



SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL

Scheme of examination as per AICTE model Curriculum and NEP 2020 w.e.f July 2021

Grading System

Course Name –Bachelor of Technology (Electronics & Communication Engineering)

Semester III / Year : II Scheme for 2021Admitted Students Onwards

| S. No. | Subject Code | Category | Subject Name | Maximum Marks Allotted | | | | | | Hours/ Week | | | Credit | Total Marks |
|--------------|--------------|----------|--|------------------------|------------|------------------|------------|------------|-------------------------------|-------------|----------|-----------|-------------------|----------------------|
| | | | | Theory | | | Practical | | | L | T | P | | |
| | | | | End Sem | Mid Sem | Quiz, Assignment | End Sem | Lab work | Assignment / Quiz | | | | | |
| 1 | BE31 | BSC | ENGINEERING MATHEMATICS (Probability Distribution & Statistics) | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 2 | EC 31 | CORE | SIGNALS & SYSTEMS | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 3 | EC 32 | CORE | ELECTRONICS DEVICES | 60 | 30 | 10 | 30 | 10 | 10 | 2 | 1 | 2 | 4 | 150 |
| 4 | EC 33 | CORE | DIGITAL SYSTEM DESIGN | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 5 | EC 34 | CORE | NETWORK THEORY | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 6 | BE 34 | LC | SOFTWARE LAB-I(JAVA PROGRAMMING) | - | - | - | 50 | 50 | 50 | 0 | 0 | 4 | 2 | 150 |
| 7 | MC-3 | NNP | NSS/NCC/PHYSICAL EDUCATION | 30 | 10 | 10 | 30 | 10 | 10 | 1 | - | 2 | 2 | 100 |
| 8 | MC-3A | NNP | CAMP-1 FOR NSS,NCC PHYSICAL EDUCATION EVALUATION IN III SEMESTER | 30 | 10 | 10 | 30 | 10 | 10 | 2 | - | 6 | 5 | 100 |
| TOTAL | | | | 360 | 170 | 70 | 200 | 100 | 100 | 17 | 5 | 18 | 24\$ / 31# | 800\$ / 1000# |
| 7 | BE-35 | PDFS | PROFESSIONAL DEVELOPMENT FINISHING SCHOOL-LEVEL-I | | | | | | MANDATORY COURSE (NON CREDIT) | | | | | |

L: Lecture

T:Tutorial

P:Practical

APPLICABLE ONLY FOR REGULAR STUDENTS ADMITTED IN JULY 2021 ONWARDS.

\$ APPLICABLE ONLY FOR LATERAL ENTRY STUDENTS ADMITTED IN JULY 2021 ONWARDS WHO ARE NOT OFFERED NCC/NSS/PHYSICAL EDUCATION.



SARVEPALLI RADHAKRISHNAN UNIVERSITY, BHOPAL

**Scheme of examination as per AICTE model Curriculum and NEP 2020 w.e.f July 2021
Grading System**

Course Name –Bachelor of Technology (Electronics & Communication Engineering)

Semester IV / Year : II Scheme for 2021Admitted Students Onwards

| S. No | Subject Code | Category | Subject Name | Maximum Marks Allotted | | | | | | Hours/Week | | | Credit | Total Marks |
|--|--------------|--------------------|--|------------------------|------------|------------------|------------|---------------------|-------------------|-------------------------------|----------|-----------|---------------------------------------|---|
| | | | | Theory | | | Practical | | | L | T | P | | |
| | | | | End Sem | Mid Sem | Quiz, Assignment | End Sem | Lab work | Assignment / Quiz | | | | | |
| 1 | EC41 | CORE | ANALOG AND DIGITAL COMMUNICATION | 60 | 30 | 10 | 30 | 10 | 10 | 2 | 1 | 2 | 4 | 150 |
| 2 | EC42 | CORE | ANALOG CIRCUITS | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 3 | EC43 | CORE | ELECTRONICS & INSTRUMENTATION | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 4 | EC44 | CORE | COMMUNICATION NETWORK AND TRASMISSION LINES | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 5 | BE41 | ECHS | ENGINEERING ECONOMICS AND ACCOUNTING | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 6 | BE42 | LC | SOFTWARE LAB-II(MATLAB/SCILAB/DOT NET) | - | - | - | 50 | 50 | 50 | 0 | 0 | 4 | 2 | 150 |
| 7 | MC-4 | NNP | NSS/NCC/PHYSICAL EDUCATION | 30 | 10 | 10 | 30 | 10 | 10 | 2 | - | 2 | 3 | 100 |
| TOTAL | | | | 330 | 160 | 60 | 170 | 90 | 90 | 16 | 5 | 12 | 24^{\$}/27[#] | 800^{\$}/900[#] |
| 7 | BE43 | MC | ENVIRONMENTAL SCIENCES | | | | | | | MANDATORY COURSE (NON CREDIT) | | | | |
| 8 | BE-44 | PDFS | PROFESSIONAL DEVELOPMENT FINISHING SCHOOL-LEVEL-II | | | | | | | MANDATORY COURSE (NON CREDIT) | | | | |
| L: Lecture | | T: Tutorial | | | | | | P: Practical | | | | | | |
| INDUSTRIAL TRAINING (2 WEEKS) TO BE CARRIED OUT AT THE END OF FOURTH SEMESTER EXAM AND EVALUATED IN FIFTH SEMESTER. | | | | | | | | | | | | | | |
| SECOND CAMP FOR NSS/NCC/PHYSICAL EDUCATION TO BE CARRIED OUT AT THE END OF FOURTH SEMESTER EXAM AND EVALUATED IN FIFTH SEMESTER | | | | | | | | | | | | | | |
| # APPLICABLE ONLY FOR REGULAR STUDENTS ADMITTED IN JULY 2021 ONWARDS. | | | | | | | | | | | | | | |
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Scheme of examination as per AICTE model Curriculum and NEP 2020 w.e.f July 2021
Grading System

