

ANNA UNIVERSITY, CHENNAI
AFFILIATED INSTITUTIONS
M.E. COMMUNICATION SYSTEMS
REGULATIONS – 2017
CHOICE BASED CREDIT SYSTEM
CURRICULA AND SYLLABI

SEMESTER - I

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	MA5154	Applied Mathematics for Communication Engineers	FC	4	4	0	0	4
2.	CU5191	Advanced Radiation Systems	PC	3	3	0	0	3
3.	CU5151	Advanced Digital Communication Techniques	PC	3	3	0	0	3
4.	AP5152	Advanced Digital Signal Processing	PC	5	3	2	0	4
5.	CU5192	Optical Networks	PC	3	3	0	0	3
6.		Professional Elective I	PE	3	3	0	0	3
PRACTICALS								
7.	CU5161	Communication Systems Laboratory	PC	4	0	0	4	2
TOTAL				25	19	2	4	22

SEMESTER II

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CU5291	Advanced Wireless Communication Systems	PC	3	3	0	0	3
2.	CU5201	MIC and RF System Design	PC	3	3	0	0	3
3.	CU5292	Electromagnetic Interference and Compatibility	PC	3	3	0	0	3
4.		Professional Elective II	PE	3	3	0	0	3
5.		Professional Elective III	PE	3	3	0	0	3
6.		Professional Elective IV	PE	3	3	0	0	3
PRACTICALS								
7.	CU5211	RF System Design Laboratory	PC	4	0	0	4	2
8.	CP5281	Term Paper Writing and Seminar	EEC	2	0	0	2	1
TOTAL				24	18	0	6	21

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
THEORY								
1.	CU5301	Millimeter Wave Communication	PC	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
3.		Professional Elective VI	PE	3	3	0	0	3
PRACTICALS								
4.	CU5311	Project Work Phase I	EEC	12	0	0	12	6
TOTAL				21	9	0	12	15

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
PRACTICALS								
1.	CU5411	Project Work Phase II	EEC	24	0	0	24	12
TOTAL				24	0	0	24	12

TOTAL NO. OF CREDITS: 70

FOUNDATION COURSES (FC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MA5154	Applied Mathematics for Communication Engineers	FC	4	4	0	0	4

PROFESSIONAL CORE (PC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CU5191	Advanced Radiation Systems	PC	3	3	0	0	3
2.	CU5151	Advanced Digital Communication Techniques	PC	3	3	0	0	3
3.	AP5152	Advanced Digital Signal Processing	PC	5	3	2	0	4
4.	CU5192	Optical Networks	PC	3	3	0	0	3
5.	CU5161	Communication Systems Laboratory	PC	4	0	0	4	2
6.	CU5291	Advanced Wireless Communication Systems	PC	3	3	0	0	3
7.	CU5201	MIC and RF System Design	PC	3	3	0	0	3
8.	CU5292	Electromagnetic Interference and Compatibility	PC	3	3	0	0	3
9.	CU5211	RF System Design Laboratory	PC	4	0	0	4	2
10.	CU5301	Millimeter Wave Communication	PC	3	3	0	0	3

EMPLOYABILITY ENHANCEMENT COURSE (EEC)

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CP5281	Term Paper Writing and Seminar	EEC	2	0	0	2	1
2.	CU5311	Project Work Phase – I	EEC	12	0	0	12	6
3.	CU5411	Project Work Phase – II	EEC	24	0	0	24	12

**PROFESSIONAL ELECTIVES (PE)*
SEMESTER I
ELECTIVE I**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CU5091	Advanced Satellite Communication and Navigation Systems	PE	3	3	0	0	3
2.	DS5191	DSP Processor Architecture and Programming	PE	3	3	0	0	3
3.	CU5001	Analog and Mixed Mode VLSI Design	PE	3	3	0	0	3
4.	CU5092	Real Time Embedded Systems	PE	3	3	0	0	3
5.	VL5091	MEMS and NEMS	PE	3	3	0	0	3

**SEMESTER II
ELECTIVE II**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CU5002	Communication Network Modeling and Simulation	PE	3	3	0	0	3
2.	CU5071	Digital Communication Receivers	PE	3	3	0	0	3
3.	CU5072	Detection and Estimation Theory	PE	3	3	0	0	3
4.	CU5073	VLSI for Wireless Communication	PE	3	3	0	0	3
5.	NC5251	Cognitive Radio Networks	PE	3	3	0	0	3

**SEMESTER II
ELECTIVE III**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CU5003	Advanced Antenna Design	PE	3	3	0	0	3
2.	DS5291	Advanced Digital Image Processing	PE	3	3	0	0	3
3.	DS5292	Radar Signal Processing	PE	3	3	0	0	3
4.	CP5096	Speech Processing and Synthesis	PE	3	3	0	0	3
5.	NC5252	Advanced Wireless Networks	PE	3	3	0	0	3

**SEMESTER II
ELECTIVE IV**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	CU5093	Wavelet Transforms and its Applications	PE	3	3	0	0	3
2.	EL5071	Broadband Access Technologies	PE	3	3	0	0	3
3.	CU5094	Software Defined Radio	PE	3	3	0	0	3
4.	CU5095	Space Time Wireless Communication	PE	3	3	0	0	3
5.	CU5096	Pattern Recognition and Machine Learning	PE	3	3	0	0	3

**SEMESTER III
ELECTIVE V**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	NC5071	Network Routing Algorithms	PE	3	3	0	0	3
2.	CU5097	Wireless Adhoc and Sensor Networks	PE	3	3	0	0	3
3.	CP5292	Internet of Things	PE	3	3	0	0	3
4.	MU5091	Multimedia Compression Techniques	PE	3	3	0	0	3
5.	CU5074	Ultra Wide Band Communication	PE	3	3	0	0	3

**SEMESTER III
ELECTIVE VI**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
1.	MP5092	Soft Computing Techniques	PE	3	3	0	0	3
2.	NC5072	Network Processors	PE	3	3	0	0	3
3.	NE5071	Network Management	PE	3	3	0	0	3
4.	NC5291	Communication Network Security	PE	3	3	0	0	3
5.	CU5004	High Performance Switching Architectures	PE	3	3	0	0	3