Admissions Fall 2017

BS-Computer Science

Accredited by
HEC’s Accreditation Authority, National Computing Education Accreditation Council (NCEAC)

www.szabist-isb.edu.pk
BS Computer Science

SZABIST offers a 4-year (8-semester) BS Computer Science degree, covering a wide range of subjects. The program is accredited by National Computing Education Accreditation Council.

Admission Criteria
Admission in BS Computer Science program has following requirements:

- A-Level (minimum 3 passes), OR
- Intermediate (minimum 50% marks including first year, and no supplementary) or equivalent qualification from any IBCC recognized institution
- An entrance test and group discussion/interview
- Candidates with mathematics background will be given preference

Recognition
SZABIST - Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology is a fully-chartered institute established through a Legislative Act of the Sindh Assembly (Sindh Act XI of 1995) and approved and recognized by the Higher Education Commission, Pakistan as a degree-awarding institution. SZABIST, one of the highest ranked universities in the country, has its campuses in Karachi, Islamabad, Larkana, Hyderabad, and Dubai.

SZABIST is a registered member of the International Association of Universities (IAU), Paris; Association of Commonwealth Universities (ACU), London; Association to Advance Collegiate Schools of Business (AACSB), Singapore; Federation of the Universities of Islamic World (FUW), Rabat; Asia University Federation (AUF), Seoul; and Management Association of Pakistan, Karachi.


Asia Inc, a leading Asian Magazine, has ranked SZABIST among the top MBA Schools of South Asia in its Asia’s Best MBA Schools Survey for two consecutive years (2003, 2004) and SZABIST is one of the top 15 business schools from South Asia ranked in Asia Inc.

Higher Education Commission, Pakistan has ranked SZABIST as one of the best business schools in Pakistan. The Chartered Inspection and Evaluation Committee (CIEC) has awarded 6 stars to SZABIST, recognizing it as an “Outstanding” institution.

SZABIST is also ranked among the best Science and Technology and Business schools in Asia by the CNN-Time publication, Asiaweek. Also, SZABIST is listed in the CNN Executive Education Schools, 2009. SZABIST, thus, has the unparalleled honor of being the only Pakistani Institute to be recognized internationally by BusinessWeek, Asiaweek, Asia Inc. and CNN.
Curriculum

First Year

Fall Semester
- Calculus and Analytical Geometry
- English Composition and Comprehension
- Fundamentals of Programming
- Introduction to Computing
- Islamiat and Pakistan Studies/Humanities

Spring Semester
- Discrete Mathematical Structures
- Multivariate Calculus
- Object Oriented Programming
- Physics
- Technical and Business Writing

Second Year

Fall Semester
- Communication and Presentation Skills
- Data Structures and Algorithms
- Digital Logic Design
- Linear Algebra and Differential Equations
- Statistics and Probability

Spring Semester
- Computer Organization and Assembly Language
- Data Communications and Computer Networks
- Database Systems
- Finite Automata Theory and Formal Languages
- Operating Systems

Third Year

Fall Semester
- Computer Architecture
- Human Computer Interaction
- Introduction to Software Development
- Software Engineering-I
- University Elective-I

Spring Semester
- Compiler Construction
- Design & Analysis of Algorithms
- Numerical Computing
- CS Elective-I
- CS Elective-II

Fourth Year

Fall Semester
- Artificial Intelligence
- Professional Practices
- Final Year Project-I
- CS Elective-III
- CS Elective-IV

Spring Semester
- Final Year Project-II
- CS Elective-V
- CS Elective-VI
- CS Elective-VII
- University Elective-II

