

RAJASTHAN TECHNICAL UNIVERSITY

**M.Tech. (Digital Communication)
Teaching & Examination Scheme (Full Time) w.e.f. 2008-09**

Semester : I

| Course Code | Course | Hrs. / Week | | | Marks | | |
|---------------------------|------------------------------|-------------|---|---|-------|------|------------|
| | | L | T | P | IA* | Exam | Total |
| Compulsory Courses | | | | | | | |
| 1MDC1 | Signal Theory | 3 | 1 | | 25 | 100 | 125 |
| 1MDC2 | Digital Communication System | 3 | 1 | | 25 | 100 | 125 |
| 1MDC3 | Satellite Communication | 3 | 1 | | 25 | 100 | 125 |
| Elective I | | | | | | | |
| 1MDC4.1 | High Frequency Electronics | 3 | 1 | | 25 | 100 | 125 |
| 1MDC4.2 | Optimization Techniques | 3 | 1 | | 25 | 100 | 125 |
| 1MDC4.3 | Biomedical Electronics | 3 | 1 | | 25 | 100 | 125 |
| 1MDC5 | Communication System Lab | | | 3 | 60 | 40 | 100 |
| TOTAL | | | | | | | 600 |

Semester : II

| Course Code | Course | Hrs. / Week | | | Marks | | |
|---------------------------|--------------------------------|-------------|---|---|-------|------|------------|
| | | L | T | P | IA* | Exam | Total |
| Compulsory Courses | | | | | | | |
| 2MDC1 | Digital Signal Processing | 3 | 1 | | 25 | 100 | 125 |
| 2MDC2 | Information Theory & Coding | 3 | 1 | | 25 | 100 | 125 |
| 2MDC3 | Advanced Optical Communication | 3 | 1 | | 25 | 100 | 125 |
| Elective II | | | | | | | |
| 2MDC4.1 | Detection & Estimation Theory | 3 | 1 | | 25 | 100 | 125 |
| 2MDC4.2 | Adaptive Signal Processing | 3 | 1 | | 25 | 100 | 125 |
| 2MDC4.3 | Antenna Theory & Techniques | 3 | 1 | | 25 | 100 | 125 |
| 2MDC5 | Modeling & Simulation Lab | | | 3 | 60 | 40 | 100 |
| TOTAL | | | | | | | 600 |

* I.A. – Internal Assessment

M.Tech. (Digital Communication)
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Semester : III

| Course Code | Course | Hrs. / Week | | | Marks | | |
|-------------|----------------------------------------|-------------|---|---|-------|------|------------|
| | | L | T | P | IA* | Exam | Total |
| | Compulsory Course | | | | | | |
| 3MDC1 | Mobile Communication | 3 | 1 | | 25 | 100 | 125 |
| | Elective III | | | | | | |
| 3MDC2.1 | Telecommunication Switching & Networks | 3 | 1 | | 25 | 100 | 125 |
| 3MDC2.2 | Digital Image Processing | 3 | 1 | | 25 | 100 | 125 |
| 3MDC2.3 | Micro-Electro-Mechanical-Systems | 3 | 1 | | 25 | 100 | 125 |
| 3MDC4 | Dissertation (Stage-I) | | | | 100 | - | 100 |
| 3MDC5 | Seminar | | | 3 | 90 | 60 | 150 |
| | TOTAL | | | | | | 500 |

Semester : IV

| Course Code | Courses | Hrs. / Week | | | Marks | | |
|-------------|---------------------------|-------------|---|---|-------|------|-------------|
| | | L | T | P | IA* | Exam | Total |
| 4MDC1 | Dissertation (Stage-II) | | | | - | 500 | 500 |
| | TOTAL | | | | | | 500 |
| | GRAND TOTAL | | | | | | 2200 |

* I.A. – Internal Assessment