K.L.N. COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Course Outcomes, PO & PSO Mapping – Regulation 2013
ANNA UNIVERSITY, CHENNAI - AFFILIATED INSTITUTIONS
B. E. ELECTRONICS AND COMMUNICATION ENGINEERING
I TO VIII SEMESTERS CURRICULUM

Year	Course Name	Course Code	Attainment Level of Program Outcome											
			PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
I	HS6151 Technical English – I	C101	-	1	-	-	-	-	1	-	2	2	-	1
	MA6151 Mathematics - I	C102	2	2	-	-	2	-	-	-	-	-	-	1
	PH6151 Engineering Physics– I	C103	2	2	-	-	-	-	-	-	-	-	-	1
	CY6151 Engineering Chemistry-I	C104	2	2	-	-	-	-	-	-	-	-	-	1
	GE6151 Computer Programming	C105	2	3	-	-	1	-	-	-	-	-	-	1
	GE6152 Engineering Graphics	C106	1	2	-	-	-	1	-	-	-	1	-	-
	GE6161 Computer Practices Laboratory	C107	1	3	-	-	-	-	-	-	1	-	-	1
	GE6162 Engineering Practices Laboratory	C108	1	1	1	-	1	-	-	-	1	-	-	1
	GE6163 Physics and Chemistry Laboratory - I	C109	3	1	-	-	-	-	-	-	-	-	-	-
	HS6251 Technical English – II	C110	-	1	-	-	-	-	1	-	2	2	-	1
	MA6251 Mathematics–II	C111	2	-	-	2	-	-	-	-	2	-	-	1
	PH6251 Engineering Physics-II	C112	2	2	-	-	-	-	-	-	-	-	-	1
	CY6251 Engineering Chemistry – II	C113	2	2	-	-	-	-	-	-	-	-	-	1

	Course Name	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	EC6201 Electronic Devices	C114	3	2	2	1	-	2	1	1	-	-	-	1
	EE6201 Circuit Theory	C115	3	2	1	1	1	-	-	-	-	-	-	-
	GE6262 Physics and Chemistry Laboratory - II	C116	3	-	-	-	-	-	-	-	-	-	-	-
	EC6211 Circuits and Devices Laboratory	C117	3	1	2	-	1	1	-	-	2	-	-	-
II	MA6351 Transforms and Partial Differential Equations	C201	2	2	-	1	-	-	-	-	-	-	-	-
	EE6352 Electrical Engineering and Instrumentation	C202	1	3	-	-	-	1	1	-	-	-	-	1
	EC6301 Object Oriented Programming and Data Structures	C203	3	2	2	2	-	1	1	1	-	-	-	-
	EC6302 Digital Electronics	C204	3	2	2	2	1	1	1	1	-	-	1	-
	EC6303 Signals and Systems	C205	3	2	2	2	2	1	1	1	1	-	1	1
	EC6304 Electronic Circuits-I	C206	3	2	2	3	2	1	1	1	1	-	1	1
	EC6311 Analog and Digital Circuits Laboratory	C207	3	2	2	3	1	1	2	1	2	-	2	-
	EC6312 OOPS and Data Structures Laboratory	C208	3	2	2	3	-	1	1	1	1	1	-	-
	Course Name	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	MA6451 Probability and Random Processes	C209	3	3	3	-	-	-	-	-	-	-	-	-

	Course Name	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	EC6401 Electronic Circuits - II	C210	3	2	2	3	2	1	1	1	1	1	1	1
	EC6402 Communication Theory	C211	3	3	3	1	-	1	1	2	1	-	-	1
	EC6403 Electromagnetic Fields	C212	3	3	1	-	-	1	1	1	2	-	-	-
	EC6404 Linear Integrated Circuits	C213	3	2	2	2	2	1	1	1	1	-	1	1
	EC6405 Control System Engineering	C214	3	3	1	-	1	1	1	1	1	-	-	-
	EC6411 Circuit and Simulation Integrated Laboratory	C215	3	3	2	3	2	1	2	1	1	-	-	1
	EC6412 Linear Integrated Circuits Laboratory	C216	3	2	3	3	2	1	1	1	1	-	1	1
	EE6461 Electrical Engineering and Control System Laboratory	C217	1	-	-	2	-	-	-	3	-	-	-	-
III	EC6501 Digital Communication	C301	3	3	2	1	-	1	1	1	1	-	-	1
	EC6502 Principle of Digital Signal Processing	C302	3	2	1	1	-	1	1	1	1	-	-	-
	EC6503 Transmission Lines and Wave Guides	C303	2	2	1	1	-	2	2	2	1	-	2	2
	Course Name	**Course Code**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
	GE6351 Environmental Science and Engineering	C304	3	2	2	2	2	1	1	1	1	-	-	1
	EC6504 Microprocessor and Microcontroller	C305	3	2	1	1	1	1	1	-	1	-	-	1
	EC6511	C306	2	1	2	3	3	1	1	1	1	-	1	1

