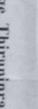
#### ANNA UNIVERSITY, CHENNAI AFFILIATED INSTITUTIONS B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING REGULATIONS – 2017 CHOICE BASED CREDIT SYSTEM OPEN ELECTIVES (Offered by Other Branches)

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	т	Р	С
1.	OCY551	Advanced Engineering Chemistry	OE	3	3	0	0	3
2.	OCE551	Air Pollution and Control Engineering	OE	3	3	0	0	3
3.	OAT551	Automotive Systems	OE	3	3	0	0	3
4.	OIT551	Database Management Systems	OE	3	3	0	0	3
5.	OIT552	Cloud Computing	OE	3	3	0	0	3
6.	OMF551	Product Design and Development	OE	3	3	0	0	3
7.	OME552	Vibration and Noise Control	OE	3	3	0	0	3

#### V SEMESTER OPEN ELECTIVE I

#### VII SEMESTER OPEN ELECTIVE II

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	Т	Ρ	С
1.	OBT751	Analytical Methods and Instrumentation	OE	3	3	0	0	3
2.	OEC752	Communication Networks	OE	3	3	0	0	3
3.	OME751	Design of Experiments	OE	3	3	0	0	3
4.	OME754	Industrial Safety	OE	3	3	0	0	3
5.	OCS752	Introduction to C Programming	OE	3	3	0	0	3
6.	OMF751	Lean Six Sigma	OE	3	3	0	0	3
7.	OCH751	Process Modeling and Simulation	OE	3	3	0	0	3
8.	OEC753	Signals and Systems	OE	4	4	0	0	4
9.	OML751	Testing of Materials	OE	3	3	0	0	3



Jaya Engineering College, Thiruninravur-602024 Department of Electronics and Instrumentation Engineering III YEAR/Y SEM Batch 2017-2020-Elective list

- Ones

16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	SNo
110817107017	110817107016	110817107015	110817107014	110817107012	110817107011	110817107010	110817107009	110817107008	110817107007	110817107006	110817107005	110817107004	110817107003	110817107002	110817107001	Register No.
Sheeba.A	Revathi.R	Reshma.S	Pradeep Kumar.S	Naveen .R	Nandhini .K	Monica A	Mohammed Sadique C.H	Lena Swathi ,P	Hariharaharan C.S.G	Gokul .G	Deepak.S	Deepak R.B	Arun.T	Ajay Gowtham .M	Adhira, R.K	Name
												and the second	and the second second			OCY551
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5 8

OME552	OMF551	017552	017551	OAT551	OCE551	OCY551	
Vibration and Noise Control	Product Design And Development	Cloud Computing	Database Management System	Automotive system	Air pollution and control Engineering	Advanced Engineering Chemistry	

Mrs, G, Kalarani, H.O.D. Dept. of Electronics & Instrumentation Jaya Engineering College, Thiruninravur, Chennai-602 024.

HOD/EIE

### **AFFILIATED INSTITUTIONS**

### **B.E. ELECTRONICS AND INSTRUMENTATION ENGINEERING**

### R - 2013

### **PROGRAM EDUCATIONAL OBJECTIVES :**

- 1. To prepare the students have successful career in industry and motivate for higher education.
- 2. To provide strong foundation in basic science and mathematics necessary to formulate, solve and analyze Electronics and Instrumentation problems
- 3. To provide strong foundation in circuit theory, control theory and signal processing concepts.
- 4. To provide good knowledge of Instrumentation systems and their applications.
- 5. To provide knowledge on basic electronics and their applications in Instrumentation engineering
- 6. To provide an opportunity to work in inter disciplinary groups
- 7. To promote student awareness for life long learning and inculcate professional ethics
- 8. To provide necessary foundation on computational platforms and software applications related to the respective field of engineering.

### PROGRAM OUTCOMES :

- a) Ability to understand and apply differential equations, integrals, matrix theory, probability theory and Laplace, Fourier and Z transformations for engineering problems
- b) Ability to understand and apply basic science, circuit theory, control theory and signal processing concepts to engineering problems.
- c) Ability to model and analyze transducers.
- d) Ability to understand and analyze Instrumentation systems and their applications to various industries.
- e) Ability to understand and analyse process control engineering problems.
- f) Ability to understand and analyse, linear and digital electronic circuits.
- g) Ability to review, prepare and present technological developments
- h) Ability to form a group and develop or solve engineering hardware and problems
- i) To understand and apply computing platform and software for engineering problems.
- j) To understand ethical issues environmental impact and acquire management skills.

