



PRATHYUSHA ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2018-19
LIST OF COURSES

| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C | Category | |
|--------------|---------|-------------|--|-----------|----------|-----------|-----------|----------|--|
| I | 1. | HS8151 | Communicative English | 4 | 0 | 0 | 4 | HS | |
| I | 2. | MA8151 | Engineering Maths I | 4 | 0 | 0 | 4 | BS | |
| I | 3. | PH8151 | Engineering Physics | 3 | 0 | 0 | 3 | BS | |
| I | 4. | CY8151 | Engineering Chemistry | 3 | 0 | 0 | 3 | BS | |
| I | 5. | GE8151 | Problem Solving and Python Programming | 3 | 0 | 0 | 3 | ES | |
| I | 6. | GE8152 | Engineering Graphics | 2 | 0 | 4 | 4 | ES | |
| I | 7. | GE8161 | Problem Solving and Python Programming | 0 | 0 | 4 | 2 | ES | |
| I | 8. | BS8161 | Physics and Chemistry Laboratory | 0 | 0 | 4 | 2 | BS | |
| TOTAL | | | | 19 | 0 | 12 | 25 | | |

| SEMESTER II | | | | | | | | | |
|--------------|---------|-------------|---------------------------------------|-----------|----------|----------|-----------|----------|-----------|
| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C | Category | |
| II | 1 | HS8251 | Technical English | 4 | 0 | 0 | 4 | HS | 4 |
| II | 2. | MA8251 | Engineering Mathematics – II | 4 | 0 | 0 | 4 | BS | 4 |
| II | 3. | PH8252 | Physics for Information Science | 3 | 0 | 0 | 3 | BS | 3 |
| II | 4. | BE8255 | BE/EE | 3 | 0 | 0 | 3 | ES | 3 |
| II | 5. | GL8251 | Environmental Science and Engineering | 3 | 0 | 0 | 3 | HS | 3 |
| II | 6. | CS8251 | Programming in C | 3 | 0 | 0 | 3 | PC | 3 |
| II | 7. | GE8261 | Engineering Practices Lab | 0 | 0 | 4 | 2 | ES | 4 |
| II | 8. | CS8261 | C Programming Laboratory | 0 | 0 | 4 | 2 | PC | 4 |
| TOTAL | | | | 20 | 0 | 8 | 24 | | 28 |

| SEMESTER III | | | | | | | | | |
|--------------|---------|-------------|--|-----------|----------|-----------|-----------|----------|---|
| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C | Category | |
| III | 1. | MA8351 | Discrete Mathematics | 4 | 0 | 0 | 4 | BS | 4 |
| III | 2. | CS8351 | Digital Principles and System Design | 4 | 0 | 0 | 4 | ES | 4 |
| III | 3. | CS8391 | Data structures | 3 | 0 | 0 | 3 | PC | 3 |
| III | 4. | CS8392 | Object Oriented Programming | 3 | 0 | 0 | 3 | PC | 3 |
| III | 5. | EC8395 | Communication Engineering | 3 | 0 | 0 | 3 | ES | 3 |
| III | 6. | CS8381 | Data structures Lab | 0 | 0 | 4 | 2 | PC | 4 |
| III | 7. | CS8383 | Object Oriented Programming Lab | 0 | 0 | 4 | 2 | PC | 4 |
| III | 8. | CS8382 | Digital Systems Lab | 0 | 0 | 4 | 2 | ES | 4 |
| III | 9. | HS8381 | Inter Personal Skills Listening & speaking | 0 | 0 | 2 | 1 | EEC | 2 |
| TOTAL | | | | 17 | 0 | 14 | 24 | | |

| SEMESTER IV | | | | | | | | | |
|--------------|---------|-------------|-----------------------------------|-----------|----------|-----------|-----------|----------|-----------|
| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C | Category | |
| IV | 1. | MA8402 | Probability and Queueing Theory | 4 | 0 | 0 | 4 | BS | 4 |
| IV | 2. | CS8491 | Computer Architecture | 3 | 0 | 0 | 3 | PC | 3 |
| IV | 3. | CS8492 | Database Management system | 3 | 0 | 0 | 3 | PC | 3 |
| IV | 4. | CS8451 | Design and Analysis of Algorithms | 3 | 0 | 0 | 3 | PC | 3 |
| IV | 5. | CS8493 | Operating Systems | 3 | 0 | 0 | 3 | PC | 3 |
| IV | 6. | CS8494 | Software Engineering | 3 | 0 | 0 | 3 | PC | 3 |
| IV | 7. | CS8481 | Database Management system Lab | 0 | 0 | 4 | 2 | PC | 4 |
| IV | 8. | CS8461 | Operating Systems Lab | 0 | 0 | 4 | 2 | PC | 4 |
| IV | 9. | HS8461 | Advanced reading and writing | 0 | 0 | 2 | 1 | EEC | 2 |
| TOTAL | | | | 19 | 0 | 10 | 24 | | 29 |

