Bangladesh University of Engineering & Technology
Dhaka

PROVISIONAL CERTIFICATE

Subject to the approval of the Academic Council

Abdus Salam Azad

is declared to have fulfilled the prescribed requirements for the degree of

Bachelor of Science

in

Computer Science and Engineering

on **6 July, 2014**

with a Grade Point Average of **3.95** on a scale of 4.0
and this qualifies him/her for award of the degree with Honours.

Dated, Dhaka

the **10 August, 2014**

Controller of Examinations

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

TRANSCRIPT OF ACADEMIC RECORD

Name	: **Abdus Salam Azad**
Student Number	: **0805030**
Date of Birth	: November 26, 1991
Degree Awarded	: **Bachelor of Science in Computer Science and Engineering** abbreviated as **B.Sc.Engg.(Computer Science and Engg.)**
	(degree awarded with HONOURS)
Sessions Attended[1]	: 2008-09 to 2011-12
Date of completion of the degree requirements	: July, 2014
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	: 3.95
Highest GPA in the class	: 3.97
Number of students in the graduating class	: 153
Merit position of the student	: 3
Number of graduates in the class with GPA more than the GPA of this student	: 3

This Transcript contains four pages including this page.

Date Prepared	06/09/2014
Prepared by	
Verified by	

Controller of Examinations
Bangladesh University of Engineering & Technology
DHAKA

1. It may be noted that there is an anomaly regarding "sessions attented" and "date of completion of degree requirement". 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. Grade Point Average (GPA) = $\dfrac{\Sigma CiGi}{\Sigma Ci}$ = $\dfrac{\text{Summation of (Number of Credits in a Course X Grade Point Earned in that Course)}}{\text{Total Number of Credits Earned}}$

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		Letter Grade	Grade Point	Numerical Equivalent
A+	4.00	80% and above		C+	2.50	50% to below 55%
A	3.75	75% to below 80%		C	2.25	45% to below 50%
A-	3.50	70% to below 75%		D	2.00	40% to below 45%
B+	3.25	65% to below 70%		F	0.00	Less than 40%
B	3.00	60% to below 65%		X	Continuation	
B-	2.75	55% to below 60%		S	Satisfactory	

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

Details of Academic Record

Name: **Abdus Salam Azad**　　　　　　　　　　　　　　　Student Number: **0805030**

Session 2008-09　　　　　　　Level-1 Term-1 (March, 2009-October, 2009)

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+	4.00
MATH 141	Differential Calculus and Co-ordinate Geometry	3.00	A+	4.00
ME 160	Mechanical Engineering Drawing I	1.50	A	3.75
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: 3.98

Cummulative Credits: 19.50　　　　Cummulative GPA: 3.98

Session 2008-09　　　　　　　Level-1 Term-2 (October, 2009-May, 2010)

Course No	Course Title	Credits	Grade	Grade Point
CHEM 101	Chemistry	3.00	A	3.75
CHEM 114	Inorganic Quantitative Analysis	1.50	A+	4.00
CSE 103	Discrete Mathematics	3.00	A+	4.00
CSE 105	Structured Programming Language	3.00	A+	4.00
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+	4.00
MATH 143	Integral Calculus, Ordinary and Partial Differential Equations, and Series Solutions	4.00	B+	3.25

Credit Earned: 20.50　　　　　　Term GPA: 3.74

Cummulative Credits: 40.00　　　　Cummulative GPA: 3.86

Session 2009-10　　　　　　　Level-2 Term-1 (May, 2010-February, 2011)

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+	4.00
CSE 206	Digital Logic Design Sessional	1.50	A	3.75
EEE 263	Electronic Devices and Circuits	4.00	A+	4.00
EEE 264	Electronic Devices and Circuits Sessional	1.50	A+	4.00
MATH 241	Complex Variable and Statistics	3.00	A	3.75

Credit Earned: 21.25　　　　　　Term GPA: 3.95

Cummulative Credits: 61.25　　　　Cummulative GPA: 3.89

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BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

