



**Bangladesh University of Engineering & Technology
Dhaka**

CERTIFICATE

In accordance with the statutes of the University

S. Mahmudul Hasan

having satisfactorily fulfilled all the academic requirements and
having received the approval of the Syndicate is hereby awarded,
with all the rights and privileges pertaining thereto, the degree of

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE
AND ENGINEERING**

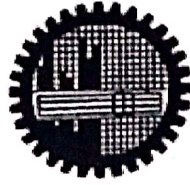
He / She fulfilled all the requirements for the degree in
the month of October, 2018. His / Her grade
point average is 3.65 on a scale of 4.0.

This certificate is signed under the seal of the University
on 14 July, 2019.

Vice-Chancellor

Registrar

Controller of Examinations



Bangladesh University of Engineering & Technology Dhaka

Certificate of Conversion of GPA to Equivalent Marks in Percentage

This is to certify that S. Mahmudul Hasan bearing Student No. 1305043 was a student in the Department of Computer Science and Engineering of Bangladesh University of Engineering and Technology, Dhaka during August , 2014 to October, 2018.

He/She has obtained the degree of Bachelor of Science in Computer Science and Engineering with a GPA of 3.65 on a scale of 4.0.

As per conversion formula adopted by the Academic Council of the University his/her earned GPA may be considered to be equivalent to 77.00% Marks.

Formula and Conversion are shown below:

(a) $\text{Marks} = 79 + 84 (X - 3.75); 3.75 \leq X \leq 4.00$

(b) $\text{Marks} = 44 + 20 (X - 2.00); 2.20 \leq X \leq 3.75$

here X = earned GPA

Calculation: $44 + 20 (3.65 - 2.00)$

$= 44 + 20 (1.65)$

$= 44 + 33.00$

$= 77.00\%$

Dated, Dhaka
September 14, 2019



Controller of Examinations
Bangladesh University of Engineering & Technology
Dhaka



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

TRANSCRIPT OF ACADEMIC RECORD

Name : S. Mahmudul Hasan
 Student Number : 1305043
 Date of Birth : September 19, 1995
 Degree Awarded : Bachelor of Science in Computer Science and Engineering
 abbreviated as B.Sc.Engg.(Computer Science and Engg.)

Sessions Attended¹ : 2013-14 to 2016-17

Date of completion of the degree requirements : October, 2018

Minimum number of Credits required for Degree: 160.00

Total number of Credits earned by the student : 160.00

Grade Point Average (GPA)² earned : 3.65

Highest GPA in the class : 4.00

Number of students in the graduating class : 126

Merit position of the student : 40

Number of graduates in the class with GPA more than the GPA of this student : 39

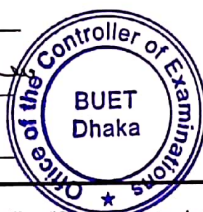
This Transcript contains four pages including this page.

Date Prepared

01/09/2019

Prepared by

Verified by



[Signature]

Controller of Examinations
 Bangladesh University of Engineering & Technology
 DHAKA

1. It may be noted that there is an anomaly regarding "Sessions Attended" and "Date of completion of degree requirements". The anomaly has arisen due to delay in starting an academic session and extension of the academic calendar beyond the stipulated calendar year due to various reasons. Students are normally expected to complete degree requirements within four/five academic sessions which may extend over more than four/five calendar years.

$$2. \text{Grade Point Average (GPA)} = \frac{\sum CiGi}{\sum Ci} = \frac{\text{Summation of (Number of Credits in a Course X Grade Point Earned in that Course)}}{\text{Total Number of Credits Earned}}$$

Maximum Attainable GPA = 4.00

GPA Required for Degree with HONOURS = 3.75

Minimum GPA Required for Award of Degree = 2.20

Grading System

Letter Grade	Grade Point	Numerical Equivalent
A+	4.00	80% and above
A	3.75	75% to below 80%
A-	3.50	70% to below 75%
B+	3.25	65% to below 70%
B	3.00	60% to below 65%
B-	2.75	55% to below 60%