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Curriculum

**BSCS ELECTIVES**

- CSC 4701 Advanced Internet Architecture
- CSC 4801 Advanced Programming Techniques
- CSC 4702 Advanced Telecommunication Technologies
- CSC 4802 Android Application Development
- CSC 4703 Applied Data Mining
- CSC 4803 Auditing Information Systems
- CSC 4704 Bioinformatics
- CSC 4804 Business Process Re-engineering
- CSC 4705 Control Systems
- CSC 4805 Data and Network Security
- CSC 4706 Digital Image Processing
- CSC 4806 Digital Signal Processing
- CSC 4707 DNA Computing
- CSC 4807 Embedded Programming
- CSC 4708 Enterprise Resource Planning
- CSC 4808 Ethical Hacking
- CSC 4709 Internet Business Models
- CSC 4809 IOS Development
- CSC 4712 IT Innovations
- CSC 4711 Linux Administrator-I
- CSC 4811 Linux Administrator-II
- CSC 4713 Managing Data-Center Projects
- CSC 4813 Modeling and Simulation
- CSC 4714 Network Security and Encryption
- CSC 4715 Oracle Administration-I
- CSC 4815 Software Engineering-II
- CSC 4814 Software Project Management
- CSC 4716 Switching and Routing
- CSC 4816 Technopreneurship
- CSC 4717 Web Technologies-I
- CSC 4817 Web Technologies-II
- CSC 4718 Wireless and Mobile Technologies
- CSC xxxx Interaction Design
- CSC 4719 Game Development
- CSC xxxx Introduction to Cloud Computing
- CSC xxxx Software Engineering Economics
- CSC 4818 Data Science
- CSC xxxx Embedded System

**UNIVERSITY ELECTIVES**

Each campus may offer the university electives as per its convenience and availability of resources. The Electives being offered are as follows:

- CSC 4501 Business and Technology Ethics
- CSC 4601 Foreign Languages
- CSC 4502 Design and Creativity
- CSC 4602 History of Scientific Ideas
- CSC 4503 Introduction to Accounting
- CSC 4603 Management Principles
- CSC 4504 Organizational Behavior
- CSC 4604 Research Report
- CSC 4505 Systems Administration
Fee Structure

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee (PKR)</th>
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<tbody>
<tr>
<td>Admission Fee</td>
<td>Rs. 20,000/-</td>
</tr>
<tr>
<td>Security Fee</td>
<td>Rs. 5,000/- (Refundable)</td>
</tr>
<tr>
<td>Activity Charges</td>
<td>Rs. 1,000/-</td>
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<tr>
<td>ID Card Charges</td>
<td>Rs. 150/-</td>
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Program: BSCS

<table>
<thead>
<tr>
<th>Total Cr. Hours</th>
<th>130</th>
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<tbody>
<tr>
<td>1st Semesters Courses</td>
<td>5</td>
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<tr>
<td>Fee per Course</td>
<td>Rs. 11,175</td>
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<tr>
<td>Fee per Semester</td>
<td>Rs. 63,325</td>
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Scholarship Paid in Fall 2016

<table>
<thead>
<tr>
<th>BS(CS) Program</th>
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<tbody>
<tr>
<td>Students</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>Need-based scholarships</td>
</tr>
<tr>
<td>Merit Scholarship</td>
</tr>
<tr>
<td>External Scholarship</td>
</tr>
<tr>
<td>Total</td>
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Scholarships

- Information about scholarships is available with admissions Office.
- Application for scholarships can be submitted on confirmation of enrolment in 1st semester.

Available Scholarships

- Merit-Based Scholarships
- Need-Based Scholarships
- PM's National ICT Scholarships
- Sind Endowment Scholarships
- Various District/Community Based Scholarships
Life at Campus

Accredited by National Computing Education Accreditation Council (NCEAC)
Admission Schedule

<table>
<thead>
<tr>
<th>Last Date to Apply and Submit Documents</th>
<th>July 17, 2017</th>
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<tbody>
<tr>
<td>Online Admission Test (Computer-Based)</td>
<td>July 19-22, 2017</td>
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<tr>
<td>Interviews</td>
<td>July 29 - Aug 07, 2017</td>
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<tr>
<td>Commencement of Classes</td>
<td>September 04, 2017</td>
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For Further Information

Online applications can also be filled at SZABIST Campus

Contact

Ms. Memoona Hanif (Assitant Admission Officer) – 0316-0541795
Mr. Mujtaba Hassan (Admission Officer) – 0334-5359876
Admission Office: 051-4863371-2 (DIRECT NUMBER)
SZABIST Phone: 051-4863363-5

Email: Admissions@szabist-isb.edu.pk
SZABIST Campus: Plot # 67, Street # 09, Sector H-8/4, Islamabad, Pakistan