

Masterurkunde

Master's Degree Certificate

Frau **Nawrin Layla**

geboren am 27. April 1989 in Dhaka

hat ihr Studium an der Hochschule für Technik und Wirtschaft Berlin
und der Metropolia University of Applied Sciences

im Masterstudiengang

Construction and Real Estate Management

erfolgreich absolviert.

Ihr wird der akademische Grad

Master of Science (M.Sc.)

verliehen.

Sie ist gem. § 1 Nr. 1 Buchst. a) der Neufassung des Ingenieurgesetz (IngG) vom 01. November 2011
(GVBl. S. 690) berechtigt, die Berufsbezeichnung Ingenieurin zu führen.

Berlin, den 08. Dezember 2021



Der Präsident der HTW Berlin



(Prägesiegel)



Die Präsidentin der Metropolia UAS

Masterzeugnis

Master's Degree – Grade Transcript

This is to certify that

Ms **Nawrin Layla**

born on 27 April 1989 in Dhaka

has completed the Master's degree course in

Construction and Real Estate Management

at the Hochschule für Technik und Wirtschaft Berlin - University of Applied Sciences

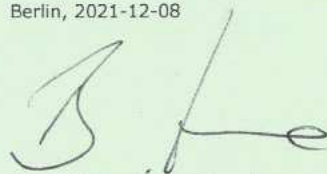
and at the Metropolia University of Applied Sciences.

Overall grade achieved in the Master's degree course:

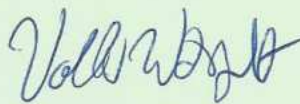
» **good** « (2,5)



Berlin, 2021-12-08



Head of Examination Board



Dean of the HTW Berlin



Dean of the Metropolia UAS

Grade Transcript for Ms Nawrin Layla

Grades achieved in degree modules:

Advanced Mathematical Methods in Economics and Management	very good
Product Modelling	satisfactory
Life Cycle Analysis and Facility Management	good
International Site Management	sufficient
Renovation and Reconstruction	very good
Applied Product Modelling	good
European Life Cycle Management	good
Project Management and German Culture	sufficient
Financial Mathematics and Management	
Information Systems	sufficient
Project Development	good
International Tendering, Construction and Real Estate Contract Administration	satisfactory
Finnish Culture, Intercultural Working and Cooperation, Research Work	very good
Business English	good

Specialised Elective Modules and Projects

Sustainable Development in Construction and Real Estate Management	good
Case Studies 1: Building and Refurbishment	good
Case Studies 2: International Management	satisfactory
Case Studies 3: International Business	good
Case Studies 4: Real Estate Technology	good

Topic of Master's Thesis:

Building Performance Analysis for Sustainable Indoor Environment and Energy Efficient Design

Assessment of Master's Thesis	satisfactory
Assessment of Final Oral Examination	good

* Accredited grade

Possible grades in degree modules:
very good, good, satisfactory, sufficient.

Possible overall grades:
"excellent", "very good",
"good", "satisfactory",
"sufficient".

The Master's degree course has been completed in accordance with the Study and Examination Regulations in effect on 2015-07-29, published in Amtliches Mitteilungsblatt der HTW Berlin (Official Information Bulletin), No. 40/15, on 2015-09-30, and in the Memorandum of the Board of Directors of the Metropolia UAS from 2015-09-16.

North South University

UPON RECOMMENDATION OF THE

School of Engineering and Applied Sciences

AND BY THE AUTHORITY VESTED IN THE BOARD OF TRUSTEES OF THE NORTH SOUTH UNIVERSITY
AND THE BOARD OF GOVERNORS OF THE NORTH SOUTH UNIVERSITY FOUNDATION UNDER THE PRIVATE UNIVERSITY ACT 2010
HAS CONFERRED THE DEGREE OF

Bachelor of Architecture

UPON

Nawrin Lagla

WITH ALL RIGHTS, PRIVILEGES AND OBLIGATIONS PERTAINING THERETO.

