

Programme	BS Software Engineering
Level	Undergraduate Degree
Duration	4 Years
Structure	8 Semesters

Programme Overview

The BS Software Engineering programme at CAS prepares students for the rapidly evolving world of software, technology and digital innovation. Students develop a strong foundation in programming, software design, development methodologies and modern computing technologies.

Eligibility

Applicants should have completed Intermediate / HSSC or an equivalent qualification and meet the applicable academic, merit and admission requirements. Eligibility is subject to relevant university and regulatory policies.

Course Structure

Duration: 4 Years | Structure: 8 Semesters

The programme combines theoretical knowledge with practical learning, programming activities, projects and software development experience.

Key Areas of Study

- Programming Fundamentals & Object-Oriented Programming
- Data Structures & Algorithms
- Software Requirements Engineering
- Software Design & Architecture
- Software Testing & Quality Assurance
- Database Systems & Operating Systems
- Computer Networks
- Web & Mobile Application Development
- Software Project Management
- Emerging Technologies

Why Choose BS Software Engineering?

- Industry-relevant knowledge
- Practical programming and development skills
- Strong analytical and problem-solving abilities
- Technology-focused learning
- Future-oriented career opportunities

Career & Progression

Graduates can pursue professional opportunities across the software and technology sector or continue towards advanced study and specialisation.

Potential Career Pathways

- Software Engineer
- Software Developer
- Full Stack Developer
- Front-End / Back-End Developer
- Mobile Application Developer
- Web Developer
- Quality Assurance Engineer
- Software Tester
- DevOps Engineer
- Systems Analyst
- Database Developer

Further Study & Specialisation

Graduates may pursue advanced education in Software Engineering, Computer Science, Artificial Intelligence, Data Science, Cyber Security, Cloud Computing, Information Technology and other technology-related specialisations.

Admission Requirements

- Completed admission application form
- Intermediate / HSSC academic documents
- Detailed Marks Certificate or transcript
- Matriculation / SSC academic documents
- Recent passport-size photographs
- CNIC / B-Form
- Equivalence certificate, where applicable
- Any additional documents required by CAS Admissions

CODE. CREATE. INNOVATE.
BUILD THE TECHNOLOGY OF TOMORROW.

CAS – The Centre of Excellence in Advanced Studies
www.cas-pak.edu.pk