KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH
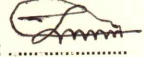
TRANSCRIPT OF ACADEMIC RECORD
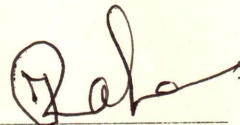
1. Name of the Student	:	**G. M. Iqbal Mahmud**
2. Roll Number	:	1611019
3. Nationality	:	Bangladeshi
4. Date of Enrolment	:	December 04, 2016
5. Degree Awarded	:	**Bachelor of Science in Industrial & Production Engineering,** abbreviated as **B. Sc. Eng. (IPE)**
6. Sessions Attended	:	2016-2017 to 2019-2020
7. Date of Completion of the Degree Requirements	:	April 25, 2022
8. Number of Students in the Class	:	71
9. Minimum Number of Credits Required for the Degree	:	160.00
10. Total Number of Credits Earned by the Student	:	161.75
11. Cumulative Grade Point Average (CGPA) Earned by the Student	:	**3.65**
12. Highest Cumulative Grade Point Average (CGPA) in the Class	:	3.94
13. Number of Students in the Class Equal to or Better CGPA than this Student	:	7
14. Medium of Instruction	:	English

Four (4) additional sheets containing name of the courses studied and grades obtained therein are enclosed. General information are printed overleaf.

Prepared by : ....

Verified by : ....

Date : November 10, 2022

Controller of Examinations

General Information

Grading System:

The letter grade system shall be used to assess the performance of the student and shall be as follows:

Numerical grade	Letter grade		Grade point
80% or above	A+	A Plus	4.00
75% to less than 80%	A	A	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	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	2.25
40% to less than 45%	D	D	2.00
Less than 40%	F		0.00
Continuous Assessment (For courses extended over two regular Terms, such as project/thesis/design, etc.)	X		-
Withdrawal	W		-
Incomplete	I		
Non Credit Course	S/U (Satisfactory/Unsatisfactory)		

Calculation of GPA and CGPA:

Grade point average (GPA) is the weighted average of the grade points obtained in all the courses passed/completed by a student in a Term. 'F' grades will not be counted for GPA calculation. GPA of a Term will be calculated as follows:

$$GPA = \frac{\sum_{i=1}^{n} C_i G_i}{\sum_{i=1}^{n} C_i}$$

Where n is the total number of courses passed by the student, C_i is the number of credits allotted to a particular course i and G_i is the grade point corresponding to the grade awarded for the course.

Cumulative Grade Point Average (CGPA) gives the cumulative performance of the student from first Term up to any other Term to which it refers and is computed by dividing the total weighted grade points ($\sum C_i G_i$) accumulated up to the date by the total credit hours ($\sum C_i$). Both GPA and CGPA will be rounded off to the second place of decimal for reporting.

- Maximum Attainable CGPA= 4.00
- CGPA Required for Degree with HONOURS = 3.75 or better
- Minimum CGPA Required for Award of Degree = 2.20

Notes:

1. *It may be noted that there is an anomaly regarding "sessions attended" and "date of completion of the degree requirements". The anomaly has been created due to delay in starting an academic session and extension of the academic session beyond stipulated calendar year due to various reasons.*

2. *For further information please contact Controller of Examinations, Khulna University of Engineering & Technology, Khulna 9203, Bangladesh or e-mail: <controller@kuet.ac.bd>*

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH

Additional Sheet-1
DETAILS OF ACADEMIC RECORD

Department	: Industrial Engineering and Management	**Roll No.** : 1611019
Student's Name	: G. M. Iqbal Mahmud	**Session** : 2016-2017

First Year First Term
Period : February 2017 to August 2017

Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	IPE 1101	Manufacturing Process - I	3.00	3.75	A
2	CHEM 1111	Chemistry	3.00	3.50	A-
3	HUM 1111	Economics	3.00	3.25	B+
4	MATH 1111	Mathematics - I	4.00	0.00	F
5	PHY 1111	Modern and Solid State Physics	4.00	3.50	A-
6	IPE 1102	Manufacturing Process - I Sessional	1.50	4.00	A+
7	CHEM 1112	Chemistry Sessional	0.75	3.25	B+
8	PHY 1112	Physics Sessional	0.75	3.75	A

