



ADHIYAMAAN COLLEGE OF ENGINEERING

[An Autonomous Institution Affiliated to Anna University, Chennai]

[Accredited by NAAC]

Dr. M.G.R NAGAR, HOSUR, KRISHNAGIRI (DT) – 635 130, TAMILNADU, INDIA

REGULATIONS 2018

CHOICE BASED CREDIT SYSTEM

B.E- ELECTRONICS AND COMMUNICATION ENGINEERING

VISION

To develop well-disciplined and competent engineers who will excel in the field of Electronics and Communication Engineering.

MISSION

- To develop qualified technical personnel with a strong knowledge on basic engineering principles.
- To disseminate Innovative technical skills by fostering excellence in engineering education.
- To promote exemplary professional conduct, to be utilised for the betterment of the society.

The Programme defines Programme Educational Objectives, Programme Outcomes and Programme Specific Outcomes as follows:

I. PROGRAMME EDUCATIONAL OBJECTIVES [PEOs]

PEO 1 Graduates of the programme will demonstrate strong fundamental mathematical concepts, advance techniques & tools in the field of Electronics and Communication Engineering, eventually motivates them to pursue their higher studies, design and development of innovative, cost-effective products exhibiting a solid foundation to research-oriented methodologies.

PEO 2 Graduates of the programme will be proficient with a successful career in academia and industry for global competitiveness.

PEO 3 Graduates of the programme will exemplify with ethics and moral values, effective communication, Interdisciplinary approach, to solve engineering issues for broader societal benefits which paves way to entrepreneurship and leadership.

II. PROGRAM OUTCOMES [POs]

- PO1: An ability to relate the knowledge of mathematics, science and engineering, to practical real-world applications.
- PO2: An ability to identify, formulate and solve the engineering problems.
- PO3: An ability to produce the efficient system design and components design for various applications.
- PO4: An ability to conduct and investigate different experiments for analysis and synthesis purpose.
- PO5: Excel in modern Engineering tools, Software's and other equipment's.
- PO6: An understanding the Professional responsibility in this technological world.
- PO7: An ability to perceive the impact of Professional Engineering Solution in societal and Environmental contexts and demonstrate the knowledge of, and need for sustainable development.
- PO8: An ability to apprehend, code of conduct and ethical responsibilities.
- PO9: An ability to work on multi-disciplinary task and team work.
- PO10: Ability to write and communicate effectively in verbal, written form.
- PO11: An understanding of Engineering Economics and Management principles to lead projects effectively.
- PO12: An ability to develop confidence for self-education and for life-long learning.

III. PROGRAM SPECIFIC OUTCOMES [PSOs]

- PSO1: An ability to apply the knowledge of mathematics, science and electronic fundamentals to find solutions for complex engineering problems in the design and development of systems in Analog and Digital electronics, VLSI Design, Embedded Systems, Communication, Signal Processing and other relevant domains.
- PSO2: An ability to solve real world problems with optimal solutions using modern hardware and software tools in the domain of electronics and communication engineering.
- PSO3: An ability to grasp the social-cognizance and environmental-wisdom with ethical responsibility to be an entrepreneur in a techno-savvy world by au courant with latest technologies.

MAPPING OF PROGRAMME EDUCATIONAL OBJECTIVES WITH PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES(PSOs)

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	PROGRAM OUTCOMES (POs)												PSO		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
PEO 1	3	3	2	2	2	2	-	-	-	-	-	3	3	3	2
PEO 2	3	3	3	3	2	-	-	-	2	1	2	3	3	3	2
PEO 3	3	2	3	3	3	2	1	3	2	2	-	3	3	3	3

