ECE Undergraduate Orientation
Spring 2023

Department of Electrical & Computer Engineering

School of Engineering and Physical Sciences (SEPS)

North South University

Monday, 23 January 2023

North South University

#601-800

#301-400

Electrical and Electronic Engineering (EEE)

#501-600

Computer Science and Engineering (CSE)

NSU Ranked #1

In Bangladesh with the following international university ranking agencies

1. Times Higher Education (THE): **2023** (Public/Private Universities)
2. QS World University Ranking: **2022, 2021, 2020** (Private)
3. QS Asia University Ranking: **2023, 2022, 2021, 2020, 2019** (Private)
4. Webometrics University Ranking: **2022** (Private)

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	25000+	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 Business and Economics, School of Humanities & Social Sciences, School of Health and Life Sciences

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

"Champion of Robo Combat"
NSU HAU MAU
Seventy Five Thousand Taka Only
Tk. 75,000 /=

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)

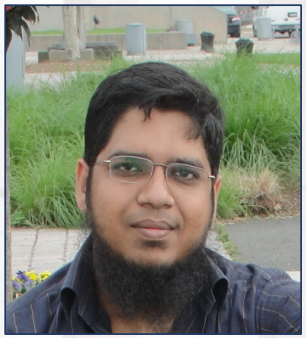
Md.Shahriar Hussain (HSM)

Dr. Lamia Iftekhar (LIH)

Dr. Md. Shahriar Karim (MSK1)

Mr. Syed Fateh Al Kastur (FKr)

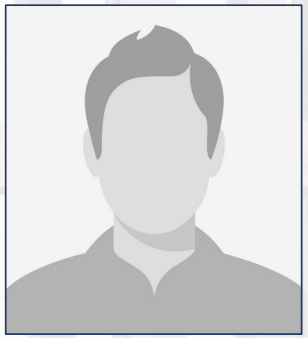
Dr. M Monirujjaman Khan (KMM)



Dr. M Ashrafuzzaman Khan (AzK)

Dr. Riasat Khan (RtK)

Dr. Mohammad Abdul Matin (MtN)

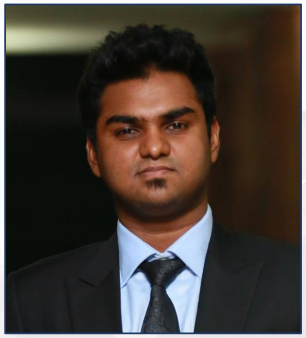


Mr. Tarek Mizan (TIM)

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 (Aqu)

Dr. Ahsanur Rahman (ARa2)

Dr. Tanzilur Rahman (TNR)

Faculty Members

Dr. Shafin Rahman (Sfr1)

Mr. Iqbalur Rahman Rokon (IqR)

Dr. M Rokonuzzaman (RKZ)

Dr. Kazi Mohd. Abdus Salam (KAS)

Ms. Tanzilah Noor Shabnam (TNS1)

Ms. Meem Tasfia Zaman (MEZ)

New Members

Dr. Abu Sayed Latiful Hoque (SLF)

Dr. Fariah Mahajabeen (FMA)