Letter Grade	Grade Point	Numerical Equivalent
C+	2.50	50% to below 55%
C	2.25	45% to below 50%
D	2.00	40% to below 45%
F	0.00	Less than 40%
X	Continuation	
S	Satisfactory	



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

Details of Academic Record

Name: S. Mahmudul Hasan

Student Number: 1305043

Session 2013-14

Level-1 Term-1 (August,2014-February, 2015)

Course No	Course Title	Credits	Grade	Grade Point
CSE 100	Introduction to Computer Systems	2.00	A+	4.00
EEE 163	Introduction to Electrical Engineering	3.00	A+	4.00
EEE 164	Introduction to Electrical Engineering Sessional	1.50	A-	3.50
MATH 141	Differential Calculus and Co-ordinate Geometry	3.00	A	3.75
ME 160	Mechanical Engineering Drawing I	1.50	B+	3.25
ME 165	Basic Mechanical Engineering	3.00	A+	4.00
PHY 102	Physics Sessional	1.50	A+	4.00
PHY 109	Physics (Heat and Thermodynamics, Structure of Matter, Waves and Oscillations, and Physical Optics)	4.00	A+	4.00

Credit Earned: 19.50

Term GPA: 3.87

Cummulative Credits: 19.50

Cummulative GPA: 3.87

Session 2013-14

Level-1 Term-2 (February,2015-September, 2015)

Course No	Course Title	Credits	Grade	Grade Point
CHEM 113	Chemistry	3.00	B	3.00
CHEM 114	Inorganic Quantitative Analysis	1.50	A-	3.50
CSE 103	Discrete Mathematics	3.00	A-	3.50
CSE 105	Structured Programming Language	3.00	B+	3.25
CSE 106	Structured Programming Language Sessional	1.50	A+	4.00
HUM 175	English	3.00	A-	3.50
HUM 272	Developing English Skills Laboratory	1.50	A-	3.50
MATH 143	Integral Calculus, Ordinary and Partial Differential Equations, and Series Solutions	4.00	B	3.00

Credit Earned: 20.50

Term GPA: 3.33

Cummulative Credits: 40.00

Cummulative GPA: 3.59

Session 2014-15

Level-2 Term-1 (August,2015-February, 2016)

Course No	Course Title	Credits	Grade	Grade Point
CSE 201	Object Oriented Programming Language	3.00	A+	4.00
CSE 202	Object Oriented Programming Language Sessional	1.50	A+	4.00
CSE 203	Data Structures	3.00	A+	4.00
CSE 204	Data Structures Sessional	0.75	A+	4.00
CSE 205	Digital Logic Design	3.00	A-	3.50
CSE 206	Digital Logic Design Sessional	1.50	A-	3.50
EEE 263	Electronic Devices and Circuits	4.00	A	3.75
EEE 264	Electronic Devices and Circuits Sessional	1.50	A+	4.00
MATH 241	Complex Variable and Statistics	3.00	B+	3.25

Credit Earned: 21.25

Term GPA: 3.74

Cummulative Credits: 61.25

Cummulative GPA: 3.64

Date Prepared

01/09/2019

Prepared by

Verified by



Controller of Examinations
 Bangladesh University of Engineering & Technology
 DHAKA



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

Details of Academic Record

Name: S. Mahmudul Hasan

Student Number: 1305043

Session 2014-15

Level-2 Term-2 (February, 2016-August, 2016)

Course No	Course Title	Credits	Grade	Grade Point
		3.00	A+	4.00
CSE 207	Algorithms	0.75	A+	4.00
CSE 208	Algorithms Sessional	3.00	B+	3.25
CSE 209	Digital Electronics and Pulse Techniques	1.50	A	3.75
CSE 210	Digital Electronics and Pulse Techniques Sessional	2.00	A-	3.50
CSE 211	Theory of Computation	1.50	A+	4.00
CSE 214	Assembly Language Programming	3.00	B+	3.25
EEE 269	Electrical Drives and Instrumentation	1.50	A	3.75
EEE 270	Electrical Drives and Instrumentation Sessional	4.00	B+	3.25
MATH 243	Matrices, Vectors, Fourier Analysis, and Laplace Transforms			