Details of Academic Record

Name: **Abdus Salam Azad**　　　　　　　　　　　　　Student Number: **0805030**

Session 2009-10　　　　　　　　**Level-2 Term-2 (February, 2011-September, 2011)**

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

Credit Earned: 20.25　　　　Term GPA: 3.91

Cummulative Credits: 81.50　　　　Cummulative GPA: 3.90

Session 2010-11　　　　　　　　**Level-3 Term-1 (August, 2011-April, 2012)**

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

Credit Earned: 20.50　　　　Term GPA: 4.00

Cummulative Credits: 102.00　　　　Cummulative GPA: 3.92

Session 2010-11　　　　　　　　**Level-3 Term-2 (April, 2012-February, 2013)**

Course No	Course Title	Credits	Grade	Grade Point
CSE 301	Mathematical Analysis for Computer Science	3.00	A+	4.00
CSE 313	Operating System	3.00	A+	4.00
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+	4.00
CSE 324	Software Development	0.75	A+	4.00

Credit Earned: 20.50　　　　Term GPA: 4.00

Cummulative Credits: 122.50　　　　Cummulative GPA: 3.93

Date Prepared　　06/09/2014

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Bangladesh University of Engineering & Technology
DHAKA

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

Details of Academic Record

Name: **Abdus Salam Azad**   Student Number: **0805030**

Session 2011-12   **Level-4 Term-1 (February, 2013-November, 2013)**

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+	4.00
CSE 404	Digital System Design Sessional	1.50	A+	4.00
CSE 411	Simulation and Modeling	3.00	A+	4.00
HUM 213	Government	2.00	A+	4.00
IPE 493	Industrial Management	3.00	A+	4.00

Credit Earned: 16.25   Term GPA: 4.00

Cummulative Credits: 138.75   Cummulative GPA: 3.94

Session 2011-12   **Level-4 Term-2 (November, 2013-July, 2014)**

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	A+	4.00
CSE 410	Computer Graphics Sessional	0.75	A+	4.00
CSE 471	Machine Learning	3.00	A+	4.00
CSE 472	Machine Learning Sessional	0.75	A+	4.00
CSE 473	Pattern Recognition	3.00	A+	4.00
CSE 474	Pattern Recognition Sessional	0.75	A+	4.00
HUM 275	Economics	2.00	A+	4.00
HUM 371	Financial and Managerial Accounting	2.00	A+	4.00

Credit Earned: 21.25   Term GPA: 4.00

Cummulative Credits: 160.00   Cummulative GPA: 3.95
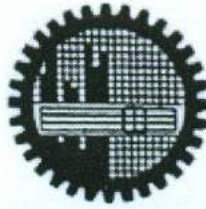
Date Prepared   06/09/2014

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Controller of Examinations
Bangladesh University of Engineering & Technology
DHAKA

Bangladesh University of Engineering & Technology
Dhaka

Certificate of Grading System

This is to certify that **Abdus Salam Azad** bearing Student No. 0805030 was a student in the Department of **Computer Science and Engineering** of Bangladesh University of Engineering and Technology, Dhaka under course system. The Letter Grades and the corresponding Grade Points awarded in the Course System in accordance with the Rule 11 of the Rules and Regulations for Course System of this University are as follows:

Numerical grade	Letter grade	Grade Point
80% or above	A+ (A plus)	4.00
75% to less than 80%	A (A regular)	3.75
70% to less than 75%	A- (A minus)	3.50
65% to less than 70%	B+ (B plus)	3.25
60% to less than 65%	B (B regular)	3.00
55% to less than 60%	B- (B minus)	2.75
50% to less than 55%	C+ (C plus)	2.50
45% to less than 50%	C (C regular)	2.25
40% to less than 45%	D	2.00
Less than 40%	F	0.00
Continuation (for project & thesis design courses)	X	

Dated, Dhaka
September 30, 2014

Controller of Examinations
Bangladesh University of Engineering & Technology
Dhaka

Bangladesh University of Engineering & Technology
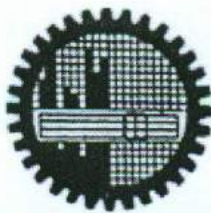## Dhaka

Certificate of Period of Study

This is to certify that **Abdus Salam Azad** bearing Student No. 0805030 was a student in the Department of **Computer Science and Engineering** of Bangladesh University of Engineering and Technology, Dhaka. Owing to reasons beyond the control of the university, the academic sessions could not be completed as per as schedule. The actual time schedules of the academic sessions attended by the student are listed below.

