



PSN COLLEGE OF ENGINEERING AND TECHNOLOGY

Melathediyoor, Tirunelveli

(Approved by AICTE and Recognized by UGC Section 2 (f)

An ISO 9001:2008 Certified Institution

(Accredited by NBA and NAAC, Affiliated to Anna University, Chennai)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REGULATIONS-2014

UG (FULL TIME)

CURRICULUM III-VIII

B.E

(ELECTRONICS AND COMMUNICATION ENGINEERING)



PSN College of Engineering and Technology

(An Autonomous Institution)

Melathediyoore-627152.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

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SEMESTER III REGULATION-2014

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|------------------|----------|--|-----------|----------|----------|-----------|
| THEORY | | | | | | |
| 1 | 201001 | Applied Mathematics II | 4 | 0 | 0 | 4 |
| 2 | 205001 | Devices and circuit Analysis | 3 | 0 | 0 | 3 |
| 3 | 203002 | Data Structures and Oops | 3 | 0 | 0 | 3 |
| 4 | 205002 | Electrical Machines and Control system | 3 | 0 | 0 | 3 |
| 5 | 205003 | Electronic circuits-I | 3 | 0 | 0 | 3 |
| 6 | 205004 | Digital Electronics | 3 | 0 | 0 | 3 |
| MANDATORY | | | | | | |
| | 201801 | Environmental Studies* | | | | |
| PRACTICAL | | | | | | |
| 7 | 203101 | Data Structures and Oops Lab | 0 | 0 | 3 | 2 |
| 8 | 205101 | Devices and circuits Lab | 0 | 0 | 3 | 2 |
| 9 | 205102 | Electrical Machines and Control system Lab | 0 | 0 | 3 | 2 |
| TOTAL | | | 19 | 0 | 9 | 25 |

SEMESTER IV

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|------------------|----------|--|-----------|----------|----------|-----------|
| THEORY | | | | | | |
| 1 | | Applied mathematics- III | 4 | 0 | 0 | 4 |
| 2 | | Signals and Systems | 3 | 1 | 0 | 4 |
| 3 | | Linear Integrated circuits | 3 | 0 | 0 | 3 |
| 4 | | Transmission Lines and Wave Guides | 3 | 1 | 0 | 4 |
| 5 | | Electro Magnetic Field Theory | 3 | 1 | 0 | 4 |
| 6 | | Electronic circuits-II | 3 | 1 | 0 | 4 |
| PRACTICAL | | | | | | |
| 7 | | Digital and Linear Integrated circuits Lab | 0 | 0 | 3 | 2 |
| 8 | | Electronic Circuits and Simulation Lab | 0 | 0 | 3 | 2 |
| TOTAL | | | 19 | 4 | 6 | 27 |

SEMESTER V

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|---|----------|--|-----------|----------|----------|-----------|
| THEORY | | | | | | |
| 1 | | Probability and Random Processes | 4 | 0 | 0 | 4 |
| 2 | | Microprocessors and Microcontrollers | 3 | 0 | 0 | 3 |
| 3 | | Analog Communication system | 3 | 0 | 0 | 3 |
| 4 | | Digital Signal Processing | 3 | 1 | 0 | 4 |
| 5 | | Antenna and Wave Propagation(practical components) | 3 | 0 | 2 | 4 |
| 6 | | Open Elective-I | 4 | 0 | 0 | 4 |
| MANDATORY | | | | | | |
| Value education, Human rights and legislative procedures. | | | | | | |
| PRACTICAL | | | | | | |
| 7 | | Microprocessors and Microcontrollers Lab | 0 | 0 | 3 | 2 |
| 8 | | Analog Communication and signal processing Lab | 0 | 0 | 3 | 2 |
| TOTAL | | | 20 | 1 | 8 | 26 |

SEMESTER VI

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|------------------|----------|--|-----------|----------|----------|-----------|
| THEORY | | | | | | |
| 1 | | Digital image processing | 3 | 0 | 0 | 3 |
| 2 | | Digital Communication | 3 | 1 | 0 | 4 |
| 3 | | VLSI Design | 3 | 1 | 0 | 4 |
| 4 | | Computer and communication Networks | 3 | 0 | 0 | 3 |
| 5 | | Wireless communication | 3 | 0 | 0 | 3 |
| 6 | | Open Elective-II | 4 | 0 | 0 | 4 |
| PRACTICAL | | | | | | |
| 7 | | Digital communication and Networks Lab | 0 | 0 | 3 | 2 |
| 8 | | VLSI Design Lab | 0 | 0 | 3 | 2 |
| TOTAL | | | 19 | 2 | 6 | 25 |

