

AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Faculty of Science and Technology Department of Computer Science

MsCS Curriculum

Foundation Courses

CSC5001 Foundation in Computing CSC5002 Foundation in Computer Systems

Core Courses

CSC5011 Design and Analysis of Algorithms CSC5012 Advanced Operating System

Area of Specialization 1: Computing

CSC5101 Combinatorial & Graph Algorithms

CSC5102 Parallel & Distributed Algorithms

CSC5103 Distributed Systems

CSC5104 Compiler Construction

CSC5105 Cryptography Techniques and Data Security

CSC5106 Logic Programming and Constraints

CSC5107 Principles of Program Analysis

CSC5199 Advanced Topics in Computing

Area of Specialization 2: Computer Network & Architecture

CSC5201 Network Security and Management

CSC5202 Sensor Networks and Wireless Computing

CSC5203 Mobile and Multimedia Networking

CSC5204 Parallel Computer Systems

CSC5205 Embedded Systems

CSC5206 Simulation and Modeling Techniques

CSC5207 Critical Systems and Verification

CSC5208 Computer System Performance Analysis

CSC5209 Performance Analysis of Embedded Systems

CSC5299 Advanced Topics in Computer Network

Area of Specialization 3: Information &

Database Management

CSC5301 Information Security Management

CSC5302 IT Marketing & Management

CSC5303 E-Commerce Technologies

CSC5304 Database Design & Security

CSC5305 Database Technology and Management

CSC5306 Parallel & Distributed Database Systems

CSC5307 Data Warehousing and Data Mining

CSC5308 Multimedia Information Systems

CSC5309 Web Development Technologies

CSC5399 Advanced Topics in IS

Area of Specialization 4: Software Engineering

CSC5401 Software Requirements Engineering

CSC5402 Software Construction, Architecture and Design

CSC5403 Software Engineering Process and Configuration Management

CSC5404 Software Evolution and Maintenance

CSC5405 Software Quality Assurance and Testing

CSC5406 Software Project Management

CSC5407 Software Documentation and Tools

CSC5408 Methods in Software Engineering

CSC5409 Software Engineering Ethics

CSC5499 Advanced Topics in Software Engineering

Area of Specialization 5: Intelligent Systems

CSC5501 Knowledge-Based Systems

CSC5502 Machine Learning & Neural Networks

CSC5503 Computer Vision & Pattern Recognition

CSC5504 Image Processing

CSC5505 Natural Language Processing

CSC5506 Bioinformatics

CSC5507 Intelligent Web Systems

CSC5508 Human Computer Interaction

CSC5509 Uncertainty Modeling in Al

CSC5599 Advanced Topics in Intelligent Systems