

**SCHEME OF INSTRUCTION & EXAMINATION**  
**B.E. (Electronics and Communication Engineering) III – SEMESTER**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
<b>Theory Courses</b>										
1	MC111PO	Indian Constitution	2	-	-	2	30	70	3	-
2	HS201EG	Effective Technical Communication in English	3	-	-	3	30	70	3	3
3	HS202CM	Finance and Accounting	3	-	-	3	30	70	3	3
4	BS205MT	Mathematics – III (PDE., Probability & Statistics)	3	-	-	3	30	70	3	3
5	ES212ME	Elements of Mechanical Engineering	3	-	-	3	30	70	3	3
6	ES216EC	Digital Electronics	3	-	-	3	30	70	3	3
7	PC221EC	Electronic Devices	3	-	-	3	30	70	3	3
8	PC222EC	Network Theory	3	-	-	3	30	70	3	3
<b>Practical/ Laboratory Courses</b>										
9	PC251EC	Electronic Devices Lab	-	-	2	2	25	50	2	1
10	PC252EC	Electronic Workshop	-	-	2	2	25	50	2	1
			<b>23</b>	<b>-</b>	<b>04</b>	<b>27</b>	<b>290</b>	<b>660</b>		<b>23</b>

HS: Humanities and Social Sciences

BS: Basic Science

ES: Engineering Science

MC: Mandatory Course

PC: Professional Core

L: Lecture T: Tutorial

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Evaluation (Univ. Exam)

PO: Political Science, EG: English, CM: Commerce, MT: Mathematics, ME: Mechanical Engineering,

EC: Electronics and Communication Engineering

**Note:**

1. Each contact hour is a clock hour.
2. The duration of the practical class is two hours; however it can be extended wherever necessary, to enable the student to complete the experiment.
3. All the mentioned **Mandatory Courses** should be offered either in I-Semester or II-Semester only from the academic year 2019-2020.
4. For those of the students admitted during the academic year 2018-2019, since the Mandatory Courses were not offered during the I-Semester or II-Semester, they should be offered either in III-Semester or IV-Semester of the academic year 2019-2020.

  
 Head of Department

Electronics & Communication Engineering  
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 Road No. 3, Banjara Hills Hyderabad-34

  
 25/03/2020  
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**SCHEME OF INSTRUCTION & EXAMINATION**  
**B.E.(Electronics and Communication Engineering)IV – SEMESTER**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
<b>Theory Courses</b>										
1	MC112CE	Environmental Science	2	-	-	2	30	70	3	-
2	MC113PY	Essence of Indian Traditional Knowledge	2	-	-	2	30	70	3	-
3	HS213MP	Industrial Psychology	3	-	-	3	30	70	3	3
4	HS206BZ	Biology for Engineers	3	-	-	3	30	70	3	3
5	ES215EC	Signals and Systems	3	-	-	3	30	70	3	3
6	PC231EC	Analog Electronic Circuits	3	-	-	3	30	70	3	3
7	PC232EC	Electromagnetic Theory and Transmission Lines	3	-	-	3	30	70	3	3
8	PC233EC	Pulse and Linear Integrated Circuits	3	-	-	3	30	70	3	3
9	PC234EC	Computer Organisation and Architecture	3	-	-	3	30	70	3	3
<b>Practical/ Laboratory Courses</b>										
10	PC261EC	Analog Electronic Circuits Lab	-	-	2	2	25	50	3	1
11	PC262EC	Pulse and Linear Integrated Circuits Lab	-	-	2	2	25	50	3	1
			<b>25</b>	<b>-</b>	<b>04</b>	<b>29</b>	<b>320</b>	<b>730</b>		<b>23</b>

HS: Humanities and Social Sciences

BS: Basic Science

ES: Engineering Science

MC: Mandatory Course

PC: Professional Core

L: Lecture T: Tutorial

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Evaluation (Univ. Exam)

PY: Philosophy, BZ: Biology/ Life Sciences, CE: Civil Engineering

MP: Mechanical / Production Engineering, EC: Electronics and Communication Engineering

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Note:

- Each contact hour is a 45 min session.
- The duration of the practical class is two hours, however it can be extended wherever necessary, to enable the students to complete the experiment.
- All the mandatory Professional Courses should be offered either in I-Semester or II-Semester only from the academic year 2019-2020.
- For those of the students admitted during the academic year 2018-2019, since the Mandatory Courses were not offered during the I-Semester or II-Semester, they should be offered either in III-Semester or IV-Semester of the academic year 2019-2020.
- The students have to undergo a Summer Internship of two-week duration after IV-Semester and credits will be awarded in V-Semester after evaluation.

**SCHEME OF INSTRUCTION & EXAMINATION**  
**B.E. V- SEMESTER**  
**(ELECTRONICS AND COMMUNICATION ENGINEERING)**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
<b>Theory Courses</b>										
1	PC501EC	Linear ICs and Applications	3	1	-	4	30	70	3	3
2	PC502EC	Analog Communication	3	-	-	3	30	70	3	3
3	PC503EC	Digital Signal Processing	3	1	-	4	30	70	3	3
4	PC504EC	Automatic Control Systems	3	1	-	4	30	70	3	3
5	PC505EC	Computer Organization & Architecture	3	1	-	4	30	70	3	3
6	PC506EC	Digital System Design with Verilog HDL	3	-	-	3	30	70	3	3
7	MC901EG	Gender Sensitization	3	-	-	3	30	70	3	0
<b>Practical/Laboratory Courses</b>										
8	PC551EC	IC Applications lab	-	-	2	2	25	50	3	1
9	PC552EC	Systems and Signal Processing Lab	-	-	2	2	25	50	3	1
10	PC553EC	Industrial Visit	-	-	-	-	G	-	-	-
<b>Total</b>			<b>21</b>	<b>4</b>	<b>4</b>	<b>29</b>	<b>260</b>	<b>590</b>		<b>20</b>

PC: Professional Course

MC: Mandatory Course

L: Lecture

T: Tutorial

P: Practical


D: Drawing G: Grade (E/VG/G/S/U)

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

**Note:**

- Each contact hour is a Clock Hour.
- The Practical class can be of two hour (clock hours) duration as per the requirement of a particular laboratory.

