

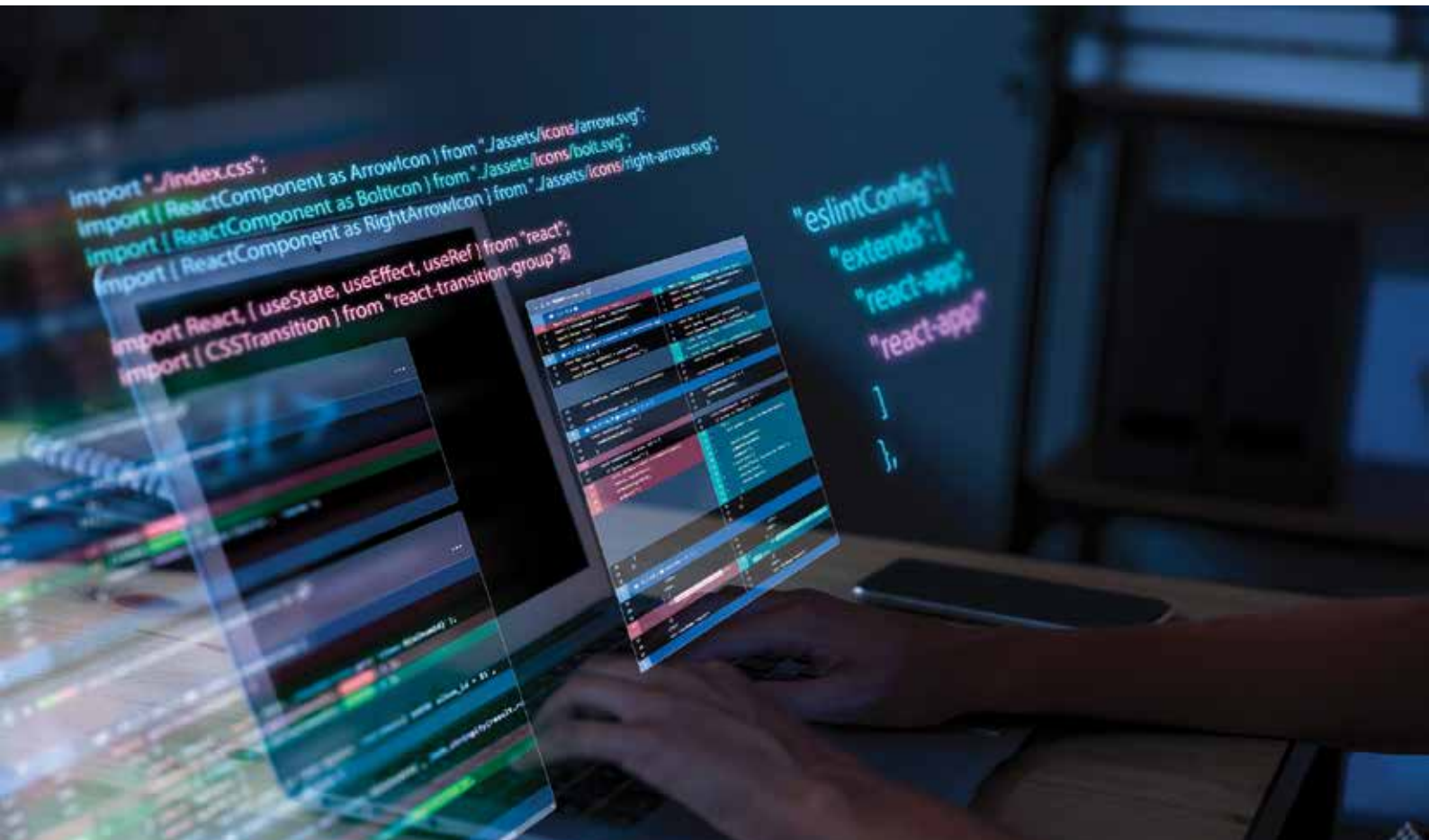


UGC & Govt. Approved

**Sonargaon University (SU)**  
সোনারগাঁও ইউনিভার্সিটি (এসইউ)

WE WILL  
RISE UP  
WE WILL  
SHINE

**WE WILL RISE UP  
WE WILL SHINE**



**Bachelor of  
COMPUTER SCIENCE &  
ENGINEERING(CSE)**  
*at Sonargaon University*  
**Faculty of science and engineering**

[www.su.edu.bd](http://www.su.edu.bd)

[info@su.edu.bd](mailto:info@su.edu.bd)

[f /sonargaon university](https://www.facebook.com/sonargaon.university)

**CONTACT  
US**

**PERMANENT CAMPUS**

Ward no: 75, Dasher Kandi, Khilgaon,  
Dhaka-1219 (Besides Water Treatment Plant)

**GREEN ROAD CAMPUS**

147/I. Green Road, Panthapath  
Tejgaon, Dhaka

**MOHAKHALI CAMPUS**

GP Ja-146, Wireless Gate,  
Mohakhali, Dhaka

# Why Choose CSE?



## Future-Proof Career



The world is changing with technology. CSE helps you learn how to build and use it. Get ready for a smart and digital future.

