

GITAM UNIVERSITY

(Declared as Deemed to be University U/S 3 of UGC Act, 1956)



Scheme of Instruction
of
M.Tech.
(RF & Microwave Engineering)
(w.e.f 2008 -09 admitted batch)

Gandhi Nagar Campus, Rushikonda
VISAKHAPATNAM - 530 045
Website: www.gitam.edu

M.Tech. (RF & Microwave Engineering)
Programme Code: EPRRM 200800

I Semester

| Course Code | Name of the Course | Credits | Hours per Week | Continuous Evaluation | Semester End Examination | Total Marks |
|--|---|----------------|-----------------------|------------------------------|---------------------------------|--------------------|
| EPRRM101 | Microwave Devices & Integrated circuits | 4 | 4L | 40 | 60 | 100 |
| EPRRM102 | Microwave Networks & Measurements | 4 | 4L | 40 | 60 | 100 |
| EPRRM103 | R.F Components and Circuit Design | 4 | 4L | 40 | 60 | 100 |
| EPRRM104 | Modern Radar Systems | 4 | 4L | 40 | 60 | 100 |
| EPRRM121 EPRRM122 EPRRM123 EPRRM124 | Elective-I | 4 | 4L | 40 | 60 | 100 |
| EPRRM111 | Technical Seminar I | 2 | 2L | 100 | - | 100 |
| EPRRM112 | Microwave Measurements Laboratory | 2 | 3P | 100 | - | 100 |
| | Total | 24 | 25 | 400 | 300 | 700 |

Elective-1

- EPRRM121 : Advanced Microprocessor & Microcontrollers
EPRRM122 : Modern Satellite Communications
EPRRM123 : Electromagnetic Interference and Compatibility
EPRRM124 : Fiber Optic Communication.

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II semester

| Course Code | Name of the Course | Credits | Hours per Week | Continuous Evaluation | Semester End Examination | Total Marks |
|--|------------------------------------|---------|----------------|-----------------------|--------------------------|-------------|
| EPRRM201 | RF and Microwave Antennas | 4 | 4L | 40 | 60 | 100 |
| EPRRM202 | Microwave Communication Systems | 4 | 4L | 40 | 60 | 100 |
| EPRRM203 | Advanced Digital signal Processing | 4 | 4L | 40 | 60 | 100 |
| EPRRM231 EPRRM232 EPRRM233 EPRRM234 EPRRM235 | Elective –II | 4 | 4L | 40 | 60 | 100 |
| EPRRM241 EPRRM242 EPRRM243 EPRRM244 | Elective –III | 4 | 4L | 40 | 60 | 100 |
| EPRRM211 | Technical Seminar-II | 2 | 2L | 100 | -- | 100 |
| EPRRM212 | Antennas laboratory | 2 | 3P | 100 | - | 100 |
| EPRRM213 | Comprehensive Viva Voce | 2 | -- | - | 100 | 100 |
| | Total | 26 | 25 | 400 | 400 | 800 |

Elective-II

- EPRRM231: Numerical Methods in Electromagnetics
EPRRM232: Global Positioning Systems
EPRRM233: Phased Array Radar
EPRRM234: VLSI System Design
EPRRM235: Operating Systems

Elective-III

- EPRRM241: Wireless Communications and Networks
EPRRM242: Embedded Systems
EPRRM243: Digital Image Processing
EPRRM244: Radar Signal Processing

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III Semester

| Course Code | Name of the Course | Credits | Continuous Evaluation | Semester End Examination | Total Marks |
|-------------|--------------------|---------|-----------------------|--------------------------|-------------|
| EPRRM311 | Project Work | 8 | 50 | 50 | 100 |
| | Total | 8 | 50 | 50 | 100 |

IV Semester

| Course Code | Name of the Course | Credits | Continuous Evaluation | Semester End Examination | Total Marks |
|-------------|--------------------|---------|-----------------------|--------------------------|-------------|
| EPRRM411 | Project work | 16 | 50 | 50 | 100 |
| | Total | 16 | 50 | 50 | 100 |

Total Credits 74