SEMESTER V

| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
|--------------|---------|-------------|-------------------------------------|-----------|----------|----------|-----------|
| V | 1. | MA6566 | Discrete Mathematics | 3 | 1 | 0 | 4 |
| V | 2. | CS6501 | Internet Programming | 3 | 1 | 0 | 4 |
| V | 3. | CS6502 | Object Oriented Analysis and Design | 3 | 0 | 0 | 3 |
| V | 4. | CS6503 | Theory of Computation | 3 | 0 | 0 | 3 |
| V | 5. | CS6504 | Computer Graphics | 3 | 0 | 0 | 3 |
| V | 6. | CS6511 | Case Tools Laboratory | 0 | 0 | 3 | 2 |
| V | 7. | CS6512 | Internet Programming Laboratory | 0 | 0 | 3 | 2 |
| V | 8. | CS6513 | Computer Graphics Laboratory | 0 | 0 | 3 | 2 |
| TOTAL | | | | 15 | 2 | 9 | 23 |

SEMESTER VI

| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
|--------------|---------|-------------|--|-----------|----------|-----------|-----------|
| VI | 1. | CS6601 | Distributed Systems | 3 | 0 | 0 | 3 |
| VI | 2. | IT6601 | Mobile Computing | 3 | 0 | 0 | 3 |
| VI | 3. | CS6660 | Compiler Design | 3 | 0 | 0 | 3 |
| VI | 4. | IT6502 | Digital Signal Processing | 3 | 1 | 0 | 4 |
| VI | 5. | CS6659 | Artificial Intelligence | 3 | 0 | 0 | 3 |
| VI | 6. | GE6757 | Elective 1: Total Quality Management | 3 | 0 | 0 | 3 |
| VI | 7. | CS6611 | Mobile Application Development Laboratory | 0 | 0 | 3 | 2 |
| VI | 8. | CS6612 | Compiler Laboratory | 0 | 0 | 3 | 2 |
| VI | 9. | GE6674 | Communication and Soft Skills - Laboratory Based | 0 | 0 | 4 | 2 |
| TOTAL | | | | 18 | 1 | 10 | 25 |

| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
|--------------|---------|-------------|--|-----------|----------|----------|-----------|
| VII | 1. | CS6701 | Cryptography and Network Security | 3 | 0 | 0 | 3 |
| VII | 2. | CS6702 | Graph Theory and Applications | 3 | 0 | 0 | 3 |
| VII | 3. | CS6703 | Grid and Cloud Computing | 3 | 0 | 0 | 3 |
| VII | 4. | CS6704 | Resource Management Techniques | 3 | 0 | 0 | 3 |
| VII | 5. | IT6801 | Elective II: Service Oriented Architecture | 3 | 0 | 0 | 3 |
| VII | 6. | CS6007 | Elective III: Information Retrieval | 0 | 0 | 3 | 2 |
| VII | 7. | CS6711 | Security Laboratory | 0 | 0 | 3 | 2 |
| VII | 8. | CS6712 | Grid and Cloud Computing Laboratory | 18 | 0 | 6 | 22 |
| TOTAL | | | | 18 | 0 | 6 | 22 |

SEMESTER VIII

| SEMESTER | SL. No. | COURSE CODE | COURSE TITLE | L | T | P | C |
|--------------|---------|-------------|---|----------|----------|-----------|-----------|
| VIII | 1. | CS6801 | Multicore Architecture and Programming | 3 | 0 | 0 | 3 |
| VIII | 2. | CS6008 | Elective IV: Human Computer Interaction | 3 | 0 | 0 | 3 |
| VIII | 3. | GE6075 | Elective V: Professional Ethics | 0 | 0 | 12 | 6 |
| VIII | 4. | CS2451 | Project Work | 9 | 0 | 12 | 15 |
| TOTAL | | | | 9 | 0 | 12 | 15 |

TOTAL NO OF CREDITS: 182

V. R. K.

HOD,C

PLM

PRINCIPAL

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