SEMESTER VII

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|---------------------------------------|----------|-----------------------------------|-----------|----------|----------|-----------|
| THEORY | | | | | | |
| 1 | | Microwave and radar engineering | 3 | 1 | 0 | 4 |
| 2 | | Fiber optic communication | 3 | 0 | 0 | 3 |
| 3 | | Embedded and Real time System. | 3 | 0 | 0 | 3 |
| 4 | | Cellular and mobile communication | 3 | 0 | 0 | 3 |
| 5 | | Elective I | 3 | 0 | 0 | 3 |
| 6 | | Elective II | 3 | 0 | 0 | 3 |
| MANDATORY | | | | | | |
| Technical communication & soft skills | | | | | | |
| PRACTICAL | | | | | | |
| 7 | | Optical and microwave lab | 0 | 0 | 3 | 2 |
| 8 | | Embedded system design Lab | 0 | 0 | 3 | 2 |
| TOTAL | | | 18 | 0 | 6 | 23 |

SEMESTER VIII

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|------------------|----------|--------------|----------|----------|-----------|-----------|
| THEORY | | | | | | |
| 1 | | Elective III | 3 | 0 | 0 | 3 |
| 2 | | Elective IV | 3 | 0 | 0 | 3 |
| PRACTICAL | | | | | | |
| 3 | | Project work | 0 | 0 | 12 | 6 |
| TOTAL | | | 6 | 0 | 12 | 12 |

LIST OF ELECTIVES #-SEMESTER VII - Elective I

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|---------------|----------|--|---|---|---|---|
| THEORY | | | | | | |
| 1 | | Television Engineering | 3 | 0 | 0 | 3 |
| 2 | | Medical Electronics | 3 | 0 | 0 | 3 |
| 3 | | Multimedia Compression and Communication | 3 | 0 | 0 | 3 |
| 4 | | Electromagnetic Interference and Compatibility | 3 | 0 | 0 | 3 |
| 5 | | ASIC Design | 3 | 0 | 0 | 3 |
| 6 | | Statistical Theory of Communication | 3 | 0 | 0 | 3 |

LIST OF ELECTIVES
#-SEMESTER VII - Elective II

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|---------------|----------|--|---|---|---|---|
| THEORY | | | | | | |
| 1 | | Advanced Microprocessors and Micro Controllers | 3 | 0 | 0 | 3 |
| 2 | | Advanced VLSI Design | 3 | 0 | 0 | 3 |
| 3 | | Advanced Control Theory | 3 | 0 | 0 | 3 |
| 4 | | Opto Electronic Devices | 3 | 0 | 0 | 3 |
| 5 | | Advanced Semiconductor Devices. | 3 | 0 | 0 | 3 |
| 6 | | Advanced Electronic System Design | 3 | 0 | 0 | 3 |

LIST OF ELECTIVES
#-SEMESTER VIII - Elective III

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|---------------|----------|------------------------------------|---|---|---|---|
| THEORY | | | | | | |
| 1 | | Mobile Ad-hoc Networks | 3 | 0 | 0 | 3 |
| 2 | | Wireless Sensor Networks | 3 | 0 | 0 | 3 |
| 3 | | Wireless Networks | 3 | 0 | 0 | 3 |
| 4 | | Global Navigation Satellite System | 3 | 0 | 0 | 3 |
| 5 | | Cognitive Radio | 3 | 0 | 0 | 3 |
| 6 | | Satellite Communication | 3 | 0 | 0 | 3 |

LIST OF ELECTIVES
#-SEMESTER VIII - Elective IV

| S.N O | SUB CODE | SUBJECT NAME | L | T | P | C |
|---------------|-------------|--|---|---|---|---|
| THEORY | | | | | | |
| 1 | | Fundamentals of MEMS | 3 | 0 | 0 | 3 |
| 2 | | Fundamentals of NANO Technology | 3 | 0 | 0 | 3 |
| 3 | | Fundamentals of Semiconductor Chip Testing | 3 | 0 | 0 | 3 |
| 4 | | Fuzzy Logic Control | 3 | 0 | 0 | 3 |
| 5 | | Robotics and Automation | 3 | 0 | 0 | 3 |
| 6 | | Total Quality Management | 3 | 0 | 0 | 3 |

LIST OF OPEN ELECTIVES
#-SEMESTER V&VI

| S.NO | SUB CODE | SUBJECT NAME | L | T | P | C |
|---------------|---------------------|-----------------------------------|----------|----------|----------|----------|
| THEORY | | | | | | |
| 1 | | Fuzzy Logic Control | 4 | 0 | 0 | 4 |
| 2 | | Consumer Electronics | 4 | 0 | 0 | 4 |
| 3 | | Cellular and Mobile communication | 4 | 0 | 0 | 4 |