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CHOICE BASED CREDIT SYSTEM

B.E- ELECTRONICS AND COMMUNICATION ENGINEERING

CURRICULA AND SYLLABI FOR SEMESTERS I TO VIII

SEMESTER I

SI. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	118ENT01	Technical English	HSMC	2	0	0	2	2
2.	118MAT02	Engineering Mathematics-I	BSC	3	0	0	3	3
3.	118PHT03	Engineering Physics	BSC	2	0	0	2	2
4.	118CYT04	Engineering Chemistry	BSC	3	0	0	3	3
5.	118PPT05	Problem Solving And Python Programming	ESC	3	0	0	3	3
6.	118ESE0X	ELECTIVE (GROUP1)	ESC	3	0	0	3	3
PRACTICALS								
7.	118PHP07	Engineering Physics Laboratory	BSC	0	0	2	2	1
8.	118PPP08	Problem Solving and Python Programming Laboratory	ESC	0	0	2	2	1
Total				16	0	4	20	18

ELECTIVE (GROUP1)

SI. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	118ESE01	Basic Civil and Mechanical Engineering	ESC	3	0	0	3	3
2.	118ESE05	Basic Mechanical Electrical and Instrumentation Engineering	ESC	3	0	0	3	3
3.	118ESE06	Basic Electrical Electronics and Instrumentation Engineering	ESC	3	0	0	3	3
4.	118ESE07	Biology For Engineers	ESC	3	0	0	3	3

SEMESTER II

SI. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	218ENT01	Communicative English	HSMC	2	0	2	4	3
2.	218MAT02	Engineering Mathematics-II	BSC	3	1	0	4	4
3.	218GET03	Environmental Science And Engineering	BSC	2	0	0	2	2
4.	218EGT04	Engineering Graphics	ESC	2	0	4	6	4
5.	218EDT05	Electric Circuits And Electron Devices	ESC	3	0	0	3	3
6.	218BSE0X	ELECTIVE (GROUP2)	BSC	2	0	0	2	2
PRACTICALS								
7.	218CYP07	Engineering Chemistry Laboratory	BSC	0	0	2	2	1
8.	218EPP08	Engineering Practice Laboratory	ESC	0	0	2	2	1
9.	218CDP09	Circuits and Devices Laboratory	ESC	0	0	2	2	1
Total				14	1	12	27	21

ELECTIVE (GROUP 2)

SI. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	218BSE03	Chemistry for Technologists	BSC	2	0	0	2	2
2.	218BSE04	Energy Storage Devices and Fuel Cells	BSC	2	0	0	2	2
3.	218BSE07	Semiconductor Physics	BSC	2	0	0	2	2
4.	218BSE08	Physics for Electronics Engineering	BSC	2	0	0	2	2

SEMESTER III

SI. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	318MAT01	Engineering Mathematics-III	BSC	3	1	0	4	4
2.	318ECT02	Signals and Systems	PCC	3	0	0	3	3
3.	318ECT03	Fundamentals of Data Structures in C	ESC	3	0	0	3	3
4.	318ECT04	Analog Electronics - I	PCC	3	0	0	3	3
5.	318ECT05	Digital Electronics	PCC	3	0	0	3	3

6.	318ECT06	Electromagnetic Fields	PCC	3	0	0	3	3
PRACTICALS								
7.	318ECP07	Fundamentals of Data Structures in C Laboratory	ESC	0	0	2	2	1
8.	318ECP08	Analog Electronics –I Laboratory	PCC	0	0	2	2	1
9.	318ECP09	Digital Electronics Laboratory	PCC	0	0	2	2	1
TOTAL				18	1	6	25	22

SEMESTER IV

SI. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	418PRT01	Probability and Random Processes	BSC	3	1	0	4	4
2.	418ECT02	Electrical Engineering and Instrumentation	PCC	3	0	0	3	3
3.	418ECT03	Linear Integrated Circuits	PCC	3	0	0	3	3
4.	418ECT04	Analog Electronics -II	PCC	3	0	0	3	3
5.	418ECT05	Control Systems Engineering	PCC	3	0	0	3	3
6.	418ECE06	Professional Elective –I	PEC	3	0	0	3	3
PRACTICALS								
7.	418ECP07	Electrical Engineering Laboratory	PCC	0	0	2	2	1
8.	418ECP08	Linear Integrated Circuit Laboratory	PCC	0	0	2	2	1
9.	418ECP09	Analog Electronics-II Laboratory	PCC	0	0	2	2	1
Total				18	1	6	25	22

