

SMT. S.R.PATEL ENGINEERING COLLEGE, UNJHA
COMPUTER ENGINEERING DEPARTMENT
TEACHING SCHEME COMPUTER ENGINEERING

B.E. Computer I & II Semester

| GTU Code | Subject | Lecture | Tutorial | P | Total | Credit |
|----------|--|---------|----------|---|-------|--------|
| | | (L) | (T) | | Hour | |
| 2110001 | Chemistry | 3 | 0 | 2 | 5 | 5 |
| 2110002 | Communication Skills | 2 | 0 | 2 | 4 | 4 |
| 2110003 | Computer Programming and Utilization | 3 | 1 | 2 | 6 | 6 |
| 2110004 | Elements of Civil Engineering | 4 | 0 | 2 | 6 | 6 |
| 2110005 | Elements of Electrical Engineering | 4 | 0 | 2 | 6 | 6 |
| 2110006 | Elements of Mechanical Engineering | 4 | 0 | 2 | 6 | 6 |
| 2110007 | Environmental Studies | 3 | 0 | 0 | 3 | 3 |
| 2110011 | Physics | 3 | 0 | 2 | 5 | 5 |
| 2110012 | Workshop | 0 | 0 | 4 | 4 | 4 |
| 2110013 | Engineering Graphics | 2 | 0 | 4 | 6 | 6 |
| 2110014 | Calculus | 3 | 2 | 0 | 5 | 5 |
| 2110015 | Vector Calculus and Linear Algebra | 3 | 2 | 0 | 5 | 5 |
| 2110016 | Basic Electronics Electrical and Electronics | 4 | 0 | 2 | 6 | 6 |
| 2110017 | Workshop | 0 | 0 | 4 | 4 | 4 |
| 2990001 | Contributor Personality Development | 4 | 0 | 0 | 4 | 4 |

B.E. Computer III Semester

| GTU CODE | Subject | Lecture (L) | Teaching Scheme | | Total hour | Credit |
|-------------------------|--------------------------------------|----------------|-----------------|------------------|---------------|--------|
| | | | Tutorial (T) | Practical (P) | | |
| 2130002 | Mathematics | 3 | 2 | 0 | 5 | 5 |
| 2130004 | Engineering Economics and Management | 3 | 0 | 0 | 3 | 3 |
| 2130005 | Design Engineering - I | 0 | 0 | 3 | 3 | 3 |
| 2130702 | Data Structures | 4 | 0 | 4 | 8 | 8 |
| 2130703 | Database Management Systems | 4 | 0 | 4 | 8 | 8 |
| 2131004 | Digital Electronics | 4 | 0 | 2 | 6 | 6 |
| Beyond Academics | | | | | | |
| 3CE01 | Software | 0 | 0 | 2 | 2 | |
| 3CE02 | Seminar | 0 | 0 | 1 | 1 | |
| 3CE03 | CDC Activities | 0 | 0 | 1 | 1 | |
| 3CE04 | GATE Classes | 0 | 0 | 4 | 4 | |

B.E. Computer IV Semester

| GTU CODE | Subject | Lecture | Tutorial | Practical (P) | Total | Credit |
|-------------------------|--|---------|----------|------------------|-------|--------|
| | | (L) | (T) | | Hour | |
| 2140002 | Design Engineering - I B | 0 | 0 | 3 | 3 | 3 |
| 2140702 | Operating System | 4 | 0 | 2 | 6 | 6 |
| 2140705 | Object Oriented Programming With C++ | 4 | 0 | 4 | 8 | 8 |
| 2140706 | Numerical and Statistical Methods for Computer Engineering | 3 | 0 | 2 | 5 | 5 |
| 2140707 | Computer Organization | 4 | 1 | 0 | 5 | 5 |
| 2140709 | Computer Networks | 4 | 0 | 2 | 6 | 6 |
| Beyond Academics | | | | | | |
| 4CE01 | Software | 0 | 0 | 2 | 2 | |
| 4CE02 | Seminar | 0 | 0 | 1 | 1 | |
| 4CE03 | CDC Activities | 0 | 0 | 1 | 1 | |
| 4CE04 | GATE Classes | 0 | 0 | 4 | 4 | |

