**	Mechanical Vibrations	2	**PE 827 ME**	Robotic Engineering
3	**PE 823 ME**	Composite Materials	3	**PE 828 ME**	Tool Design
4	**PE 824 ME**	Non-Destructive Testing	4	**PE 829 ME**	Product Design And Process Planning
Professional Elective – IV			**Professional Elective – V**		
1	**PE 831 ME**	Intellectual Property Rights	1	**PE 841 ME**	Energy Conservation and Management
2	**PE 832 ME**	Additive Manufacturing Technology	2	**PE 842 ME**	Advanced Propulsion and Space Science
3	**PE 833 ME**	Machine Tool Engineering and Design	3	**PE 843 ME**	Waste Heat Recovery and Co-Generation
4	**PE 834 ME**	Entrepreneurship Development	4	**PE 844 ME**	Aerodynamic Design of Thermal Turbines

PC: Professional Course PE: Professional Elective
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

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

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VII - Semester
(MECHANICAL 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	PC 791 ME	Thermal Turbo Machines	3	1	-	4	30	70	3	3
2	PC 792 ME	Finite Element Analysis	3	1	-	4	30	70	3	3
3	PC 793 ME	Industrial Engineering	3	-	-	3	30	70	3	3
4	PC 794 ME	Production And Operations Management	3	-	-	3	30	70	3	3
5	HS 991 MB	Managerial Economics and Accountancy	3	-	-	3	30	70	3	3
6		Open Elective-II								3
7		Open Elective-III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
8	PC 751 ME	Thermal Engineering Lab	-	-	2	2	25	50	3	1
9	PC 752 ME	CAE Lab	-	-	2	2	25	50	3	1
10	PW 761 ME	Project Work – I	-	-	4	4	50	-	-	2
11	SI 762 ME	Summer Internship	-	-	-	-	50	-	-	2
			21	02	08	31	360	590		27

Open Elective – II			Open Elective – III		
S. No	Course Code	Course Title	S. No.	Course Code	Course Title
1	OE 771 CE	Green Building Technologies	1	OE 781 CE	Road Safety Engineering
2	OE 772 CS	Data Science Using R Programming	2	OE 782 IT	Software Engineering
3	OE 773 EC	Fundamentals of IoT	3	OE 783 EC	Principles of Electronic Communications
4	OE 774 EE	Non-Conventional Energy Sources	4	OE 784 EE	Illumination and Electric Traction systems
5	OE 775 ME**	Entrepreneurship	5	OE 785 ME**	Mechatronics

PC: Professional Course PE: Professional Elective
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 practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.

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 Mechanical Engineering Department.

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

For the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION

AICTE Model Curriculum

B. E. I – 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	
Three Week Induction Programme										
Theory Course										
1	MC801PO	Indian Constitution	2	-	-	2	30	70	3	-
2	BS201MT	Mathematics-I	3	1	-	4	30	70	3	4
3	BS202PH	Engineering Physics	3	1	-	4	30	70	3	4
4	ES301EE	Basic Electrical Engineering	3	1	-	4	30	70	3	4
Practical / Laboratory Course										
5	BS251PH	Physics Lab	-	-	3	3	25	50	3	1.5
6	ES354EE	Basic Electrical Engineering Lab	-	-	2	2	25	50	3	1
7	ES353CE	Engineering Graphics	-	-	6	5	50	50	3	3
Total										**17.5**

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.

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

For the academic years 2020-2024

SCHEME OF INSTRUCTION & EXAMINATION

AICTE Model Curriculum

B. E. II – 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	MC802CE	Environmental Science	2	-	-	2	30	70	3	-
2	MC803PY	Essence of Indian Traditional Knowledge	2	-	-	2	30	70	3	-
3	HS101EG	English	2	-	-	2	30	70	3	2
4	BS203MT	Mathematics-II	3	1	-	4	30	70	3	4
5	BS204CH	Engineering Chemistry	3	1	-	4	30	70	3	4
6	ES302CS	Programming for Problem Solving	3	-	-	3	30	70	3	3
Practical / Laboratory Course										
7	HS151EG	English Lab			2	2	25	50	3	1
8	BS252CH	Chemistry Lab			3	3	25	50	3	1.5
9	ES351CS	Programming for Problem Solving Lab			2	2	25	50	3	1
10	ES352ME	Workshop Practice	-	-	6	6	50	50	3	3
Total										**19.5**

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.

