

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA
TRANSCRIPT OF POSTGRADUATE ACADEMIC RECORDS

Name : **Abdus Salam Azad**
Student No : **1014052021**
Date of Birth : **November 26, 1991**
Date of Admission : **October 26, 2014**
Previous Degree : **BSc. Engg. in CSE from BUET in the year 2014**

| Descriptive Title of Courses | Course No | Credit Hours | Grade | Grade Point |
|--|-----------|--------------|-------|-------------|
| Bioinformatics Algorithms | CSE 6406 | 3 | A+ | 4.0 |
| Data Mining | CSE 6506 | 3 | A+ | 4.0 |
| Network Security | CSE 6813 | 3 | A+ | 4.0 |
| High Dimensional Data Management | CSE 6602 | 3 | A+ | 4.0 |
| Advanced Digital Image Processing | CSE 6706 | 3 | A+ | 4.0 |
| Programming Languages and Systems | CSE 6305 | 3 | A+ | 4.0 |
| Thesis/Project: A Heuristic Initialized Stochastic Memetic Algorithm for MDPVRP with Interdependent Depot Operations | CSE 6000 | 18 | S | -- |

GPA : 4.00

Completed all the requirements for the degree of **Master of Science in Computer Science and Engineering** on **January 14, 2017** and the result was published on **February 12, 2017**

Date Prepared 26/07/2017

Prepared by *Shoushury*

Compared by *Haiduddin*



Controller of Examinations
Bangladesh University of Engineering & Technology,
Dhaka

Credit Hours : One credit hour represents one hour of lecture or three hours of laboratory works each week for one semester.
One semester is half of one academic year.

Letter Grades: A+ = Excellent, A = Very Good, B+ = Good, B = Average, C = Pass, F = Failure, I = Incomplete, S = Satisfactory,
U = Unsatisfactory, W = Withdrawn

Grading System

| Letter Grade | Grade Point | Numerical Equivalent |
|--------------|-------------|----------------------|
| A+(A Plus) | 4.0 | 90% and above |
| A | 3.5 | 80% to below 90% |
| B+(B Plus) | 3.0 | 70% to below 80% |

| Letter Grade | Grade Point | Numerical Equivalent |
|--------------|-------------|----------------------|
| B | 2.5 | 60% to below 70% |
| C | 2.0 | 50% to below 60% |
| F | 0.0 | below 50% |

Qualifying requirements: Credit Hours 36 GPA 2.65



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 Attended¹ : **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 : [Signature]

Verified by : [Signature]



[Signature]
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DHAKA

1. It may be noted that there is an anomaly regarding "sessions attended" 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) =**
$$\frac{\sum CiGi}{\sum Ci} = \frac{\text{Summation of (Number of Credits in a Course X Grade Point Earned in that Course)}}{\text{Total Number of Credits Earned}}$$

Maximum Attainable GPA = 4.00

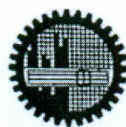
GPA Required for Degree with HONOURS = 3.75

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: **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

Date Prepared

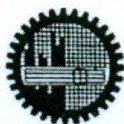
06/09/2014

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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

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**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

Cumulative Credits: 138.75

Cumulative 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

Cumulative Credits: 160.00

Cumulative GPA: 3.95

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