



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 & Instrumentation Engineering)

Semester III / Year : II

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 | BE31 | BSC | ENGINEERING MATHEMATICS (Probability Distribution & Statistics) | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 2 | EI 31 | CORE | SIGNALS & SYSTEMS | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 3 | EI 32 | CORE | ELECTRONICS DEVICES | 60 | 30 | 10 | 30 | 10 | 10 | 2 | 1 | 2 | 4 | 150 |
| 4 | EI 33 | CORE | DIGITAL SYSTEM DESIGN | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 5 | EI 34 | CORE | NETWORK THEORY | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 6 | BE34 | 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 IIIRD 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 Engineering (Electronics & Instrumentation)

Semester IV / Year : II

Scheme for 2021 Admitted Students onwards

| S. No. | Subject Code | Category Code | 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 | EI41 | CORE | SENSORS AND TRANSDUCERS | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 | |
| 2 | EI42 | CORE | ANALOG CIRCUITS | 60 | 30 | 10 | 30 | 10 | 10 | 2 | 1 | 2 | 4 | 150 | |
| 3 | EI43 | CORE | MICROCONTROLLERS | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 | |
| 4 | EI44 | CORE | ELECTRONICS & INSTRUMENTATION | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 | |
| 5 | BE41 | EIHS | 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 | 80 | 16 | 5 | 12 | 24^{\$}/27[#] | 800^{\$}/900[#] | |
| 7 | BE 43 | MC | ENVIRONMENT SCIENCE | | | | | | | 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

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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 Engineering (Electronics & Instrumentation)

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 | EI51 | PCC | DEPARTMENTAL ELECTIVE-I | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 2 | EI52 | EIOE | OPEN ELECTIVE-I | 60 | 30 | 10 | - | - | - | 3 | 1 | - | 4 | 100 |
| 3 | EI53 | CORE | PROCESS INSTRUMENTATION | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 4 | EI54 | CORE | DIGITAL SIGNAL PROCESSING | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 5 | EI55 | EIEL | PROGRAM ELEITIVE -1 | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 6 | EI56 | 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 IIIIRD 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 COURSE (NON CREDIT) | | | | | | | | | | |
| 8 | BE 53 | PDFS | PROFESSIONAL DEVELOPMENT FINISHING SCHOOL-LEVEL-III | MANDATORY COURSE (NON CREDIT) | | | | | | | | | | |

L: Lecture

T:Tutorial

P:Practical

| DEPARTMENTAL ELECTIVE-I | | PROGRAM ELEITIVE -1 | | OPEN ELECTIVE-I | |
|-------------------------|--|---------------------|------------------------|-----------------|---------------------------|
| EI51(A) | INDUSTRIAL AUTOMATION | EI55(A) | CMOS DESIGN | EI52(A) | VIRTUAL INSTRUMENTATION |
| EI51(B) | ANALOG AND DIGITAL COMMUNICATION(ADC) | EI55(B) | BIOMEDICAL ELECTRONICS | EI52(B) | COMMUNICATION ENGINEERING |
| EI51(C) | BIOMEDICAL INSTRUMENTATION | EI55(C) | CONTROL SYSTEM | EI52(C) | EDA TOOLS |

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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 & Instrumentation Engineering)

Semester VI / 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 | EI61 | PCC | DEPARTMENTAL ELECTIVE-II | 60 | 30 | 10 | - | - | - | 2 | 1 | - | 3 | 100 |
| 2 | EI62 | CORE | VLSI CIRCUITS & SYSTEMS | 60 | 30 | 10 | - | - | - | 3 | 1 | 2 | 5 | 150 |
| 3 | EI63 | CORE | POWER ELECTRONICS | 60 | 30 | 10 | 20 | 20 | 10 | 3 | 1 | 2 | 5 | 150 |
| 4 | EI64 | CORE | EMBEDDED SYSTEM | 60 | 30 | 10 | 20 | 20 | 10 | 3 | 1 | 2 | 5 | 150 |
| 5 | EI65 | OE-2 | OPEN ELECTIVE-II | 60 | 30 | 10 | 20 | 20 | 10 | 3 | 1 | - | 4 | 100 |
| 6 | EI66 | PROJECT | MINI PROJECT/ELECTRONIC DESIGN WORKSHOP | - | - | - | 50 | 50 | 50 | 0 | 0 | 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

| DEPARTMENTAL ELECTIVE-II | |
|--------------------------|-----------------------------|
| EI61(A) | NANO ELECTRONICS |
| EI61(B) | INTELLIGENT INSTRUMENTATION |
| EI61(C) | DSP PROCESSORS |

| OPEN ELECTIVE-II | |
|------------------|-------------------------------|
| EI65(A) | SCADA SYSTEM |
| EI65(B) | Fuzzy Logic & Neural Networks |
| EI65(C) | NUCLEAR INSTRUMENTATION |

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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 & Instrumentation 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 | EI71 | EIEL | PROGRAM ELECTIVE -II- | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 2 | EI72 | EIEL | PROGRAM ELECTIVE -III- | 60 | 30 | 10 | - | - | - | 2 | 1 | - | 3 | 100 |
| 3 | EI73 | EIEL | PROGRAM ELECTIVE -IV | 60 | 30 | 10 | 30 | 10 | 10 | 3 | 1 | 2 | 5 | 150 |
| 4 | EI74 | OE | OPEN ELECTIVE -III | 60 | 30 | 10 | | | | 3 | 1 | - | 4 | 100 |
| 5 | EI75 | PROJECT | MAJOR PROJECT -I | - | - | - | 100 | 50 | 50 | - | - | 8 | 4 | 200 |
| 6 | EI76 | 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 –II | Program Elective –III | Program Elective –IV | Open Elective -III |
|---|---|--|--|
| EI71(A) -SIMULATION &MODELING | EI72(A) -DIGITAL IMAGE PROCESSING | EI73(A) -ANALYTICAL AND INDUSTRIAL INSTRUMENTATION | EI74(A) -INTERNET OF THINGS |
| EI71(B)-DATA ACQUISITIONS SYSTEMS | EI72(B)-MANAGEMENT INFORMATION SYSTEM | EI73(B) ROBOTICS | EI74(B)- DIGITAL CONTROL SYSTEM |
| EI71(C) -OPTICAL INSTRUMENTS AND SENSORS | EI72(C)-ADVANCE INDUSTRIAL ELECTRONICS | EI73(C)- SAFETY & RELIABILITY | EI74(C)-MEMORY TECHNOLOGIES |

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Grading System

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

Semester VIII / 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 | Term work | | | | | |
| 1 | EI 81 | PROJECT | 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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