## High-Paying Jobs

Computer Engineering offers great job chances. Skilled engineers earn high salaries worldwide. Your talent can lead to a successful career.



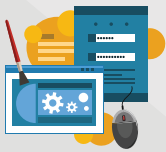
Tech companies are always looking for skilled engineers. A smart choice today can lead to a bright future tomorrow.

## Innovation & Creativity



Computer Engineering lets you turn ideas into real products. You can build apps, games, robots, and smart devices. It's a field where you think, create, and solve problems.

## Industry Collaboration



Gain real-world experience through internships. Work on exciting projects that build your skills. Collaborate with top tech companies and experts.

## Artificial Intelligence (AI)



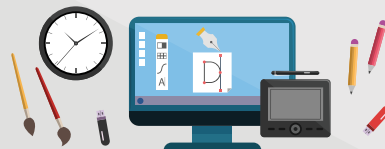
AI helps computers learn and solve problems like humans. It's used in speech, vision, and smart decision-making. Studying AI opens doors to cutting-edge technology jobs.

## Global Opportunities



Computer Engineers are needed all over the world. You can work in top companies or study abroad. This field gives you the chance to build an international career.

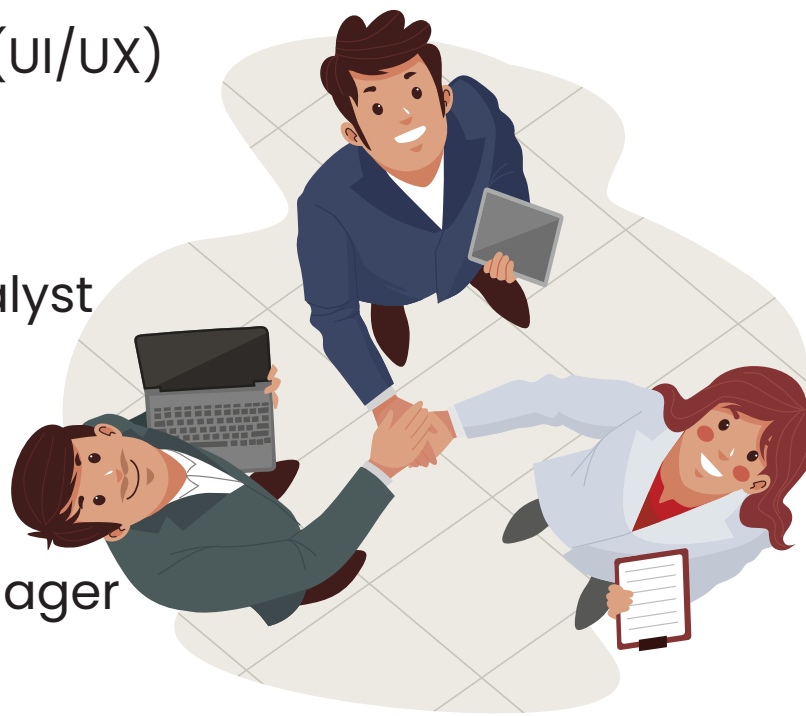
## Web Design & App Developing



Design attractive and easy websites for users. Develop apps that help people in daily life. Learn to code and bring your ideas to life. Create smooth, fast, and user-friendly digital tools. Build skills that are in high demand everywhere.