Earned Credits	: 16.00	Grade Point Average (GPA)	: 3.55
Cumulative Earned Credits	: 16.00	Cumulative Grade Point Average (CGPA)	: 3.55

First Year Second Term
Period : August 2017 to January 2018

Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	IPE 1201	Manufacturing Process - II	3.00	3.50	A-
2	IPE 1203	Engineering Materials	3.00	3.75	A
3	IPE 1209	Computer Fundamentals & Programming Languages	3.00	3.50	A-
4	HUM 1211	Professional English	3.00	3.25	B+
5	MATH 1211	Mathematics - II	4.00	3.50	A-
6	IPE 1202	Manufacturing Process - II Sessional	1.50	3.75	A
7	IPE 1210	Computer Programming Sessional	1.50	4.00	A+
8	HUM 1212	English Language Sessional	0.75	4.00	A+
9	IPE 1200	Engineering Drawing	1.50	3.75	A

Earned Credits	: 21.25	Grade Point Average (GPA)	: 3.59
Cumulative Earned Credits	: 37.25	Cumulative Grade Point Average (CGPA)	: 3.57

First Year Backlog

Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	MATH 1111	Mathematics - I	4.00	3.00	B

Earned Credits	: 4.00	Grade Point Average (GPA)	: 3.00
Cumulative Earned Credits	: 41.25	Cumulative Grade Point Average (CGPA)	: 3.52

Prepared by : ....

Verified by : ....

Date : November 10, 2022

Controller of Examinations

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH

Additional Sheet-2
DETAILS OF ACADEMIC RECORD

Department	: Industrial Engineering and Management	Roll No.	: 1611019
Student's Name	: G. M. Iqbal Mahmud	Session	: 2017-2018

Second Year First Term
Period : January 2018 to August 2018
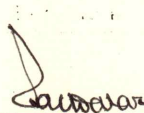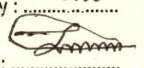
Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	CSE 2111	Data Structures and Algorithms	3.00	3.75	A
2	EEE 2111	Electrical Circuits and Machines	4.00	3.50	A-
3	HUM 2111	Financial, Cost and Management Accounting	3.00	4.00	A+
4	MATH 2111	Mathematics - III	3.00	3.50	A-
5	ME 2111	Engineering Mechanics and Theory of Machines	4.00	3.00	B
6	CSE 2112	Data Structures and Algorithms Sessional	1.50	3.75	A
7	EEE 2112	Electrical Circuits and Machines Sessional	1.50	3.75	A
8	ME 2112	Engineering Mechanics and Theory of Machines Sessional	0.75	3.50	A-

Earned Credits	: 20.75	Grade Point Average (GPA)	: 3.55
Cumulative Earned Credits	: 62.00	Cumulative Grade Point Average (CGPA)	: 3.53

Second Year Second Term
Period : August 2018 to January 2019

Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	IPE 2207	Probability and Statistical Analysis	3.00	4.00	A+
2	IPE 2229	Industrial Psychology and Law	3.00	4.00	A+
3	EEE 2211	Electronics	3.00	3.75	A
4	ME 2213	Mechanics of Solid	3.00	2.50	C+
5	ME 2215	Thermal Engineering and Heat Transfer	4.00	3.50	A-
6	IPE 2200	Computer Aided Design (CAD) Sessional - I	0.75	3.75	A
7	EEE 2212	Electronics Sessional	0.75	3.50	A-
8	ME 2214	Mechanics of Solids Sessional	0.75	3.50	A-
9	ME 2216	Thermal Engineering and Heat Transfer Sessional	1.50	4.00	A+

Earned Credits	: 19.75	Grade Point Average (GPA)	: 3.59
Cumulative Earned Credits	: 81.75	Cumulative Grade Point Average (CGPA)	: 3.54

Prepared by : ....

Verified by : ....

