

PRATHYUSHA ENGINEERING COLLEGE
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR 2015-16

LIST OF COURSES

| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
|----------|---------|-------------|------------------------------------------------------|----|---|----|----|
| I | 1. | HS6151 | Technical English – I | 3 | 1 | 0 | 4 |
| I | 2. | MA6151 | Mathematics – I | 3 | 1 | 0 | 4 |
| I | 3. | PH6151 | Engineering Physics – I | 3 | 0 | 0 | 3 |
| I | 4. | CY6151 | Engineering Chemistry – I | 3 | 0 | 0 | 3 |
| I | 5. | GE6151 | Computer Programming | 3 | 0 | 0 | 3 |
| I | 6. | GE6152 | Engineering Graphics | 2 | 0 | 3 | 4 |
| I | 7. | GE6161 | Computer Practices Laboratory | 0 | 0 | 3 | 2 |
| I | 8. | GE6162 | Engineering Practices Laboratory | 0 | 0 | 3 | 2 |
| I | 9. | GE6163 | Physics and Chemistry Laboratory - I | 0 | 0 | 2 | 1 |
| TOTAL | | | | 17 | 2 | 11 | 26 |
| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
| II | 1. | HS6251 | Technical English – II | 3 | 1 | 0 | 4 |
| II | 2. | MA6251 | Mathematics – II | 3 | 1 | 0 | 4 |
| II | 3. | PH6251 | Engineering Physics – II | 3 | 0 | 0 | 3 |
| II | 4. | CY6251 | Engineering Chemistry – II | 3 | 0 | 0 | 3 |
| II | 5. | EC6201 | Electronic Devices | 3 | 0 | 0 | 3 |
| II | 6. | EE6201 | Circuit Theory | 3 | 1 | 0 | 4 |
| II | 7. | GE6262 | Physics and Chemistry Laboratory - II | 0 | 0 | 2 | 1 |
| II | 8. | EC6211 | Circuits and Devices Laboratory | 0 | 0 | 3 | 2 |
| TOTAL | | | | 18 | 3 | 5 | 24 |
| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
| III | 1. | MA6351 | Transforms and Partial Differential Equations | 3 | 1 | 0 | 4 |
| III | 2. | EE6352 | Electrical Engineering and Instrumentation | 3 | 1 | 0 | 4 |
| III | 3. | EC6301 | Object Oriented Programming and Data Structures | 3 | 0 | 0 | 3 |
| III | 4. | EC6302 | Digital Electronics | 3 | 0 | 0 | 3 |
| III | 5. | EC6303 | Signals and Systems | 3 | 1 | 0 | 4 |
| III | 6. | EC6304 | Electronic Circuits- I | 3 | 1 | 0 | 4 |
| III | 7. | EC6311 | Analog and Digital Circuits Laboratory | 0 | 0 | 3 | 2 |
| III | 8. | EC6312 | OOPS and Data Structures Laboratory | 0 | 0 | 3 | 2 |
| TOTAL | | | | 18 | 4 | 6 | 26 |
| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
| IV | 1. | MA6451 | Probability and Random Processes | 3 | 1 | 0 | 4 |
| IV | 2. | EC6401 | Electronic Circuits II | 3 | 0 | 0 | 3 |
| IV | 3. | EC6402 | Communication Theory | 3 | 0 | 0 | 3 |
| IV | 4. | EC6403 | Electromagnetic Fields | 3 | 1 | 0 | 4 |
| IV | 5. | EC6404 | Linear Integrated Circuits | 3 | 0 | 0 | 3 |
| IV | 6. | EC6405 | Control System Engineering | 3 | 0 | 0 | 3 |
| IV | 7. | EC6411 | Circuit and Simulation Integrated Laboratory | 0 | 0 | 3 | 2 |
| IV | 8. | EC6412 | Linear Integrated Circuit Laboratory | 0 | 0 | 3 | 2 |
| IV | 9. | EE6461 | Electrical Engineering and Control System Laboratory | 0 | 0 | 3 | 2 |
| TOTAL | | | | 18 | 2 | 9 | 26 |
| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
| V | 1. | EC6501 | Digital Communication | 3 | 0 | 0 | 3 |
| V | 2. | EC6502 | Principles of Digital Signal Processing | 3 | 1 | 0 | 4 |
| V | 3. | EC6503 | Transmission Lines and Wave Guides | 3 | 1 | 0 | 4 |
| V | 4. | GE6351 | Environmental Science and Engineering | 3 | 0 | 0 | 3 |
| V | 5. | EC6504 | Microprocessor and Microcontroller | 3 | 0 | 0 | 3 |
| V | 6. | EC6511 | Digital Signal Processing Laboratory | 0 | 0 | 3 | 2 |
| V | 7. | EC6512 | Communication System Laboratory | 0 | 0 | 3 | 2 |
| V | 8. | EC6513 | Microprocessor and Microcontroller Laboratory | 0 | 0 | 3 | 2 |
| TOTAL | | | | 15 | 2 | 9 | 23 |

