EMCS PROGRAM

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

JAHANGIRNAGAR UNIVERSITY

SAVAR, DHAKA 1342, BANGLADESH

PROGRAM BROCHURE

Master in Computer Science

Program Features:

- Highly qualified faculty members with international teaching and research exposures
- 1-year (3 semesters) program to complete within short time
- Classes conducted on Fridays only
- Wi-fi connectivity and modern computer lab facilities
- Class rooms equipped with multimedia facilities
- Most updated library with latest books and journals
- Transport facilities for the students (Dhaka-Campus-Dhaka)

Admission Requirements:

Applicants must satisfy any one of the following criteria-

- 4-year BSc (or 3-year Hons. + 1-year MSc) in CS/CSE/IT/EEE/ ECE/ ETE or equivalent
- BSc (Engineering) in any discipline
- 4-year BSc (or 3-year Hons + 1-year MSc) in Physics/Mathematics/ Statistics/Geological Sciences/Chemistry/Environmental Sciences
- 4-year BSc (or 3-year Honors + 1-year MSc) in any subject with at least 1-year PGD in CSE/IT or equivalent

Credit Requirements:

Academic Background	Foundation Courses (Cr. Hrs.)	Core Courses (Cr. Hrs.)	Research Project (Cr. Hrs.)	Total (Cr. Hrs.)
BSc in CSE/ IT or equivalent	6.0	21.0	3.0	24.0
Others	15.0	21.0	3.0	24.0

Foundation Courses:

Course Code	Course Title
EMCS 601	Structured Programming Language
EMCS 602	Object Oriented Programming
EMCS 603	Discrete Mathematics
EMCS 604	Data Structures and Algorithms
EMCS 605	Digital Logic Design
EMCS 606	Operating Systems
EMCS 607	Data Communication
EMCS 608	Numerical Methods
EMCS 609	Signals and Systems
EMCS 610	Computer Graphics
EMCS 611	System Design and Software Engineering
EMCS 612	Database Systems
EMCS 613	Simulation and Modeling

Fee Structure:

Description	Fees (BDT)
Admission Fee	15,000/-
Development Fee	15,000/-
Seminar Fee	3,000/-
Semester Fee (5,000/- per semester)	5,000/- × 3 = 15,000/-
Tuition Fee (2,500/- per credit)	2,500 × 30 =75,000/- (with maximum waiver) 2,500 × 39 = 97,500/- (without waiver)
Total Cost:	1,23,000 /- ~ 1,45,500/-

Core Courses:

Course Code	Course Title
EMCS 651	Computer Architecture
EMCS 652	Object Oriented Software Development
EMCS 653	Advanced DBMS
EMCS 654	E-Business
EMCS 655	Web Design and Programming
EMCS 656	Artificial Intelligence and Expert Systems
EMCS 657	Parallel Systems
EMCS 658	Mobile and Wireless Communication
EMCS 659	Network Management
EMCS 660	Software Project Management & Quality Assurance
EMCS 661	Computer and Communication Networks
EMCS 662	Digital Signal Processing
EMCS 663	Digital Image Processing
EMCS 664	Computer Vision
EMCS 665	Medical Imaging
EMCS 666	Data Mining
EMCS 667	Industrial Automation Systems
EMCS 668	Health Informatics
EMCS 669	Management Information System
EMCS 670	Software Testing
EMCS 671	Computer Ethics and Cyber Law
EMCS 672	Neuroinformatics
EMCS 673	Internet Engineering and IP technology
EMCS 674	Switching and Routing Technology
EMCS 675	Network Security
EMCS 676	Distributed Computing System
EMCS 677	Neural Network
EMCS 678	Embedded System Engineering
EMCS 679	Parallel Processing
EMCS 680	Advanced Processor Architecture
EMCS 681	Bio-Informatics
EMCS 682	Information Theory and Coding System
EMCS 683	Adaptive Signal Processing
EMCS 684	Telecommunication Network Planning & Optimization
EMCS 685	Telehealth
EMCS 600	Research Project

Admission Procedure:

A candidate satisfying the requirements for admission as set forth by the program authority shall have to sit for a test on a scheduled date. The duration of the admission test will be 1 hour. The test will be comprise of MCQ, IQ and short type questions related to Mathematics, Computer Fundamentals, Programming, Database, Computer Networks and English. Based on the obtained marks in the test a Merit list and a Waiting list will be published in the program website/notice board.