

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
B.E. INSTRUMENTATION AND CONTROL ENGINEERING
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
I TO VIII SEMESTERS CURRICULA & SYLLABI

SEMESTER I

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T
THEORY						
1.	HS8151	<u>Communicative English</u>	HS	4	4	0
2.	MA8151	<u>Engineering Mathematics - I</u>	BS	4	4	0
3.	PH8151	<u>Engineering Physics</u>	BS	3	3	0
4.	CY8151	<u>Engineering Chemistry</u>	BS	3	3	0
5.	GE8151	<u>Problem Solving and Python Programming</u>	ES	3	3	0
6.	GE8152	<u>Engineering Graphics</u>	ES	6	2	0
PRACTICALS						
7.	GE8161	<u>Problem Solving and Python Programming Laboratory</u>	ES	4	0	0
8.	BS8161	<u>Physics and Chemistry Laboratory</u>	BS	4	0	0
TOTAL				31	19	0

SEMESTER II

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T
THEORY						
1.	HS8251	<u>Technical English</u>	HS	4	4	0
2.	MA8251	<u>Engineering Mathematics -II</u>	BS	4	4	0
3.	PH8253	<u>Physics for Electronics Engineering</u>	BS	3	3	0
4.	BE8252	<u>Basic Civil and Mechanical Engineering</u>	ES	4	4	0
5.	EE8251	<u>Circuit Theory</u>	PC	4	2	2
6.	GE8291	<u>Environmental Science and Engineering</u>	HS	3	3	0
PRACTICALS						
7.	GE8261	<u>Engineering Practices Laboratory</u>	ES	4	0	0
8.	EE8261	<u>Electric Circuits Laboratory</u>	PC	4	0	0
TOTAL				30	20	2

SEMESTER III

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L
THEORY					
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4
2.	EC8353	Electron Devices and Circuits	ES	3	3
3.	EE8351	Digital Logic Circuits	PC	4	2
4.	EI8351	Electrical Measurements	PC	4	2
5.	EI8352	Transducers Engineering	PC	3	3
6.	CS8392	Object Oriented Programming	ES	3	3
PRACTICALS					
7.	EI8361	Measurements and Transducers Laboratory	PC	4	0
8.	CS8383	Object Oriented Programming Laboratory	ES	4	0
TOTAL				29	17

SEMESTER IV

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L
THEORY					
1.	MA8491	Numerical Methods	BS	4	4
2.	EI8451	Electrical Machines	ES	3	3
3.	EI8452	Industrial Instrumentation - I	PC	3	3
4.	EE8451	Linear Integrated Circuits and Applications	PC	3	3
5.	IC8451	Control Systems	PC	5	3
6.	EC8395	Communication Engineering	ES	3	3
PRACTICALS					
7.	EI8461	Devices and Machines Laboratory	PC	4	0
8.	EE8461	Linear and Digital Integrated Circuits Laboratory	PC	4	0
TOTAL				29	19

SEMESTER V

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L
THEORY					
1.	EI8551	Analytical Instruments	PC	3	3
2.	EI8552	Industrial Instrumentation - II	PC	3	3
3.	EI8553	Process Control	PC	4	2
4.	EE8551	Microprocessors and Microcontrollers	PC	3	3
5.	EI8093	Unit Operation and Control	PC	3	3
6.		Open Elective I*	OE	3	3
PRACTICALS					
7.	EI8561	Industrial Instrumentation Laboratory	PC	4	0
8.	EE8681	Microprocessors and Microcontrollers Laboratory	PC	4	0
TOTAL				27	17

SEMESTER VI

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L
THEORY					
1.	IC8651	Advanced Control System	PC	4	2
2.	EI8651	Logic and Distributed Control System	PC	3	3
3.	CS8391	Data Structures	ES	3	3
4.	EI8092	Thermal Power Plant Instrumentation	PC	3	3
5.		Professional Elective I	PE	3	3
6.		Professional Elective II	PE	3	3
PRACTICALS					
7.	CS8381	Data Structures Laboratory	ES	4	0
8.	EI8661	Process Control Laboratory	PC	4	0
9.	HS8581	Professional Communication	EEC	2	0
TOTAL				29	17

SEMESTER VII

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	
THEORY						
1.	EI8751	Industrial Data Networks	PC	3	3	
2.	EI8091	Instrumentation in Petrochemical Industries	PC	3	3	
3.	EC8093	Digital Image Processing	PC	3	3	
4.		Professional Elective III	PE	3	3	
5.		Professional Elective IV	PE	3	3	
6.		Open Elective II*	OE	3	3	
PRACTICALS						
7.	EI8761	Industrial Automation Laboratory	PC	4	0	
8.	EI8762	Instrumentation System Design Laboratory	PC	4	0	
TOTAL				26	18	

SEMESTER VIII

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	
THEORY						
1.		Professional Elective V	PE	3	3	
2.		Professional Elective VI	PE	3	3	
PRACTICALS						
3.	IC8811	Project Work	EEC	20	0	
TOTAL				26	6	

TOTAL NO. OF

*Course from the curriculum of other UG Programmes.