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| SEMESTER | SL. No. | COURSE CODE | | L | T | P | C |
|----------|---------|-------------|--------------------------------------------------|---|---|---|---|
| VI | 1 | MG6851 | Principles of Management | 3 | 0 | 0 | 3 |
| VI | 2 | CS6303 | Computer Architecture | 3 | 0 | 0 | 3 |
| VI | 3 | CS6551 | Computer Networks | 3 | 0 | 0 | 3 |
| VI | 4 | EC6601 | VLSI Design | 3 | 0 | 0 | 3 |
| VI | 5 | EC6602 | Antenna and Wave propagation | 3 | 0 | 0 | 3 |
| VI | 6 | EC6001 | Medical Electronics | 3 | 0 | 0 | 3 |
| VI | 7 | EC6611 | Computer Networks Laboratory | 0 | 0 | 3 | 2 |
| VI | 8 | EC6612 | VLSI Design Laboratory | 0 | 0 | 3 | 2 |
| VI | 9 | GE6674 | Communication and Soft Skills - Laboratory Based | 0 | 0 | 4 | 2 |

| SEMESTER | SL. No. | CODE NO. | COURSE TITLE | TOTAL L | TOTAL T | TOTAL P | TOTAL C |
|--------------|---------|----------|------------------------------------------------|-----------|----------|-----------|-----------|
| TOTAL | | | | 18 | 0 | 10 | 24 |
| VII | 1 | EC2401 | Wireless Communication | 3 | 0 | 0 | 3 |
| VII | 2 | EC2402 | Optical Communication and Networks | 3 | 0 | 0 | 3 |
| VII | 3 | EC2403 | RF and Microwave Engineering | 3 | 0 | 0 | 3 |
| VII | 4 | GE2022 | Total Quality Management | 3 | 0 | 0 | 3 |
| VII | 5 | CS2060 | High Speed Networks | 3 | 0 | 0 | 3 |
| VII | 6 | EC2031 | Electromagnetic Interference and Compatibility | 3 | 0 | 0 | 3 |
| VII | 7 | EC2404 | Electronics System Design Lab | 0 | 0 | 3 | 2 |
| VII | 8 | EC2405 | Optical & Microwave Lab | 0 | 0 | 3 | 2 |

| SEMESTER | SL. No. | CODE NO. | COURSE TITLE | TOTAL L | TOTAL T | TOTAL P | TOTAL C |
|--------------|---------|----------|--------------------------|-----------|----------|-----------|-----------|
| TOTAL | | | | 18 | 0 | 6 | 22 |
| VIII | 1 | EC2051 | Wireless Sensor Networks | 3 | 0 | 0 | 3 |
| VIII | 2 | EC20145 | Satellite Communication | 3 | 0 | 0 | 3 |
| VIII | 3 | EC2451 | Project Work | 0 | 0 | 12 | 6 |
| TOTAL | | | | 6 | 0 | 12 | 12 |

HEAD OF THE DEPARTMENT

PRINCIPAL

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