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| **Computer Science and Engineering**  Khulna University | | |
| **CORE: CSE** | | |
| 01 | CSE | Structured Programming 1 (with Sessional) |
| 02 | CSE | Structured Programming 2 (with Sessional) |
| 03 | CSE | Object Oriented Programming (with Sessional) |
| 04 | CSE | Advanced Programming |
| 05 | CSE | Data Structures (with Sessional) |
| 06 | CSE | Algorithms (with Sessional) |
| 07 | CSE | Discrete Mathematics |
| 08 | CSE | Numerical Methods (with Sessional) |
| 09 | CSE | Digital Logic Design (with Sessional) |
| 10 | CSE | Computer Architecture |
| 11 | CSE | Assembly Language Sessional |
| 12 | CSE | Microprocessors and Microcontrollers (with Sessional/Project) |
| 13 | CSE | Operating System and System Programming (with Sessional/Project) |
| 14 | CSE | Database System (with Sessional/Project) |
| 15 | CSE | Compiler Design (with Sessional/Project) |
| 16 | CSE | Computer Graphics (with Sessional/Project) |
| 17 | CSE | Computer Security |
| 18 | CSE | Computer Networks (with Sessional/Fieldwork) |
| 19 | CSE | Artificial Intelligence (with Sessional/Project) |
| 20 | CSE | Web Programming Project/Fieldwork |
| 21 | CSE | Information System Design (with Sessional) |
| 22 | CSE | Technical Writing and Presentation Sessional |
| 23 | CSE | Software Engineering |
| 24 | CSE | Software Development Project |
| 25 | CSE | Advanced Business Venture / Industrial Training |
| 26 | CSE | Project and Thesis 1 |
| 27 | CSE | Project and Thesis 2 |
| 28 | CSE | Scientific Research Methodology (for MSC) |
| **CORE: SCINECT AND TECHNOLOGY** | | |
| 01 | MATH | Calculus |
| 02 | MATH | Geometry and Differential Equations |
| 03 | MATH | Vector Analysis and Matrix |
| 04 | MATH | Statistics and Complex Variable |
| 05 | MATH | Mathematical Analysis for Computer Science |
| 06 | PHY | Physics (with Sessional) |
| 07 | CHE | Chemistry |
| 08 | ECE | Electrical Circuits (with Sessional) |
| 09 | ECE | Electronic Devices and Circuits (with Sessional) |
| 10 | ECE | Electrical Drives and Instrumentation (with Sessional) |
| 11 | ECE | Digital Electronics |
| 12 | ECE | Data Communication |
| 13 | ME | Mechanics and Heat Engineering |
| 14 | ME | Engineering Drawing and CAD Project Sessional |
| **ELECTIVES 1 (Any One Course)** | | |
| 01 | CSE | Neural Networks and Fuzzy System (with Sessional) |
| 02 | CSE | Simulation and Modeling (with Sessional/Fieldwork) |
| 03 | CSE | Digital Image Processing (with Sessional/Project) |
| 04 | CSE | Geographical Information System (with Sessional/Fieldwork) |
| **ELECTIVES 2 (Any One Course)** | | |
| 01 | CSE | Theory of Computation |
| 02 | CSE | Human Computer Interaction |
| 03 | CSE | Parallel and Distributed Processing |
| 04 | CSE | Distributed Database System |
| 05 | CSE | Applied Probability and Queuing Theory |
| 06 | CSE | Computational Geometry |
| 07 | CSE | Graph Theory |
| 08 | CSE | Digital Signal Processing |
| 09 | CSE | Wireless and Optical Networks |
| 10 | CSE | VLSI Design and Testability |
| **ELECTIVES 3 (Any Two Courses)** | | |
| 01 | CSE | Computer Peripherals and Interfacing (with Sessional/Project) |
| 02 | CSE | Digital System Design (with Sessional/Project) |
| 03 | CSE | Data Mining (with Sessional/Fieldwork) |
| 04 | CSE | Pattern Recognition (With Sessional/Project) |
| 05 | CSE | Client Server Technology (with Sessional/Fieldwork) |
| 06 | CSE | Computer Animation and Virtual Reality (with Sessional/Project) |
| **ELECTIVES 4 (Any One Course)** | | |
| 01 | CSE | Machine Learning |
| 02 | CSE | Decision Support System |
| 03 | CSE | Robotics and Computer Vision |
| 04 | CSE | Knowledge Engineering |
| 05 | CSE | E-Commerce |
| 06 | CSE | Multimedia |
| **MSC: Theoretical Computer Science** | | |
| 01 | CSE | Advanced Algorithms |
| 02 | CSE | Combinatorial Optimization |
| 03 | CSE | Graph Theory |
| 04 | CSE | Computational Geometry |
| 05 | CSE | Bioinformatics Algorithm |
| 06 | CSE | String-ology |
| 07 | CSE | Mathematical Programming |
| 08 | CSE | Petri Net Theory and Modeling of Systems |
| 09 | CSE | Cryptography |
| **MSC: Software Engineering and Information System** | | |
| 01 | CSE | Advanced Software Engineering |
| 02 | CSE | Software Project Management |
| 03 | CSE | Software Testing and Quality Assurance |
| 04 | CSE | Software Validation and Verification Tools |
| 05 | CSE | Advanced Database Systems |
| 06 | CSE | Information System Management |
| **MSC: Communications and Computer Networks** | | |
| 01 | CSE | Computer Communications and Networks |
| 02 | CSE | Wireless and Mobile Communication Networks |
| 03 | CSE | Wireless Ad-hoc Networks |
| 04 | CSE | Wireless Sensor Networks |
| 05 | CSE | Wireless Resource Management |
| 06 | CSE | Network Security |
| **MSC: Intelligent Systems** | | |
| 01 | CSE | Advanced Artificial Intelligence |
| 02 | CSE | Fuzzy Systems |
| 03 | CSE | Machine Learning |
| 04 | CSE | Advanced Pattern Recognition |
| 05 | CSE | Speech Recognition |
| 06 | CSE | Machine Translation |
| 07 | CSE | Knowledge Representation and Reasoning |
| 08 | CSE | Data Mining |
| 09 | CSE | Evolutionary Algorithms |
| 10 | CSE | Neural Networks |
| **MSC: Multimedia Technology** | | |
| 01 | CSE | Multimedia Systems |
| 02 | CSE | Computer Graphics and Animation |
| 03 | CSE | Human Computer Interaction |
| 04 | CSE | Multimedia Communication |
| **MSC: High Performance Computing** | | |
| 01 | CSE | Parallel Algorithms |
| 02 | CSE | Distributed Computing Systems |
| 03 | CSE | Distributed Databases |
| 04 | CSE | Ubiquitous Computing |
| **MSC: Hardware Systems** | | |
| 01 | CSE | Advanced Microprocessors |
| 02 | CSE | Advanced Logic Design |
| 03 | CSE | Computer Organization and Design |
| 04 | CSE | Advanced Computer Architecture |
| 05 | CSE | Embedded Systems |