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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Mechanical 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	MC111PO	Indian Constitution	2	-	-	2	30	70	3	-
2	HS201EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
3	HS202CM	Finance and Accounting	3	-	-	3	30	70	3	3
4	BS205MT	Mathematics-III	3	-	-	3	30	70	3	3
5	ES211CE	Engineering Mechanics	2	1	-	3	30	70	3	3
6	ES214EC	Basic Electronics	2	-	-	2	30	70	3	2
7	PC221ME	Metallurgy and Material Science	3	-	-	3	30	70	3	3
8	PC222ME	Thermodynamics	3	1	-	4	30	70	3	4
Practical/ Laboratory Courses										
9	PC251ME	Metallurgy and Material Testing Lab	-	-	2	2	25	50	3	1
10	PC252ME	Machine Drawing and Modelling Lab	-	-	2	2	25	50	3	1
			21	**02**	**04**	**27**	**290**	**660**		**23**

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)

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.
3. All Mentioned **Mandatory Course** should be offered BE (All Branches) either in I-semester or II – Semester only **from the academic year 2019-2020**.
4. For those of the students admitted BE (All Branches) during the academic year 2018-2019 the Mandatory Courses were not offered during the I-semester or II –Semester may be compulsorily offered in either in III-semester or IV-semester **for the academic year 2019-2020 only**.

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SCHEME OF INSTRUCTION & EXAMINATION
B.E. (Mechanical 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	MC112CE	Environmental Science	2	-	-	2	30	70	3	-
2	MC113PY	Essence of Indian Traditional Knowledge	2	-	-	2	30	70	3	-
3	HS213MP	Industrial Psychology	3	-	-	3	30	70	3	3
4	BS206BZ	Biology for Engineers	3	-	-	3	30	70	3	3
5	ES213ME	Energy Sciences and Engineering	2	-	-	2	30	70	3	2
6	PC231ME	Mechanics of Materials	3	-	-	3	30	70	3	3
7	PC232ME	Applied Thermodynamics	3	-	-	3	30	70	3	3
8	PC233ME	Kinematics of Machinery	3	-	-	3	30	70	3	3
9	PC234ME	Manufacturing Processes	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
10	PC261ME	Thermal Engineering Lab – I	-	-	2	2	25	50	3	1
11	PC262ME	Manufacturing Processes Lab	-	-	2	2	25	50	3	1
			24	**-**	**04**	**28**	**320**	**730**		**22**

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)

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.
3. All Mentioned Mandatory Course should be offered BE (All Branches) either in I-semester or II – Semester only from the academic year 2019-2020.
4. For those of the students admitted BE (All Branches) during the academic year 2018-2019 the Mandatory Courses were not offered during the I-semester or II –Semester may be compulsorily offered in either in III-semester or IV-semester for the academic year 2019-2020 only.

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

S.No.	Course Code	CourseTitle	SchemeofInstructions				SchemeofExamination			Credits
			L	T	P/D	Contact Hours/ Week	CIE	SEE	Durationin 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
LaboratoryCourse										
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)

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

S.No.	Course Code	CourseTitle	SchemeofInstructions				SchemeofExamination			Credits
			L	T	P/D	Contact Hours/ Week	CIE	SEE	Durationin 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	Professional Elective – I	3	-	-	3	30	70	3	3
5	OEC - 1	Open Elective – 1	3	-	-	3	30	70	3	3
6	OEC - 2	Open Elective – 2	3	-	-	3	30	70	3	3
LaboratoryCourse										
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 (OE601ME) : Entrepreneurship (Not for Mechanical / Prod. / Automobile)
Open Elective - 2 (OE602ME) : Industrial Robotics (Not for Mechanical / Prod. / Automobile)

