

INSTRUMENTATION AND CONTROL ENGINEERING

Semester-I				
Course Title	L	T	P	C
Physics or Chemistry *	3	-	2	4
Mathematics I	3	1	-	4
Computer Programming I	3	1	2	5
Workshop Practice I	-	-	2	1
Elements of Elect. Engg. & Electronics or Engg. Mechanics*	3	1	2	5
Engineering Drawing I	1	-	2	2
Environmental Studies	2	-	-	2
Supplementary Course – English	-	2	-	-

Semester-II				
Course Title	L	T	P	C
Physics or Chemistry *	3	-	2	4
Mathematics II	3	1	-	4
Computer Programming II	2	1	2	4
Workshop Practice II	-	-	2	1
Elements of Elect. Engg. & Electronics or Engineering Mechanics*	3	1	2	5
Engineering Drawing II	1	-	2	2
Communication Skills	2	-	2	3

Semester-III				
Course Title	L	T	P	C
Mathematics III	3	-	-	3
Engineering Economics & Business Management	3	-	-	3
Control Theory	4	1	-	5
Simulation Packages	-	-	2	2
Digital Technique	3	-	2	4
Fundamentals of Mechanical Engg.	3	-	2	4
Electrical Technology	3	-	2	4

Semester-IV				
Course Title	L	T	P	C
Mathematics IV	3	0	0	3
Linear Electronics	3	0	2	4
Microprocessor	3	0	2	4
Circuit Theory	3	0	2	4
Electrical Engineering Material	3	0	0	3
Control System Design	3	1	2	5
Seminar	0	0	1	1

Semester-V				
Course Title	L	T	P	C
Micro Controller and its Applications	3	-	2	4
Control System Components	3	-	2	4
Measurement Technique -I	3	-	2	4
Instrumentation System	3	-	-	3
Applied Electronics	3	-	2	4
Electrical and Electronic Measurements	3	-	-	3
Seminar	-	-	2	1

Semester-VI				
Course Title	L	T	P	C
Measurement Technique -II	3	-	-	3
Industrial Electronics	3	-	2	4
Process Control – I	3	-	2	4
Biomedical Instrumentation	3	-	2	4
Elective I	3	-	2	4
Elective II	3	-	-	3
Visual Application Development Lab	1	-	2	2

Semester-VII				
Course Title	L	T	P	C
Digital Signal Processing	3	0	2	4
Process Control-II	3	0	2	4
Nonlinear & Digital Control	3	0	2	4
Industrial Drives & Control	3	0	2	4
Institute Elective I	3	0	0	3
Institute Elective II	3	0	0	3
Minor Project	0	0	2+ 10**	4

Semester-VIII				
Course Title	L	T	P	C
Major Project	-	-	-	16
Comprehensive Viva/ Voce	-	-	-	2

* Students can take either subject in semester-I and the other in semester-II.
L – Lecture, T- Tutorial, P- Practical, C-Credits