List of Subjects for Professional Elective I

SI. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	418ECE01	Industrial Electronics	PEC	3	0	0	3	3
2.	418ECE02	Consumer Electronics	PEC	3	0	0	3	3
3.	418ECE03	Green Electronics	PEC	3	0	0	3	3
4.	418ECE04	Optoelectronic Devices	PEC	3	0	0	3	3
5.	418ECE05	PCB Design	PEC	3	0	0	3	3
6.	418ECE06	Solid state devices	PEC	3	0	0	3	3

SEMESTER V

SI. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	518ECT01	Digital Signal Processing	PCC	3	0	0	3	3
2.	518ECT02	Microprocessors and Microcontrollers	PCC	3	0	0	3	3
3.	518ECT03	Communication Theory	PCC	3	0	0	3	3
4.	518ECT04	Computer Communication and Networks	PCC	3	0	0	3	3
5.	518ECT05	Transmission Lines and Waveguides	PCC	3	0	0	3	3
6.	518ECEXX	Open Elective-I	OEC	3	0	0	3	3
PRACTICALS								
7.	518ECP07	Digital Signal Processing Laboratory	PCC	0	0	2	2	1
8.	518ECP08	Microprocessors and Microcontrollers Laboratory	PCC	0	0	2	2	1
9.	518ECP09	Computer Networks Laboratory	PCC	0	0	2	2	1
Total				18	0	6	24	21

List of Subjects for Open Elective I

SI. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	518BMT02/518BMO02	Biomedical Instrumentation	OEC	3	0	0	3	3
2.	418EIT04/518EIO04	Transducers Engineering	OEC	3	0	0	3	3
3.	518EIE05/518EIO05	Smart Sensors	OEC	3	0	0	3	3
4.	418CIT02/518CIO02	Operating Systems	OEC	3	0	0	3	3
5.	318EET03/518EEO03	Network Analysis and Synthesis	OEC	3	0	0	3	3
6.	318CIT05/518CIO05	Java Programming	OEC	3	0	0	3	3

SEMESTER VI

SI. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	618ECT01	Digital Communication	PCC	3	0	0	3	3
2.	618ECT02	VLSI Design	PCC	3	0	0	3	3
3.	618ECT03	Cellular and Mobile Communication	PCC	3	0	0	3	3
4.	618ECT04	Principles of management	HSMC	3	0	0	3	3
5.	618ECEXX	Professional Elective-II	PEC	3	0	0	3	3
6.		Open Elective –II	OEC	3	0	0	3	3
PRACTICALS								
7.	618ECP07	Analog and Digital Communication Systems Laboratory	PCC	0	0	2	2	1
8.	618ECP08	VLSI Design Laboratory	PCC	0	0	2	2	1
9.	618ECP09	Employability Skills Laboratory	EEC	0	0	2	2	1
Total				18	0	6	24	21

List of Subjects for Professional Elective II

SI. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	618ECE01	Digital Image Processing	PEC	3	0	0	3	3
2.	618ECE02	Robotics Engineering	PEC	3	0	0	3	3
3.	618ECE03	Digital System Design using VHDL	PEC	3	0	0	3	3
4.	618ECE04	Information Theory Coding	PEC	3	0	0	3	3
5.	618ECE05	Soft Computing and Applications	PEC	3	0	0	3	3
6.	618ECE06	Speech Processing	PEC	3	0	0	3	3

List of subjects for Open Electives-II

S. NO.	COURSE CODE	COURSE TITLE	CATEGORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	618CST04/618CSO04	Web programming	OEC	3	0	0	3	3
2.	118BAT03/618BAO03	Professional Ethics and Human Values	OEC	3	0	0	3	3
3.	618ITT02/618ITO02	Cryptography and Security in Computing	OEC	3	0	0	3	3