AWARDED AT NORTH SOUTH UNIVERSITY IN DHAKA, BANGLADESH

ON THE EIGHTEENTH DAY OF JUNE IN THE YEAR TWO THOUSAND AND THIRTEEN.


CHAIRMAN
BOARD OF TRUSTEES
NORTH SOUTH UNIVERSITY




VICE CHANCELLOR


REGISTRAR



NORTH SOUTH UNIVERSITY

THE FIRST PRIVATE UNIVERSITY IN BANGLADESH

ESTABLISHED BY THE NORTH SOUTH UNIVERSITY FOUNDATION

Plot # 15, Block # B, Bashundhara, Dhaka-1229, Bangladesh. Phone: +88 02 55668200

Fax: +88 02 55668202, email: controller@northsouth.edu, Website: www.northsouth.edu

Office of the Controller of Examinations

To

Student

Official Transcript **09 May 2016**
Student Name : Nawrin Layla
Student ID : 072239 0 10
Date of Birth : 27 Apr 1989
Degree Conferred : Bachelor of Architecture
Minor : December 2012

Summer 2007

Course	Course Title	Cr.	Gr.	CC	CP
ARC241	Architectural Heritage I-World I	3.0	A-	3.0	3.0
ENG102	Introduction to Composition	3.0	F	0.0	0.0
LBA101	Bangladesh: Culture And Heritage	3.0	A	3.0	3.0
Semester Credit : 6.00		TGPA : 3.85		CGPA : 3.85	

Fall 2007

Course	Course Title	Cr.	Gr.	CC	CP
ARC111	Foundation Design Studio I- Artistic Development	4.5	A	4.5	4.5
ARC121	Graphics I-Basic Drawing	3.0	A	3.0	3.0
ARC131	Sources in Architecture I-Artistic Appreciation	3.0	B-	3.0	3.0
ARC133	Parameters in Design I-Aesthetics and Design	1.5	C	1.5	1.5
Semester Credit : 12.00		TGPA : 3.43		CGPA : 3.57	

Spring 2008

Course	Course Title	Cr.	Gr.	CC	CP
ARC112	Foundation Design Studio II-Form and Composition	4.5	A	4.5	4.5
ARC122	Graphics II-Rendering	3.0	A	3.0	3.0
ENG102	Introduction to Composition	3.0	C+	0.0	3.0
SOC101	Introduction to Sociology	3.0	A-	3.0	3.0
Semester Credit : 10.50		TGPA : 3.91		CGPA : 3.69	

Summer 2008

Course	Course Title	Cr.	Gr.	CC	CP
ARC123	Graphics III-Digital Presentation	3.0	A-	3.0	3.0
ARC200	Art, Craft and Design-Observation and Documentation	1.0	A	1.0	1.0
ARC213	Allied Design Studio-Dimension and Product	4.5	A	4.5	4.5
ARC272	Construction II-Technology	3.0	B-	3.0	3.0
Semester Credit : 11.50		TGPA : 3.58		CGPA : 3.66	

Fall 2008

Course	Course Title	Cr.	Gr.	CC	CP
ARC214	Architecture Design Studio I-Function and Analysis	4.5	A	4.5	4.5
ARC242	Architectural Heritage II-World II	3.0	B+	3.0	3.0
ARC271	Construction I-Materials	3.0	D+	3.0	3.0
BSC201	Basic Science Support- Math & Physics	3.0	A-	3.0	3.0
Semester Credit : 13.50		TGPA : 3.18		CGPA : 3.54	

Spring 2009

Course	Course Title	Cr.	Gr.	CC	CP
ARC215	Architecture Design Studio II-Simple Function	4.5	B+	4.5	4.5
ARC281	Building Structures I	2.0	B	2.0	2.0
ENG103	Intermediate Composition	3.0	C	3.0	3.0
ENV107	Introduction to Environmental Science	3.0	B-	3.0	3.0
Semester Credit : 12.50		TGPA : 2.80		CGPA : 3.40	

