# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

### Department of Electronics Engineering
## Scheme of Examination (For Batch admitted in Year 2023-24)

**B.Tech. I Semester (Electronics & Telecommunication Engineering)** *[For batches admitted in Academic Session 2023-24 onwards]*

| S. No. | Subject Code | Category Code | Subject Name | Maximum Marks Allotted | | | | | | | Total Marks | Contact Hours per week | | | Total Credits | Mode of Teaching | Mode of Exam. | Duration of Exam |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory Slot | | | | Practical Slot | | | | L | T | P | | | | |
| | | | | End Sem. | | Mid Sem. Exam. | Quiz/ Assignment | End Sem. | Lab Work & Sessional | Skill Based Mini Project | | | | | | | | |
| | | | | End Term Evaluation | $Proficiency in subject /course | | | | | | | | | | | | | |
| 1. | 3100022 | BSC | Basic Electrical & Electronics Engineering | 50 | 10 | 20 | 20 | 40 | 30 | 30 | 200 | 2 | 1 | 2 | 4 | Blended | MCQ | 1.5 Hrs |
| 2. | 3200121 | DC | Electronic Engineering Materials | 50 | 10 | 20 | 20 | - | - | - | 100 | 3 | - | - | 3 | Blended | PP | 2 Hrs |
| 3. | 3200122 | DC | Electronic Devices | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Blended | PP | 2 Hrs |
| 4. | 3200123 | DC | Network Theory | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Blended | PP | 2 Hrs |
| 5. | 3200125 | ESC | Computer Programming | 50 | 10 | 20 | 20 | 40 | 30 | 30 | 200 | 2 | 1 | 2 | 4 | Blended | AO | 2 Hrs |
| 6. | 3200124 | DLC | Devices & Network Lab | - | - | - | - | 40 | 30 | 30 | 100 | - | - | 4 | 2 | Offline | SO | 2 Hrs |
| | | **Total** | | 250 | 50 | 100 | 100 | 120 | 90 | 90 | 800 | 11 | 4 | 8 | 19 | | | |
| 6 | 3000002 | Natural Sciences and Skills | Engineering Chemistry | 50 | 10 | 20 | 20 | **30** | **10** | **10** | 150 | 1 | - | 2 | **GRADE** | Blended | MCQ | 1.5 Hrs |
| | | Induction programme of three weeks (MC):Physical activity, Creative Arts, Universal Human Values ,Literary ,Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations. | | | | | | | | | | | | | | | | |

**$Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject Natural Sciences& Skills: Engineering Physics / Engineering Chemistry / Environmental Science/ Language**

**MCQ:** Multiple Choice Question **AO:** Assignment + Oral **OB:** Open Book **PP:** Pen Paper **SO:** Submission + Oral

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| Mode of Teaching | | | | | Mode of Examination | | | | | Total Credits |
|---|---|---|---|---|---|---|---|---|---|---|
| Theory | | | | Lab | Theory | | | | Lab | |
| Offline | Online | Blended | | Offline | PP | A+O | MCQ | SO | | |
| | | Offline | Online | | | | | | | |
| 0 | 0 | 10 | 5 | 8 | 9 | 4 | 4 | 2 | | 19 |
| 0% | 0% | 52.63% | 26.31% | 42.10% | 47.36% | 21.05% | 21.05% | 10.5% | | |

# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute, Affiliated to RGPV, Bhopal (M.P.) India)

**NAAC Accredited with A++ Grade**

## B.Tech. II Semester (Electronics & Telecommunication Engineering) *(for batch admitted in academic session 2023-24)*

| S. No. | Subject Code | Category Code | Subject Name | Maximum Marks Allotted | | | | | | | Total Marks | Contact Hours per week | | | Total Credits | Mode of Teaching | Mode of Exam. | Duration of Exam |
| | | | | Theory Slot | | | | Practical Slot | | | | | | | | | | |
| | | | | End Sem. | | Mid Sem. Exam. | Quiz/ Assignment | End Sem. | Lab Work & Sessional | Skill Based Mini Project | | L | T | P | | | | |
| | | | | End Term Evaluation | $Proficiency in subject/course | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | 3100011 | BSC | Engineering Mathematics –I | 50 | 10 | 20 | 20 | - | - | - | 100 | 3 | 1 | - | 4 | Offline | PP | 2 Hrs |
| 2. | 3200221 | DC | Digital Circuits &Systems | 50 | 10 | 20 | 20 | 40 | 30 | 30 | 200 | 2 | 1 | 2 | 4 | Blended | PP | 2 Hrs |
| 3. | 3200222 | DC | Electronics Circuits | 50 | 10 | 20 | 20 | 40 | 30 | 30 | 200 | 2 | 1 | 2 | 4 | Blended | PP | 2 Hrs |
| 4. | 3200223 | DC | Signals and Systems | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Blended | PP | 2 Hrs |
| 5. | 3200224 | DC | Python Programming | 50 | 10 | 20 | 20 | 40 | 30 | 30 | 200 | 2 | 1 | 2 | 4 | Blended | AO | 1.5 Hrs |
| | Total | | | 250 | 50 | 100 | 100 | 120 | 90 | 90 | 800 | 11 | 5 | 6 | 19 | | | |
| 6 | 3000001 | Natural Sciences and Skills | Engineering Physics | 50 | 10 | 20 | 20 | - | - | - | - | 1 | - | 2 | GRADE | Blended | MCQ | 1.5 Hrs |
| | Summer Internship Project – I (Institute Level) (Qualifier): Minimum two-week duration: Evaluation in III Semester. | | | | | | | | | | | | | | | | | |