4.	118BAE02/6 18BAO02	Intellectual Property Rights	OEC	3	0	0	3	3
5.	718CST03/61 8CSO03	Cloud Computing	OEC	3	0	0	3	3
6.	718CSE04/61 8CSO04	Internet of Things	OEC	3	0	0	3	3

SEMESTER VII

Sl. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	718ECT01	Adhoc and Wireless Sensor Networks	PCC	3	0	0	3	3
2.	718ECT02	Optical Communication	PCC	3	0	0	3	3
3.	718ECT03	Antenna and Microwave Engineering	PCC	3	0	0	3	3
4.	718ECT04	Embedded Systems	ESC	3	0	0	3	3
5.	718ECEXX	Professional Elective-III	PEC	3	0	0	3	3
6.	718ECEXX	Professional Elective-IV	PEC	3	0	0	3	3
PRACTICALS								
7.	718ECP07	Optical and Microwave Laboratory	PC	0	0	2	2	1
8.	718ECP08	Electronic System Design Laboratory	PC	0	0	2	2	1
9.	718ECP09	Mini project	EEC	0	0	2	2	1
TOTAL				18	0	6	24	21

List of Subjects for Professional Elective III

Sl. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	718ECE01	Advanced Digital Signal Processing	PEC	3	0	0	3	3
2.	718ECE02	RF System Design	PEC	3	0	0	3	3
3.	718ECE03	Multimedia Compression Techniques	PEC	3	0	0	3	3
4.	718ECE04	Nano Technology	PEC	3	0	0	3	3
5.	718ECE05	Neural Networks and its Applications	PEC	3	0	0	3	3
6.	718ECE06	Optical Networks	PEC	3	0	0	3	3

List of Subjects for Professional Elective IV

SI. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	718ECE07	Cognitive Radio	PEC	3	0	0	3	3
2.	718ECE08	Wireless Networks	PEC	3	0	0	3	3
3.	718ECE09	Telecommunication Switching Networks	PEC	3	0	0	3	3
4.	718ECE10	Advanced Microcontrollers	PEC	3	0	0	3	3
5.	718ECE11	Detection and Estimation Theory	PEC	3	0	0	3	3
6.	718ECE12	CMOS Analog IC Design	PEC	3	0	0	3	3

SEMESTER VIII

SI. NO	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	818ECT01	Disaster Mitigation and Management	HSMC	3	0	0	3	3
2.	818ECEXX	Professional Elective V	PEC	3	0	0	3	3
3.	818ECEXX	Professional Elective VI	PEC	3	0	0	3	3
PRACTICALS								
4.	818ECP04	Project Work	EEC	0	0	20	20	10
TOTAL				9	0	20	29	19

List of Subjects for Professional Elective V

SI. NO	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	818ECE01	Electromagnetic Interference and Compatibility	PEC	3	0	0	3	3
2.	818ECE02	ARM System Architecture and applications	PEC	3	0	0	3	3
3.	818ECE03	Radar and Navigational Aids	PEC	3	0	0	3	3
4.	818ECE04	Parallel and Distributed Processing	PEC	3	0	0	3	3
5.	818ECE05	Compressive sensing	PEC	3	0	0	3	3
6.	818ECE06	MEMS and NEMS	PEC	3	0	0	3	3

List of Subjects for Professional Elective VI

SI. NO	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	818ECE07	ASIC Design	PEC	3	0	0	3	3

2.	818ECE08	Satellite Communication	PEC	3	0	0	3	3
3.	818ECE09	Microwave Integrated Circuits Design	PEC	3	0	0	3	3
4.	818ECE10	Low Power VLSI Design	PEC	3	0	0	3	3
5.	818ECE11	Advanced Wireless Communication	PEC	3	0	0	3	3
6.	818ECE12	DSP Architecture and Programming	PEC	3	0	0	3	3