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

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)

* *At the end of VI semester students should undergo summer Internship - Credits for Summer Internship will be awarded in VII semester*

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DEPARTMENT OF BUSINESS MANAGEMENT
OSMANIA UNIVERSITY, HYDERABAD

MBA (Day& Part – time – Evening 2 years) Structure and Syllabus As Per CBCS with Guidelines Effective From 2016-2017

Year-I Semester –I

Course Code	Course Title	Nature	Credits	HPW	Max Marks (IA+UE) 100
MB101	Management & Organizational Behaviour	Core	5	5	20+80
MB102	Accounting for Management	Core	5	5	20+80
MB103	Marketing Management	Core	5	5	20+80
MB104	**Generic Elective-I** 1.Business Law &Ethics 2.Fundamentals of Technology Management 3.Managerial Economics	Generic	4	4	20+80
MB105	**Generic Elective –II** 1. IT Applications for Management 2. Business Communication 3. Customer Relationship Management	Generic	4	4	20+80
MB106	Computer Practical's and Seminars	Practical	1	2	25
Semester Credits			**24**	**25**	**525**

Year-I Semester –II

Course Code	Course Title	Nature	Credits	HPW	Max Marks (IA+UE) 100
MB201	Human Resources Management	Core	5	5	20+80
MB202	Financial Management	Core	5	5	20+80
MB203	Business Research Methods	Core	5	5	20+80
MB204	**Generic Elective-III** 1.Economic Environment and Policy 2.Bussines Process Re-engineering 3.International Business 4.Financial Market & Services	Generic	4	4	20+80
MB205	**Generic Elective-IV** 1. Total Quality Management 2. Strategic Management Accounting 3. Start Up Management 4. Retail Management	Generic/	4	4	20+80
MB206	Seminar/ Work Shop/ Case Studies	---------	1	2	Grade
Semester Credits			**24**	**25**	**500**
Yearly Credits			**48**	**50**	**1025**

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Year-II – Semester-III

Course Code	Course Title	Nature	Credits	HPW	Max Marks (IA+UE) 100
MB301	Operations Management	Core	5	5	20+80
MB302	E- Business	Core	5	5	20+80
MB303	Operations Research	Core	5	5	20+80
MB304	**Discipline Specific Elective- I** 1. Financial Risk Management(Finance) 2.Product & Brand Management (Marketing) 3.Compensation Management (Human Resource) 4.Decision Support Systems (System)	DSE	4	4	20+80
MB305	**Discipline Specific Elective – II** 1. International Finance(Finance) 2. Promotion & Distribution Management(Marketing) 3.Organization Development (Human Resource) 4. Business Analytics (Systems)	DSE	4	4	20+80
MB306	**Interdisciplinary Courses** Management Theory and Practice	ID	4	4	20+80
	OR				
	Innovation Management (for all affiliated colleges including constituent colleges in lieu of ID Paper)	Non-ID			
MB307 *	**Tutorials** Project work Synopses		1	2	25
Total credits at the end of IIIrd Semester			**28**	**29**	**625**

Year-II –Semester IV

Course Code	Course Title	Nature	Credits	HPW	Max Marks (IA+UE) 100
MB401	Strategic Management	Core	5	5	20+80
MB402	Business Intelligence	Core	5	5	20+80
MB403	Supply Chain Management	Core	5	5	20+80
MB404	**DS Elective- III** 1.Investment Management (Finance) 2.Consumer Behaviour (Marketing) 3.Performance Management (Human Resource) 4.Data Base Management Systems (System)	DSE	4	4	20+80
MB405	**DS Elective- IV** 1.Banking & Insurance (Finance) 2.Services & Global Marketing (Marketing) 3.Talent &Knowledge Mgt (Human Resource) 4.Software Project Management (System)	DSE	4	4	20+80
MB406	Project Work	------	1	2	Grade *
MB407	Comprehensive Viva – Voce	------	1	--	Grade *
Semester Credits			**25**	**25**	**50 0**
Total credits at the end of IVth and final Semester			**49 97**	**50 100**	**2150**

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