

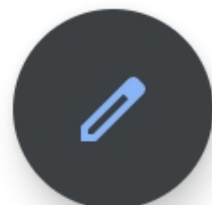
ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
B.E. MECHATRONICS ENGINEERING
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
I TO VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER I

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

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L
THEORY					
1.	HS8251	Technical English	HS	4	4
2.	MA8251	Engineering Mathematics - II	BS	4	4
3.	PH8251	Materials Science	BS	3	3
4.	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	ES	3	3
5.	GE8291	Environmental Science and Engineering	HS	3	3
6.	GE8292	Engineering Mechanics	ES	5	3
PRACTICALS					
7.	GE8261	Engineering Practices Laboratory	ES	4	0
8.	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	ES	4	0
TOTAL				30	20



SEMESTER III

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	
THEORY						
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	(
2.	CE8395	Strength of Materials for Mechanical Engineers	ES	3	3	(
3.	CE8394	Fluid Mechanics and Machinery	ES	4	4	(
4.	EC8392	Digital Electronics	ES	3	3	(
5.	MT8301	Electrical Machines and Drives	ES	3	3	(
6.	MT8302	Analog Devices and Circuits	PC	3	3	(
PRACTICALS						
7.	CE8381	Strength of Materials and Fluid Mechanics & Machinery Laboratory	ES	4	0	(
8.	MT8311	Electrical Machines and Drives Laboratory	ES	4	0	(
9.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	(
TOTAL				30	20	(

SEMESTER IV

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	
THEORY						
1.	MA8452	Statistics and Numerical Methods	BS	4	4	(
2.	ME8392	Manufacturing Technology	PC	3	3	(
3.	MT8491	Microprocessors and Microcontrollers	PC	3	3	(
4.	ME8492	Kinematics of Machinery	PC	3	3	(
5.	MT8401	Thermodynamics and Heat Transfer	PC	3	3	(
PRACTICALS						
6.	MT8411	Microprocessor and Microcontrollers Laboratory	PC	4	0	(
7.	ME8461	Manufacturing Technology Laboratory	PC	4	0	(
8.	ME8381	Computer Aided Machine Drawing	PC	4	0	(
9.	HS8461	Advanced Reading and Writing	EEC	2	0	(
TOTAL				30	16	(

SEMESTER V

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	
THEORY						
1.	EE8552	Power Electronics	ES	3	3	
2.	MT8591	Sensors and Instrumentation	PC	3	3	
3.	ME8594	Dynamics of Machines	PC	4	4	
4.	EC8391	Control Systems Engineering	ES	3	3	
5.		Open Elective - I	OE	3	3	
PRACTICALS						
6.	MT8511	Power Electronics Laboratory	ES	4	0	
7.	MT8512	Sensors and Instrumentation Laboratory	PC	4	0	
8.	ME8481	Dynamics Laboratory	PC	4	0	
9.	HS8581	Professional Communication	EEC	2	0	
TOTAL				30	16	

SEMESTER VI

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	
THEORY						
1.	ME8591	Applied Hydraulics and Pneumatics	PC	3	3	
2.	MT8601	Design of Mechatronics System	PC	3	3	
3.	ME8593	Design of Machine Elements	PC	3	3	
4.	MT8602	Industrial Automation	PC	3	3	
5.	MG8591	Principles of Management	HS	3	3	
6.		Professional Elective – I	PE	3	3	
PRACTICALS						
7.	MT8611	Applied Hydraulics and Pneumatics Laboratory	PC	4	0	
8.	MT8612	Industrial Automation Laboratory	PC	4	0	
9.	ME8682	Design and Fabrication Project	EEC	4	0	
TOTAL				30	18	

SEMESTER VII

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	
THEORY						
1.	ME8691	Computer Aided Design and Manufacturing	PC	3	3	
2.	MT8701	Robotics and Machine Vision System	PC	3	3	
3.	MT8791	Embedded System Design	PC	4	2	
4.		Open Elective - II	OE	3	3	
5.		Professional Elective – II	PE	3	3	
6.		Professional Elective - III	PE	3	3	
PRACTICALS						
7.	MT8711	Computer Aided Design and Manufacturing Laboratory	PC	4	0	
8.	MT8781	Robotics Laboratory	PC	4	0	
TOTAL				27	17	

SEMESTER VIII

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	
THEORY						
1.	MT8801	Automotive Electronics	PC	3	3	0
2.		Professional Elective - IV	PE	3	3	0
3.		Professional Elective – V	PE	3	3	0
PRACTICALS						
4.	MT8811	Project Work	EEC	20	0	0
TOTAL				29	9	0

TOTAL NO. OF CR