Date : November 10, 2022

Controller of Examinations

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH
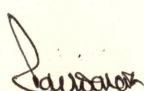
Additional Sheet-3
DETAILS OF ACADEMIC RECORD

Department : Industrial Engineering and Management	**Roll No.** : 1611019
Student's Name : G. M. Iqbal Mahmud	**Session** : 2018-2019

Third Year First Term

Period : February 2019 to August 2019

Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	IPE 3103	Engineering Metallurgy	3.00	3.25	B+
2	IPE 3105	Product Design - I	3.00	4.00	A+
3	IPE 3115	Engineering Economy	3.00	4.00	A+
4	IPE 3119	Operations Management	3.00	4.00	A+
5	ME 3111	Fluid Mechanics and Machinery	3.00	3.50	A-
6	IPE 3100	Computer Aided Design (CAD) Sessional - II	1.50	3.75	A
7	IPE 3104	Engineering Metallurgy Sessional	0.75	3.75	A
8	IPE 3106	Product Design - I Sessional	1.50	3.75	A
9	ME 3112	Fluid Mechanics and Machinery Sessional	0.75	3.50	A-

Earned Credits	: 19.50	Grade Point Average (GPA)	: 3.74
Cumulative Earned Credits	: 101.25	Cumulative Grade Point Average (CGPA)	: 3.58

Third Year Second Term

Period : August 2019 to January 2020

Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	IPE 3205	Product Design - II	3.00	4.00	A+
2	IPE 3217	Operations Research	4.00	3.50	A-
3	IPE 3219	Production Systems Design	3.00	4.00	A+
4	IPE 3221	Quality Management	3.00	4.00	A+
5	IPE 3223	Material Handling and Maintenance Management	3.00	4.00	A+
6	IPE 3200	Business Communication Seminar	0.75	4.00	A+
7	IPE 3206	Product Design -II Sessional	0.75	3.50	A-
8	IPE 3218	Operations Research Sessional	0.75	4.00	A+
9	IPE 3220	Production Systems Design Sessional	0.75	4.00	A+
10	IPE 3222	Quality Management Sessional	0.75	4.00	A+

Earned Credits	: 19.75	Grade Point Average (GPA)	: 3.88
Cumulative Earned Credits	: 121.00	Cumulative Grade Point Average (CGPA)	: 3.63

Prepared by : ....

Verified by : ....

Date : November 10, 2022

Controller of Examinations

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH

Additional Sheet-4
DETAILS OF ACADEMIC RECORD

		Roll No.	: 1611019
Department	: Industrial Engineering and Management	**Session**	: 2019-2020
Student's Name	: G. M. Iqbal Mahmud		
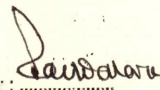
Fourth Year First Term

Period : *

Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	IPE 4109	Management Information System Analysis and Design	3.00	4.00	A+
2	IPE 4125	Machine Tools	3.00	3.75	A
3	IPE 4129	Industrial Management and Entrepreneurship Development	4.00	3.75	A
4	IPE 4019	Logistics and Supply Chain Management	3.00	4.00	A+
5	IPE 4029	Marketing Management	3.00	3.75	A
6	IPE 4000	Project and Thesis	1.50		X
7	IPE 4110	MIS Sessional	0.75	4.00	A+
8	IPE 4126	Machine Tools Sessional	1.50	3.75	A
9	IPE 4002	Term Project	0.75	4.00	A+

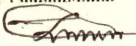|			
Earned Credits	: 19.00	Grade Point Average (GPA)	: 3.85
Cumulative Earned Credits	: 140.00	Cumulative Grade Point Average (CGPA)	: 3.66

N.B. : IPE 4000 will be evaluated at the end of 4th Year 2nd Term.

Fourth Year Second Term

Period : *

Serial No.	Course No.	Course Title	Credit	Grade Point	Grade
1	IPE 4219	Human Factors Engineering and Safety Management	3.00	3.50	A-
2	IPE 4225	Tool Engineering	3.00	3.50	A-
3	IPE 4227	CAM and Robotics	3.00	3.25	B+
4	IPE 4027	Computer Integrated Manufacturing	3.00	3.75	A
5	IPE 4059	Project Management	3.00	3.50	A-
6	IPE 4000	Project and Thesis	3.00+1.50=4.50	4.00	A+
7	IPE 4220	Human Factors Engineering Sessional	0.75	3.50	A-
8	IPE 4226	Tool Engineering Sessional	0.75	3.75	A
9	IPE 4228	CAM and Robotics Sessional	0.75	4.00	A+

Earned Credits	: 21.75	Grade Point Average (GPA)	: 3.63
Cumulative Earned Credits	: 161.75	Cumulative Grade Point Average (CGPA)	: 3.65

N.B. : IPE 4000 continued from previous Term.

