

ECE Undergraduate Orientation Fall 2022



DEPARTMENT OF
ELECTRICAL & COMPUTER ENGINEERING

School of Engineering and Physical Sciences (SEPS)

North South University

Sunday, 25 September 2022





NO
Welcome
Y

New Students!

North South University

- **North South University:** The first private university in Bangladesh
- **Established:** 1992
- **Formally inaugurated:** 10 February, 1993
3 Programs: Computer Science, Economics, BBA
137 Students in First freshman classes

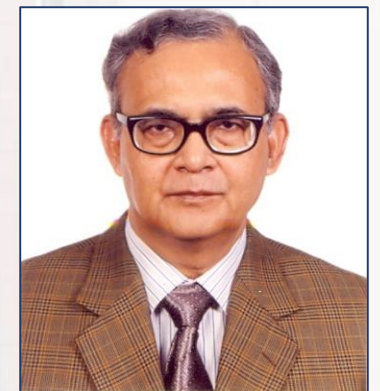
- **Today NSU has:**

4	Schools	600+	Full-time faculty
6	Institutes	200+	Administrative Staffs
17	Academic Departments	26000+	Registered Students
19	Undergrad degree programs	28000+	Alumni base
15	Graduate degree programs	23	Convocations completed

- **Website:** www.northsouth.edu



Prof. Atiqul Islam
Vice-Chancellor, NSU



Dr. M. Ismail Hossain
Pro-Vice-Chancellor, NSU

School of Engineering & Physical Sciences (SEPS)



Prof. Javed Bari
Dean, SEPS
NSU

- Architecture (Arch)
- Civil and Environmental Engineering (CEE)
- Electrical and Computer Engineering (ECE)**
- Mathematics and Physics (DMP)

≈ 6,000
students





Faculty Members



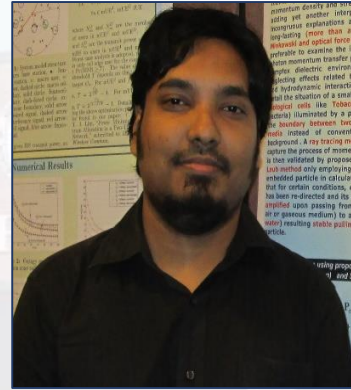
Dr. Nova Ahmed (NvA)



Ms. Silvia Ahmed (SvA)



Dr. Nadia Anam (NIN)



Dr. Mahdy Rahman
Chowdhury (Mdy)



Dr. Shohana Rahman
Deeba (SRD1)



Mr. Mirza Mohammad
Lutfe Elahi (MLE)



Ms. Tanjila Farah (TnF)



Ms. Ashfia Binte Habib
(ABH1)



Dr. Dihan M Nuruddin
Hasan (DMH)



Dr. A S M Jahid Hasan
(New)



Ms. Sharita Hasan
(SSH1)



Mr. Rifat Ahmed Hasan
(RIH)

Faculty Members



Dr. Shazzad Hosain (Szz)



Md. Naqib Imtiaz Hussain (NqH)



Md. Shahriar Hussain (HSM)



Dr. Lamia Iftakhar (LIH)



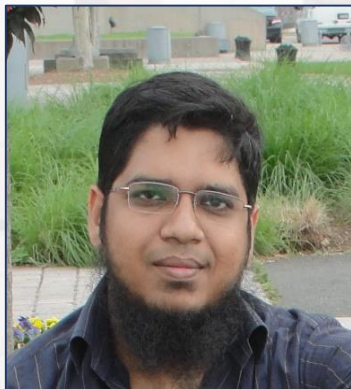
Dr. Md. Shahriar Karim (MSK1)



Mr. Syed Fateh Al Kastur (FKr)



Dr. M Monirujjaman Khan (KMM)



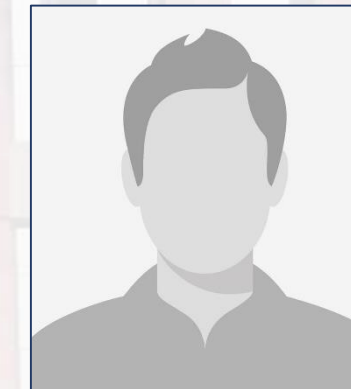
Dr. M Ashrafuzzaman Khan (AzK)