# CAREER OBJECTIVE OF COMPUTER SCIENCE & ENGINEERING

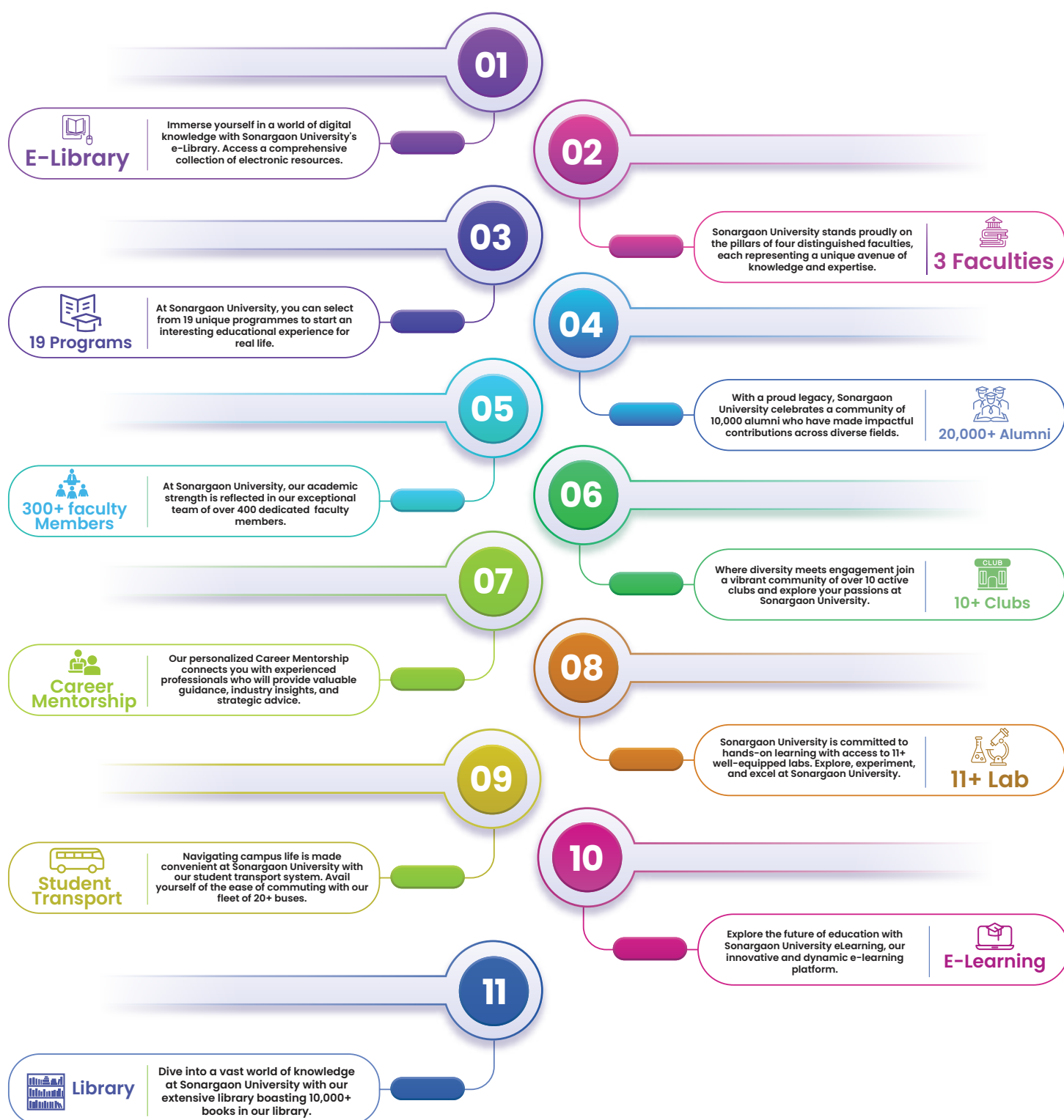
- ✦ AI Software Developer
- ✦ AI Software Engineer
- ✦ AI Web Developer
- ✦ Project Manager
- ✦ User Interface Designer (UI/UX)
- ✦ Solution Architect
- ✦ Data Analyst
- ✦ Application Analyst
- ✦ Information Security Analyst
- ✦ IT Technical
- ✦ Support Officer
- ✦ Business Analyst
- ✦ Network Engineer
- ✦ Information System Manager
- ✦ Database Administrator
- ✦ System Administrator
- ✦ Network Administrator
- ✦ Penetration Tester
- ✦ Web Content Manager
- ✦ Information System Consultant
- ✦ Information System Technician