Program Educational						Р	rogram	Outcom	ne	
Educational Objective	а	b	с	d	е	f	g	h	i	j
1		х		Х		х	х		Х	х
2	х									
3		Х								
4				х						
5						х				
6								х		
7							Х	Х		
8						х			х	

### ANNA UNIVERSITY, CHENNAI

#### **AFFILIATED INSTITUTIONS**

## R – 2013

# B. E. ELECTRONICS AND INSTRUMENTATION ENGINEERING I TO VIII SEMESTERS CURRICULUM AND SYLLABUS

		JEIWIEGTER I	r			
S.NO.	COURSE CODE	COURSE TITLE	L	т	Р	С
THEOR	Y					
1.	HS6151	Technical English - I	3	1	0	4
2.	MA6151	Mathematics - I	3	1	0	4
3.	PH6151	Engineering Physics - I	3	0	0	3
4.	CY6151	Engineering Chemistry - I	3	0	0	3
5.	GE6151	Computer Programming	3	0	0	3
6.	GE6152	Engineering Graphics	2	0	3	4
PRACT	ICAL	•	•			
7.	GE6161	Computer Practices Laboratory	0	0	3	2
8.	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1
			17	2	11	26

### SEMESTER I

#### SEMESTER II

S.NO.	COURSE CODE	COURSE TITLE		L	Т	Ρ	С
THEOR	Y						
1.	HS6251	Technical English - II		3	1	0	4
2.	MA6251	Mathematics - II		3	1	0	4
3.	PH6251	Engineering Physics - II		3	0	0	3
4.	CY6251	Engineering Chemistry - II		3	0	0	3
5.	GE6251	Basic Civil and Mechanical Engineering		4	0	0	4
6.	EE6201	Circuit Theory		3	1	0	4
PRACT	ICAL					•	
7.	GE6262	Physics and Chemistry Laboratory - II		0	0	2	1
8.	GE6263	Computer Programming Laboratory		0	1	2	2
9.	EE6211	Electric Circuits Laboratory		0	0	3	2
		Т	OTAL	19	4	7	27

# SEMESTER III

S.NO.	COURSE CODE	COURSE TITLE	L	Т	Ρ	С			
THEOF	RY								
1.	MA6351	Transforms and Partial Differential Equations	3	1	0	4			
2.	GE6351	Environmental Science and Engineering	3	0	0	3			
3.	EE6301	Digital Logic Circuits	3	1	0	4			
4.	EC6202	Electronic Devices and Circuits	3	1	0	4			
5.	EE6303	Linear Integrated Circuits and Applications	3	0	0	3			
6.	EI6301	Electrical Measurements	3	1	0	4			
PRAC1	ICAL	·	•	•					
7.	EC6361	Electronics Laboratory	0	0	3	2			
8.	EE6311	Linear and Digital Integrated Circuits Laboratory	0	0	3	2			
		TOTAL	18	4	6	26			
	SEMESTER IV								
S.NO.	COURSE CODE	COURSE TITLE	L	Т	Ρ	С			

0.110.	CODE			•	•	Ŭ
THEOR	Y					
1.	MA6459	Numerical Methods	3	1	0	4
2.	CS6456	Object Oriented Programming	3	0	0	3
3.	El6401	Transducer Engineering	3	0	0	3
4.	EE6403	Discrete Time Systems and Signal Processing	3	0	0	3
5.	El6402	Electrical Machines	3	1	0	4
6.	El6403	Applied Thermodynamics and Fluid Dynamics	3	1	0	4
PRACT	ICAL					
7.	CS6461	Object Oriented Programming Laboratory	0	0	3	2
8.	El6411	Electrical Machines Laboratory	0	0	3	2
		TOTAL	18	3	6	25

## SEMESTER V

S.NO.	COURSE CODE	COURSE TITLE	L	Т	Ρ	С
THEOR	Y					
1.	EE6502	Microprocessors and Microcontrollers	3	0	0	3
2.	IC6501	Control Systems	3	1	0	4
3.	EE6503	Power Electronics	3	0	0	3
4.	El6501	Analytical Instruments	3	0	0	3
5.	El6502	Industrial Instrumentation – I	3	0	0	3
6.		Elective – I	3	0	0	3
PRACT	ICAL					
7.	EE6612	Microprocessors and Microcontrollers Laboratory	0	0	3	2
8.	El6511	Transducers and Measurements Laboratory	0	0	3	2
9.	GE6674	Communication and Soft Skills- Laboratory Based	0	0	4	2
	•	TOTAL	18	1	10	25

### SEMESTER VI

S.NO.	COURSE CODE	COURSE TITLE		L	Т	Ρ	С
THEOR	Y	·					
1.	EI6601	Modern Electronic Instrumentation		3	0	0	3
2.	EI6602	Process Control		3	1	0	4
3.	EI6603	Industrial Instrumentation – II		3	0	0	3
4.	EC6651	Communication Engineering		3	0	0	3
5.	EE6602	Embedded Systems		3	0	0	3
6.		Elective –II		3	0	0	3
PRACT	ICAL						
7.	EI6611	Industrial Instrumentation Laboratory		0	0	3	2
8.	El6612	Process Control Laboratory		0	0	3	2
			TOTAL	18	1	6	23