Summer 2009

Course	Course Title	Cr.	Gr.	CC	CP
ARC261	Environment And Building System I-Climate And Design	3.0	C+	3.0	3.0
ARC282	Building Structures II	2.0	B	2.0	2.0
ARC316	Professional Studies Studio I-Form And Function	4.5	A-	4.5	4.5
ARC334	Parameters in Design II-Theory And Methods	1.5	A	1.5	1.5
Semester Credit : 11.00		TGPA : 3.23		CGPA : 3.38	

Fall 2009

Course	Course Title	Cr.	Gr.	CC	CP
ARC262	Environment And Building System II-Building Physics	3.0	B	3.0	3.0
ARC317	Professional Studies Studio II-Complex Function	6.0	C	6.0	6.0
ARC324	Graphics IV-Working Details	3.0	B-	3.0	3.0
ARC343	Architectural Heritage III- India	3.0	A-	3.0	3.0
Semester Credit : 15.00		TGPA : 2.68		CGPA : 3.26	

Spring 2010

Course	Course Title	Cr.	Gr.	CC	CP
ARC251	Introduction To Urban Design And Environmental Planning	3.0	F	0.0	0.0
ARC263	Environment And Building System III-Building Services	3.0	C	3.0	3.0
ARC318	Professional Studies Studio III-Complex Function	6.0	B+	6.0	6.0
Semester Credit : 9.00		TGPA : 2.87		CGPA : 3.23	

Summer 2010

Course	Course Title	Cr.	Gr.	CC	CP
ARC264	Environment and Building System IV-Design Integration	1.0	C-	1.0	1.0
ARC283	Building Structures III	2.0	A-	2.0	2.0
ARC418	Design And Allied Studies Studio I	6.0	A-	6.0	6.0
ARC455	Advance Urban Design and Planning Applications	3.0	C+	3.0	3.0
Semester Credit : 12.00		TGPA : 3.18		CGPA : 3.22	

Fall 2010

Course	Course Title	Cr.	Gr.	CC	CP
ARC500	Professional Internship (Supervised Training)	1.0	A	1.0	1.0
Semester Credit : 1.00		TGPA : 4.00		CGPA : 3.23	

Spring 2011

Course	Course Title	Cr.	Gr.	CC	CP
ARC419	Design and Allied Studies Studio II	6.0	A	6.0	6.0
ARC437	Professional Practice-Ethics and Society	1.5	C+	1.5	1.5
ARC457	Urbanism and Local Context	3.0	B-	3.0	3.0
ARC466	Ecology and Bio-Climatic Design	3.0	B+	3.0	3.0
Semester Credit : 13.50		TGPA : 3.37		CGPA : 3.24	

Summer 2011

Course	Course Title	Cr.	Gr.	CC	CP
ARC344	Architectural Heritage IV- Bengal	2.0	A	2.0	2.0
ARC445	Contemporary Design Precedents and Analysis	2.0	C	2.0	2.0
ARC453	Human Settlement-Policy and Planning	3.0	D	3.0	3.0
ARC510	Advanced Studies Studio I	4.5	B-	4.5	4.5
Semester Credit : 11.50		TGPA : 2.36		CGPA : 3.17	

Fall 2011

Course	Course Title	Cr.	Gr.	CC	CP
ARC273	Construction III-Workshop	1.0	B-	1.0	1.0
ARC384	Building Structures IV	3.0	A-	3.0	3.0
ARC474	Construction IV-Documents and Management	3.0	C+	3.0	3.0
ARC492	Independent Study	1.5	A	1.5	1.5
ARC535	Parameters in Design III - Pedagogy and Discourse	1.5	C	1.5	1.5
ARC596	Thesis Documentation - Research and Development	4.5	B	4.5	4.5
Semester Credit : 14.50		TGPA : 2.98		CGPA : 3.15	

Spring 2012

Course	Course Title	Cr.	Gr.	CC	CP
ARC519	Advanced Studies Studio III-Thesis Project	4.5	B	4.5	4.5
Semester Credit : 4.50		TGPA : 3.00		CGPA : 3.15	