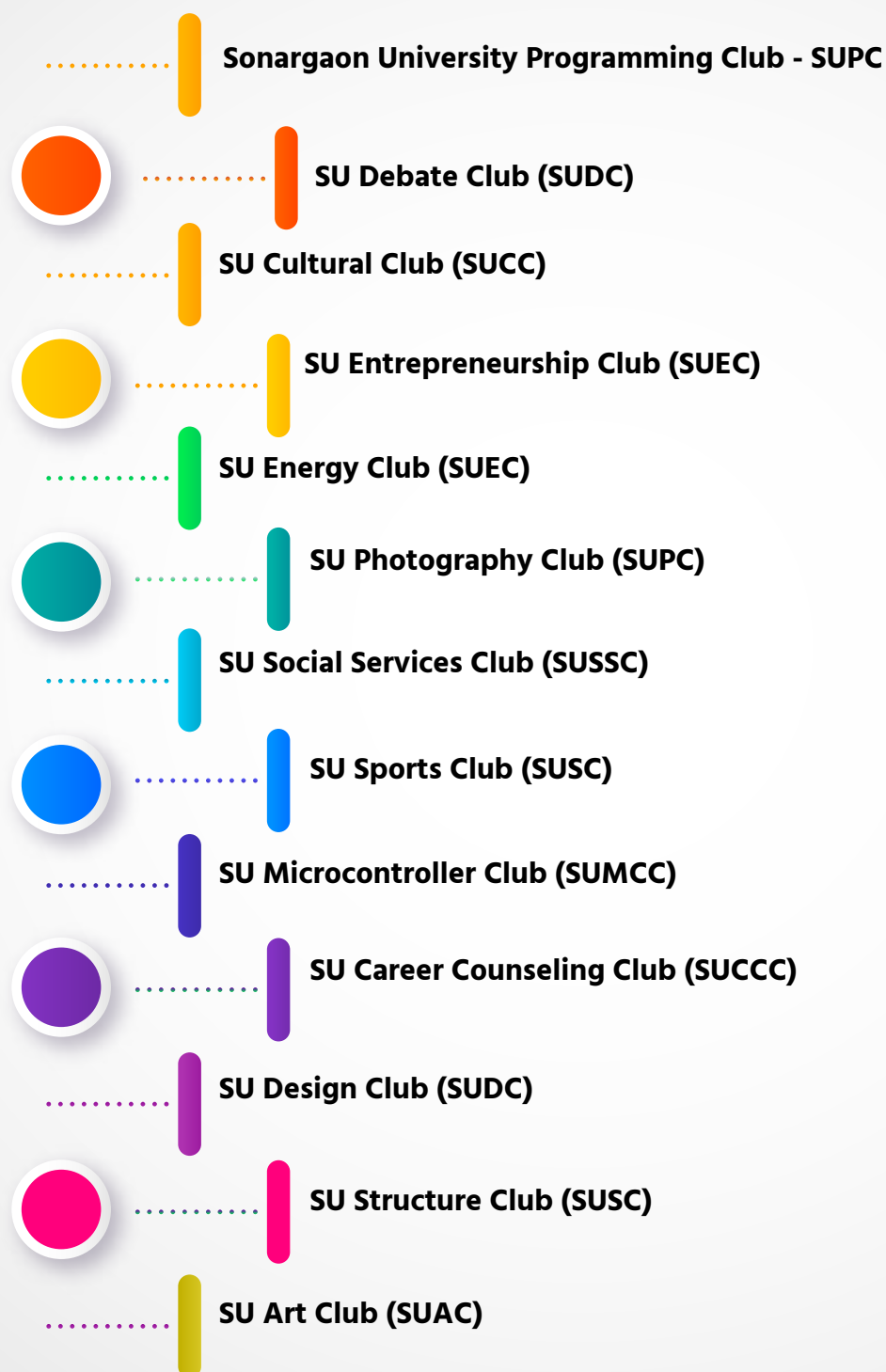
A Computer Science degree opens doors to diverse careers in software development, data science, cybersecurity, AI, and cloud computing. Graduates are hired by global tech firms, banks, startups, and government sectors. With skills in programming and problem-solving, they can also explore freelancing, remote work, or launch their own tech ventures.

# Why Choose Sonargaon University

## A BRIEF OVERVIEW OF SU



# Club list of CSE





# CSE Lab

The CSE Lab is a modern facility equipped with advanced computers, software, and high-speed internet to support students' learning and research. It provides hands-on experience in programming, networking, database management, and hardware experiments. The lab encourages innovation, teamwork, and practical application of theoretical knowledge to prepare students for professional careers.



## CSE Project

Computer Science and Engineering projects focus on solving real-world problems through innovative software and hardware solutions. These projects help students gain practical knowledge in programming, artificial intelligence, data science, networking, and cybersecurity. They improve creativity, teamwork, and research skills, preparing students for future careers in technology and engineering fields.