Course Name	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Digital Signal Processing Laboratory													
EC6512 Communication Systems Laboratory	C307	3	3	3	3	1	1	1	2	2	-	-	1
EC6513 Microprocessor and Microcontroller Laboratory	C308	3	3	1	3	3	1	1	1	1	-	1	1
MG6851 Principles of Management	C309	1	1	2	1	1	2	1	3	2	2	3	1
CS6303 Computer Architecture	C310	1	1	2	-	-	2	1	1	-	-	-	1
CS6551 Computer Networks	C311	1	2	2	1	2	1	1	-	-	-	-	-
EC6601 VLSI Design	C312	2	3	2	-	3	2	1	1	1	-	1	1
EC6602 Antenna and Wave Propagation	C313	3	3	3	3	3	2	1	1	1	-	-	1
EC6001 Medical Electronics	C3E1	3	1	2	-	-	2	1	-	-	-	-	1
EC6611 Computer Networks Laboratory	C315	2	2	2	2	2	1	1	1	2	-	-	1
EC6612 VLSI Design Laboratory	C316	3	3	1	1	-	1	1	1	-	1	1	1
Course Name	**Course Code**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
GE6674 Communication and Soft Skills Laboratory	C317	-	-	-	-	-	1	3	-	-	-	1	-
EC6701 RF and Microwave Engineering	C401	2	2	2	2	1	2	2	1	-	1	1	2
EC6702 Optical Communication and Networks	C402	3	1	2	2	1	2	1	1	1	-	1	1

IV

Course Name	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
EC6703 Embedded and Real Time Systems	C403	2	2	3	2	1	1	2	1	-	1	1	2
IT6005 Digital Image Processing	C4E1	3	3	3	1	1	-	1	-	1	-	1	1
EC6009 Advanced Computer Architecture	C4E2	3	2	1	1	1	1	1	-	1	-	-	1
EC6013 Advanced Microprocessor and Microcontroller	C4E3	3	2	1	1	1	1	1	-	1	-	-	1
EC6711 Embedded Laboratory	C407	3	3	1	2	-	2	1	1	-	1	1	1
EC6712 Optical and Microwave Laboratory	C408	3	2	1	2	-	1	1	1	2	-	1	-
EC6801 Wireless Communication	C409	3	2	1	1	1	1	1	-	-	-	1	-
EC6802 Wireless Networks	C410	3	3	3	2	1	1	1	-	1	-	-	1
GE6075 Professional Ethics in Engineering	C4E4	1	1	3	1	-	3	3	3	-	3	-	1
Course Name	**Course Code**	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**
GE6751 Total Quality Management	C4E5	2	2	1	-	-	2	1	1	-	-	-	1
EC6811 Project Work	C4P1	2	2	1	2	2	2	2	1	1	1	2	2

Program level Course-PSO matrix of all courses INCLUDING first year courses

Mapping of Courses (Anna University Regulation 2013) and PSOs

Year	Course Name	Course Code	Program Specific Outcomes		
			PSO1	PSO2	PSO3
I	HS6151 Technical English – I	C101	-	-	1
	MA6151	C102	1	1	-