Md. Ishan Arefin Hossain

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

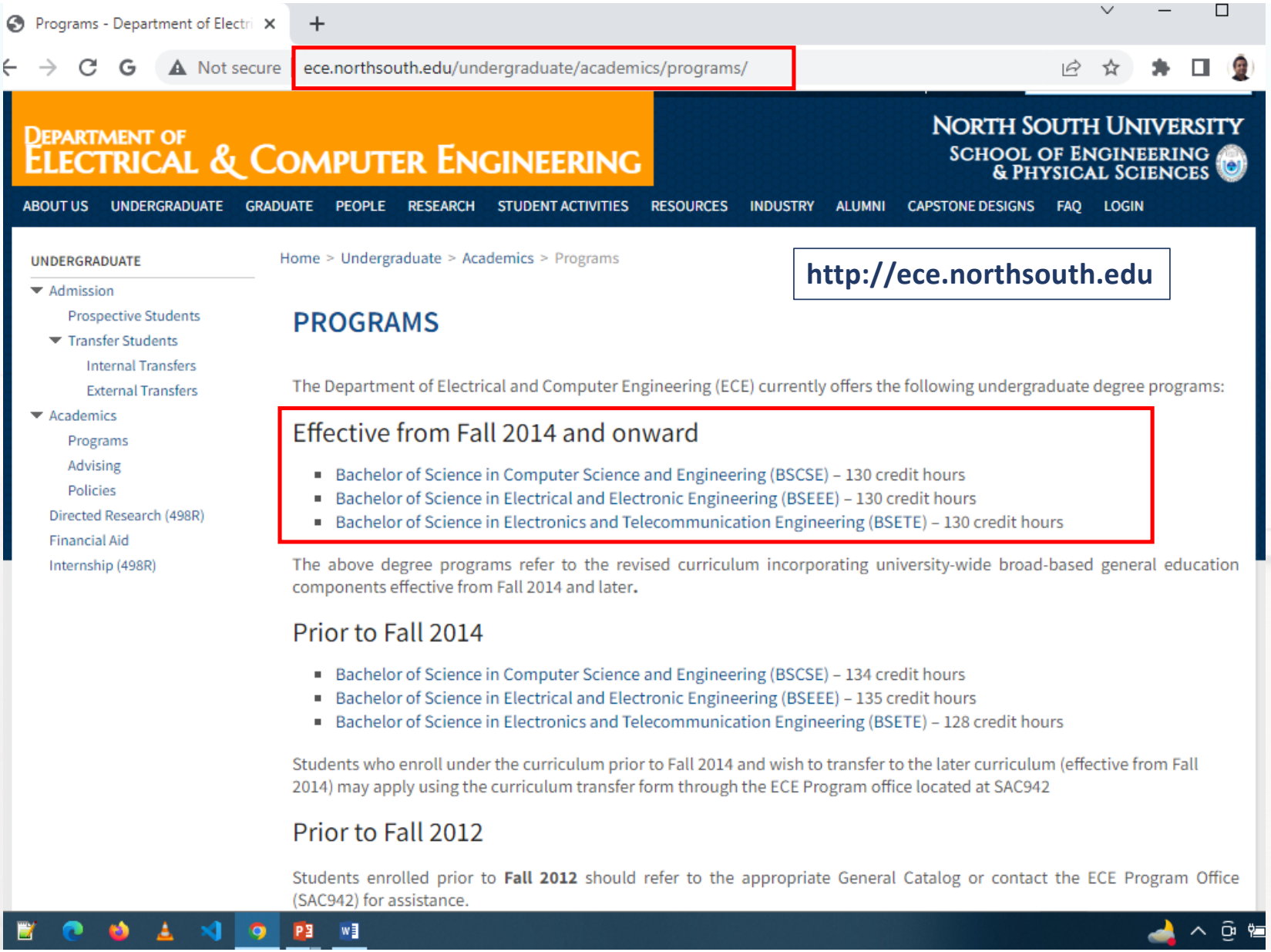
Programs and Course Curriculum

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)


Programs - Department of Electri
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DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING
NORTH SOUTH UNIVERSITY
SCHOOL OF ENGINEERING & PHYSICAL SCIENCES
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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

CSE

	Semester 1	Semester 2
1st Year	ENG102 (3 cr.) MAT116 (0 cr.) MAT120 (3 cr.) CSE115+CL (4 cr.) GED 1 (3 cr.)	ENG103 (3 cr.) MAT125 (3 cr.) MAT130 (3 cr.) CSE215+CL (4 cr.) CSE173 (3 cr.)
2nd Year	ENG111 (3 cr.) GED 2 (3 cr.) MAT250 (3 cr.) PHY107+CL (4 cr.) CSE225+IL (3 cr.) EEE141 + CL (4 cr.)	HIS102 (3 cr.) PHY108 +CL (4 cr.) MAT350 (3 cr.) CSE231+IL (3 cr.) CSE311+IL (3 cr.) EEE111 + CL (4 cr.)
3rd Year	GED 3 (3 cr.) CHE 101+CL (4 cr.) EEE154 (1 cr.) CSE299 (1 cr.) BIO103+CL (4 cr.) CSE373 (3 cr.) CSE332 (3 cr.)	GED 4 (3 cr.) GED 5 (3 cr.) MAT361 (3 cr.) CSE327 (3 cr.) CSE331 + IL (3 cr.) CSE323 (3 cr.)
4th Year	GED: 6 (3 cr.) EEE452 (3 cr.) ELECT1 (3 cr.) CSE425 (3 cr.) CSE499A (1.5 cr.)	ELECT2 (3 cr.) ELECT3 (3 cr.) OPEN ELECT (3 cr.) CSE499B (1.5 cr.) CSE498R (0 cr.)

