

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(Deemed University)

(Declared Under Distinct Category by Ministry of Education, Government of India)

NAAC Accredited with A++ Grade

Scheme of Examination (B.Tech. in Electronics & Telecommunication Engineering)

B.Tech. VII Semester [For batches admitted in Academic Session 2022-23 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 | |
|---|--------------|---------------|---|--|---------------------------------|-----------------------|------------------|----------------|-----------------------|--------------------------|------------|-------------|------------------------|----|---|---------------|------------------|--------------|-----|
| | | | | Theory Slot | | | | Practical Slot | | | MOOCs | | | | | | | | |
| | | | | End Term Evaluation | | Continuous Evaluation | | End Sem. Exam. | Continuous Evaluation | | Assignment | | Exam | | | | | | |
| | | | | End Sem. Exam. | §Proficiency in subject /course | Mid Sem. | Quiz/Assi gnment | | Lab work & Sessional | Skill Based Mini Project | | | | | | | | | |
| 1. | 22007XX | DE | *Departmental Elective(DE-2) | - | - | - | - | - | - | - | 25 | 75 | 100 | 4 | - | - | 4 | Blended | MCQ |
| 2. | 22007XX | DE | *Departmental Elective(DE-3) | - | - | - | - | - | - | - | 25 | 75 | 100 | 4 | - | - | 4 | Blended | MCQ |
| 3. | | OC | #Open Category (OC-2) | 50 | 10 | 20 | 20 | - | - | - | - | - | 100 | 3 | - | - | 3 | Blended | MCQ |
| 4. | 2200704 | DLC | 5G Communication Lab | - | - | - | - | 60 | 20 | 20 | - | - | 100 | - | - | 6 | 3 | Offline | SO |
| 5. | 2200705 | DLC | Creative Problem Solving | - | - | - | - | 25 | 25 | - | - | - | 50 | - | - | 4 | 2 | Offline | SO |
| 6. | 2200703 | DLC | **Professional Skills & Competencies | - | - | - | - | 40 | 60 | - | - | - | 100 | - | - | 4 | 2 | Offline | SO |
| 7. | 2200702 | DLC | Summer Internship Project-III (04 weeks) (Evaluation) | - | - | - | - | 60 | - | - | - | - | 60 | - | - | 4 | 2 | Interactive | SO |
| Total | | | | 50 | 10 | 20 | 20 | 185 | 105 | 20 | 50 | 150 | 610 | 11 | - | 18 | 20 | | |
| 8. | | MAC | Universal Human Values & Professional Ethics (UHVPE) | 50 | 10 | 20 | 20 | - | - | - | - | - | 100 | 2 | - | - | GRADE | Blended | MCQ |
| Additional Course for Honours or minor Specialization | | | | Permitted to opt for maximum two additional courses for the award of Honours or Minor specialization | | | | | | | | | | | | | | | |

* This course must be run through SWAYAM/NPTEL/ MOOC

^{§§}MCQ: Multiple Choice Question

^{§§}AO: Assignment + Oral

^{§§}PP: Pen Paper

^{§§}SO: Submission + Oral

| Mode of Teaching | | | Mode of Examination | | | | Total Credits |
|------------------|---------|-------------|---------------------|----|-----|-----|------------------|
| Offline | Blended | Interactive | PP | AO | MCQ | SO | |
| 7 | 11 | 2 | 0 | 0 | 11 | 9 | 20 |
| 35% | 55% | 10% | 0% | 0% | 55% | 45% | Credits % |

| | | | |
|--|--|---|--|
| Department Electives-2 (DE-2) (MOOCS) (22007XX) | Microwave Engineering (2200754) | Signal Processing for mm Wave Communication for 5G and Beyond (2200755) | Fundamentals of Nano and Quantum Photonics (2200756) |
| Department Electives-3 (DE-3) (MOOCS) (22007XX) | Fiber Optic Communication Technology (2200762) | Pattern Recognition and Applications (2200763) | Simulation of Communication Systems using MATLAB (2200764) |
| Open Course-2 (OC-2) | Embedded System | | |
| Honors | Introduction To Adaptive Signal Processing | VLSI Interconnects | |
| Minors | Design of Photovoltaic Systems | | Microwave Engineering |

Recommended in the BOS Meeting of Department of Electronics and Telecommunications Engineering on 3rd June 2025