

Bachelor of Computer Application (BCA) Syllabus

First Semester

| Sl | Paper Code | Paper | Hours per week | | Credit |
|-------|------------|--|----------------|---|--------|
| | | | L | P | |
| 1. | MAT:101 | Mathematics 1 | 4 | - | 4 |
| 2. | ENG:105 | English paper I | 2 | - | 2 |
| 3. | ITA:103 | IT Tools and Applications | 4 | - | 4 |
| 4. | PPC:104 | Programming and Problem Solving Through C Language | 4 | - | 4 |
| 5. | BEL:105 | Basic Electronics | 4 | - | 4 |
| 6. | ELL:106 | Electronics lab I (Basic Electronic lab) | - | 2 | 2 |
| 7. | SWL:107 | Software lab I | - | 2 | 2 |
| | | i. IT Tools and Applications | - | 2 | 2 |
| | | ii. Programming in C | - | 2 | 2 |
| Total | | | | | 24 |

Second Semester

| Sl | Paper Code | Paper | Hours per week | | Credit |
|-------|------------|---|----------------|---|--------|
| | | | L | P | |
| 1. | MAT:201 | Mathematics II | 4 | - | 4 |
| 2. | ENG:205 | English Paper II | 2 | - | 2 |
| 3. | DSC:203 | Data Structure in C | 4 | - | 4 |
| 4. | DEL:204 | Digital Electronics | 4 | - | 4 |
| 5. | ELL:205 | Electronics lab II (Digital Electronic lab) | - | 2 | 2 |
| 6. | SWL:206 | Software lab II (Data Structure in C) | - | 2 | 2 |
| Total | | | | | 18 |

Third Semester

| SI | Paper Code | Paper | Hours per week | | Credit |
|-------|------------|---|----------------|---|--------|
| | | | L | P | |
| 1. | OSM:301 | Operating System | 4 | - | 4 |
| 2. | CON:302 | Computer Oriented Numerical Methods | 4 | - | 4 |
| 3. | OOP:303 | OOP in C++ | 4 | - | 4 |
| 4. | CMO:304 | Computer Organization | 4 | - | 4 |
| 5. | SWL:305 | Software lab III (Computer Oriented Numerical Methods) | - | 2 | 2 |
| 6. | SWL:306 | Software lab IV (OOP in C++) | - | 2 | 2 |
| Total | | | | | 20 |

Fourth Semester

| SI | Paper Code | Paper | Hours per week | | Credit |
|-------|------------|--------------------------------------|----------------|---|--------|
| | | | L | P | |
| 1. | DMS:401 | Database Management System | 4 | - | 4 |
| 2. | PPD:402 | Professional Personality Development | 4 | - | 4 |
| 3. | SAD:403 | System Analysis and Design | 4 | - | 4 |
| 4. | .NET:404 | C# and ASP.NET | 4 | - | 4 |
| 5. | SWL:405 | Software lab V (C# and ASP.NET) | - | 2 | 2 |
| 6. | SWL:406 | Software lab VI (DBMS) | - | 2 | 2 |
| Total | | | | | 20 |

Fifth Semester

| Sl | Paper Code | Paper | Hours per week | | Credit |
|-------|--------------------------------------|---|----------------|---|--------|
| | | | L | P | |
| 1. | MAP:501 | Microprocessor Architecture and programming | 4 | - | 4 |
| 2. | SWE:502 | Software Engineering | 4 | - | 4 |
| 3. | CMG:503 | Computer Graphics | 4 | - | 4 |
| 4. | 504 FMM:504 ECM:504 MBC:504 | Elective:- (choose any one) Fundamentals of Multimedia E-Commerce Mobile computing | 4 | - | 4 |
| 5. | EVS: 401 | Environment studies (Compulsory paper) | 3 | - | 3 |
| 6. | SWL:505 | Software Lab VII (Computer Graphics) | - | 2 | 2 |
| 7. | ELL:506 | Electronics lab III (Microprocessor Architecture and programming) | - | 2 | 2 |
| Total | | | | | 22 |

Sixth Semester

| Sl | Paper Code | Paper | Hours per week | | Credit |
|-------|--------------------------------------|--|----------------|---|--------|
| | | | L | P | |
| 1. | DCN:601 | Data Communications & Computer Networks | 4 | - | 4 |
| 2. | 602 NIS:602 TOC:602 DBS:602 | Elective:- (choose any one) Network and Information Security Theory of Computation Distributed System | 4 | - | 4 |
| 3. | BOM:603 | Business Organization and Management | 4 | - | 4 |
| 4. | 604 PRO:604 DAA:604 | Project i) Seminal ii) Viva Voice iii) Report Design and Analysis of Algorithm | 4 | - | 4 |
| Total | | | | | 16 |