	Semester 1	EEE Semester 2
1st Year	ENG102 (3 cr.) MAT116 (0 cr.) EEE141+CL (4 cr.) MAT120 (3 cr.) GED 1 (3 cr.)	ENG103 (3 cr.) MAT 125 (3 cr.) MAT130 (3 cr.) EEE241+CL (4 cr.) PHY107+CL (4 cr.)
2nd Year	ENG111 (3 cr.) CSE115+CL (4 cr.) MAT250 (3 cr.) MAT350 (3 cr.) EEE111+CL (4 cr.)	MAT361 (3 cr.) EEE211+IL (3 cr.) EEE221 (3 cr.) EEE311+CL (4 cr.) PHY108 +CL (4 cr.) GED 2 (3 cr.)
3rd Year	EEE361 (3 cr.) EEE154 (1 cr.) HIS102 (3 cr.) CHE 101+CL (4 cr.) EEE299 (1 cr.) GED 3 (3 cr.) GED 4 (3 cr.)	EEE312+IL (3 cr.) EEE342+CL (4 cr.) EEE363+CL (4 cr.) BIO103+CL (4 cr.) GED 5 (3 cr.)
4th Year	EEE362+IL (3 cr.) EEE452 (3 cr.) EEE321+IL (3 cr.) ELECT1 (3 cr.) GED 6 (3 cr.) EEE499A (1.5 cr.)	ELECT2 (3 cr.) ELECT3 (3 cr.) OPEN ELECT (3 cr.) EEE499B (1.5 cr.) EEE498R (0 cr.)

	Semester 1	ETE Semester 2
1st Year	ENG102 (3 cr.) MAT116 (0 cr.) MAT120 (3 cr.) ETE141+CL (4 cr.) GED 1 (3 cr.)	ENG103 (3 cr.) MAT125 (3 cr.) MAT130 (3 cr.) ETE241+CL (4 cr.) PHY107+CL (4 cr.)
2nd Year	ENG111 (3 cr.) GED 2 (3 cr.) MAT250 (3 cr.) MAT350 (3 cr.) ETE111+CL (4 cr.) CSE115+CL (4 cr.)	GED 3 (3 cr.) MAT 361 (3 cr.) ETE211+IL (3 cr.) ETE221 (3 cr.) ETE311+CL (4 cr.) PHY108 +CL (4 cr.)
3rd Year	HIS102 (3 cr.) GED 4 (3 cr.) GED 5 (3 cr.) CHE 101+CL (4 cr.) ETE299 (1 cr.) EEE154 (1 cr.) ETE321+IL (3 cr.)	GED 6 (3 cr.) ETE331+IL (3 cr.) ETE361 (3 cr.) ETE471+IL (3 cr.) BIO103+CL (4 cr.) EEE452 (3 cr.)
4th Year	ETE424+CL (4 cr.) ETE426+CL (4 cr.) ELECT1 (3 cr.) ETE499A (1.5 cr.)	ELECT2 (3 cr.) ELECT3 (3 cr.) OPEN ELECT (3 cr.) ETE499B (1.5 cr.) ETE498R (0 cr.)

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 officially drop the semester will have to pay full amount before advising in the next semester.
- Please follow academic calendars as announced by NSU authority

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Center of Excellence in Higher Education

Academic Calendar

Description	Update Date
Academic Calendar – Spring 2023	11-Jan-2023
Academic Calendar – Fall 2022	10-Oct-2022
Academic Calendar – Summer 2022	08-May-2022