Dr. Riasat Khan (RtK)



Dr. Mohammad Abdul Matin (MtN)



Mr. Tarek Mizan (TIM)



Dr. Nabeel Mohammed (NbM)

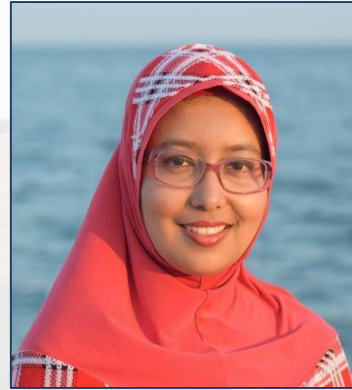
Faculty Members



Dr. Sifat Momen (Sfm1)



Mr. Intisar Tahmid Naheen (ITN)



Dr. Nafisa Noor (NaNr)



Md. Abu Obaidah (AbO)



Mr. M Shafayat Oshman (MOU)



Dr. Rajesh Palit (RjP)



Dr. Mohammad Abdul Qayum (New)



Dr. M Rashedur Rahman (RRn)



Dr. Hafiz Abdur Rahman (HzR)



Dr. Atiqur Rahman (Aqur)



Dr. Ahsanur Rahman (ARa2)



Dr. Tanzilur Rahman (TNR)

Faculty Members



Dr. Shafin Rahman (Sfr1)



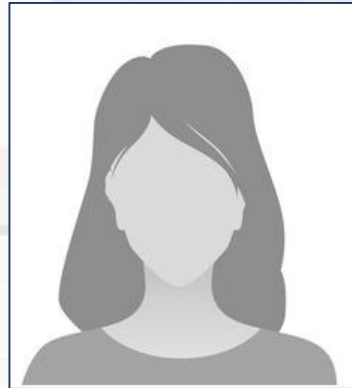
Mr. Iqbalur Rahman
Rokon (IqR)



Dr. M. Rokonzaman
(RkZ)



Dr. Kazi Mohd. Abdus
Salam (KAS)



Ms. Tanzilah Noor
Shabnam (TNS1)



Ms. Meem Tasfia
Zaman (MEZ)

Administrative Staff Members



Mr. Saidur Rahman
Senior Program Officer



Ms. Atiqun Noor
Faculty Assistant



Mr. Sheikh Farid Akter
Faculty Assistant



Mr. Sazzad Chowdhury
Department Secretary



Mr. Kazi Wahiduzzaman
Record Assistant



Md. Shukkur Dewan
Office Support Staff



Mr. Kutub Uddin
Office Support Staff



Md. Saidul and others
Office Support Staff

Programs and Course Curriculum

Electrical and Computer Engineering (ECE)

BAETE
Accredited

- BS in Computer Science and Engineering (CSE)
- BS in Electrical and Electronic Engineering (EEE)
- BS in Electronic and Telecommunication Engineering (ETE)

- MS in Computer Science and Engineering (CSE)
- MS in Electrical and Electronic Engineering (EEE)
- MS in Electronic and Telecommunication Engineering (ETE)



UNDERGRADUATE

Admission

Prospective Students

Transfer Students

Internal Transfers

External Transfers

Academics

Programs

Advising

Policies

Directed Research (498R)

Financial Aid

Internship (498R)

Home > Undergraduate > Academics > Programs

<http://ece.northsouth.edu>

PROGRAMS

The Department of Electrical and Computer Engineering (ECE) currently offers the following undergraduate degree programs:

Effective from Fall 2014 and onward

- Bachelor of Science in Computer Science and Engineering (BSCSE) – 130 credit hours
- Bachelor of Science in Electrical and Electronic Engineering (BSEEE) – 130 credit hours
- Bachelor of Science in Electronics and Telecommunication Engineering (BSETE) – 130 credit hours

The above degree programs refer to the revised curriculum incorporating university-wide broad-based general education components effective from Fall 2014 and later.