# Faculty Members of Computer Science & Engineering



**Dean**

Brig. Gen. (Retd)  
Prof. Habibur  
Rahman Kamal, ndc, psc  
**Professor**



**Advisor**

Prof. Dr. Md. Mostofa Akbar  
**Professor**



**Head**

Prof. Bulbul Ahamed  
**Professor**

## Honourable Faculties



Mohammad Naderuzzaman  
Associate Professor



Arifur Rahaman  
Assistant Professor & Coordinator



Abhijit Pathak  
Assistant Professor



Sabrina Tasnim  
Assistant Professor



Salma Tabashum  
Lecturer & Asst. Coordinator



Imran Hossen  
Lecturer & Asst. Coordinator



Sadia Tasnim Barsha  
Lecturer & Exam Coordinator



Murtaza Khan  
Lecturer



Md. Zahidul Hasan  
Lecturer



Md. Ashfaqur Rahman  
Lecturer



Md. Rashedul Islam  
Lecturer



Md. Shamim Hossain  
Lecturer



Labannya Saha  
Lecturer



Oishika Khair Esha  
Lecturer



Jannatul Ferdouse  
Lecturer



Md. Sahidulla  
Lecturer



Nayeem Ullah  
Lecturer



Tasnia Haque Kheya  
Lecturer



Tarunnamoye Kundu  
Lecturer

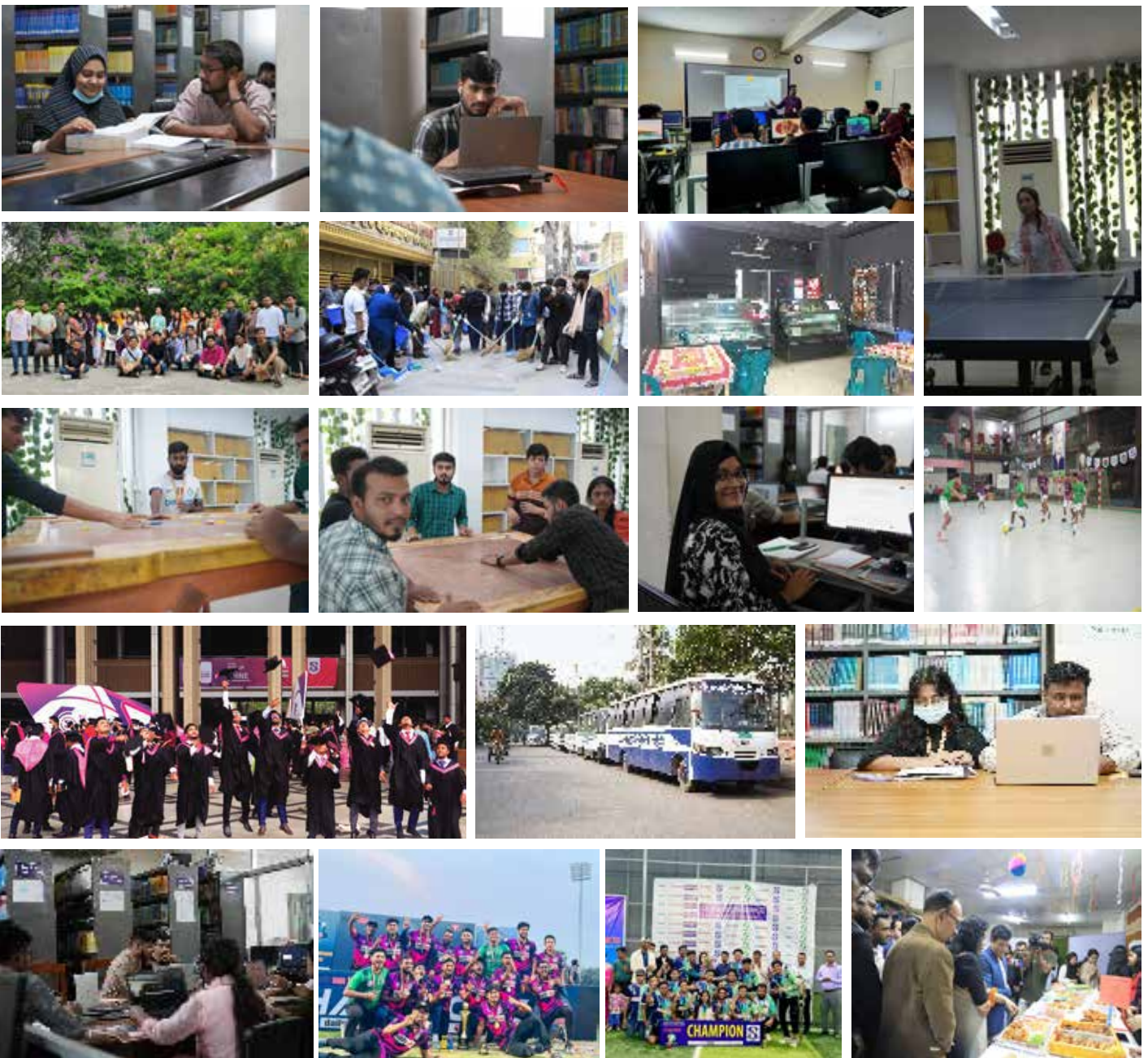


Tarunnamoye Kundu  
Lecturer



# Facilities and Campus life

Sonargaon University offers excellent facilities, including smart classrooms, modern computer and engineering labs, a rich library, and high-speed internet access. The campus provides a vibrant life with cultural programs, seminars, clubs, and sports that enhance creativity and leadership. With dedicated faculty support and a student-friendly atmosphere, SU ensures quality education, personal growth, and professional development for a brighter future.



UP TO  
**100%**  
OFF  
MERIT-BASED  
SCHOLARSHIPS

**SPECIAL  
WAIVER  
ON TUITION  
FEE**

**FREE  
TRANSPORT**





A photograph of a modern, multi-story university building with a glass and concrete facade. The building has several tall, narrow vertical sections and a large central entrance area. The sky is overcast.

**We Will Rise Up, We Will Shine**

**SU**  
**WELCOME**  
**BOX**  
Start Innovative Journey



## **CSE Programme Objectives (SU)**

Welcome to the Department of Computer Science and Engineering (CSE) at Sonargaon University (SU). We are committed to producing skilled and responsible computer engineers. Our curriculum is aligned with top national and international universities. It blends mathematical foundations with modern computing technologies. Students benefit from expert faculty, advanced labs, and a rich library. Graduates are prepared for careers in software, networking, and more. They are equipped to adapt to future technological advancements. We believe our students will contribute to both national and global progress.