Course Name – Bachelor of Technology (Electronics & Communication Engineering)

Semester V / Year : III Scheme for 2021 Admitted Students Onwards

| S. No. | Subject Code | Category | Subject Name | Maximum Marks Allotted | | | | | | Hours/ Week | | | Credit | Total Marks |
|--------------|--------------|----------|--|------------------------|------------|------------------|------------|------------|--------------------------------|-------------|----------|-----------|----------------------------|-------------------------------|
| | | | | Theory | | | Practical | | | L | T | P | | |
| | | | | End Sem. | Mid Sem | Quiz, Assignment | End Sem | Lab work | Assignment / Quiz | | | | | |
| 1 | EC51 | CORE | ELECTROMAGNETIC WAVES | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 2 | EC52 | CORE | PROBABILITY THEORY AND STOCHASTIC PROCESSES | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 3 | EC53 | CORE | MICROCONTROLLERS | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 4 | EC54 | CORE | DIGITAL SIGNAL PROCESSING | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 5 | EC55 | ECEL | PROGRAM ELECTIVE -1- | 60 | 30 | 10 | | | | 3 | 1 | - | 4 | 100 |
| 6 | EC56 | LC | INDUSTRIAL TRAINING (TWO WEEKS) | - | - | - | 50 | 50 | 50 | 0 | 0 | 2 | 1 | 150 |
| 7 | MC-5 | NNP | NSS/NCC/PHYSICAL EDUCATION | 30 | 10 | 10 | 30 | 10 | 10 | 1 | - | 2 | 2 | 100 |
| 8 | MC-5A | NNP | CAMP-2 FOR NSS,NCC PHYSICAL EDUCATION EVALUATION IN IIIRD SEMESTER | 30 | 10 | 10 | 30 | 10 | 10 | 2 | - | 6 | 5 | 100 |
| TOTAL | | | | 360 | 170 | 70 | 200 | 100 | 100 | 18 | 5 | 16 | 24^{\$/31}# | 800^{\$/1000}# |
| 7 | BE 52 | MC | ESSENCE OF INDIAN KNOWLEDGE TRADITION | | | | | | MANDATORY COURSES (NON CREDIT) | | | | | |
| 8 | BE 53 | PDFS | PROFESSIONAL DEVELOPMENT FINISHING SCHOOL-LEVEL-III | | | | | | MANDATORY COURSE (NON CREDIT) | | | | | |

L: Lecture

T: Tutorial

P: Practical

Program Elective –I

EC55(A): CMOS DESIGN, EC55(B) WAVELETS, EC55(C) NANO ELECTRONICS

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Scheme of examination as per AICTE model Curriculum and NEP 2020 w.e.f July 2021

Grading System

Course Name –Bachelor of Technology (Electronics & Communication Engineering)

Semester VI / Year : III Scheme for 2021Admitted Students Onwards

| S. No. | Subject Code | Category | Subject Name | Maximum Marks Allotted | | | | | | Hours/ Week | | | Credit | Total Marks |
|--------------|--------------|----------|--|------------------------|------------|------------------|------------|-----------|-------------------------------|-------------|----------|-----------|---------------------------------------|---|
| | | | | Theory | | | Practical | | | L | T | P | | |
| | | | | End Sem. | Mid Sem | Quiz, Assignment | End Sem | Lab work | Assignment / Quiz | | | | | |
| 1 | EC61 | CORE | CONTROL SYSTEMS | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 2 | EC62 | CORE | VLSI CIRCUITS & SYSTEMS | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 3 | EC63 | CORE | ANTENNA AND WAVE PROPAGATION | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 4 | EC64 | ECEL | PROGRAM ELECTIVE -2- | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 5 | EC65 | OE-2 | OPEN ELECTIVE-2 | 60 | 30 | 10 | - | - | - | 2 | 1 | - | 3 | 100 |
| 6 | EC66 | PROJ | MINI PROJECT/ELECTRONIC DESIGN WORKSHOP | - | - | - | 50 | 50 | 50 | - | - | 4 | 2 | 150 |
| 7 | MC-6 | NNP | NSS/NCC/PHYSICAL EDUCATION | 30 | 10 | 10 | 30 | 10 | 10 | 2 | - | 2 | 3 | 100 |
| TOTAL | | | | 330 | 160 | 60 | 170 | 90 | 90 | 16 | 5 | 12 | 24^{\$}/27[#] | 800^{\$}/900[#] |
| 7 | BE 61 | PDFS | PROFESSIONAL DEVELOPMENT FINISHING SCHOOL - LEVEL - IV | | | | | | MANDATORY COURSE (NON CREDIT) | | | | | |

