



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f))

An ISO 9001:2008 Certified Institution

(An Autonomous Institution, Affiliated to Anna University, Chennai)



DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING III – VIII SEMESTERS CURRICULUM

REGULATION – 2012

SEMESTER III

(Applicable to the students admitted from the Academic year 2012– 2013 onwards)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	001001	Transformation Techniques	4	1	0	4
2	006001	Electrical Circuits and Networks	3	1	0	3
3	005004	Electrical Machines	3	0	0	3
4	004003	Electronic Devices and Circuits	3	0	0	3
5	004005	Data Structures and Algorithms	3	0	0	3
6	006002	Electrical Measurements	3	0	0	3
Practical						
1	006101	Electron Devices and Circuits Laboratory	0	0	3	2
2	006102	Data Structures and Algorithms Laboratory	0	0	3	2
3	006103	Electrical Machines Laboratory	0	0	3	2
TOTAL			19	2	9	25

SEMESTER IV

(Applicable to the students admitted from the Academic year 2012– 2013 onwards)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	004009	Control Systems	4	0	0	4
2	006003	Industrial Instrumentation – I	3	0	0	3
3	006004	Sensors and Transducers	3	0	0	3
4	006015	Digital Logic Circuits	3	1	0	3
5	004010	Linear Integrated Circuits and Applications	3	0	0	3
6	006006	Applied Thermodynamics	3	1	0	3
PRACTICAL						
1	006104	Transducers and Measurements Laboratory	0	0	3	2
2	006105	Thermodynamics Laboratory	0	0	3	2
3	006106	Linear and Digital Integrated Circuits Laboratory	0	0	3	2
TOTAL			19	2	9	25

SEMESTER V

(Applicable to the students admitted from the Academic year 2012 – 2013 onwards)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
Theory						
1	006007	Microprocessor and Microcontroller	3	1	0	3
2	004016	Communication Engineering	3	0	0	3
3	006008	Object Oriented Programming	3	1	0	3
4	006009	Industrial Electronics	3	1	0	3
5	006010	Analytical Instruments	3	0	0	3
6	006011	Industrial Instrumentation II	3	0	0	3
PRACTICAL						
1	006107	Microprocessor and Microcontroller Laboratory	0	0	3	2
2	006108	Object Oriented Programming Laboratory	0	0	3	2
3	006109	Industrial Instrumentation Laboratory	0	0	3	2
TOTAL			18	3	9	24

SEMESTER VI

(Applicable to the students admitted from the Academic year 2012– 2013 onwards)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	006012	Modern Electronic Instrumentation	3	0	0	3
2	006013	Process Control	4	0	0	4
3	006014	Industrial Automation	3	1	0	3
4	003017	Digital Signal Processing	3	1	0	3
5	006016	Virtual Instrumentation	3	0	0	3
6	006017	Biomedical Instrumentation	3	0	0	3
PRACTICAL						
1	006110	Communication and DSP Laboratory	0	0	3	2
2	006111	Process Control Laboratory	0	0	3	2
3	006112	Virtual Instrumentation Laboratory	0	0	3	2
TOTAL			19	2	9	25

SEMESTER VII

(Applicable to the students admitted from the Academic year 2012– 2013 onwards)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	006018	Industrial Data Networks	3	0	0	3
2	006019	Computer based Industrial Control	3	1	0	3
3	006020	VLSI Design	3	1	0	3
4	006021	Fibre Optics and Laser Instruments	3	0	0	3
5	E1	Elective – I	3	1	0	3
6	E2	Elective – II	3	0	0	3
PRACTICAL						
1	006113	VLSI Lab	0	0	3	2
2	006114	Instrumentation System Design Laboratory	0	0	3	2
3	006115	Comprehension	0	0	3	1
TOTAL			18	3	9	23

SEMESTER VIII

(Applicable to the students admitted from the Academic year 2012 – 2013 onwards)

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1	006022	Principles of Management	2	1	0	2
2	E3	Elective-III	3	1	0	3
3	E4	Elective-IV	3	1	0	3
PRACTICAL						
1	006301	Project Work	0	0	20	10
TOTAL			8	3	20	18

B.E ELECTRONICS AND INSTRUMENTATION ENGINEERING**LIST OF ELECTIVES – R 2012****ELECTIVE I**

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	006201	Artificial Intelligence	3	1	0	3
2	006202	Applied Soft Computing	3	1	0	3
3	006203	Operating Systems	3	1	0	3
4	006204	Visual Languages and Applications	3	1	0	3

ELECTIVE II

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	003215	Embedded Systems	3	0	0	3
2	005206	Robotics and Automation	3	0	0	3
3	006205	Ultrasonic Instrumentation	3	0	0	3
4	006206	Instrumentation and Control in Paper Industry	3	0	0	3

ELECTIVE III

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	006207	Power Plant Instrumentation	3	1	0	3
2	006208	Instrumentation in Petrochemical Industries	3	1	0	3
3	006209	Mems and Nano Technology	3	1	0	3
4	006210	Satellite Instrumentation	3	1	0	3

ELECTIVE IV

SL. NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	006211	Digital Image Processing	3	1	0	3
2	006212	Advanced Control System	3	1	0	3
3	006213	Instrumentation in Aerospace and Navigation	3	1	0	3
4	006214	Optimization Techniques	3	1	0	3