* Due to Covid-19 situation, both terms ran together which started on February 2020 and ended on March 2022 for session 2019-2020.

Prepared by : ....

Verified by : ....

Date : November 10, 2022

Controller of Examinations

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH

PROVISIONAL CERTIFICATE

Subject to the Approval of the Academic Council

G. M. Iqbal Mahmud

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

Bachelor of Science in Industrial & Production Engineering

on April 25, 2022

with a Cumulative Grade Point Average of **3.65** *in the scale of 4.00.*

Prepared by :

Checked by :

Date : May 22, 2022

_____
Controller of Examinations

N.B. Original Certificate will not be issued unless this Provisional Certificate is surrendered to the University.

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH

GRADE CONVERSION CERTIFICATE
(Conversion from Cumulative Grade Point Average to Percentage of Total Marks)

This is to certify that

G. M. Iqbal Mahmud

bearing

Roll No. **1611019** *obtained the Degree of*

Bachelor of Science in Industrial & Production Engineering on **April 25, 2022** *His/Her Cumulative Grade Point Average (CGPA) is* **3.65** *in the scale of 4.00. As per the grading scale of CGPA system of this University his/her CGPA is equivalent to* **77.00** *percent of marks.*

Prepared by : ....

Checked by : ....

Date : May 22, 2022

Controller of Examinations

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH

ENGLISH PROFICIENCY CERTIFICATE

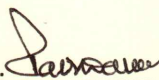*This is to certify that* **G. M. Iqbal Mahmud**
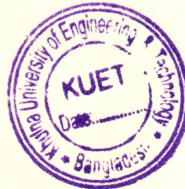
Son/Daughter of **Md. Saiful Islam Patwary**

obtained his/her Bachelor of Science in Industrial & Production Engineering Degree from Khulna University of Engineering & Technology on **April 25, 2022** *with a Cumulative Grade Point Average of* **3.65** *in the scale of 4.00.*

The medium of instruction in this University is English. He/She will be able to conduct research or higher studies in English.
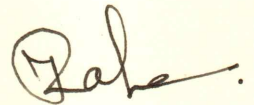
I wish him/her all the success in life.

Prepared by : ....

Checked by : ....

Date : May 22, 2022

Controller of Examinations

KHULNA UNIVERSITY OF ENGINEERING & TECHNOLOGY
BANGLADESH

TESTIMONIAL

This is to certify that

G. M. Iqbal Mahmud

Son/Daughter of   **Md. Saiful Islam Patwary**

was a student of Khulna University of Engineering & Technology, from the session **2016-2017** *to* **2019-2020**

He/She fulfilled the requirements of the degree of **Bachelor of Science in Industrial & Production Engineering** *from this University, on* **April 25, 2022** *and obtained CGPA* **3.65** *in the scale of 4.00. During his/her stay in this University, there is nothing on record against his/her character or University discipline.*
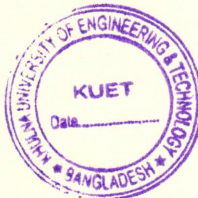
I wish him/her all the success in life.
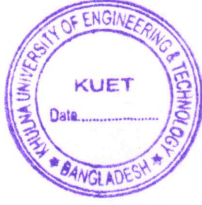
Prepared by :

Checked by :

Date : May 22, 2022

Director (Students' Welfare)

Office of the Director (Student Welfare)
Khulna University of Engineering & Technology
Khulna 9203, Bangladesh

পরিচালক (ছাত্র কল্যাণ) এর কার্যালয়
খুলনা প্রকৌশল ও প্রযুক্তি বিশ্ববিদ্যালয়
খুলনা ৯২০৩, বাংলাদেশ।

KUET/DSW/22/10936   Date: 06/06/2022

Character Certificate

This is to certify that **G. M. Iqbal Mahmud** S/O. Md. Saiful Islam Patwary and Ayesa Akter bearing Roll No. **1611019** was a student of Department of Industrial Engineering & Management in this University during the sessions 2016-2017 to 2019-2020. He was found obedient, regular and hard working. He did not take part in any activity subversive to the state or of discipline. During his stay in this University, there is nothing on record against his character or University discipline. He bears a good moral character.

I wish him every success in life.

06.06.2022

Director (Students' Welfare)
Khulna University of Engineering & Technology
Khulna-9203.