

**AFFILIATED INSTITUTIONS
ANNA UNIVERSITY, CHENNAI
REGULATIONS – 2013
M.E. COMMUNICATION SYSTEMS
I TO VI SEMESTERS CURRICULUM (PART - TIME)**

SEMESTER I

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|------------------|-------------|---|----------|----------|----------|-----------|
| THEORY | | | | | | |
| 1. | MA7158 | Applied Mathematics for Communication Engineers | 3 | 1 | 0 | 4 |
| 2. | CU7102 | Advanced Digital Communication Techniques | 3 | 0 | 0 | 3 |
| 3. | CU7103 | Optical Networks | 3 | 0 | 0 | 3 |
| PRACTICAL | | | | | | |
| 4. | CU7111 | Communication Systems Laboratory | 0 | 0 | 3 | 2 |
| TOTAL | | | 9 | 1 | 3 | 12 |

SEMESTER II

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|------------------|-------------|--|----------|----------|----------|-----------|
| THEORY | | | | | | |
| 1. | CU7201 | Wireless Communication Networks | 3 | 0 | 0 | 3 |
| 2. | AP7301 | Electromagnetic Interference and Compatibility | 3 | 0 | 0 | 3 |
| 3. | CU7202 | MIC and RF System Design | 3 | 0 | 0 | 3 |
| PRACTICAL | | | | | | |
| 4. | CU7211 | Innovative System Design Laboratory | 0 | 0 | 3 | 2 |
| TOTAL | | | 9 | 0 | 3 | 11 |

SEMESTER III

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|---------------|-------------|------------------------------------|----------|----------|----------|-----------|
| THEORY | | | | | | |
| 1. | CU7101 | Advanced Radiation Systems | 3 | 0 | 0 | 3 |
| 2. | AP7101 | Advanced Digital Signal Processing | 3 | 1 | 0 | 4 |
| 3. | E1 | Elective I | 3 | 0 | 0 | 3 |
| TOTAL | | | 9 | 1 | 0 | 10 |

SEMESTER IV

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|---------------|-------------|--------------|----------|----------|----------|----------|
| THEORY | | | | | | |
| 1. | E2 | Elective II | 3 | 0 | 0 | 3 |
| 2. | E3 | Elective III | 3 | 0 | 0 | 3 |
| 3. | E4 | Elective IV | 3 | 0 | 0 | 3 |
| TOTAL | | | 9 | 0 | 0 | 9 |

SEMESTER V

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|------------------|-------------|----------------------------------|----------|----------|-----------|-----------|
| THEORY | | | | | | |
| 1. | CU7301 | Advanced Satellite Based Systems | 3 | 0 | 0 | 3 |
| 2. | E5 | Elective V | 3 | 0 | 0 | 3 |
| 3. | E6 | Elective VI | 3 | 0 | 0 | 3 |
| PRACTICAL | | | | | | |
| 4. | CU7311 | Project Work (Phase I) | 0 | 0 | 12 | 6 |
| TOTAL | | | 9 | 0 | 12 | 15 |

SEMESTER VI

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|------------------|-------------|-------------------------|----------|----------|-----------|-----------|
| PRACTICAL | | | | | | |
| 1. | CU7411 | Project Work (Phase II) | 0 | 0 | 24 | 12 |
| TOTAL | | | 0 | 0 | 24 | 12 |

TOTAL NO OF CREDITS:69**LIST OF ELECTIVES****ELECTIVE I**

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|--------|-------------|---|---|---|---|---|
| 1. | AP7103 | Advanced Microprocessor and Microcontroller | 3 | 0 | 0 | 3 |
| 2. | VL7001 | Analog and Mixed mode VLSI Design | 3 | 0 | 0 | 3 |
| 3. | CU7001 | Real Time Embedded Systems | 3 | 0 | 0 | 3 |
| 4. | CU7002 | MEMS and NEMS | 3 | 0 | 0 | 3 |
| 5. | AP7202 | ASIC and FPGA Design | 3 | 0 | 0 | 3 |

ELECTIVE II

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|--------|-------------|---|---|---|---|---|
| 1. | NC7102 | Communication Network Modeling and Simulation | 3 | 0 | 0 | 3 |
| 2. | CU7003 | Digital Communication Receivers | 3 | 0 | 0 | 3 |
| 3. | CU7004 | Detection and Estimation Theory | 3 | 0 | 0 | 3 |
| 4. | VL7013 | VLSI for Wireless Communication | 3 | 0 | 0 | 3 |
| 5. | CU7005 | Cognitive Radio | 3 | 0 | 0 | 3 |

ELECTIVE III

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|---------------|--------------------|------------------------------------|----------|----------|----------|----------|
| 1. | DS7071 | Speech and Audio Signal processing | 3 | 0 | 0 | 3 |
| 2. | DS7201 | Advanced Digital Image Processing | 3 | 0 | 0 | 3 |
| 3. | DS7202 | Radar Signal Processing | 3 | 0 | 0 | 3 |
| 4. | CP7008 | Speech Processing and Synthesis | 3 | 0 | 0 | 3 |

ELECTIVE IV

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|---------------|--------------------|--|----------|----------|----------|----------|
| 1. | CU7006 | Wavelet Transforms and Applications | 3 | 0 | 0 | 3 |
| 2. | DS7101 | DSP Processor Architecture and Programming | 3 | 0 | 0 | 3 |
| 3. | NC7101 | High Performance Networks | 3 | 0 | 0 | 3 |
| 4. | CP7023 | Reconfigurable Computing | 3 | 0 | 0 | 3 |

ELECTIVE V

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|---------------|--------------------|------------------------------------|----------|----------|----------|----------|
| 1. | NC7001 | Network Routing Algorithms | 3 | 0 | 0 | 3 |
| 2. | NC7202 | Wireless Adhoc and Sensor Networks | 3 | 0 | 0 | 3 |
| 3. | CU7007 | Internetworking Multimedia | 3 | 0 | 0 | 3 |
| 4. | NC7002 | Multimedia Compression Techniques | 3 | 0 | 0 | 3 |
| 5. | CU7008 | Ultra Wide Band Communication | 3 | 0 | 0 | 3 |

ELECTIVE VI

| SL. NO | COURSE CODE | COURSE TITLE | L | T | P | C |
|---------------|--------------------|---------------------------------|----------|----------|----------|----------|
| 1. | IF7301 | Soft Computing | 3 | 0 | 0 | 3 |
| 2. | NC7003 | Network Processor | 3 | 0 | 0 | 3 |
| 3. | NE7007 | Network Management | 3 | 0 | 0 | 3 |
| 4. | NC7201 | Communication Network Security | 3 | 0 | 0 | 3 |
| 5. | CU7009 | Neural Network and Applications | 3 | 0 | 0 | 3 |