Credit Earned: 20.25 Term GPA: 3.54

Cummulative Credits: 81.50 Cummulative GPA: 3.62

Session 2015-16

Level-3 Term-1 (August, 2016-February, 2017)

Course No	Course Title	Credits	Grade	Grade Point
		0.75	A+	4.00
CSE 300	Technical Writing and Presentation	3.00	A+	4.00
CSE 303	Database	1.50	A+	4.00
CSE 304	Database Sessional	3.00	A	3.75
CSE 305	Computer Architecture	4.00	B+	3.25
CSE 307	Software Engineering and Information System Design	1.50	A+	4.00
CSE 308	Software Engineering and Information System Design Sessional	3.00	A-	3.50
CSE 309	Compiler	0.75	A+	4.00
CSE 310	Compiler Sessional	3.00	A-	3.50
CSE 311	Data Communication I			

Credit Earned: 20.50 Term GPA: 3.67

Cummulative Credits: 102.00 Cummulative GPA: 3.63

Session 2015-16

Level-3 Term-2 (February, 2017-September, 2017)

Course No	Course Title	Credits	Grade	Grade Point
CSE 301	Mathematical Analysis for Computer Science	3.00	B+	3.25
CSE 313	Operating System	3.00	A	3.75
CSE 314	Operating System Sessional	1.50	A+	4.00
CSE 315	Microprocessors and Microcontrollers	3.00	A+	4.00
CSE 316	Microprocessors and Microcontrollers Sessional	1.50	A+	4.00
CSE 317	Numerical Methods	3.00	A+	4.00
CSE 321	Computer Networks	4.00	A+	4.00
CSE 322	Computer Networks Sessional	0.75	A	3.75
CSE 324	Software Development	0.75	A+	4.00

Credit Earned: 20.50 Term GPA: 3.84

Cummulative Credits: 122.50 Cummulative GPA: 3.66

Date Prepared

Prepared by

Verified by

01/09/2019
[Signature]
[Signature]



[Signature]

Controller of Examinations
Bangladesh University of Engineering & Technology
DHAKA



BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

Details of Academic Record

Name: S. Mahmudul Hasan

Student Number: 1305043

Session 2016-17

Level-4 Term-1 (September,2017-March, 2018)

Course No	Course Title	Credits	Grade	Grade Point
CSE 400	Project and Thesis	3.00	X	---
CSE 401	Artificial Intelligence	3.00	A+	4.00
CSE 402	Artificial Intelligence Sessional	0.75	A+	4.00
CSE 403	Digital System Design	3.00	A-	3.50
CSE 404	Digital System Design Sessional	1.50	A+	4.00
CSE 433	Digital Image Processing	3.00	B	3.00
HUM 213	Government	2.00	A-	3.50
IPE 493	Industrial Management	3.00	A-	3.50

Credit Earned: 16.25

Term GPA: 3.57

Cummulative Credits: 138.75

Cummulative GPA: 3.65

Session 2016-17

Level-4 Term-2 (March,2018-October, 2018)

Course No	Course Title	Credits	Grade	Grade Point
CSE 400	Project and Thesis	3.00 [+ 3.00]	A+	4.00
CSE 409	Computer Graphics	3.00	B	3.00
CSE 410	Computer Graphics Sessional	0.75	A+	4.00
CSE 471	Machine Learning	3.00	A-	3.50
CSE 472	Machine Learning Sessional	0.75	A+	4.00
CSE 473	Pattern Recognition	3.00	B+	3.25
CSE 474	Pattern Recognition Sessional	0.75	A-	3.50
HUM 275	Economics	2.00	A-	3.50
HUM 371	Financial and Managerial Accounting	2.00	A+	4.00

Credit Earned: 21.25

Term GPA: 3.62

Cummulative Credits: 160.00

Cummulative GPA: 3.65

Date Prepared

01/09/2019

Prepared by

Verified by



[Signature]

Controller of Examinations
Bangladesh University of Engineering & Technology
DHAKA