B.E. Computer V Semester

| GTU CODE | Subject | Lecture (L) | Tutorial (T) | Practical (P) | Total Hour | Credit |
|-------------------------|--|----------------|-----------------|------------------|---------------|--------|
| 2150001 | Design Engineering - II A | 0 | 0 | 3 | 3 | 3 |
| 2150002 | Cyber Security (Inst. Elec.) | 0 | 1 | 2 | 3 | 3 |
| 2150003 | Disaster Management (Inst. Elec.) | 3 | 0 | 0 | 3 | 3 |
| 2150703 | Analysis and Design of Algorithms | 4 | 0 | 2 | 6 | 6 |
| 2150704 | Object Oriented Programming using JAVA | 4 | 0 | 2 | 6 | 6 |
| 2150707 | Microprocessor and Interfacing | 4 | 0 | 2 | 6 | 6 |
| 2150708 | System Programming | 4 | 0 | 2 | 6 | 6 |
| Beyond Academics | | | | | | |
| 5CE01 | Software | 0 | 0 | 2 | 2 | |
| 5CE02 | Seminar | 0 | 0 | 1 | 1 | |
| 5CE03 | Training & Placement Activities | 0 | 0 | 1 | 1 | |
| 5CE04 | GATE Classes | 0 | 0 | 4 | 4 | |

B.E. Computer VI Semester

| GTU CODE | Subject | Lecture (L) | Tutorial (T) | Practical (P) | Total Hour | Credit |
|-------------------------|---------------------------------|----------------|-----------------|------------------|---------------|--------|
| 2160001 | Design Engineering - II B | 0 | 0 | 3 | 3 | 3 |
| 2160701 | Software Engineering | 4 | 0 | 2 | 6 | 6 |
| 2160703 | Computer Graphics | 4 | 0 | 2 | 6 | 6 |
| 2160704 | Theory of Computation | 3 | 0 | 0 | 3 | 3 |
| 2160707 | Advanced Java | 4 | 0 | 2 | 6 | 6 |
| 2160708 | Web Technology | 3 | 0 | 2 | 5 | 5 |
| 2160709 | Embedded and VLSI Design | 4 | 0 | 2 | 6 | 6 |
| 2160710 | Distributed Operating System | 4 | 0 | 2 | 6 | 6 |
| 2160711 | Net Technology | 4 | 0 | 2 | 6 | 6 |
| Beyond Academics | | | | | | |
| 6CE01 | Software | 0 | 0 | 2 | 2 | |
| 6CE02 | Seminar | 0 | 0 | 1 | 1 | |
| 6CE03 | Training & Placement Activities | 0 | 0 | 1 | 1 | |
| 6CE04 | GATE Classes | 0 | 0 | 4 | 4 | |

B.E. Computer VII Semester

| GTU CODE | Subject | Lecture (L) | Tutorial (T) | Practical (P) | Total Hour | Credit |
|-------------------------|---|----------------|-----------------|------------------|---------------|--------|
| 2170001 | Project | 0 | 0 | 4 | 4 | 4 |
| 2170701 | Compiler Design | 4 | 0 | 2 | 6 | 6 |
| 2170709 | Information and Network Security | 4 | 0 | 2 | 6 | 6 |
| 2170710 | Mobile Computing and Wireless Communication | 4 | 0 | 2 | 6 | 6 |
| 2170712 | Image Processing | 3 | 0 | 2 | 5 | 5 |
| 2170713 | Service Oriented Computing | 3 | 2 | 0 | 5 | 5 |
| 2170714 | Distributed DBMS | 3 | 0 | 2 | 5 | 5 |
| 2170715 | Data Mining and Business Intelligence | 3 | 0 | 2 | 5 | 5 |
| Beyond Academics | | | | | | |
| 7CE01 | Software | 0 | 0 | 2 | 2 | |
| 7CE02 | Training & Placement Activities | 0 | 0 | 2 | 2 | |

B.E. Computer VIII Semester

| GTU CODE | Subject | Lecture | Tutorial | Practical | Total | Credit |
|-------------------------|--|----------------|-----------------|------------------|--------------|---------------|
| | | (L) | (T) | (P) | Hour | |
| 2180703 | Artificial Intelligence | 4 | 0 | 2 | 6 | 6 |
| 2180706 | Project (Phase-II) | 0 | 0 | 16 | 16 | 16 |
| 2180709 | IOT and Applications (Dept Elec -III) | 3 | 2 | 2 | 7 | 5 |
| 2180710 | Big Data Analytics (Dept Elec -III) | 3 | 2 | 2 | 7 | 5 |
| 2180711 | Python Programming (Dept Elec -III) | 3 | 2 | 2 | 7 | 5 |
| 2180712 | Cloud Infrastructure and Services(Dept Elec III) | 3 | 2 | 2 | 7 | 5 |
| 2180713 | Web Data Management (Dept Elec-- III) | 3 | 2 | 2 | 7 | 5 |
| 2180714 | iOS Programming (Dept Elec - III) | 3 | 2 | 2 | 7 | 5 |
| 2180715 | Android Programming (Dept Elec -III) | 3 | 2 | 2 | 7 | 5 |
| Beyond Academics | | | | | | |
| 8CE01 | Software | 0 | 0 | 2 | 2 | |
| 8CE02 | Training & Placement Activities | 0 | 0 | 2 | 2 | |