$**Proficiency in course/subject – includes the weightage towards ability/ skill/ competency /knowledge level /expertise attained etc. in that particular course/subject**

**Natural Sciences& Skills:  Engineering Physics / Engineering Chemistry / Environmental Science/ Language**

**Credits of Natural Sciences & Skills will be added in the VI Semester.**

**MCQ:** Multiple Choice Question        **AO:** Assignment + Oral        **OB:** Open Book        **PP:** Pen Paper        **SO:** Submission + Oral

| Mode of Teaching | | | | | Mode of Examination | | | | Total Credits |
| Theory | | | | Lab | Theory | | | Lab | |
| Offline | Online | Blended | | Offline | PP | A+O | MCQ | SO | |
| | | Offline | Online | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 0 | 8 | 4 | 6 | 15 | 4 | 0 | 0 | 19 |
| 21.05% | 0% | 42.10% | 21.05% | 31.57% | 78.94% | 21.05% | 0% | 0% | |

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR**
**(Deemed to be University)**
**(Declared Under Distinct Category by Ministry of Education, Government of India)**
**NAAC Accredited with A++ Grade**

# Scheme of Examination (For Batch admitted in Year 2023-24)

## B.Tech. (Electronics & Telecommunication Engineering) III Semester *[For batches admitted in Academic Session 2023-24 onwards]*

| S. No. | Subject Code | Category Code | Subject Name | Maximum Marks Allotted | | | | | | | Total Marks | Contact Hours per week | | | Total Credits | Mode of Teaching (Offline/ Online) | Mode of Exam. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory Slot | | | | Practical Slot | | | | L | T | P | | | |
| | | | | End Sem. | | Mid Sem. Exam. | Quiz/ Assignment | End Sem | Lab Work & Sessional | Skill Based Mini Project | | | | | | | |
| | | | | End Term Evaluation | $^\$$Proficiency in subject /course | | | | | | | | | | | | |
| 1. | 31000025 | BSC | Engg Mathematics-II | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Offline | PP |
| 2. | 3200320 | DC | Analog Communication | 50 | 10 | 20 | 20 | 40 | 30 | 30 | 200 | 2 | 1 | 2 | 4 | Blended | PP |
| 3. | 3200322 | DC | Analog Integrated Circuits | 50 | 10 | 20 | 20 | 40 | 30 | 30 | 200 | 2 | 1 | 2 | 4 | Blended | PP |
| 4. | 3200323 | DC | Communication Networks | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Blended | PP |
| 5. | 3200324 | DC | Data Communication | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | 1 | - | 3 | Blended | PP |
| 6. | 3200321 | DLC | Hardware Lab | - | - | - | - | 40 | 30 | 30 | 100 | - | - | 2 | 1 | Offline | SO |
| 7. | 3200316 | DLC | Self-learning/ Presentation# | - | - | - | - | - | 40 | - | 40 | - | - | 2 | 1 | Online +Mentoring | SO |
| 8. | | CLC | Novel Engaging Course | - | - | - | - | 50 | - | - | 50 | - | - | 2 | 1 | Interactive | SO |
| 9. | 3200317 | DLC | Skill Internship Project (Evaluation) | - | - | - | - | 60 | - | - | 60 | - | - | 4 | 2 | Offline | SO |
| | | Total | | 250 | 50 | 100 | 100 | 290 | 100 | 60 | 950 | 10 | 5 | 14 | 22 | | |
| 10. | 3000005 | Natural Science & Skill | Environmental Engineering | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | - | - | Grade | Blended | MCQ |
| 11 | 1000001 | MAC | Indian Constitution and Traditional Knowledge | 50 | 10 | 20 | 20 | - | - | - | 100 | 2 | - | - | Grade | Blended | MCQ |

$^\$$Proficiency in course/subject – includes the weightage towards ability/ skill/ competence /knowledge level /expertise attained /attendance etc. in that particular course/subject
#compulsory registration for one online course using SWAYAM/NPTEL/ MOOC, evaluation through attendance, assignments and presentation

| Mode of Teaching | | | | | | Mode of Examination | | | | | Total Credits |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Theory | | | | Lab | NEC | Theory | | | Lab | SIP/ SLP/ NEC | |
| Offline | Online | Blended | | Offline | Interactive | PP | A+O | MCQ | SO | SO | |
| | | Offline | Online | | | | | | | | |
| 17 | 0 | 0 | 0 | 4 | 1 | 17 | 0 | 0 | 2 | 3 | 22 |
| 77.27% | 0 | 0 | 0 | 18.1% | 4.54% | 77.27% | 0% | 0% | 9.09% | 13.63% | Credits % |