# ADMISSION REQUIREMENTS

For eligibility, a minimum GPA of 2.50 is required in both SSC and HSC. However, if the GPA in either SSC or HSC is below 2.50, the combined GPA of SSC and HSC must be at least 6.00. For admission to computer engineering programs, students must have had Physics, chemistry and Mathematics in HSC/A-Level. In this case less than GPA 2 is not permitted for admission. The student must pass the optional subject.

## CREDIT REQUIREMENT AND DURATION OF THE PROGRAM

B.Sc. in Computer Science and Engineering, students will have to complete 162 credits (HSC background) 144 credits(Diploma background) with at least GPA 2.5. If any student fails in any course, she/he will get opportunity to improve the grade by retaking the same in the subsequent semesters. The program consists of 12 semesters, typically spanning four academic years for HSC holders, while diploma holders complete 11 semesters over a duration of 3 years and 8 months.If diploma students study in the regular batch, they must complete 162 credits.

## Waiver/Scholarship of SU

- 🔥 Result-based waiver (SSC and HSC)
- 🔥 Waiver on SGPA (semester result)
- 🔥 Female quota
- 🔥 Need-based waiver
- 🔥 Disability Quota
- 🔥 Sibling (Brother-sister)  
/Husband-wife  
/Issue-parents/Others)



## The courses are offered as shown in the following tables

### 1st Year 1st Semester

| Sl.   | Course Code | Course Title                           | Theory           |         | Sessional        |         |      |
|-------|-------------|----------------------------------------|------------------|---------|------------------|---------|------|
|       |             |                                        | Contact hrs/week | Credits | Contact hrs/week | Credits |      |
| 1.    | Math 1101   | Mathematics I                          | 3.0              | 3.00    |                  |         | 3.00 |
| 2.    | Hum 1201    | Composition, Writing and Communication | 3.0              | 3.00    |                  |         | 3.00 |
| 3.    | CSE 1101    | Computer Fundamentals                  | 2.0              | 2.00    |                  |         | 2.00 |
| 4.    | CSE 1102    | Computer Fundamentals Sessional        |                  |         | 3.0              | 1.50    | 1.50 |
| 5.    | Chem 1101   | Chemistry                              | 3.0              | 3.00    |                  |         | 3.00 |
| 6.    | Chem 1102   | Chemistry Sessional                    |                  |         | 3.0              | 1.50    | 1.50 |
| Total |             |                                        | 11.0             | 11.00   | 6.0              | 3.00    | 14   |

### 1st Year 2nd Semester

| Sl.   | Course Code | Course Title                              | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|-------------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                           | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | Ban 1201    | বাংলা ভাষা ও সাহিত্য                      | 2.0              | 2.00    |                  |         | 2.00          |
| 2.    | Phy 1101    | Physics I                                 | 3.0              | 3.00    |                  |         | 3.00          |
| 3.    | CSE 1201    | Structured Programming Language           | 3.0              | 3.00    |                  |         | 3.00          |
| 4.    | CSE 1202    | Structured Programming Language Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| 5.    | Math 1201   | Mathematics II                            | 3.0              | 3.00    |                  |         | 3.00          |
| Total |             |                                           | 11.0             | 11.00   | 3.0              | 1.50    | 12.5          |

### 1st Year 3rd Semester

| Sl.   | Course Code | Course Title                                          | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|-------------------------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                                       | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | Hum 2201    | Professional Ethics and Environmental Protection      | 2.0              | 2.00    |                  |         | 2.00          |
| 2.    | EEE 1101    | Electrical Engineering and Circuit Analysis           | 3.0              | 3.00    |                  |         | 3.00          |
| 3.    | EEE 1102    | Electrical Engineering and Circuit Analysis Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| 4.    | Phy 1201    | Physics II                                            | 3.0              | 3.00    |                  |         | 3.00          |
| 5.    | Phy 1202    | Physics II Sessional                                  |                  |         | 3.0              | 1.50    | 1.50          |
| 6.    | CSE 1203    | Discrete Mathematics                                  | 3.0              | 3.00    |                  |         | 3.00          |
| Total |             |                                                       | 11.0             | 11.00   | 6.0              | 3.00    | 14            |

### 2nd Year 1st Semester

| Sl.   | Course Code | Course Title                                            | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|---------------------------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                                         | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | Hum 2101    | বাংলাদেশের অভ্যুদয়(History of Emergence of Bangladesh) | 3.0              | 3.00    |                  |         | 3.00          |
| 2.    | Hum 2103    | English Skills Practices                                | 2.0              | 2.00    |                  |         | 2.00          |
| 3.    | Math 2101   | Mathematics III                                         | 3.0              | 3.00    |                  |         | 3.00          |
| 4.    | ME 2100     | Engineering Drawing Sessional                           |                  |         | 3.0              | 1.50    | 1.50          |
| 5.    | CSE 2101    | Object-Oriented Programming I                           | 3.0              | 3.00    |                  |         | 3.00          |
| 6.    | CSE 2102    | Object-Oriented Programming I Sessional                 |                  |         | 3.0              | 1.50    | 1.50          |
| Total |             |                                                         | 11.0             | 11.00   | 6.0              | 3.00    | 14            |

