

ABOUT THE SCHOOL

The School of Engineering and Physical Sciences (SEPS) has been a school of NSU since its inception. The growth of SEPS parallels NSU's rise to the top. SEPS, the second-largest and fastest-growing school at NSU, provides a knowledge and skill-based learning environment to its students in the fields of engineering, architecture, and physical sciences. The school originally started its journey in 1993 as the "School of Engineering and Applied Sciences (SEAS)". Later, the SEAS was renamed the "School of Engineering and Physical Sciences" (SEPS) in 2014. At present, SEPS is the home of over 7,500 undergraduate and graduate students in its eight academic programs offered by four academic departments: the Department of Architecture (DoA), the Department of Civil and Environmental Engineering (CEE), the Department of Electrical and Computer Engineering (ECE), and the Department of Mathematics and Physics (DMP). All the engineering programs under SEPS are accredited by the Board of Accreditation for Engineering and Technical Education (BAETE), and the Architecture program is accredited by the Accreditation Standard of the Institute of Architects (ASIAB). NSU has been ranked the #1 university in Bangladesh for ENGINEERING by the prestigious Times Higher Education (THE) World University Rankings 2023 (by Subject) with a Global Rank of 301-400. Furthermore, according to the Times Higher Education World University Rankings 2023, our Civil Engineering program is ranked #1 in Bangladesh (Global rank 301-400), the Electrical and Electronic Engineering program is ranked #1 in Bangladesh (Global rank 301-400), and the Computer Science program is ranked #2 in Bangladesh (Global rank 501-600, trailing the University of Dhaka).

VISION

The School of Engineering & Physical Sciences (SEPS) intends to be a center of excellence in innovation and technological entrepreneurship by building a knowledge and skill-based learning environment for students in the field of engineering, architecture, and physical sciences with adequate technical competency, social responsibility, communication skill, and ethical standard.

MISSION

Our missions are

M1. To maintain international standards in terms of program curricula, instruction style, laboratory and research facilities, faculty recruitment, and student intake.

M2. To provide quality teaching and learning in engineering education that emphasizes innovation and creativity more than classroom teaching, along with better communication skills.

M3. To enhance quality research emphasizing on the greater engagement of practical-oriented study, industry relations, collaboration with reputed universities and research institutes worldwide, etc.

M4. To produce technically competent and socially responsible engineering graduates with the highest ethical standards and human values so that they can serve society holistically.

M5. To gain national and global recognition, it will seek various accreditation and certification as required.

DEPARTMENTS AND PROGRAMS

A summary of the programs currently offered and those planned for future offerings are shown in the following table.

Department

Currently Offered Programs

Program

Credit Hours / Duration

Department of Electrical and Computer Engineering (ECE)

Undergraduate Program:

Bachelor of Science in Computer Science and Engineering (BS CSE)

Bachelor of Science in Electrical and Electronic Engineering (BS EEE)

Bachelor of Science in Electronics and Telecommunication Engineering (BS ETE)

130 Credits /

4 Years

Graduate Program:

Master of Science in Computer Science and Engineering (MS CSE)

Master of Science in Electrical and Electronic Engineering (MS EEE)

Master of Science in Electronics and Telecommunication Eng. (MS ETE)

33 Credits/

2 Years

Minor:

Minor in CSE

Minor in ETE

30 Credits

Department of Civil and Environmental Engineering (CEE)

Undergraduate Program:

Bachelor of Science in Civil and Environmental Engineering (BSCEE)

149 Credits /

4 Years

Graduate Program:

None.

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Department of Architecture (DA)

Undergraduate Program:

Bachelor of Architecture (B. Arch)

176 Credits /

5 Years

Graduate Program:

None

-

Department of Mathematics and Physics (DMP)

Undergraduate Program:

None

Major:

None

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Minor:

Minor in Mathematics

Minor in Physics

21 Credits

15 Credits

STUDENT GROWTH

Over the past five years, the undergraduate student intake steadily grew from 1100 to well over 2000, while the graduate student intake stayed stable.

LABORATORY FACILITIES

The existing and planned (2019 - 2023) laboratory facilities of various departments of the school are shown in the following table.

Department

Existing Laboratories:

Type, Numbers

Planned New Laboratories:

Type, Numbers (by 2023)

ECE

Hardware = 9, Software = 14

Hardware = 8, Software = 4

CEE

Testing = 6, Drawing = 1

Testing Lab = 1, Design Lab = 1, High Performance Computing Lab = 1

DA

Design Studio = 14

Computer Lab = 1

Wood Workshop = 1

Building Material Lab = 1

Design Lab = 1, 3D Printing Lab = 1, Photography Lab = 1, Simulation Lab = 1

DMP

Physics Lab = 4

Physics Lab = 1

Total number:

52

New = 20, Total = 71 by 2023