Allocation of Credits:

Semester	I	II	III	IV	V	VI	VII	VIII
Credit	18	21	22	22	21	21	21	19
Total	165							

HUMANITIES, SOCIAL SCIENCES AND MANAGEMENT COURSES (HSMC)

Sl. NO	COURSE CODE	COURSE TITLE	PERIODS PER WEEK			TOTAL CONTACT PERIODS	Preferred semester	CREDITS
			L	T	P			
1.	118ENT01	Technical English	2	0	0	2	1	2
2.	218ENT01	Communicative English	2	0	2	4	2	3
3.	818ECT01	Disaster Mitigation and Management	3	0	0	3	8	3

BASIC SCIENCES COURSES (BSC)

Sl. NO	COURSE CODE	COURSE TITLE	PERIODS PER WEEK			TOTAL CONTACT PERIODS	Preferred semester	CREDITS
			L	T	P			
1	118MAT02	Engineering Mathematics-I	3	0	0	3	1	3
2	118PHT03	Engineering Physics	2	0	0	2	1	2
3	118CYT04	Engineering Chemistry	3	0	0	3	1	3
4	118PHP07	Engineering Physics Laboratory	0	0	2	2	1	1
5	218MAT02	Engineering Mathematics-II	3	0	0	3	2	3
6	218CYP07	Engineering Chemistry Laboratory	0	0	2	2	2	1
7	218BSE03	Chemistry for Technologists	2	0	0	2	2	2
8	218BSE04	Energy Storage Devices and Fuel Cells	2	0	0	2	2	2
9	218BSE07	Semiconductor Physics	2	0	0	2	2	2
10	218BSE08	Physics for Electronics	2	0	0	2	2	2

		Engineering						
11	218GET03	Environmental Science and Engineering	2	0	0	2	2	2
12	318MAT01	Engineering Mathematics-III	3	1	0	4	3	4
13	418PRT01	Probability and Random Processes	3	1	0	4	4	4

ENGINEERING SCIENCES COURSES (ESC)

S. NO	COURSE CODE	COURSE TITLE	PERIODS PER WEEK			TOTAL CONTACT PERIODS	Preferred semester	CREDITS
			L	T	P			
1	118PPT05	Problem Solving And Python Programming	3	0	0	3	1	3
2	118PPP08	Problem Solving and Python Programming Laboratory	0	0	2	2	1	1
3	118ESE01	Basic Civil and Mechanical Engineering	3	0	0	3	1	3
4	118ESE05	Basic Mechanical Electrical and Instrumentation Engineering	3	0	0	3	1	3
5	118ESE06	Basic Electrical Electronics and Instrumentation Engineering	3	0	0	3	1	3
6	118ESE07	Biology For Engineers	3	0	0	3	1	3
7	218EGT04	Engineering Graphics	2	0	4	6	2	4
8	218EDT05	Electric Circuits And Electron Devices	3	0	0	3	2	3
9	218EPP08	Engineering Practice Laboratory	0	0	2	2	2	1
10	218CDP09	Circuits and Devices Laboratory	0	0	2	2	2	1
11	318ECT03	Fundamentals of Data Structures in C	3	0	0	3	3	3
12	318ECP07	Fundamentals of Data Structures in C Laboratory	0	0	2	2	3	1

PROFESSIONAL CORE COURSES (PCC)

S. NO	COURSE CODE	COURSE TITLE	PERIODS PER WEEK			TOTAL CONTACT PERIODS	Preferred semester	CREDITS
			L	T	P			
1.	318ECT02	Signals and Systems	3	0	0	3	3	3
2.	318ECT04	Analog Electronics - I	3	0	0	3	3	3
3.	318ECT05	Digital Electronics	3	0	0	3	3	3
4.	318ECT06	Electromagnetic Fields	3	0	0	3	3	3

