

I M. Tech. (Microelectronics & VLSI Design)**Semester-I**

| S. No. | Sub. Code | Subject | L | T | P | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------------|----------------|---|-----------|----------|----------|------------|------------|---------------|------------|-----------|------------|------------|
| | | | | | | | | TH | CW | SW | Pr. | Total |
| 1 | EI69002 | Design of Integrated Circuits | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 2 | EI69003 | Microelectronics | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 3 | EI69004 | VLSI Technology | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 4 | EI69005 | Semiconductor Device and Process Modeling | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 5 | Elective I | | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 6 | EI69451 | Lab.- I : CAD Tool Design 1 | - | - | 4 | - | 4 | - | - | 40 | 60 | 100 |
| 7 | EI69452 | Lab.- II : CAD Tool Design 2 | - | - | 4 | - | 4 | - | - | 40 | 60 | 100 |
| 8 | EI69500 | Comprehensive Viva | - | - | - | - | - | - | - | - | Grade | Grade |
| Total | | | 20 | 0 | 8 | 20 | 8 | 350 | 150 | 80 | 120 | 700 |

Semester-II

| S. No. | Sub. Code | Subject | L | T | P | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------------|----------------|-------------------------------|-----------|----------|-----------|------------|------------|---------------|------------|------------|------------|------------|
| | | | | | | | | TH | CW | SW | Pr. | Total |
| 1 | EI69501 | Communication RF IC Design | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 2 | EI69502 | Mixed Signal Circuit Design | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 3 | EI69503 | VLSI Test and Testability | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 4 | EE69505 | Digital Signal Processing | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 5 | Elective II | | 4 | - | - | 4 | - | 70 | 30 | - | - | 100 |
| 6 | EI69851 | Lab.- III : VLSI Design Lab.1 | - | - | 4 | - | 4 | - | - | 40 | 60 | 100 |
| 7 | EI69852 | Lab.- IV : VLSI Design Lab.2 | - | - | 4 | - | 4 | - | - | 40 | 60 | 100 |
| 8 | EI69881 | Seminar | - | - | 2 | - | 2 | - | - | 100 | - | 100 |
| 9 | EI69900 | Comprehensive Viva | - | - | - | - | - | - | - | - | Grade | Grade |
| Total | | | 20 | 0 | 10 | 20 | 10 | 350 | 150 | 180 | 120 | 800 |

I M.Tech (Microelectronics & VLSI Design)**List of Elective**

| Elective I | | | Semester I | | | Elective II | | | Semester II | | |
|------------|----------------|--|------------|--|----------------|------------------------------------|--|--|-------------|--|--|
| S.No | Sub. Code | Subject | S.No | | Sub. Code | Subject | | | | | |
| 1 | EI69201 | Application Specific Integrated Circuits | 1 | | EI69701 | Image Processing | | | | | |
| 2 | EI69202 | High Power Semiconductor Devices | 2 | | EI69702 | Microwave Integrated Circuits | | | | | |
| 3 | EI69203 | System Hardware Design | 3 | | EI69703 | Optoelectronic Integrated Circuits | | | | | |
| 4 | EI69204 | Hardware Description Language | 4 | | EI69704 | Low Power VLSI Design | | | | | |

II M.Tech (Microelectronics & VLSI Design)**Semester-III**

| S. No. | Sub. Code | Subject | L | T | P | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------------|------------------|----------------------|----------|----------|-----------|------------|------------|---------------|----------|------------|------------|------------|
| | | | | | | | | TH | CW | SW | Pr. | Total |
| 1 | EI 6962/EI 69901 | Dissertation Phase-I | - | - | 20 | - | 20 | - | - | 100 | 150 | 250 |
| Total | | | 0 | 0 | 20 | 0 | 20 | 0 | 0 | 100 | 150 | 250 |

Semester-IV (Admitted before 2012)

| S. No. | Sub. Code | Subject | L | T | P | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|-----------|-----------------------|---|---|----|------------|------------|---------------|----|-----|-----|-------|
| | | | | | | | | TH | CW | SW | Pr. | Total |
| 1 | EI 6994 | Dissertation Phase-II | - | - | 30 | - | 30 | - | - | 160 | 240 | 400 |
| Total | | | 0 | 0 | 30 | 0 | 30 | 0 | 0 | 160 | 240 | 400 |

Semester-IV (Admitted after & In 2012)

| S. No. | Sub. Code | Subject | L | T | P | Th. Credit | Pr. Credit | Maximum Marks | | | | |
|--------|-----------|-----------------------|---|---|----|------------|------------|---------------|----|-----|-----|-------|
| | | | | | | | | TH | CW | SW | Pr. | Total |
| 1 | EI 6996 | Dissertation Phase-II | - | - | 22 | - | 22 | - | - | 160 | 240 | 400 |
| Total | | | 0 | 0 | 22 | 0 | 22 | 0 | 0 | 160 | 240 | 400 |