

M.Tech ECE (MLSP) Programme w.e.f. 2020-21 Batch

FIRST SEMESTER

| Sl. No. | Course Code | Title | Contact Hours | | | | Credits |
|---------|-------------|---|---------------|---|---|-------|---------|
| | | | L | T | P | Total | |
| 1. | 17M11EC118 | Advanced Digital Signal Processing | 3 | - | - | 3 | 3 |
| 2. | New Course | Introduction to Machine learning | 3 | - | - | 3 | 3 |
| 3. | | DE-I | 3 | - | - | 3 | 3 |
| 4. | | DE-II | 3 | - | - | 3 | 3 |
| 5. | | DE-III | 3 | - | - | 3 | 3 |
| 6. | 18M11GE111 | Research Methodology and Intellectual Property Rights | 2 | | | 2 | 2 |
| 7. | New Course | Advanced Signal Processing Lab (Matlab/Python) | - | | 6 | 6 | 3 |
| | | TOTAL | | | | 23 | 20 |

SECOND SEMESTER

| Sl. No. | Course Code | Title | Contact Hours | | | | Credits |
|---------|-------------|--------------------------------|---------------|---|---|-------|------------|
| | | | L | T | P | Total | |
| 1. | 17M11EC121 | Statistical Signal Processing | 3 | - | - | 3 | 3 |
| 2. | New Course | Deep Learning and Applications | 3 | - | - | 3 | 3 |
| 3. | | DE-IV | 3 | - | - | 3 | 3 |
| 4. | | DE -V | 3 | - | - | 3 | 3 |
| 5. | | Audit-I | 2 | - | - | 2 | Qualifying |
| 6. | 17M11EC120 | Project Based Learning - I | | | | 4 | 2 |
| 7. | New Course | Machine Learning Lab(Python) | - | - | 6 | 6 | 3 |
| | | TOTAL | | | | 24 | 17 |

THIRD SEMESTER

| Sl. No. | Course Code | Title | Contact Hours | | | | Credits |
|---------|--|--|---------------|---|---|-------|------------|
| | | | L | T | P | Total | |
| | | Open Electives | 3 | | | 3 | 3 |
| 1. | 17M17EC218 | Seminar & Term Paper OR Earn credits by transfer eg. MOOCs, Course Work at another Institute, Supervised Study | | | | 4 | 4 |
| 2 | 17M15EC114 | Project Based Learning - II | | | | 8 | 4 |
| 3. | 17M17EC219/ 17M17EC220/ 17M17EC221 | Dissertation /Industrial Project / Entrepreneurial Project | | | | 8 | 4 |
| | | Audit-II | 2 | | | 2 | Qualifying |
| | | TOTAL | | | | 25 | 15 |

FOURTH SEMESTER

| Sl. No. | | Title | Contact Hours | | | Credits | |
|---------|--|--|---------------|---|---|---------|-------|
| | | | L | T | P | | Total |
| 1. | 17M17EC222/ 17M17EC223/ 17M17EC224 | Dissertation /Industrial Project/ Entrepreneurial Project | | | | 32 | 16 |
| | | TOTAL | | | | 32 | 16 |

TOTAL CREDITS:68

Courses for Audit-I and II:

1. English for Research Paper Writing
2. Disaster Management
3. Sanskrit for Technical Knowledge
4. Value Education
5. Constitution of India
6. Pedagogy Studies
7. Stress Management by Yoga
8. Personality Development through life enlightenment skills

Subjects for Open Electives:

1. Business Analytics
2. Industrial Safety
3. Operations Research
4. Cost Management of Engineering Projects
5. Composite Materials
6. Waste to Energy

Electives

1. Soft Computing
2. Digital Image and Video Processing
3. Hybrid intelligent systems
4. DSP Architecture
5. Pattern Classification
6. Deep learning for Natural language processing
7. Biomedical Signal Processing
8. Speech and Audio Signal Processing