Session	Year	Term	Started	Completed
2008-09	1	1	March, 2009	October, 2009
2008-09	1	2	October, 2009	May, 2010
2009-10	2	1	May, 2010	February, 2011
2009-10	2	2	February, 2011	September, 2011
2010-11	3	1	August, 2011	April, 2012
2010-11	3	2	April, 2012	February, 2013
2011-12	4	1	February, 2013	November, 2013
2011-12	4	2	November, 2013	July, 2014

Dated, Dhaka
September 30, 2014

Controller of Examinations
Bangladesh University of Engineering & Technology
Dhaka

Bangladesh University of Engineering & Technology
Dhaka

Certificate of Medium of Instruction

This is to certify that _____**Abdus Salam Azad**_____ bearing Student No. 0805030 was a student in the Department of _____**Computer Science and Engineering**_____ of Bangladesh University of Engineering and Technology, Dhaka during March, 2009 to July, 2014.

The medium of instruction and examination of this University is English.

Dated, Dhaka
September 30, 2014

Controller of Examinations
Bangladesh University of Engineering & Technology
Dhaka

Bangladesh University of Engineering & Technology
Dhaka

<u>Certificate of Conversion of CGPA/GPA to Class</u>

This is to certify that **Abdus Salam Azad** bearing Student No. 0805030 was a student in the Department of **Computer Science and Engineering** of Bangladesh University of Engineering and Technology, Dhaka during March, 2009 to July, 2014.

He/She has obtained the degree of Bachelor of Science in Computer Science and Engineering with a CGPA of 3.95 on a scale of 4.0.

As per decision adopted by the Academic Council of the University his/her earned CGPA may be considered to be equivalent to **First** Class.

Decision of Academic Council is given below:

Class	CGPA/GPA
First Class	CGPA 3 and above
Second Class	CGPA below 3

Dated, Dhaka
September 30, 2014

Controller of Examinations
Bangladesh University of Engineering & Technology
Dhaka

Bangladesh University of Engineering & Technology
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Certificate of Conversion of GPA to Equivalent Marks in Percentage

This is to certify that **Abdus Salam Azad** bearing Student No. 0805030 was a student in the Department of **Computer Science and Engineering** of Bangladesh University of Engineering and Technology, Dhaka during March, 2009 to July, 2014.

He/She has obtained the degree of Bachelor of Science in Computer Science and Engineering with a GPA of 3.95 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 **95.80%** Marks.

Formula and Conversion are shown below:

(a)   Marks = $79 + 84 (X - 3.75)$; $3.75 <= X <= 4.00$

(b)   Marks = $44 + 20 (X - 2.00)$; $2.20 <= X <= 3.75$

         here X = earned GPA

         Calculation: $79 + 84 (3.95 - 3.75)$

                       $= 79 + 84 (0.20000005)$

                       $= 79 + 16.80$

                       $= 95.80\%$

Dated, Dhaka
September 30, 2014

Controller of Examinations
Bangladesh University of Engineering & Technology
Dhaka

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA, BANGLADESH

This is to certify that *Abdus Salam Azad*, son of Abul Kalam Azad and Morium Begum, Student No. S200805030 of session 2008-2009 was a student of this University from the session 2008-2009 to the session 2011-2012. He fulfilled the requirements of the degree of *Bachelor of Science in Computer Science and Engineering* in the month of July, 2014.

During his stay in the University there is nothing on record against his character or university discipline.

I wish him all the success in life.

Director
Directorate of Students' Welfare (DSW)

Dated: Dhaka
August 27, 2014
BUET, Dhaka -1000, Bangladesh