Prior to Fall 2014

- Bachelor of Science in Computer Science and Engineering (BSCSE) – 134 credit hours
- Bachelor of Science in Electrical and Electronic Engineering (BSEEE) – 135 credit hours
- Bachelor of Science in Electronics and Telecommunication Engineering (BSETE) – 128 credit hours

Students who enroll under the curriculum prior to Fall 2014 and wish to transfer to the later curriculum (effective from Fall 2014) may apply using the curriculum transfer form through the ECE Program office located at SAC942

Prior to Fall 2012

Students enrolled prior to **Fall 2012** should refer to the appropriate General Catalog or contact the ECE Program Office (SAC942) for assistance.

Degree Requirements

SL #	Category	Credits
1	General Education (GED) / University Core	34
2	Basic Sciences / SEPS Core	38
3	CSE/EEE/ETE Major Core	42
4	CSE/EEE/ETE Major Capstone Design Project (2)	4
5	CSE/EEE/ETE Major Electives (3)	9
6	Open Electives (1)	3
7	Intern/Co-op (minimum 8- 12 weeks)	Non-credit
	Total Credit	130 Credits

Recommended Sequence of Courses for BSCSE

Semester	Course	Credits
1 st	CBE110, MAT116, CSE115+L, ENG102	8
2 nd	MAT125, MAT120, CSE173, ENG103	12
3 rd	CSE215+L, MAT130, PHY107+L, ENG111	14
4 th	CSE225+L, MAT250, PHY108+L, PHI104	13
5 th	CSE231+L, MAT350, EEE141+L, BEN205	13
6 th	CSE299 †, MAT361, HIS102	7
7 th	CSE332, CHE101+L, EEE111+L, HIS103	14
8 th	CSE323, CSE373, CSE311+L, POL101/104	12
9 th	CSE331+L, BIO103+L, CSE327+L, ECO101/104	13
10 th	CSE498, EEE452, CSE425, SOC101/ANT101/ ENV203/GEO205	9
11 th	CSE499A **, ELECT1, ELECT2	7.5
12 th	CSE499B, ELECT3, OPEN ELECT	7.5

† after completion of 60 credits

** after completion of 100 credits and all core courses

Total: 130

Recommended Sequence of Courses for BSEEE

Semester	Course	Credits
1 st	CEE110, MAT116, EEE141+L, ENG102	8
2 nd	MAT125, MAT120, EEE241+L, ENG103	13
3 rd	CSE115+L, MAT130, PHY107+L, ENG111	14
4 th	EEE111+L, MAT250, PHY108+L, PHI104	14
5 th	EEE211+L, MAT350, EEE311+L, BEN205	13
6 th	EEE299 †, MAT361, HIS102	7
7 th	EEE221, CHE101+L, EEE361, HIS103	13
8 th	EEE342+L, EEE363+L, POL101/104	11
9 th	BIO103+L, EEE312+L, EEE362+L, ECO101/104	13
10 th	EEE498, EEE452, EEE321, SOC101/ANT101/ ENV203/GEO205	9
11 th	EEE499A **, ELECT1, ELECT2	7.5
12 th	EEE499B, ELECT3, OPEN ELECT	7.5

† after completion of 60 credits

** after completion of 100 credits and all core courses

Total: 130

How Final Grade Calculated?

- Attendance \approx 5%
- Assignments \approx 5%
- Quizzes (3~4) \approx 20%
- Mid Term Examination \approx 30%
- Projects/Research Papers/Presentations \approx 20%
- Lab Performance \approx 20%
- Final Exam \approx 40%

YOU NEED TO WORK HARD THROUGHOUT A SEMESTER!

Grading System

NSU follows international standard of Letter grading system

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
	I** Incomplete	0.0
	W** Withdrawal	0.0
	X** Continuation	0.0

How to calculate Cumulative Grade Point Average (CGPA)

- Students' grade-point averages are numerical values obtained by dividing the total grade points earned by the credits attempted.
- Only courses' graded A, A-, B+, B, B-, C+, C, C-, D+, D, and F are used to determine credits attempted.

