SCHEME OF INSTRUCTION & EXAMINATION B.E. (Electronics and Instrumentation Engineering) HI - SEMESTER

		Course Title	Scheme of Instruction				Ex			
27	Course Code		L	T	D/D	Contact Hrs/Wk	CIE	SEE	Duration In Hrs	Credits
		Theory Co	ourses							
1	ES302CE	Engineering Mechanics	3	1		3	30	70	3	4
2	BS205MT	Mathematics - III	3	1		3	30	70	3	4
3	PC436EE	Network Analysis	3		•	3	30	70	3	3
4	PC402EE	Electromagnetic Fields	3		:*:	3	30	70	3	3
5	PC437EE	Transducers Engineering	3		4	3	30	70	3	3
6	PC403EC	Analog Electronic Circuits	3	-	•	3	30	70	3	3
		Practical / Labor:	tory Co	шгы	rs .					
7	PC453EE	Networks Analysis Lab		1	2	2	25	50	3	1
8	PC454EE	Computer Aided Instrumentation Drawing Lab		•	2	2	25	50	3	4
9	PC453EC	Analog Electronic Circuits Lab		•0	2	2	25	50	3	ı
		18	2	6	24	255	570		23	

HS: Humanities and Social Sciences

BS: Basic Science

ES: Engineering Science

MC: Mandatory Course L: Lecture

T: Tutorial

PC: Professional Core PE: Professional Elective P. Practical

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

D: Drawing HE: Hectrical Engo.

Note:

- 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.

Professor & Head

Electrical Engineering Department, M.J. College of Engg. & Tech.,

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HYDERAEAD - 500 034 A.P.

SCHEME OF INSTRUCTION & EXAMINATION B.E. (Electronics and Instrumentation Engineering) IV - SEMESTER

	Course Code	Course line	Scheme of Instruction				Scheme of Examination			440
S. No			Ŀ	T	G/A	Contact Hrs/Wk	CIE	SEE	Daration In Hrs	Credits
		Theory Cou	rses					V		-
1	HS102EG	Effective Technical Communication in English	2	•	:-	2;	30	70	3	2
2	PC438EE	Instrumentation Systems	3	5.00		3	30	70	3	3
3	ES305ME	Energy Sciences and Engineering	2		3	2	30	70	3	2
4	PC439EE	Power Plant Instrumentation	3		=	3	30	70	3	3
5	PC410EE	Digital Electronics and Logic Design	3	253	10	3	30	70	3	3
6	PC411EE	Power Electronics	3	33	=	3	30	70	3	3
		Practical / Laborate	ory Co	ourse	s					,
7	PC458EE	Transducers Engineering Lab		5:3	2	2	25	50	3	4
8	PC456EE	Power Electronics Lab	=	123	2	2	25	50	3	1
9	PC457EE	Digital Electronics and Logic Design Lab		(£)	2	3	25	50	3:	1
		Total	16	00	06	22	255	570	:4	19

HS: Humanities and Social Sciences

BS: Basic Science

ES: Engineering Science

MC: Mandatory Course

PC: Professional Core PE: Professional Elective

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.

Professor & Head Electrical Engineering Department, M.J. College of Engg. & Tech., Rd. No. 3, Banjara Hills, Hyd.-155.

PRINCIPAL Muffekham Jah College Of Engineering & Technology, Banjara Hills, Road No.3

HYDERABAD - 500 034 A.P.

FACULTY OF ENGINEERING

Scheme of Instructions and Examination

(AICTE Model Curriculum for the Academic Year 2020-21)

and

Syllabi

B.E. V and VI Semester

of

Four Year Degree Programme

in

Electronics and Instrumentation Engineering

(With effect from the academic year 2020 - 21)

(As approved in the faculty meeting held on XX-XX-2020)



Issued by

Dean, Faculty of Engineering Osmania University, Hyderabad – 500 007

2020

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Engineering & Testmology, Banjaro Hills, Road No.3, HYDERABAD - 500 034 A.P.

SCHEME OF INSTRUCTION AND EXAMINATION B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) V – SEMESTER

	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			
S. No.			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	Credits
Theory C	Courses									
1	PC501EE	Instrumentation Systems	3	*	15	3	30	70	3	3
2	PC502EE	Power Plant Instrumentation	3	•	14	3	30	70	3	3
3	PC237EE	Linear Control Systems	3	-	.6	3	30	70_	.3	3
4	PC238EE	Microprocessors and Microcontrollers	3	4	16:	3	30	70	3	3
5	PC239EE	Signals and Systems	3	Ť	(6)	4	30	70	3	4
6	PE5_EE	Professional Elective - I	3	æ	F.	3	30	70	3	3
Practical	Laborator	y Courses								
7	PC263EE	Electrical Circuits Lab	-	•	2	2	25	50	3	12] C
8	PC264EB	Centrol Systems Lab	٠	-	2	2	25	50	3	1
9	PC265EE	Power Electronics Lab	+	ΞE	2	2	25	50	3	E
			18	01	06	25	255	570	ě	22

	Professional Elective - I									
1	PE551EE	Building Management Systems								
2	PE552EE	Principles of Communication Engineering								
3	PE553EE	Advanced Sensors								

HS: Humanities and Social Sciences BS: Basic Science ES: Engineering Science MC:
Mandatory Course PC: Professional Core PE: Professional Elective

Mandatory Course 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

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

Professor & Head

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HYDERABAD - 500 034, A.P.

