



University of Global Village (UGV)

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Course Structure of B.Sc. In Computer Science & Engineering (CSE) (Evening Program)

| Semester | Course Code | Course Title | Credits | Credits/ Semester |
|-----------------|-----------------------------------|--|---------|----------------------|
| 1 st | MATH-1-1011 | Mathematics-1 | 3 | 24 |
| | PHYS-1014 | Physics | 3 | |
| | CSE-101 | Introduction to Computer & Programming | 3 | |
| | CSE-102 | Introduction to Computer & Programming Lab | 1 | |
| | BDS-906 | Bangladesh Studies | 3 | |
| | CSE-103 | Structured Programming | 2 | |
| | CSE-104 | Structured Programming Lab | 1 | |
| | CSE-105 | Electrical Circuits | 3 | |
| | CSE-106 | Electrical Circuits Lab | 1 | |
| | ENG-II-903 | Advanced English | 3 | |
| SAP-101 | Student Attachment Programme-1 | 1 | | |
| 2 nd | MATH-II-1012 | Mathematics-II | 3 | 25 |
| | STS-907 | Applied Statistics | 3 | |
| | CSE-111 | Data Structure | 3 | |
| | CSE-112 | Data Structure Lab | 1 | |
| | CSE-201 | Computer Organization & Architecture | 3 | |
| | ACN-1008 | Principles of Accounting | 3 | |
| | CSE-204 | Introduction to Operating System | 3 | |
| | CSE-205 | Introduction to Operating System Lab | 1 | |
| | CSE-207 | Algorithm Design | 3 | |
| | CSE-208 | Algorithm Design Lab | 1 | |
| SAP-102 | Student Attachment Programme-2 | 1 | | |
| 3 rd | MATH-III-1013 | Mathematics-III | 3 | 25 |
| | CSE-209 | Object Oriented Programming | 3 | |
| | CSE-210 | Object Oriented Programming Lab | 1 | |
| | CSE-211 | Microprocessor & Assembly Language | 3 | |
| | CSE-212 | Microprocessor & Assembly Language Lab | 1 | |
| | CSE-214 | Communication Engineering | 3 | |
| | CSE-215 | System Analysis & Design | 3 | |
| | CSE-216 | System Analysis & Design Lab | 1 | |
| | CSE-213 | Theory of Computing | 1 | |
| | CSE-301 | Compiler Design | 3 | |
| CSE-302 | Compiler Design Lab | 2 | | |
| SAP-201 | Student Attachment Programme-3 | 1 | | |
| 4 th | CSE-303 | Data & Telecommunication | 3 | 25 |
| | CSE-304 | Object Oriented Analysis & Design | 3 | |
| | CSE-305 | Object Oriented Analysis & Design Lab | 1 | |
| | CSE-306 | Software Engineering | 3 | |
| | CSE-307 | Computer Graphics | 2 | |
| | CSE-308 | Computer Graphics Lab | 1 | |
| | CSE-309 | Digital Signal Processing | 3 | |
| | CSE-310 | Digital Signal Processing Lab | 1 | |
| | CSE-311 | Computer Network & Security | 3 | |
| | CSE-312 | Computer Network & Security Lab | 1 | |
| CSE-313 | Parallel & Distributed Processing | 3 | | |
| SAP-202 | Student Attachment Programme-4 | 1 | | |

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|-----------------|---------|--|---|----|
| 5 th | CSE-314 | Computer Peripherals & Interfacing | 3 | 26 |
| | CSE-315 | Computer Peripherals & Interfacing Lab | 1 | |
| | CSE-316 | Management Information System | 3 | |
| | CSE-317 | Multimedia Application | 2 | |
| | CSE-318 | Multimedia Application Lab | 1 | |
| | CSE-401 | RDBMS Programming | 2 | |
| | CSE-402 | RDBMS Programming Lab | 1 | |
| | CSE-403 | Internet Working & Web Design | 2 | |
| | CSE-404 | Internet Working & Web Design Lab | 1 | |
| | CSE-407 | Advance Computer Architecture | 3 | |
| | CSE- | Elective-I | 3 | |
| | CSE- | Elective-II | 3 | |
| | SAP-301 | Student Attachment Programme-5 | 1 | |
| 6 th | CSE-405 | Artificial Intelligence | 3 | 26 |
| | CSE-406 | Artificial Intelligence Lab | 1 | |
| | CSE-409 | Pattern Recognition | 3 | |
| | CSE-410 | Pattern Recognition Lab | 1 | |
| | CSE-408 | Research Project-I | 1 | |
| | CSE- | Elective-III | 3 | |
| | CSE- | Elective-IV | 3 | |
| | CSE-411 | VLSI Design | 3 | |
| | CSE-412 | VLSI Design Lab | 1 | |
| | CSE-413 | Research Project-II | 3 | |
| | CSE- | Elective-V | 3 | |
| | SAP-302 | Student Attachment Programme-6 | 1 | |

Total = 151 Credit