

**PRATHYUSHA ENGINEERING COLLEGE**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**ACADEMIC YEAR 2019-20**  
**LIST OF COURSES**

SEMESTER	Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
I	1.	HS8151	Communicative English	4	0	0	4
I	2.	MA8151	Engineering Mathematics - I	4	0	0	4
I	3.	PH8151	Engineering Physics	3	0	0	3
I	4.	CY8151	Engineering Chemistry	3	0	0	3
I	5.	GE8151	Problem Solving and Python Programming	3	0	0	3
I	6.	GE8152	Engineering Graphics	2	0	4	4
I	7.	GE8161	Problem Solving and Python Programming Laboratory	0	0	4	2
I	8.	BS8161	Physics and Chemistry Laboratory	0	0	4	2
TOTAL				19	0	12	25
SEMESTER	Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
II	1	HS8251	Technical English	4	0	0	4
II	2.	MA8251	Engineering Mathematics - II	4	0	0	4
II	3.	PH8253	Physics for Electronics Engineering	3	0	0	3
II	4.	BE8254	Basic Electrical and Instrumentation Engineering	3	0	0	3
II	5.	EC8251	Circuit Analysis	4	0	0	4
II	6.	EC8252	Electronic Devices	3	0	0	3
II	7.	EC8261	Circuits and Devices Laboratory	0	0	4	2
II	8.	GE8261	Engineering Practices Laboratory	0	0	4	2
TOTAL				21	0	8	25
SEMESTER	Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
III	1.	MA8352	Linear Algebra and Partial Differential Equations	4	0	0	4
III	2.	EC8393	Fundamentals of Data Structures In C	3	0	0	3
III	3.	EC8351	Electronic Circuits- I	3	0	0	3
III	4.	EC8352	Signals and Systems	4	0	0	4
III	5.	EC8392	Digital Electronics	3	0	0	3
III	6.	EC8391	Control Systems Engineering	3	0	0	3
III	7.	EC8381	Fundamentals of Data Structures in C Laboratory	0	0	4	2
III	8.	EC8361	Analog and Digital Circuits Laboratory	0	0	4	2
III	9.	HS8381	Interpersonal Skills/Listening & Speaking	0	0	2	1
TOTAL				20	0	10	25
SEMESTER	Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C
IV	1	MA8451	Probability and Random Processes	4	0	0	4
IV	2.	EC8452	Electronic Circuits II	3	0	0	3
IV	3.	EC8491	Communication Theory	3	0	0	3
IV	4.	EC8451	Electromagnetic Fields	4	0	0	4
IV	5.	EC8453	Linear Integrated Circuits	4	0	0	4
IV	6.	GE8291	Environmental Science and Engineering	3	0	0	3
IV	7.	EC8461	Circuits Design and Simulation Laboratory	0	0	4	2
IV	8.	EC8462	Linear Integrated Circuits Laboratory	0	0	4	2
TOTAL				20	0	8	24



**PRATHYUSHA ENGINEERING COLLEGE**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**ACADEMIC YEAR 2019-20**  
**LIST OF COURSES**

V	SL No	COURSE CODE	COURSE TITLE	L	T	P	C
V	1	ECR501	Digital Communication	3	0	0	3
V	2	ECR553	Discrete-Time Signal Processing	4	0	0	4
V	3	ECR552	Computer Architecture and Organization	3	0	0	3
V	4	ECR551	Communication Networks	3	0	0	3
V	5	GE8077	Total Quality Management	3	0	0	3
V	6	IOMD551	Basic of Biomedical Instrumentation	3	0	0	3
V	7	ECR562	Digital Signal Processing Laboratory	0	0	4	2
	8	ECR561	Communication Systems Laboratory	0	0	4	2
	9	ECR563	Communication Networks Laboratory	0	0	4	2
<b>TOTAL</b>				<b>19</b>	<b>0</b>	<b>12</b>	<b>25</b>

**SEMESTER VI**

SEMESTER	SL No.	COURSE CODE	COURSE TITLE	L	T	P	C
VI	1	ECR691	Microprocessors and Microcontrollers	3	0	0	3
VI	2	ECR095	VLSI Design	3	0	0	3
VI	3	ECR652	Wireless Communication	3	0	0	3
VI	4	MGR591	Principles of Management	3	0	0	3
VI	5	ECR651	Transmission Lines and RF Systems	3	0	0	3
VI	6	ECR004	Wireless Networks	3	0	0	3
VI	7	ECR681	Microprocessors and Microcontrollers Laboratory	0	0	4	2
VI	8	ECR661	VLSI Design Laboratory	0	0	4	2
VI	9	ECR611	Technical Seminar	0	0	2	1
VI	10	HIS8581	Professional Communication	0	0	2	1

**SEMESTER VII**

SEMESTER	SL No.	COURSE CODE	COURSE TITLE	L	T	P	C
VII	1	ECR701	RF and Microwave Engineering	3	0	0	3
VII	2	ECR702	Optical Communication and Networks	3	0	0	3
VII	3	ECR703	Embedded and Real Time Systems	3	0	0	3
VII	4	EC 6004	Satellite Communication	3	0	0	3
VII	5	EC 6011	Electro Magnetic Interference and Compatibility	3	0	0	3
VII	6	EC 6015	Radar and Navigational Aids	3	0	0	3
VII	7	ECR711	Embedded Laboratory	0	0	3	2
VII	8	ECR712	Optical and Microwave Laboratory	0	0	3	2
<b>TOTAL</b>				<b>18</b>	<b>0</b>	<b>6</b>	<b>22</b>

SEMESTER	SL No.	COURSE CODE	COURSE TITLE	L	T	P	C
VIII	1	ECR801	Wireless Communication	3	0	0	3
VIII	2	ECR802	Wireless Networks	3	0	0	3
VIII	3	GE6075	Professional Ethics in Engineering	3	0	0	3
VIII	4	GE 6757	Total Quality Management	3	0	0	3
VIII	5	ECR811	Project Work	0	0	12	6
<b>TOTAL</b>				<b>12</b>	<b>0</b>	<b>12</b>	<b>18</b>

**HEAD OF THE DEPARTMENT**

**PRINCIPAL**

Dr. RAMESH P.L.N. B.Tech., M.Tech., Ph.D.  
 Principal  
 PRATHYUSHA ENGINEERING COLLEGE  
 Poornamallee to Thiruvallur High Road,  
 Chennai- 602025