SCHEME OF INSTRUCTION AND EXAMINATION B.E. (ELECTRONICS AND INSTRUMENTATION ENGINEERING) VI-SEMESTER

	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			
S. No.			L	Ť	P/D	Contact Hrs/Wk	CIE	SEE	Duration In Hrs	Credits
Theory	Courses	1			-					
t	PC241EE	Electrical Measurements and Instrumentation	3	î	31	4	30	70	3	4
2	PC242EE	Digital Signal Processing and Applications	3	1	:4	4	30	70	3	4
3	PC504EE	Biomedical Instrumentation	3	1		4	30	70	3	4
4	PC505EE	Process Control	3	-		3.	30	70	3	3
5	OE2 EE	Open Elective - I	3			3	30	70	3	3
6	OE2 EE	Open Elective - II	3			3	30	70	3	3
Practica	l/ Laborator	y Courses			^					
7.	PC507EE	Digital Signal Processing Lab	÷.	3	2	2	25	50	3	Ţ
8	PC267EE	Electrical Measurements and Instrumentation Lab	14	2	2)	2	25	50	3	Ï
9	PC268EE	Microprocessors and Microcontrollers Lab	12	÷	2,	2	25	50	3	J.
10	PC801EE	Summer Internship*	Six Weeks during Summer Vacation						cation	
			18	3	06	27	255	570	79	24

	Open Elective -1 & 11								
4.	OE201EE	Electrical Energy Conservation and Auditing							
2.	OE202EE	Reliability Engineering							
3.	OE203EE	Non-Conventional Energy Sources							
4.	OE204EE	Illumination and Electric Traction Systems							

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

Mandatory Course

PC: Professional Core OE: Open 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.

Prefessor & Head Electrical Engineering Department, M.J. College of Engg. & Tech., Fig. No. 3, Banjara Hills, Hyd.-165.

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FACULTY OF ENGINEERING

Scheme of Instruction & Examination

(CBCS Curriculum for the Academic Year 2019-2020)

and

Syllabi

B.E. VII and VIII Semester

of

Four Year Degree Programme

In

Electronics and Instrumentation Engineering

(With effect from the academic year 2019–2020) (As approved in the faculty meeting held on 25-06-2019)



Issued by

Dean, Faculty of Engineering Osmania University, Hyderabad – 500 007 2019

> Muffakham Jah College Of Engineering & Trichmology, Banjina Hills, Road Na. 3, HYDERABAD - 500 034, A.P.

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

	Course Code	Course Title	Scheme of Instruction				S Ex			
S. No.			Ļ.	F	P/D	Cantact Hrs/Wk	CIE	SEE	Duration in Hrs	Credits
Theor	ry Courses									
L	PC 711 EE	Opto-Electronic Instrumentation	3	=	-	3	30	70	3	3
2	PC 712 EE	Virtual Instrumentation	3		-	3	30	-70	3	3
3	PC 713 EE	Analytical Instrumentation	3	.7	75	3	30	70	3	3
4		Open Elective - II	3	-	+:	3	30	70	3	/3
5		Open Elective - III	3	rZ.	27	3	30	70	3	3
Pract	icul/ Laborator	y Courses								
6	PC 752 EE	Microprocessor and Microcontrollers Lab	×	3	2	2	25	50	3	ŧ
7	PC 753 EE	Instrumentation Simulation Lab	5	14/	2	2	25	50	3	Ļ
8	PW 761 EE	Summer Internship	-	12.1	- 4	4	50	8.	7	2
9	SI 762 EE	Project Work - I		:4	*	347	50	•	+:	2
			15	177	08	23	300	450		21

Open I	Elective – II		Open Elective – III					
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title			
ĩ	OE 771 CE	Green Building Technologies	14	OE 781 CE	Road Safety Engineering 1			
2	OE 772 CS	Data Science Using R Programming	(2	OE 782 IT	Software Engineering			
3	OE 773 EC	Fundamentals of IoT	13	OE 783 EC	Principles of Electronic Communications			
4	OE 774 EE**	Non-Conventional Energy Sources	.4	OE 784 EE**	Illumination and Injectric 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

- 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.

Protessor & Head

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

	Course Code	Course Title	Scheme of Instruction				S Ex			
S. No.			Ã.	Ŧ	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	Credits
Theor	y Courses		-		-			-		
1	PC 802 EE	Advance Programmable Logic Controller	3	=	2	â	30	70	<u>3</u>	3
2		Professional Elective - III	3	×	:#-	3	30	70	3	3
3		Professional Elective - IV	3	1		3	30	70	3	3
4		Professional Elective - V	3	-		3	30	70	3	3
Practi	ical/ Laborator	y Courses								
5	PC 852 EE	Process Instrumentation Lab	-21	-	2	2	2.5	50	3	41.
6	PW 961 EE	Project Work - II	-	-	16	16	50	100		8
			12	*	18	30	195	430		21

Profess	ional Elective	-πι	Professional Elective – IV					
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title			
1	PE 825 EE	Digital Control Systems	1	PE 834 EE	Power Quality			
2	PE 826 EE	Automation in Process Control	2	PE 835 EE	Advance Digital Signal Processing			
3	PE 827 EE	Hydraulic & Pneumatics	3	PE 836 EE	Biomedical Signal Processing			
4	PE 828 EE	Software Design tools for Sensing & Control	4	PE 837 EE	Power plant design and safety management			
Profess	ional Elective	- V			-			
Ĭ	PE 842 EE	Energy Management Systems and SCADA						
2	PE 846 EE	Neural Networks and Fuzzy Logic						
3	PE 847 EE	Instrumentation for Agricultural and Food						

PC: Professional Course

PE 848 EE

PE: Professional Elective

L: Lectures

4

T: Tutorials

Processing Industries

Digital Image Processing

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

Professor & Head
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