

**Annexure - K**

**S.A.ENGINEERING COLLEGE**

(An Autonomous Institution, Affiliated to Anna University, Chennai)

**Veeraraghavapuram, Thiruverkadu post, Chennai-600077**



**Curriculum and Syllabi**

**M.E-Communication Systems**

**Regulation - 2020**

**Choice Based Credit System (CBCS)**

The PG Syllabus of M.E-Communication Systems, S.A.Engineering College (Autonomous), Chennai for 2020-2021 admission onwards, has been ratified by the Board of Studies of Electronics and Communication Engineering which met on 02.03.2020 at S.A.Engineering College, Chennai.

S.A. ENGINEERING COLLEGE, CHENNAI -77  
 (An Autonomous Institution)  
 Department of ECE  
CURRICULUM – 2020

<b>SEMESTER I</b>							
Sl.No.	COURSE CODE	COURSE TITLE	CATEGORY	L	T	P	C
1	MA2101	Applied Mathematics for Communication Engineers	FC	3	1	0	4
2	EC2101	Advanced Radiation Systems	PC	3	0	0	3
3	EC2102	Advanced Digital Communication Techniques	PC	3	1	0	4
4	EC2103	Advanced Digital Signal Processing	PC	3	1	0	4
5	EC2104	Optical Networks	PC	3	0	0	3
6		ELECTIVE I	PE	3	0	0	3
7	EC2105	Communication Systems Laboratory	PC	0	0	4	2
<b>TOTAL</b>				18	3	04	23
<b>SEMESTER II</b>							
Sl.No.	COURSE CODE	COURSE TITLE	CATEGORY	L	T	P	C
1	EC2201	Advanced Wireless Communication	PC	3	0	0	3
2	EC2202	Microwave Integrated Circuits	PC	3	0	2	4
3	EC2203	Electro Magnetic Interference and Compatibility	PC	3	0	0	3
4	EC2204	Cognitive Radio Networks	PC	3	0	0	3
5	EC2205	IPR and International Relations	RMC	2	0	0	2
6		ELECTIVE 2	PE	3	0	0	3
7	EC2206	RF and Optical Communication Laboratory	PC	0	0	4	2
8	EC2207	Mini Project with Seminar	EEC	0	1	2	2
<b>TOTAL</b>				17	1	08	22

**SEMESTER III**

Sl.No.	COURSE CODE	COURSE TITLE	CATEGORY	L	T	P	C
1	EC2301	Massive MIMO and mm Wave Systems	PC	3	0	0	3
2		ELECTIVE 3	PE	3	0	0	3
3		ELECTIVE 4	PE	3	0	0	3
4	EC2302	Project Work Phase I	EEC	0	0	12	6
TOTAL				09	0	12	15

**SEMESTER IV**

Sl.No.	COURSE CODE	COURSE TITLE	CATEGORY	L	T	P	C
1	EC2401	Project Work Phase II	EEC	0	0	24	12
TOTAL				0	0	24	12

**SEMESTER I - PROFESSIONAL ELECTIVE I**

<b>SL.NO</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CATEGORY</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	EC2106	Advanced Satellite Communication	PE	3	0	0	3
2	EC2107	Wireless Communication Networks	PE	3	0	0	3
3	EC2108	Real Time Embedded Systems	PE	3	0	0	3
4	EC2109	Multimedia Communications	PE	3	0	0	3
5	EC2110	Detection & Estimation of Communication Signals	PE	3	0	0	3

**SEMESTER II - PROFESSIONAL ELECTIVE II**

<b>SL.NO</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CATEGORY</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	EC2208	Communication Network Modelling and Simulation	PE	3	0	0	3
2	EC2209	VLSI for Wireless Communication	PE	3	0	0	3

3	EC2210	Broadband Access Technologies	PE	3	0	0	3
4	EC2211	Adhoc and Sensor Networks	PE	3	0	0	3
5	EC2212	WDM Networks	PE	3	0	0	3

**SEMESTER III - PROFESSIONAL ELECTIVE III**

SL.NO	COURSE CODE	COURSE TITLE	CATEGORY	L	T	P	C
1	EC2303	Speech Processing and Synthesis	PE	3	0	0	3
2	EC2304	Network Routing Algorithms	PE	3	0	0	3
3	EC2305	High Speed Switching and Networking	PE	3	0	0	3

**SEMESTER III - PROFESSIONAL ELECTIVE IV**

<b>SL.NO</b>	<b>COURSE CODE</b>	<b>COURSE TITLE</b>	<b>CATEGORY</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	EC2306	Advanced Antenna Design	PE	3	0	0	3
2	EC2307	Cryptography and Network Security	PE	3	0	0	3
3	EC2308	Advanced RADAR and Navigation Systems	PE	3	0	0	3