### 2nd Year 2nd Semester

| Sl.   | Course Code | Course Title                     | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|----------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                  | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | EEE 2101    | Electronic Engineering           | 3.0              | 3.00    |                  |         | 3.00          |
| 2.    | EEE 2102    | Electronic Engineering Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| 3.    | Math 2201   | Mathematics IV                   | 3.0              | 3.00    |                  |         | 3.00          |
| 4.    | CSE 2201    | Digital Logic Design             | 3.0              | 3.00    |                  |         | 3.00          |
| 5.    | CSE 2202    | Digital Logic Design Sessional   |                  |         | 3.0              | 1.50    | 1.50          |
| Total |             |                                  | 9.0              | 9.00    | 6.0              | 3.00    | 12.00         |

### 2nd Year 3rd Semester

| Sl.   | Course Code | Course Title                         | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|--------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                      | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | CSE 2203    | Data Structure                       | 3.0              | 3.00    |                  |         | 3.00          |
| 2.    | CSE 2204    | Data Structure Sessional             |                  |         | 3.0              | 1.50    | 1.50          |
| 3.    | CSE 2205    | Database Management System           | 3.0              | 3.00    |                  |         | 3.00          |
| 4.    | CSE 2206    | Database Management System Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| 5.    | CSE 2207    | Theory of Computation                | 3.0              | 3.00    |                  |         | 3.00          |
| Total |             |                                      | 9.0              | 9.00    | 6.0              | 3.00    | 12            |





## 3rd Year 1st Semester

| Sl.   | Course Code | Course Title                                               | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|------------------------------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                                            | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | CSE 3101    | Microprocessor and Assembly Language Programming           | 3.0              | 3.00    |                  |         | 3.00          |
| 2.    | CSE 3102    | Microprocessor and Assembly Language Programming Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| 3.    | CSE 3103    | Algorithms                                                 | 3.0              | 3.00    |                  |         | 3.00          |
| 4.    | CSE 3104    | Algorithms Sessional                                       |                  |         | 3.0              | 1.50    | 1.50          |
| 5.    | CSE 3105    | Numerical Methods                                          | 3.0              | 3.00    |                  |         | 3.00          |
| 6.    | CSE 3106    | Numerical Methods Sessional                                |                  |         | 3.0              | 1.50    | 1.50          |
| Total |             |                                                            | 9.0              | 9.00    | 9.0              | 4.50    | 13.5          |

## 3rd Year 2nd Semester

| Sl.   | Course Code | Course Title                             | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|------------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                          | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | CSE 3100    | Web Programming Sessional                |                  |         | 3.0              | 1.50    | 1.50          |
| 2.    | CSE 3109    | Data Communications                      | 3.0              | 3.00    |                  |         | 3.00          |
| 3.    | Hum 3201    | Engineering Economics                    | 2.0              | 2.00    |                  |         | 2.00          |
| 4.    | Hum 3203    | Financial and Managerial Accounting      | 2.0              | 2.00    |                  |         | 2.00          |
| 5.    | CSE 3205    | Object-Oriented Programming II           | 3.0              | 3.00    |                  |         | 3.00          |
| 6.    | CSE 3206    | Object-Oriented Programming II Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| Total |             |                                          | 10.0             | 10.00   | 6.0              | 3.00    | 13            |

## 3rd Year 3rd Semester

| Sl.   | Course Code | Course Title                             | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|------------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                          | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | CSE 3111    | Computer Architecture                    | 3.0              | 3.00    |                  |         | 3.00          |
| 2.    | CSE 3201    | Computer Networks                        | 3.0              | 3.00    |                  |         | 3.00          |
| 3.    | CSE 3202    | Computer Networks Sessional              |                  |         | 3.0              | 1.50    | 1.50          |
| 4.    | CSE 3203    | Operating System                         | 3.0              | 3.00    |                  |         | 3.00          |
| 5.    | CSE 3204    | Operating System Sessional               |                  |         | 3.0              | 1.50    | 1.50          |
| 6.    | CSE 3200    | Mobile Application Development Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| Total |             |                                          | 9.0              | 9.00    | 9.0              | 4.50    | 13.5          |

