# **DEPARTMENT OF COMPUTER SCIENCE LIST OF COURSES PER PROGRAMS**

## List of Courses for BSc Computer Science

### 100 Level

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| **SN** | **Course Code** | **Course Title** |
| 1 | CSC1303 | Introduction to Computer Science |
| 2 | CSC1311 | Statistics for Physical Science and Engineering |
| 3 | CST1301 | Introduction to Application Packages |
| 4 | CBS1202 | Fundamentals of Cyber Security I |
| 5 | GSP1201 | Use of English |
| 6 | GSP1202 | Use of Library, Study Skills and ICT |
| 7 | ITC1203 | Fundamentals Of Information Technology |
| 8 | MTH1301 | Elementary Mathematics II |
| 9 | MTH1302 | Elementary Mathematics II |
| 10 | MTH1303 | Elementary Mathematics III |
| 11 | SWE1301 | Introduction to Problem Solving and Software Development |
| 12 | SWE1304 | Introduction to Computer Programming |

### 200 Level

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| **SN** | **Course Code** | **Course Title** |
| 1 | CSC2206 | Computer Architecture and Organization I |
| 2 | CSC2208 | Computer Hardware |
| 3 | CSC2210 | Operating Systems I |
| 4 | CSC2211 | Computer System Theory |
| 5 | CSC2323 | Discrete Structures |
| 6 | CSC2253 | Data structures and Algorithms |
| 7 | GSP2204 | Foundation of Nigeria People and culture |
| 8 | GSP2205 | Philosophy & Logic |
| 9 | GSP2206 | Peace studies and conflict resolution |
| 10 | ITC2201 | Introduction to Web Computing |
| 11 | MTH2205 | Linear Algebra I |
| 12 | MTH2301 | Mathematical Methods |
| 13 | SWE2301 | Introduction to Software Engineering |
| 14 | SWE2313 | Computer Programming 1 |
| 15 | SWE2212 | Analysis of Algorithms/ Design and Analysis of Computer Algorithms |
| 16 | SWE2308 | C++ Workshop/ Computer Programming I/ Principle of Programming II |
| 17 | SWE2204 | Human-Computer Interactions |
| 18 | SWE2307 | Introduction to Systems Analysis & Design |

### 300 Level

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| **SN** | **Course Code** | **Course Title** |
| 1 | CBS3205 | Cryptographic Techniques |
| 2 | CSC3201 | Compiler Construction I |
| 3 | CSC3205 | Computer Architecture and Organization II |
| 4 | CSC3252 | Research Methods |
| 5 | CSC3307 | Computational Science and Numerical Methods |
| 6 | CSC3343 | Operating Systems II |
| 7 | CSC3600: | SIWES |
| 8 | EEP3201 | Entrepreneurship and Innovation |
| 9 | ITC3303 | Data Communication and Network |
| 10 | ITC3304 | Web Application Development |
| 11 | ITC3305 | Database Management Systems |
| 12 | SWE3311 | Object Oriented Programming |

### 400 Level

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| **SN** | **Course Code** | **Course Title** |
| 1 | CSC4303 | Operations Research |
| 2 | CSC4305 | Introduction to Parallel Programming |
| 3 | CSC4331 | Artificial Intelligence |
| 4 | CSC4221 | Computer Graphics I |
| 5 | CSC4212 | Computer Graphics II |
| 6 | CSC4232 | Advanced Networking and Communications |
| 7 | CSC4600: | Major Project |
| 8 | CSC4316 | Data Mining |
| 9 | CSC4301 | Cloud Computing |
| 10 | EEP4201 | Venture Creation and Growth |
| 11 | ITC4204 | Mobile Application Development |
| 12 | SWE4209 | Concept of Programing Language |

## List of Postgraduate Courses for Computer Science

## Postgraduate Diploma in Computer Science (PGDCS)

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| FIRST SEMESTER COURSES | |
| **Course Code** | **Course Title** |
| CSC7202 | Data Structure and Algorithm |
| CSC7203 | Theory of Computer Science |
| CSC7204 | System Analysis and Design |
| CSC7208 | Visual Programming |
| CSC7210 | Introduction to Programming Languages |
| CSC7301 | Computer Software and Hardware Systems |
| SECOND SEMESTER COURSES | |
| **Course Code** | **Course Title** |
| CSC7205 | Introduction to Computer Graphics |
| CSC7206 | Introduction to Database Management Systems |
| CSC7307 | Computer Communications and Network |
| CSC7212 | Internet Programming |
| CSC7215 | Computer and Society |
| CSC7311 | Operations Research |
| CSC7400 | Long Essay |

## M.Sc. Computer Science

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| FIRST SEMESTER COURSES | | |
| **Course Code** | **Course Title** | **Credit Units** |
| CSC8301 | Operating System and Principles | 3 |
| CSC8303 | Artificial Intelligence | 3 |
| CSC8307 | Software Engineering | 3 |
| CSC8308 | Research Methods | 3 |
| CSC8600 | Dissertation | 6 |
| SECOND SEMESTER COURSES | |  |
| **Course Code** | **Course Title** |  |
| CSC8302 | Theory of Computations | 3 |
| CSC8302 | Computer System Theory | 3 |
| CSC8306 | Design of Distributed and Parallel Computing | 3 |
| CSC8313 | Object Oriented Techniques | 3 |

### Professional Masters in Computer Applications (MCA)

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| FIRST SEMESTER COURSES | | |
| Course Code | Course Title | Credit Units |
| MCA8301 | Computer Networks | 3 |
| MCA8303 | Software Systems and Applications | 3 |
| MCA8305 | Multimedia Techniques | 3 |
| MCA8307 | Application Packages | 3 |
| MCA8309 | Software Engineering | 3 |
| MCA8311 | Computer Applications | 3 |
| FIRST SEMESTER COURSES | | |
| MCA8302 | Computer Programming | 3 |
| MCA8304 | Database Management and Information Systems | 3 |
| MCA8306 | Computer Graphics (Elective) | 3 |
| MCA8308 | Web Technologies | 3 |
| MCA8310 | Advanced Application Packages (Elective) | 3 |
| MCA8600 | Research Project | 6 |

1. **Ph.D Computer Science**

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| **Course Code** | **Course Title** | **Credit Units** |
| CSC9301 | Advanced Research Methods  I | 3 |
| CSC9302 | Advanced Research Methods  II- Academic Writing (Elective) | 3 |
| CSC9303 | Contemporary Issues in Computing | 3 |
| CSC9120 | Thesis | 12 |