

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
B.E. BIOMEDICAL ENGINEERING
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
I - 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.	PH8253	Physics for Electronics Engineering	BS	3	3
4.	BM8251	Engineering Mechanics for Biomedical Engineers	ES	3	3
5.	BM8201	Fundamentals of Bio Chemistry	PC	3	3
6.	EC8251	Circuit Analysis	PC	4	4
PRACTICALS					
7.	GE8261	Engineering Practices Laboratory	ES	4	0
8.	BM8211	Bio Chemistry Laboratory	PC	4	0
TOTAL				29	21

SEMESTER III

SI. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS
THEORY				
1.	MA8352	Linear Algebra and Partial Differential Equations	BS	4
2.	EC8352	Signals and Systems	PC	4
3.	BM8351	Anatomy and Human Physiology	PC	3
4.	BM8301	Sensors and Measurements	PC	4
5.	EC8353	Electron Devices and Circuits	PC	3
6.	BM8302	Pathology and Microbiology	PC	3
PRACTICALS				
7.	BM8311	Pathology and Microbiology Laboratory	PC	4
8.	BM8312	Devices and Circuits Laboratory	PC	4
9.	BM8313	Human Physiology Laboratory	PC	2
TOTAL				31

SEMESTER IV

SI. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS
THEORY				
1.	MA8391	Probability and Statistics	BS	4
2.	BM8401	Medical Physics	PC	3
3.	EE8452	Basics of Electrical Engineering	ES	3
4.	EC8453	Linear Integrated Circuits	PC	3
5.	EC8393	Fundamentals of Data Structures In C	ES	3
6.	EC8392	Digital Electronics	PC	3
PRACTICALS				
7.	EC8381	Fundamentals of Data Structures In C Laboratory	ES	4
8.	BM8411	Integrated Circuits Laboratory	PC	4
TOTAL				27

SEMESTER V

SI. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L
THEORY					
1.	EC8394	Analog and Digital Communication	PC	3	3
2.	BM8501	Biocontrol Systems	PC	4	4
3.	BM8502	Biomedical Instrumentation	PC	3	3
4.	EC8553	Discrete-Time Signal Processing	PC	4	4
5.		Professional Elective - I	PE	3	3
6.		Open Elective -I	OE	3	3
PRACTICALS					
7.	EC8562	Digital Signal Processing Laboratory	PC	4	0
8.	BM8511	Biomedical Instrumentation Laboratory	PC	4	0
9.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0
TOTAL				30	20

SEMESTER VI

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L
THEORY					
1.	EC8691	Microprocessors and Microcontrollers	PC	3	3
2.	BM8601	Diagnostic and Therapeutic Equipment - I	PC	3	3
3.	BM8651	Biomechanics	PC	3	3
4.	GE8291	Environmental Science and Engineering	HS	3	3
5.	MD8091	Hospital Management	PC	3	3
6.		Professional Elective - II	PE	3	3
PRACTICALS					
7.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0
8.	BM8611	Diagnostic and Therapeutic Equipment Laboratory	PC	4	0
9.	BM8612	Mini Project	EEC	2	0
10.	HS8581	Professional Communication	EEC	2	0
TOTAL				30	18

SEMESTER VII

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L
THEORY					
1.	BM8701	Diagnostic and Therapeutic Equipment - II	PC	3	3
2.	EC8093	Digital Image Processing	PC	3	3
3.	BM8702	Radiological Equipments	PC	3	3
4.	BM8703	Rehabilitation Engineering	PC	3	3
5.		Professional Elective III	PE	3	3
6.		Open Elective -II	OE	3	3
PRACTICALS					
7.	EC8762	Digital Image Processing Laboratory	PC	4	0
8.	MD8751	Hospital Training	EEC	4	0
TOTAL				26	18

SEMESTER VIII

SI. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	
THEORY					
1.		Professional Elective IV	PE	3	
2.		Professional Elective V	PE	3	
PRACTICALS					
3.	BM8811	Project Work	EEC	20	
TOTAL				26	

TOTAL NO. OF