## 4th Year 1st Semester

| Sl.   | Course Code | Course Title                          | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|---------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                       | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | CSE 4000    | Project and Thesis                    |                  |         | 4.0              | 2.00    | *2.00         |
| 2.    | BA 4101     | Industrial and Operational Management | 2.0              | 2.00    |                  |         | 2.00          |
| 3.    | CSE 4109    | Compiler Design                       | 3.0              | 3.00    |                  |         | 3.00          |
| 4.    | CSE 4101    | Software Engineering                  | 3.0              | 3.00    |                  |         | 3.00          |
| 5.    | CSE 4102    | Software Engineering Sessional        |                  |         | 2.0              | 1.00    | 1.00          |
| 6.    | CSE 4103    | Artificial Intelligence               | 3.0              | 3.00    |                  |         | 3.00          |
| 7.    | CSE 4104    | Artificial Intelligence Sessional     |                  |         | 3.0              | 1.50    | 1.50          |
| Total |             |                                       | 11.0             | 11.00   | 9.0              | 4.50    | 15.5          |

## 4th Year 2nd Semester

| Sl.   | Course Code | Course Title                                      | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|---------------------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                                   | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | CSE 4000    | Project and Thesis                                |                  |         | 4.0              | 2.00    | *2.00         |
| 2.    | CSE 4100    | Technical Writing and Presentation                |                  |         | 3.0              | 1.50    | 1.50          |
| 3.    | CSE 4201    | Computer and Cyber Security                       | 3.0              | 3.00    |                  |         | 3.00          |
| 4.    | CSE 4203    | Information System Analysis and Design            | 3.0              | 3.00    |                  |         | 3.00          |
| 5.    | CSE 4207    | Machine Learning and Patter Recognition           | 3.0              | 3.00    |                  |         | 3.00          |
| 6.    | CSE 4208    | Machine Learning and Patter Recognition Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| Total |             |                                                   | 9.0              | 9.00    | 10.0             | 5.00    | 14            |

## 4th Year 3rd Semester

| Sl.   | Course Code | Course Title                                           | Theory           |         | Sessional        |         | Total credits |
|-------|-------------|--------------------------------------------------------|------------------|---------|------------------|---------|---------------|
|       |             |                                                        | Contact hrs/week | Credits | Contact hrs/week | Credits |               |
| 1.    | CSE 4000    | Project and Thesis                                     |                  |         | 4.0              | 2.00    | 2.00          |
| 2.    | CSE 4119    | Simulation and Modeling                                | 3.0              | 3.00    |                  |         | 3.00          |
| 3.    | CSE 4213    | Computer Graphics                                      | 3.0              | 3.00    |                  |         | 3.00          |
| 4.    | CSE 4214    | Computer Graphics Sessional                            |                  |         | 3.0              | 1.50    | 1.50          |
| 5.    | CSE 4221    | Digital Image Processing and Computer Vision           | 3.0              | 3.00    |                  |         | 3.00          |
| 6.    | CSE 4222    | Digital Image Processing and Computer Vision Sessional |                  |         | 3.0              | 1.50    | 1.50          |
| Total |             |                                                        | 9.0              | 9.00    | 10.0             | 5.00    | 14            |

# Fee Structure of

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## Bachelor of **COMPUTER SCIENCE & ENGINEERING(CSE)**

### SUN(Morning) Batch

| Background  | Sum of results      | Cost <sub>(BDT)</sub> |
|-------------|---------------------|-----------------------|
| SSC+HSC     | CGPA ( $\leq 8$ )   | 3,74,018              |
|             | CGPA ( $8 \leq 9$ ) | 3,64,784              |
|             | CGPA (10)           | 3,14,402              |
| SSC+Diploma | CGPA ( $\leq 8$ )   | 3,74,018              |
|             | CGPA ( $8 \leq 9$ ) | 3,64,784              |

### STAR (Friday)Batch

| Background  | Sum of results      | Cost <sub>(BDT)</sub> |
|-------------|---------------------|-----------------------|
| SSC+HSC     | CGPA ( $\leq 8$ )   | 2,81,330              |
|             | CGPA ( $8 \leq 9$ ) | 2,72,582              |
|             | CGPA (10)           | 2,63,834              |
| SSC+Diploma | CGPA ( $\leq 8$ )   | 2,53,460              |
|             | CGPA ( $8 \leq 9$ ) | 2,45,684              |

### Moon (Evening)Batch

| Background  | Sum of results      | Cost <sub>(BDT)</sub> |
|-------------|---------------------|-----------------------|
| SSC+HSC     | CGPA ( $\leq 8$ )   | 2,35,160              |
|             | CGPA ( $8 \leq 9$ ) | 2,25,440              |
|             | CGPA (10)           | 2,20,580              |
| SSC+Diploma | CGPA ( $\leq 8$ )   | 2,12,420              |
|             | CGPA ( $8 \leq 9$ ) | 2,03,780              |

## Let your Higher Education Journey with SU



Let learning be your guide, and Sonargaon University be your goal. Start your journey with us, where you learn and explore new things. At Sonargaon University, we help you find the right path. We are here to help you grow, learn more, and succeed in life



# PHOTO ARCHIVE