North South University **Tentative Academic Calendar** **10 Jan 2023**

Spring 2023

Date	Day	Event
7-Jan-23	Saturday	**Last day of grade submission (Fall 2022)**
15-Jan-23	Sunday	Online course registration for regular and probation students of Spring 2023: BEGINS Online course add / drop / section change: BEGINS
19-Jan-23	Thursday	Online course registration for regular and probation students of Spring 2023: ENDS Online course add / drop / section change: ENDS
21-Jan-23	Saturday	On campus course registration for newly admitted students of Spring 2023 Last day of section cancellation and merging
23-Jan-23	Monday	**Orientation program for newly admitted undergraduate students of Spring 2023**
24-Jan-23	Tuesday	**Classes begin (Spring 2023)** **Payment of tuition fee: BEGINS**
2-Feb-23	Thursday	**Last day of online drop of courses with 100% refund (when tuition fee fully paid)**
13-Feb-23	Monday	**Last day of online drop of courses with 50% refund (when tuition fee fully paid)**
21-Feb-23	Tuesday	***Holiday- Martyrs Day & International Mother Language Day***
6-Mar-23	Monday	**Last day of payment of 1st installment (50% of tuition fee)** **Last day of online drop of courses with 0% refund and "W" grade (when tuition fee fully paid)**
7-Mar-23	Tuesday	Payment of tuition with late fee of Tk. 2,000/-: BEGINS
8-Mar-23	Wednesday	***Holiday- Shab-e-Barat***
17-Mar-23	Friday	***Holiday- Birthday of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman***
26-Mar-23	Sunday	***Holiday- Independence Day***
14-Apr-23	Friday	***Holiday- Bangla New Year***

How Final Grade Calculated?

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

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

You must retake courses with F or very Low Grades

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

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)

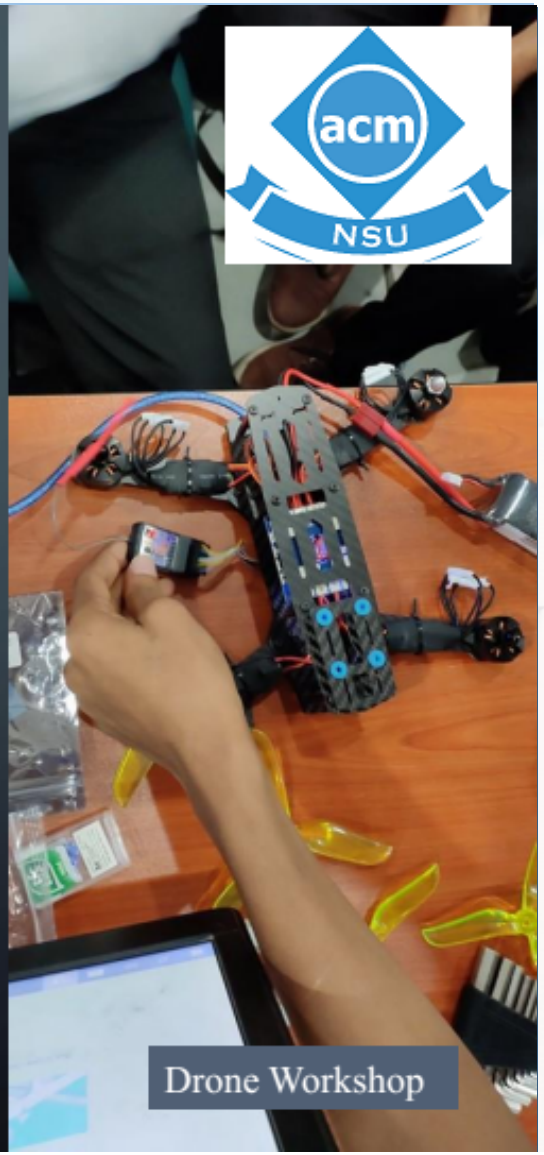
Gaming Contest

Hour of Code-2018

Linux Workshop

Innovation Challenge Season 7

HackNSU-2019



Drone Workshop

Sports

Art and Cultural

Social Services

Annual Doa Mahfil

Blood Donation

Against the Drug and Smoke

Eid Gift to Needy

Sharing Iftar

Winter Cloth Distribution

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

নাহিদা সুলতানার (১৯)

মোটরসাইকেলে বাসের ধাক্কা, বিশ্ববিদ্যালয় ছাত্রীর মৃত্যু

22 Jan 2023

নাদিরা তার বন্ধুর মোটরসাইকেলে ছিলেন। যমুনা ফিউচার পার্কের সামনে ভিক্টর পরিবহনের একটি বাস তাদের মোটরসাইকেলকে ধাক্কা দেয়।

Thank you!