### SEMESTER VII

S.NO.	COURSE CODE	COURSE TITLE	L	Т	Ρ	С
THEOR	Y					
1.	El6701	Industrial Data Networks	3	0	0	3
2.	El6702	Logic and Distributed Control System	3	0	0	3
3.	EC6601	VLSI Design	3	0	0	3
4.	El6703	Fibre Optics and Laser Instruments	3	0	0	3
5.	El6704	Biomedical Instrumentation	3	0	0	3
6.		Elective – III	3	0	0	3
PRACT	ICAL					
7.	EC6612	VLSI Design Laboratory	0	0	3	2
8.	El6711	Instrumentation System Design Laboratory	0	0	3	2
9.	El6712	Comprehension	0	0	2	1
		TOTAL	18	0	8	23

### SEMESTER VIII

S.NO.	COURSE CODE	COURSE TITLE			Ρ	С
THEOR	Y					
1.	MG6851	Principles of Management	3	0	0	3
2.	EI6801	Computer Control of Processes	3	0	0	3
3.		Elective – IV	3	0	0	3
PRACT	ICAL					
4.	EI6811	Project Work	0	0	12	6
		TOTAL	9	0	12	15

**TOTAL CREDITS: 190** 

## **ELECTIVES - I**

S.NO.	COURSE CODE	COURSE TITLE	L	Т	Ρ	С
1.	CS6659	Artificial Intelligence	3	0	0	3
2.	CS6303	Computer Architecture	3	0	0	3
3.	CS6401	Operating Systems	3	0	0	3
4.	El6001	Data Structures and Algorithms	3	0	0	3

# ELECTIVE – II

S.NO.	COURSE CODE	COURSE TITLE	L	Т	Р	С
5.	El6002	Power Plant Instrumentation	3	0	0	3
6.	El6003	Instrumentation in Petrochemical Industries	3	0	0	3
7.	IT6005	Digital Image Processing	3	0	0	3
8.	IC6601	Advanced Control System	3	0	0	3
9.	EE6003	Optimisation Techniques	3	0	0	3

### ELECTIVE - III

S.NO.	COURSE CODE	COURSE TITLE	L	т	Ρ	С
10.	EE6007	Micro Electro Mechanical Systems	3	0	0	3
11.	EE6008	Microcontroller Based System Design	3	0	0	3
12.	EE6006	Applied Soft Computing		0	0	3
13.	IC6701	Digital Control System	3	0	0	3
14.	GE6081	Fundamentals of Nanoscience		0	0	3
15.	IC6002	System Identification and Adaptive Control	3	0	0	3
16.	GE6083	Disaster Management	3	0	0	3

### ELECTIVE - IV

S.NO.	COURSE CODE	COURSE TITLE	L	т	Ρ	С
17.	GE6757	Total Quality Management	3	0	0	3
18.	GE6075	Professional Ethics in Engineering	3	0	0	3
19.	IC6003	Principles of Robotics	3	0	0	3
20.	EC6002	Advanced Digital Signal Processing	3	0	0	3
21.	GE6084	Human Rights	3	0	0	3

· /PC (EXI)

# JAYA ENGINEERING COLLEGE-THIRUNINRAVUR Department of Electronics and Instrumentation Engineering

# III year / VI Sem Batch 2016- 2020 - Elective List

S.No	Reg_No	Name	EI 6002	EI 6003	IT 6005	IC 6601	EE 6003	Signature
1	110816107002	Gowri Priya.S						lyst
2	110816107003	Jayashree.N	/					1 due
3	110816107004	Karthik.S	~					8-kaly-
<b>4</b> ·	110816107005	Kaviya Manjari.M						for jor . M.
5	110816107006	Lokesh Kumar.K						Khik )
6	110816107007	Mohammed Arslan	1					entry.
7	110816107008	Naveen.S						Roma
8	110816107009	Vedanayaki.V.G	/					Nedle
9	110816107010	Vinoth Kumar.N	Л					Direct
10	110816107501	Surati Survya Nishitha	1					Kuluh

0

### **Elective II**

COURES CODE	COURSE TITLE
EI 6002	Power Plant Instrumentation
E16003	Instrumentation In Petrochemical Industries
IT6005	Digital Image Processing
IC6601	Advanced Control System
EE6003	Optimization Techniques

D/EIE

Mrs. G. Kalarani, H.O.D. S. Dept. of Electronics & Instrumentation Java Engineering College, J. Thiruninray or, Chennal-602 024.

PRINCIPAL

DT. K.SAMIDURAL ES M. M. P.D. METERIE CERON PRINCIPAL JAYA ENGINEERING COLLEGE THIRUNINRAVUR CHENNAL - 602 024