Summer 2012

Course	Course Title	Cr.	Gr.	CC	CP
ARC251	Introduction To Urban Design And Environmental Planning	3.0	B-	3.0	3.0
ARC310	Interior Design Studio	3.0	B+	3.0	3.0
ENG105	Advanced Composition	3.0	B	3.0	3.0
ENV214	Environmental Management	3.0	B-	3.0	3.0
MAT112	Elementary Mathematics	3.0	C-	0.0	3.0
Semester Credit : 12.00		TGPA : 2.93		CGPA : 3.13	

**** Continued on Next Page ****

Transcript Details

Accreditation: North South University has been accredited by the Government of the People's Republic of Bangladesh, and its curricula as well as programs have been approved by the University Grants Commission of Bangladesh. The President of the People's Republic of Bangladesh is the Chancellor of North South University. The Vice Chancellor is an appointee of the President of the Country in his capacity as the Chancellor of the University.

Medium of Instruction; English is the officially approved medium of instruction in North South University.

Academic Calendar: Trisemester system.
 Spring: January - April, 13 weeks
 Summer: May - August, 13 weeks
 Fall: September- December, 13 weeks

Grading System : 0.00 to 4.00 point scale
 Letter grades indicating the quality of course work completed are interpreted as follows:

Numerical Scores	Letter Grade	Grade Points per Credit
93 and above	A Excellent	4.0
90 - 92	A-	3.7
87 - 89	B+	3.3
83 - 86	B Good	3.0
80 - 82	B-	2.7
77 - 79	C+	2.3
73 - 76	C Average	2.0
70 - 72	C-	1.7
67 - 69	D+	1.3
60 - 66	D Poor	1.0
Below 60	F Failure	0.0

Credits for courses with the following grades do not apply toward CGPA calculation:

Grades	Meaning	Grade Value
I	Incomplete	0.0
W	Withdrawal	0.0
WV	Waiver	0.0
X	Research/ Thesis in Process	0.0

- ◆ The transcript shows the grade for each course and a cumulative result for all courses for which the student was enrolled in North South University.
- ◆ Courses that have been waived do not display a grade; they are presented by course and the number of credits.
- ◆ Credits accepted as transfer from other universities are counted towards degree, except for Cumulative Grade Point Average (CGPA) calculation.

- ◆ Cumulative Grade Point Average (CGPA) is calculated by Total Grade Points divided by Total Credits Counted.
- ◆ In case of retaken courses only the better grades have been counted in the CGPA calculation but the grade point of the course previously done shows in the transcripts as 0.0.

Award	CGPA
Gold Medal*	
Summa Cum Laude**	3.80 - 4.00
Magna Cum Laude**	3.65 - 3.79
Cum Laude**	3.50 - 3.64

*The Chancellor's Gold Medal is for the recipients of the highest CGPA for Undergraduate and Graduate programs. This criterion is valid for the year 2003 and onward.

*The Vice Chancellor's Gold Medal is for the recipients of the 2nd highest CGPA for Undergraduate and Graduate programs. This criterion is valid for the year 2003 and onward.

**This criteria is valid for the year 2001 and onward.

Authenticity:

- ◆ Official Transcripts are printed on security papers, with an embossed seal of North South University and are signed by the Controller of Examinations.
- ◆ The face of this document has the name of the University (NSU) in small green type print vertically in the left of the document and it contains a hidden logo of NSU at the centre, visible on exposure to Ultra-violet light.
- ◆ A black and white document is not an original and should not be accepted as an Official Institutional Document.
- ◆ This transcript cannot be released to a third party without the written consent of the student.

If and when in doubt as to the authenticity of this transcript, please do not hesitate to contact with the Office of the Controller of Examinations, North South University, Basundhara, Dhaka 1229, Bangladesh.
 Phone: + 880 2 55668200 Extn 2210. Fax: + 880 2 55668202
 E-mail: controller@northsouth.edu
 Website: www.northsouth.edu



NORTH SOUTH UNIVERSITY

THE FIRST PRIVATE UNIVERSITY IN BANGLADESH

ESTABLISHED BY THE NORTH SOUTH UNIVERSITY FOUNDATION

Plot # 15, Block # B, Bashundhara, Dhaka-1229, Bangladesh. Phone: +88 02 55668200