5.	318ECP08	Analog Electronics –I Laboratory	0	0	2	2	3	1
6.	318ECP09	Digital Electronics Laboratory	0	0	2	2	3	1
7.	418ECT02	Electrical Engineering and Instrumentation	3	0	0	3	4	3
8.	418ECT03	Linear Integrated Circuits	3	0	0	3	4	3
9.	418ECT04	Analog Electronics -II	3	0	0	3	4	3
10.	418ECT05	Control Systems Engineering	3	0	0	3	4	3
11.	418ECP07	Electrical Engineering Laboratory	0	0	2	2	4	1
12.	418ECP08	Linear Integrated Circuit Laboratory	0	0	2	2	4	1
13.	418ECP09	Analog Electronics-II Laboratory	0	0	2	2	4	1
14.	518ECT01	Digital Signal Processing	3	0	0	3	5	3
15.	518ECT02	Microprocessors and Microcontrollers	3	0	0	3	5	3
16.	518ECT03	Communication Theory	3	0	0	3	5	3
17.	518ECT04	Computer Communication and Networks	3	0	0	3	5	3
18.	518ECT05	Transmission Lines and Waveguides	3	0	0	3	5	3
19.	518ECP07	Digital Signal Processing Laboratory	0	0	2	2	5	1
20.	518ECP08	Microprocessors and Microcontrollers Laboratory	0	0	2	2	5	1
21.	518ECP09	Computer Networks Laboratory	0	0	2	2	5	1
22.	618ECT01	Digital Communication	3	0	0	3	6	3
23.	618ECT02	VLSI Design	3	0	0	3	6	3
24.	618ECT03	Cellular and Mobile Communication	3	0	0	3	6	3
25.	618ECP07	VLSI Design Laboratory	0	0	2	2	6	1
26.	618ECP08	Analog and Digital Communication Systems Laboratory	0	0	2	2	6	1
27.	718ECT01	Adhoc and Wireless Sensor Networks	3	0	0	3	7	3
28.	718ECT02	Optical Communication	3	0	0	3	7	3
29.	718ECT03	Antenna and Microwave Engineering	3	0	0	3	7	3
30.	718ECP07	Optical and Microwave Laboratory	0	0	2	2	7	1
31.	718ECP08	Electronic System Design Laboratory	0	0	2	2	7	1

PROFESSIONAL ELECTIVE COURSES (PEC)

S.NO	COURSE CODE	COURSE TITLE	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
			L	T	P		
IV SEMESTER							
1	418ECE01	Industrial Electronics	3	0	0	3	3
2	418ECE02	Consumer Electronics	3	0	0	3	3
3	418ECE03	Green Electronics	3	0	0	3	3
4	418ECE04	Optoelectronic Devices	3	0	0	3	3
5	418ECE05	PCB Design	3	0	0	3	3
6	418ECE06	Solid state devices	3	0	0	3	3
VI SEMESTER							
7	618ECE01	Digital Image Processing	3	0	0	3	3
8	618ECE02	Robotics Engineering	3	0	0	3	3
9	618ECE03	Digital System Design using VHDL	3	0	0	3	3
10	618ECE04	Information Theory Coding	3	0	0	3	3
11	618ECE05	Soft Computing and Applications	3	0	0	3	3
12	618ECE06	Speech Processing	3	0	0	3	3
VII SEMESTER							
13	718ECE01	Advanced Digital Signal Processing	3	0	0	3	3
14	718ECE02	RF System Design	3	0	0	3	3
15	718ECE03	Multimedia Compression Techniques	3	0	0	3	3
16	718ECE04	Nano Technology	3	0	0	3	3
17	718ECE05	Neural Networks and its Applications	3	0	0	3	3
18	718ECE06	Optical Networks	3	0	0	3	3
19	718ECE07	Cognitive Radio	3	0	0	3	3
20	718ECE08	Wireless Networks	3	0	0	3	3
21	718ECE09	Telecommunication Switching Networks	3	0	0	3	3
22	718ECE10	Advanced Microcontrollers	3	0	0	3	3
23	718ECE11	Detection and Estimation Theory	3	0	0	3	3
24	718ECE12	CMOS Analog IC Design	3	0	0	3	3
VIII SEMESTER							
25	818ECE01	Electromagnetic Interference and Compatibility	3	0	0	3	3
26	818ECE02	ARM System Architecture and applications	3	0	0	3	3
27	818ECE03	Radar and Navigational Aids	3	0	0	3	3
28	818ECE04	Parallel and Distributed Processing	3	0	0	3	3
29	818ECE05	Compressive sensing	3	0	0	3	3
30	818ECE06	MEMS and NEMS	3	0	0	3	3
31	818ECE07	ASIC Design	3	0	0	3	3