  
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**SCHEME OF INSTRUCTION & EXAMINATION**  
**B.E. VI- SEMESTER**  
**(ELECTRONICS AND COMMUNICATION ENGINEERING)**

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs./WK	CIE	SEE	Duration in Hrs	
<b>Theory Courses</b>										
1	PC601EC	Digital Communication	3	1	0	4	30	70	3	3
2	PC602EC	Antennas and wave propagation	3	1	0	4	30	70	3	3
3	PC603EC	Microprocessor and Microcontroller	3	1	0	4	30	70	3	3
4	HS604EC	Managerial Economics & Accountancy	3	0	0	3	30	70	3	3
5	PE - I	Professional Elective-I	3	0	0	3	30	70	3	3
6	OE - I	Open Elective-I	3	0	0	3	30	70	3	3
<b>Practical/Laboratory Courses</b>										
7	PC651EC	Communication Lab	0	0	2	2	25	50	3	1
8	PC652EC	Microprocessor and Microcontroller Lab	0	0	2	2	25	50	3	1
9	MC	Mandatory Course	-	-	3	3	50	-	3	0
10	PC653EC	Summer Internship*	-	-	-	-	50	-	-	-
<b>Total</b>			<b>18</b>	<b>3</b>	<b>7</b>	<b>28</b>	<b>280</b>	<b>520</b>		<b>20</b>

PC: Professional Course      PE: Professional Elective      OE: Open Elective


HS: Humanities and Social Science      MC: Mandatory Course


L: Lecture      T: Tutorial      P: Practical      D: Drawing

CIE: Continuous Internal Evaluation      SEE: Semester End Examination (Univ. Exam)

**Note:**

- Each contact hour is a Clock Hour.
- The Practical class can be of two and half hour (clock hours) duration as per requirement of a particular laboratory.
- \*The students have to undergo a summer internship of four week duration after sixth semester and credits will be awarded in seventh semester after evaluation.

  
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**SCHEME OF INSTRUCTION AND EXAMINATION**  
**BE IV YEAR**  
 (Electronics and Communication Engineering)

**SEMESTER - I**

S.No.	Course Code	Course Title	Scheme of Instruction		Scheme of Examination		
			Periods Per Week		Duration in Hours	Max. Marks	
			L/T	D/P			Univ. Exams
1	EC 401	Microwave Engineering	4	-	3	75	25
2	EC 402	VLSI Design	4	-	3	75	25
3	EC 403	Electronic Instrumentation	4	-	3	75	25
4		Elective - I	4	-	3	75	25
5		Elective - II	4	-	3	75	25
6		Industrial Administration and Financial Management	4	-	3	75	25
		<b>PRACTICALS</b>					
1	EC 431	Microwave Lab	-	3	3	50	25
2	EC 432	Embedded C and VLSI Design Lab	-	3	3	50	25
3	EC 433	Project Seminar	-	3	--	--	25
		<b>TOTAL</b>	<b>24</b>	<b>6</b>		<b>550</b>	<b>225</b>

Elective - I		Elective - II	
EC 411	Optical Communication	EC 421	Embedded Systems
EC 412	Digital Image Processing	EC 422	Digital Signal Processor & Architecture
EC 413	Multi Rate Signal Processing	EC 423	Optimization Techniques
EC 414	FPGA	EC 424	System Automation and Control
EC 415	Artificial Neural Networks	EC 425	Internet of Things
CS XXX	Information Security	ME XXX	Entrepreneurship

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**SCHEME OF INSTRUCTION AND EXAMINATION**  
**BE IV YEAR**  
**(ELECTRONICS AND COMMUNICATION ENGINEERING)**

**SEMESTER - II**

S.No.	Code No.	Subject	Scheme of Instruction		Scheme of Examination		
			L/T	D/P	Duration in Hours	Max. Marks	
THEORY							Univ. Exams
1	EC 451	Data Communication Computer Networks	4	-	3	75	25
2		Elective - III	4	-	3	75	25
3		Elective - IV	4	-	3	75	25
PRACTICALS							
1	EC 481	General Seminar	-	3	--	--	25
2	EC 482	Project	-	6	Viva-voce	Grade	50
<b>TOTAL</b>			<b>12</b>	<b>9</b>		<b>225</b>	<b>150</b>

Elective - III		Elective - IV	
EC 461	Real Time Operating System	EC 471	Nano Electronics
EC 462	Coding Theory and Techniques	EC 472	Global Navigational Satellite Systems
EC 463	Design of Fault Tolerant Systems	EC 473	Fuzzy Logic and Applications
EC 464	Radar Systems	EC 474	Wireless Sensor Networks
EC 465	Mobile and Cellular Communication	EC 475	EMIC
EC 466	System Verilog	EC 476	Speech Signal Processing
EC 467	Analog VLSI Design	EC 477	Advanced Digital Design
		EC 478	Scripting Language
LA XXX	Intellectual Property Rights	CE XXX	Disaster Mitigation and Management

  
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