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Lecturer

CSE

B.Sc. (Engg.) in Computer Science & Engineering



মেট্রোপলিটন ইউনিভার্সিটি
Metropolitan
UNIVERSITY

Founder & Chairman

Dr. Toufique Rahman Chowdhury

Vice Chancellor

Professor Md. Saleh Uddin PhD



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General Information

The waves of Globalisation of knowledge, its expansion and dissemination have brought about a radical shift in the concept of University. A further shift is registered in dismantling the age-old notion that the state alone is to shoulder the burden of tertiary education and accommodating the private universities to share this national duty, of course, without making any compromise in academic excellence and other matrices of university education is the call of the hour.

Metropolitan University joins this historic shift to bring quality university education at affordable cost to the doorsteps of the students. Under the leadership of Dr. Toufique Rahman Chowdhury, Founder Chairman, Board of Trustees and with the approval of the Ministry of Education under the Private University Act of 1992 (which was amended in 1998) Metropolitan University came into being on 3rd May 2003. Metropolitan University (MU) is situated in Sylhet, Bangladesh.

The Programme

The B. Sc. Engineering (CSE) programme is a 48 (forty-eight)-month study of 12 semesters for regular students. A student should complete at least 150 credits to be a graduate. The program is intended for students who want to obtain a sound theoretical and technical knowledge in Computer Science. The job market in Computer Science and Information Technology is robust and growing in a geometric progression in Bangladesh and throughout the world. Over the next several decades, Computer Scientists will continue to reshape our familiar world.

Admission Requirements

- Students who have passed SSC and HSC or any equivalent Public examination with at least two 2nd divisions or minimum GPA 2.5 in each (5.00 scale) may apply for admission. Students who have minimum 2.00 in any one of SSC or HSC and a total of GPA 6.00 may also apply.
- For English medium students, minimum 05 subjects in O level and 02 subjects in A level examinations are required. At least Grade B or GPA 4.0 in four subjects out of the seven subjects and at least Grade C or GPA 3.5 in the remaining three subjects (A=5, B=4, C=3, D=2 & E=1).
- The children of Freedom Fighters with a total of GPA 5.0 in both SSC and HSC or in equivalent Public Examination may apply for admission with Freedom Fighter Certificate of the Government.

Total Credit Hours : 150

Programme Duration : 4 Years

Total Terms : 12 Terms (Each of 4 months)

List of Courses

General Education (GED) Courses

ENG 114	English I
ENG 115	English II
GED 119	Ethics and Cyber Law
GED 129	Functional Bangla
GED 201	Bangladesh Studies
GED 202	History of Emergence of Bangladesh
GED 213	Principles of Economics & Entrepreneurship Development
GED 215	Industrial Management & Financial Accounting
GED 219	Engineering Economics
GED 321	Accounting
GED 421	Industrial Management
GED 431	Business Communication

Science & Mathematics Courses

PHY 111	Physics I
PHY 124	Physics II
MAT 112	Differential & Integral Calculus
MAT 123	Differential Equation & Laplace Transform
MAT 135	Matrices, Complex Variable & Fourier Analysis
STA 215	Basic Statistics & Probability
MAT 216	Geometry & Vector Analysis
MAT 235	Numerical Methods

Core Courses

CSE 121	Structured Programming
CSE 122	Structured Programming Lab
CSE 123	Basic Electrical Engineering
CSE 124	Basic Electrical Engineering Lab
CSE 125	Discrete Mathematics
CSE 127	Basic Electrical and Electronic Engineering
CSE 128	Basic Electrical and Electronic Engineering Lab
CSE 131	Basic Electronics Engineering
CSE 132	Basic Electronics Engineering Lab
CSE 133	Data Structure
CSE 134	Data Structure Lab
CSE 200	Competitive Programming
CSE 211	Digital Logic Design
CSE 212	Digital Logic Design Lab
CSE 213	Computer Organization & Architecture
CSE 215	Communication Engineering
CSE 221	Object Oriented Programming
CSE 222	Object Oriented Programming Lab
CSE 223	Database Management System
CSE 224	Database Management System Lab
CSE 231	Algorithm
CSE 232	Algorithm Lab
CSE 237	Microprocessor & Interfacing
CSE 238	Microprocessor and Interfacing Lab
CSE 300	Project
CSE 311	Computer Networks

CSE 312	Computer Networks Lab
CSE 321	Operating System
CSE 322	Operating System Lab
CSE 323	Web Programming
CSE 327	Theory of Computation
CSE 415	Compiler Construction
CSE 416	Compiler Construction Lab
CSE 417	Software Engineering & Design Pattern
CSE 418	Software Engineering & Design Pattern Lab
CSE 421	Artificial Intelligence
CSE 422	Artificial Intelligence Lab
CSE 427	Introduction to Data Science
CSE 428	Introduction to Data Science Lab
CSE 436	Final Year Project
	Optional Theory 1
	Optional Theory 1 Lab
	Optional Theory 2
	Optional Theory 2 Lab
	Optional Theory 3
	Optional Theory 3 Lab

Optional Courses

CSE 401	Computer Graphics & Image Processing
CSE 402	Computer Graphics & Image Processing Lab
CSE 403	Embedded System Design
CSE 404	Embedded System Design Lab
CSE 413	Optical Communication
CSE 414	Optical Communication Lab
CSE 425	Neural Network
CSE 426	Neural Network Lab
CSE 431	LSI Design
CSE 432	VLSI Design Lab
CSE 441	Digital Signal Processing
CSE 442	Digital Signal Processing Lab
CSE 443	Natural Language Processing
CSE 444	Natural Language Processing Lab
CSE 453	Cloud Computing
CSE 454	Cloud Computing Lab
CSE 455	Contemporary Course on Computer Science
CSE 456	Contemporary Course Lab on Computer Science
CSE 457	Parallel Processing
CSE 458	Parallel Processing Lab
CSE 463	Advanced Database System
CSE 464	Advanced Database System Lab
CSE 465	Digital Image Processing
CSE 466	Digital Image Processing Lab
CSE 469	Bioinformatics Computing
CSE 470	Bioinformatics Computing Lab
CSE 471	Machine Learning
CSE 472	Machine Learning Lab

Credit Transfer

Credit transfer to Universities in the USA, the UK, Australia, New Zealand, Canada and many other European Universities is available for our undergraduate & graduate programmes.