32	818ECE08	Satellite Communication	3	0	0	3	3
33	818ECE09	Microwave Integrated Circuits Design	3	0	0	3	3
34	818ECE10	Low Power VLSI Design	3	0	0	3	3
35	818ECE11	Advanced Wireless Communication	3	0	0	3	3
36	818ECE12	DSP Architecture and Programming	3	0	0	3	3

OPEN ELECTIVE COURSES (OEC) OFFERED BY OTHER DEPARTMENTS

S.NO	COURSECODE	COURSE TITLE	PERIODS PER WEEK				TOTAL CONTACT PERIODS	Preferred Semester
			L	T	P	Credits		
V SEMESTER								
1	518BMT02/518BMO02	Biomedical Instrumentation	3	0	0	3	3	5
2	418EIT04/518EIO04	Transducers Engineering	3	0	0	3	3	5
3	518EIE05/518EIO05	Smart Sensors	3	0	0	3	3	5
4	418CIT02 /518CIO02	Operating Systems	3	0	0	3	3	5
5	318EET03/518EEO03	Network Analysis and Synthesis	3	0	0	3	3	5
6	318CIT05 /518CIO05	Java Programming	3	0	0	3	3	5
VI SEMESTER								
7	618CST04/618CSO04	Web programming	3	0	0	3	3	6
8	118BAT03/618BAO03	Professional Ethics and Human Values	3	0	0	3	3	6
9	618ITT02/618ITO02	Cryptography and Security in Computing	3	0	0	3	3	6
10	118BAE02/618BAO02	Intellectual Property Rights	3	0	0	3	3	6
11	718CST03/618CSO03	Cloud Computing	3	0	0	3	3	6
12	718CSE04/618CSO04	Internet of Things	3	0	0	3	3	6

EMPLOYABILITY ENHANCEMENT COURSES (EEC)

S.NO	COURSE CODE	COURSE TITLE	PERIODS PER WEEK				TOTAL CONTACT PERIODS	PREFERRED SEMESTER
			L	T	P	Credits		
1	618ECP09	Employability Skills Laboratory	0	0	2	1	2	6
2	718ECP09	Mini Project	0	0	2	1	2	7

3	818ECP04	Project Work	0	0	20	10	20	8
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MANDATORY COURSES (MC)

S.NO	COURSECODE	COURSE TITLE	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
			L	T	P		
1	X18MCTO1	Indian Constitution	1	0	0	1	1

SUMMARY

B.E -ELECTRONICS AND COMMUNICATION ENGINEERING											
S.No	SUBJECT AREA	Credits Per Semester								Credits Total	Weightage
		I	II	III	IV	V	VI	VII	VIII		
1	HSMC	2	3				3		3	11	6.66%
2	BSC	9	9	4	4					26	15.75%
3	ESC	7	9	4				3		23	13.93%
4	PCC			14	15	18	11	11		69	41.81%
5	PEC				3		3	6	6	18	10.90%
6	OEC					3	3			6	3.63%
7	EEC						1	1	10	12	7.27 %
	Total	18	21	22	22	21	21	21	19	165	100%