Letter Grade	Grade Point	Course Credit	Point
A	4.0	3.0	$4.0 * 3.0 = 12.0$
A-	3.7	3.0	$3.7 * 3.0 = 11.1$
B+	3.3	2.0	$3.3 * 2.0 = 6.6$

Total point earned : $12.0 + 11.1 + 6.6 = 29.7$

Total credit completed: $3 + 3 + 2 = 8.0$

Grade Point Average (GPA) is $29.7/8.0 = 3.71$

Advising and Registration

- **Undergraduate advisor**

- You will be assigned an EECS faculty as your undergraduate advisor
- Advisor will guide you throughout your NSU life for:
 - Course selection and advising
 - Academic and administrative advise
 - Career development
 - Emotional Support

- Beginning of each semester, Students **must complete their on-line course advising** to add/drop course registration

- Please make applicable **tuition/fees payment** arrangement as required by NSU

Steps to follow:

Advising (partially done) → Accounting (verification) → Goto Bank to pay the amount → Come back to Registration with payment slip → "You are now OK"

- Students who advised for current semester but do not registered or officially drop for the semester will be required to pay full amount before being allowed to advise during future semester.
- Please follow academic calendars as announced by NSU authority

Accident May Happen!!

- **Probation:**

- ✘ Students with a GPA below 2.00 are placed on probation

1st probation – Yellow Warning
2nd probation – Orange Warning
3rd probation – Red Warning
4th Probation - Dismissed



- ✘ NSU students who have been dismissed from the University may apply for readmission with some terms

- **Help is Ready – DO NOT FEEL SHY !!!**

- ✓ We are always ready to help you through

- Academic counseling
- Personal advice

- ✓ NSU Counseling Center (SAC - 4th floor) can be a great help for emotional support



Students' Engagement

- **ECE students are involved in different professional organization and societies such as IEEE & ACM**
 - IEEE NSU Student Branch
 - IEEE RAS SC
 - IEEE PES SC
 - IEEE NSU WIE
 - IEEE NSU IAS
 - ACM Student Chapter
 - NSU ACM-W Student Chapter
 - NSU ACM SIGAPP Student Chapter
- **Students are also engaged various extra-curricular and social activities through student clubs, such as**



INSB Receiving IEEE R-10 exemplary student branch award-2018

1. Art & Photography Club	1. Earth Club	1. Communications Club	1. Finance Club	1. Athletics Club
2. Computer & Engineering Club	2. Public Health & Sciences Club	2. Ethics and Diversity Club	2. Human Resources Club	2. Cine & Drama Club
	3. Pharmaceutical Club	3. Law and Mooting Society	3. Marketing Club	3. Debate Club
		4. Model UN Club	4. MBA Club	4. Sangskritkik Sangathan
			5. Young Economists Forum	5. Social Services Club
			6. Young Entrepreneurs Society	

Technical Segments



Electrathon



Playing with Pixels
(Image Processing &
Computer Vision)



Python Workshop



IoT for Tomorrow

Student Professional Awareness Conference
(SPAC)



IEEE PES, IEEE RAS for Kids (Humanitarian Event)





Gaming Contest



Hour of Code-2018



Linux Workshop



Innovation Challenge Season 7



HackNSU-2019



Drone Workshop



Sports



Art and Cultural



Social Services

Blood Donation



Eid Gift to Needy



Winter Cloth Distribution



Annual Doa Mahfil



Against the Drug and Smoke



Sharing Iftar



On National Days



এন.এস.ইউ এর বুকে বাংলাদেশ



A human map created by NSU students



Learning gets better with sharing.

**“Success is not final; failure is not fatal; it is the courage to continue that counts.”
Winston Churchill**

A photograph of the North South University building, featuring a large arched entrance with the university's name inscribed on the facade. The building is made of reddish-brown brick and has several tall, narrow windows. The sky is blue with some white clouds.

NORTH SOUTH UNIVERSITY

Thank you!