L: Lecture

T: Tutorial

P: Practical

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| Program Elective –2 EC64(A) EMBEDDED SYSTEM EC64(B) BIO-MEDICAL ELECTRONICS EC64(C) MIXED SIGNAL DESIGN | Open Elective –2 EC65(A) COMPUTER NETWORK EC65(B) DIGITAL IMAGE PROCESSING EC65(C) NEURAL NETWORKS |
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Scheme of examination as per AICTE model Curriculum and NEP 2020 w.e.f July 2021 Grading System

Course Name –Bachelor of Technology (Electronics & Communication Engineering)

Semester VII / Year : IV

Scheme for 2021 Admitted Students Onwards

| S. No. | Subject Code | Category | Subject Name | Maximum Marks Allotted | | | | | | Hours/ Week | | | Credit | Total Marks |
|--------------|--------------|----------|---------------------|------------------------|------------|------------------|------------|-----------|-------------------|-------------|----------|-----------|---------------------------------------|---|
| | | | | Theory | | | Practical | | | L | T | P | | |
| | | | | End Sem. | Mid Sem | Quiz, Assignment | End Sem | Lab work | Assignment / Quiz | | | | | |
| 1 | EC71 | ECEL | PROGRAM ELECTIVE 3 | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 2 | EC72 | ECEL | PROGRAM ELECTIVE 4 | 60 | 30 | 10 | - | - | - | 2 | 1 | - | 3 | 100 |
| 3 | EC73 | ECEL | PROGRAM ELECTIVE 5 | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 4 | EC74 | OE-3 | OPEN ELECTIVE 3 | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 5 | EC75 | PROJ-EC | MAJOR PROJECT -I | - | - | - | 100 | 50 | 50 | - | - | 8 | 4 | 200 |
| 6 | EC76 | HSMC | OPERATIONS RESEARCH | 60 | 30 | 10 | - | - | - | 2 | 1 | - | 3 | 100 |
| TOTAL | | | | 300 | 150 | 50 | 160 | 70 | 70 | 13 | 5 | 12 | 24^{\$}/24[#] | 800^{\$}/800[#] |

L: Lecture

T:Tutorial

P:Practical

| | | | |
|--|---|---|--|
| Program Elective –3 EC71(A) - MICROWAVE THEORY AND TECHNIQUES EC71(B)- INFORMATION THEORY & CODING EC71(C)- SPEECH AND AUDIO PROCESSING | Program Elective –4 EC72(A) SATELLITE COMMUNICATION EC72(A)2 HIGH SPEED ELECTRONICS EC72(C) ERROR CORRECTING CODES | Program Elective –5 EC73(A) FIBER OPTICS COMMUNICATION EC73(B) INTRODUCTION TO MEMS EC73(C) ADAPTIVE SIGNAL PROCESSING | Open Elective 3 EC74(A) WIRELESS SENSOR NETWORK EC74(B) INTERNET OF THINGS EC74(C) SCADA AND SIMULATION |
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Grading System

Course Name –Bachelor of Technology (Electronics & Communication Engineering)

Semester VIII / Year : IV

Scheme for 2021Admitted Students Onwards

| S. No. | Subject Code | Category | Subject Name | Maximum Marks Allotted | | | | | Hours/ Week | | | Credit | Total Marks |
|--------------|--------------|----------|----------------------------------|------------------------|---------|------------------|------------|------------|-------------|---|-----------|---------------------------------------|---|
| | | | | Theory | | | Practical | | L | T | P | | |
| | | | | End Sem. | Mid Sem | Quiz, Assignment | End Sem | Term work | | | | | |
| 1 | EC81 | PROJ-EC | MAJOR PROJECT - 2/ INTERNSHIP | - | - | - | 600 | 200 | - | - | 30 | 15 | 800 |
| TOTAL | | | | - | - | - | 600 | 200 | - | - | 30 | 15^{\$}/15[#] | 800^{\$}/800[#] |

L: Lecture

T:Tutorial

P:Practical

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