Fax: +88 02 55668202, email: controller@northsouth.edu, Website: www.northsouth.edu

Office of the Controller of Examinations

To
 Student

Official Transcript : 09 May 2016,
 Student Name : Nawrin Layla,
 Student ID : 072239 0 10
 Date of Birth : 27 Apr 1989
 Degree Conferred : Bachelor of Architecture
 Minor : December 2012

Summary	
Total Credits Counted	: 170.0
Total Credits Passed	: 176.0
Total Grade Points	: 532.5
Cumulative Grade Point Average	: 3.13

***** End of Transcript *****

Controller of Examinations

[Faint, illegible text from the rest of the transcript page, including a signature and multiple rows of data.]

Transcript Details

Accreditation: North South University has been accredited by the Government of the People's Republic of Bangladesh, and its curricula as well as programs have been approved by the University Grants Commission of Bangladesh. The President of the People's Republic of Bangladesh is the Chancellor of North South University. The Vice Chancellor is an appointee of the President of the Country in his capacity as the Chancellor of the University.

Medium of Instruction; English is the officially approved medium of instruction in North South University.

Academic Calendar: Trisemester system.
Spring: January - April, 13 weeks
Summer: May - August, 13 weeks
Fall: September- December, 13 weeks

Grading System : 0.00 to 4.00 point scale
Letter grades indicating the quality of course work completed are interpreted as follows:

Numerical Scores	Letter Grade	Grade Points per Credit
93 and above	A Excellent	4.0
90 - 92	A-	3.7
87 - 89	B+	3.3
83 - 86	B Good	3.0
80 - 82	B-	2.7
77 - 79	C+	2.3
73 - 76	C Average	2.0
70 - 72	C-	1.7
67 - 69	D+	1.3
60 - 66	D Poor	1.0
Below 60	F Failure	0.0

Credits for courses with the following grades do not apply toward CGPA calculation:

Grades	Meaning	Grade Value
I	Incomplete	0.0
W	Withdrawal	0.0
WV	Waiver	0.0
X	Research/ Thesis in Process	0.0

- ◆ The transcript shows the grade for each course and a cumulative result for all courses for which the student was enrolled in North South University.
- ◆ Courses that have been waived do not display a grade; they are presented by course and the number of credits.
- ◆ Credits accepted as transfer from other universities are counted towards degree, except for Cumulative Grade Point Average (CGPA) calculation.

- ◆ Cumulative Grade Point Average (CGPA) is calculated by Total Grade Points divided by Total Credits Counted.
- ◆ In case of retaken courses only the better grades have been counted in the CGPA calculation but the grade point of the course previously done shows in the transcripts as 0.0.

Award	CGPA
Gold Medal*	
Summa Cum Laude**	3.80 - 4.00
Magna Cum Laude**	3.65 - 3.79
Cum Laude**	3.50 - 3.64

*The Chancellor's Gold Medal is for the recipients of the highest CGPA for Undergraduate and Graduate programs. This criterion is valid for the year 2003 and onward.

*The Vice Chancellor's Gold Medal is for the recipients of the 2nd highest CGPA for Undergraduate and Graduate programs. This criterion is valid for the year 2003 and onward.

**This criteria is valid for the year 2001 and onward.

Authenticity:

- ◆ Official Transcripts are printed on security papers, with an embossed seal of North South University and are signed by the Controller of Examinations.
- ◆ The face of this document has the name of the University (NSU) in small green type print vertically in the left of the document and it contains a hidden logo of NSU at the centre, visible on exposure to Ultra-violet light.
- ◆ A black and white document is not an original and should not be accepted as an Official Institutional Document.
- ◆ This transcript cannot be released to a third party without the written consent of the student.

If and when in doubt as to the authenticity of this transcript, please do not hesitate to contact with the Office of the Controller of Examinations, North South University, Basundhara, Dhaka 1229, Bangladesh.
Phone: + 880 2 55668200 Extn 2210. Fax: + 880 2 55668202
E-mail: controller@northsouth.edu
Website: www.northsouth.edu