

Model Plan: Computer Science & Engineering

For Batch 2016 onward

SEMESTER- I

| Course No. | Course Title | Course Type | L | T | P | C | Remarks | |
|------------|----------------------------------|-------------|-----------|---|----|-----------|---------|--|
| MA 101 | Mathematics – I | SC | 3 | 1 | 0 | 4 | | |
| ME 101 | Engineering Mechanics | ESC | 3 | 0 | 0 | 3 | | |
| CH 101 | Engineering Chemistry | SC | 3 | 1 | 0 | 4 | | |
| CE 101 | Engineering Drawing | ESC | 1 | 0 | 0 | 1 | | |
| HS 101 | English Language Skills | HSC | 2 | 0 | 0 | 2 | | |
| EE 101 | Basic Electrical Engineering | ESC | 3 | 0 | 0 | 3 | | |
| CH 151 | Engineering Chemistry Lab | SC | 0 | 0 | 2 | 1 | | |
| CE 151 | Engineering Drawing Lab | ESC | 0 | 0 | 4 | 2 | | |
| HS 151 | English Language Skills Lab | HSC | 0 | 0 | 2 | 1 | | |
| EE 151 | Basic Electrical Engineering Lab | ESC | 0 | 0 | 2 | 1 | | |
| | | | 15 | 2 | 10 | | | |
| | | | 27 | | | 22 | | |

SEMESTER II

| Course No. | Course Title | Course Type | L | T | P | Cr | Remarks | |
|------------|----------------------------|--------------|-----------|---|----|-----------|---------|--|
| MA 102 | Mathematics – II | SC | 3 | 1 | 0 | 4 | | |
| EC 101 | Basic Electronics | ESC | 3 | 0 | 0 | 3 | | |
| PH 101 | Engineering Physics | SC | 3 | 1 | 0 | 4 | | |
| ME 102 | Engineering Thermodynamics | ESC | 2 | 0 | 0 | 2 | | |
| ES 101 | Environmental Science | SC | 2 | 0 | 0 | 2 | | |
| CS 101 | Computer Programming | ESC | 2 | 1 | 0 | 3 | | |
| ME 103 | Workshop Practice-I | ESC | 0 | 0 | 4 | 2 | | |
| EC151 | Basic Electronics Lab | ESC | 0 | 0 | 2 | 1 | | |
| PH151 | Engineering Physics Lab | SC | 0 | 0 | 2 | 1 | | |
| CS151 | Computer Programming Lab | ESC | 0 | 0 | 2 | 1 | | |
| | | | 15 | 2 | 10 | | | |
| | | Total | 27 | | | 23 | | |

Sc. Core (SC); Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)

Semester-III

| Course No. | Course Title | Course Type | Contact Hour | | | Credit | Remarks |
|------------|---------------------------------|-------------|--------------|---|---|--------|---------|
| | | | L | T | P | | |
| MA 202 | Probability & Statistics | SC | 3 | 0 | 0 | 3 | |
| MA 204 | Discrete Mathematics | SC | 3 | 0 | 0 | 3 | |
| CS 201 | Digital Logic Design | DC | 3 | 1 | 0 | 4 | |
| CS 202 | Data Structures | DC | 3 | 1 | 0 | 4 | |
| CS 203 | Automata and Formal Languages | DC | 3 | 1 | 0 | 4 | |
| EC203 | OE-I (Signal & Systems) | OE | 3 | 1 | 0 | 4 | |
| MA 210 | Mathematics Laboratory | SC | 0 | 0 | 4 | 2 | |
| CS 251 | Digital Logic Design Laboratory | | 0 | 0 | 2 | 1 | |
| CS 252 | Data Structures Laboratory | | 0 | 0 | 2 | 1 | |
| | | | 18 | 4 | 8 | | |
| | | | 30 | | | 26 | |

Sc. Core (SC); Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)

Semester-IV

| Course No. | Course Title | Course Type | L | T | P | Cr | Remarks |
|------------|---|--------------|----|---|---|----|---------|
| CS 204 | Computer Organization & Architecture | DC | 3 | 1 | 0 | 4 | |
| CS 205 | Algorithms | DC | 3 | 1 | 0 | 4 | |
| CS 206 | Database Systems | DC | 3 | 0 | 0 | 3 | |
| CS 208 | Data Communication | DC | 3 | 0 | 0 | 3 | |
| CSxxx | OE-II | DE | 3 | 0 | 0 | 3 | |
| xxx | Science Elective | SE | 3 | 0 | 0 | 3 | |
| CS254 | Computer Organization & Architecture Laboratory | DC | 0 | 0 | 2 | 1 | |
| CS255 | Algorithms Laboratory | DC | 0 | 0 | 2 | 1 | |
| CS256 | Database Systems Laboratory | DC | 0 | 0 | 2 | 1 | |
| CS258 | Data Communication Laboratory | DC | 0 | 0 | 2 | 1 | |
| | | | 18 | 2 | 8 | 24 | |
| | | Total | 28 | | | 24 | |

Sc. Core (SC); Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)

Semester-V

| Course No. | Course Title | Course Type | Contact Hour | | | Credit | Remarks |
|------------|---|-------------|--------------|-----------|---|-----------|---------|
| | | | L | T | P | | |
| CS311 | Object Oriented Programming and Design | DC | 3 | 0 | 0 | 3 | |
| CS302 | Computer Networks | DC | 3 | 0 | 0 | 3 | |
| | <i>Departmental Elective-I</i> | DE | 3 | 0 | 0 | 3 | |
| | <i>Departmental Elective-I (lab)</i> | DE | 0 | 0 | 2 | 1 | |
| HS301 | Foundations of Management | HSC | 3 | 0 | 0 | 3 | |
| | <i>Open Elective-II</i> | OE | 3 | 0 | 0 | 3 | |
| | <i>Open Elective-II (lab)</i> | OE | 0 | 0 | 2 | 1 | |
| CS361 | Object Oriented Programming and Design Laboratory | DC | 0 | 0 | 2 | 1 | |
| CS352 | Computer Networks Laboratory | DC | 0 | 0 | 2 | 1 | |
| | | | 15 | 0 | 8 | | |
| | | | | 23 | | 19 | |

Sc. Core (SC); Sc. Electives (SE); Engg. Sc. Core (ESC); HSS Core (HSC); HSS Elective (HSE); Discipline Core (DC); Discipline Elective (DE); Open Elective (OE); Project Work (PW)