Course Name	Course Code	PSO1	PSO2	PSO3
Mathematics - I				
PH6151 Engineering Physics– I	C103	1	-	-
CY6151 Engineering Chemistry-I	C104	1	-	-
GE6151 Computer Programming	C105	1	-	-
GE6152 Engineering Graphics	C106	1	-	-
GE6161 Computer Practices Laboratory	C107	1	-	-
GE6162 Engineering Practices Laboratory	C108	1	-	-
GE6163 Physics and Chemistry Laboratory - I	C109	1	-	-
HS6251 Technical English – II	C110	-	-	1
MA6251 Mathematics–II	C111	1	-	1
PH6251 Engineering Physics-II	C112	1	-	-
CY6251 Engineering Chemistry – II	C113	1	-	-
EC6201 Electronic Devices	C114	2	-	-
EE6201 Circuit Theory	C115	2	-	-
GE6262 Physics and Chemistry Laboratory - II	C116	1	-	-
Course Name	**Course Code**	**PSO1**	**PSO2**	**PSO3**
EC6211 Circuits and Devices Laboratory	C117	2	1	-

	Course Name	Course Code			
II	MA6351 Transforms and Partial Differential Equations	C201	1	-	-
	EE6352 Electrical Engineering and Instrumentation	C202	1	1	-
	EC6301 Object Oriented Programming and Data Structures	C203	2	1	-
	EC6302 Digital Electronics	C204	2	1	-
	EC6303 Signals and Systems	C205	2	1	1
	EC6304 Electronic Circuits-I	C206	3	1	1
	EC6311 Analog and Digital Circuits Laboratory	C207	3	1	1
	EC6312 OOPS and Data Structures Laboratory	C208	3	1	1
	MA6451 Probability and Random Processes	C209	1	-	-
	EC6401 Electronic Circuits - II	C210	3	1	1
	EC6402 Communication Theory	C211	3	1	1

Course Name	Course Code	PSO1	PSO2	PSO3
EC6403 Electromagnetic Fields	C212	2	1	1
EC6404 Linear Integrated Circuits	C213	2	1	1
EC6405 Control System Engineering	C214	2	1	-

	Course Name	Course Code			
	EC6411 Circuit and Simulation Integrated Laboratory	C215	3	2	1
	EC6412 Linear Integrated Circuits Laboratory	C216	3	1	1
	EE6461 Electrical Engineering and Control System Laboratory	C217	1	-	1
III	EC6501 Digital Communication	C301	2	1	1
	EC6502 Principle of Digital Signal Processing	C302	2	1	-
	EC6503 Transmission Lines and Wave Guides	C303	2	1	1
	GE6351 Environmental Science and Engineering	C304	2	1	1
	EC6504 Microprocessor and Microcontroller	C305	2	1	-

Course Name	Course Code	PSO1	PSO2	PSO3
EC6511 Digital Signal Processing Laboratory	C306	2	2	1
EC6512 Communication Systems Laboratory	C307	3	1	1
EC6513 Microprocessor and Microcontroller Laboratory	C308	3	2	1
MG6851 Principles of	C309	1	1	2

Course Name	Course Code			
Management				
CS6303 Computer Architecture	C310	1	1	-
CS6551 Computer Networks	C311	2	1	-
EC6601 VLSI Design	C312	2	2	1
EC6602 Antenna and Wave Propagation	C313	3	2	1
EC6001 Medical Electronics	C3E1	2	1	-
EC6611 Computer Networks Laboratory	C315	2	2	1
EC6612 VLSI Design Laboratory	C316	2	2	1
GE6674 Communication and Soft Skills Laboratory	C317	1	2	1
EC6701 RF and Microwave Engineering	C401	2	2	1
Course Name	**Course Code**	**PSO1**	**PSO2**	**PSO3**
EC6702 Optical Communication and Networks	C402	2	1	1
EC6703 Embedded and Real Time Systems	C403	2	1	1
IT6005 Digital Image Processing	C4E1	2	1	1
EC6009 Advanced Computer Architecture	C4E2	2	1	-
EC6013 Advanced Microprocessor and Microcontroller	C4E3	2	1	-

	EC6711 Embedded Laboratory	C407	2	1	1
	EC6712 Optical and Microwave Laboratory	C408	2	1	1
	EC6801 Wireless Communication	C409	2	1	-
	EC6802 Wireless Networks	C410	3	1	-
	GE6075 Professional Ethics in Engineering	C4E4	2	2	1
	GE6751 Total Quality Management	C4E5	1	1	-
	EC6811 Project Work	C4P1	2	2	1