Discover Yourself

MS/PhD-Computer Science

Admissions
Spring 2018

www.szabist-isb.edu.pk
MS (Computer Science)

SZABIST offers MS (Computer Science) as an evening program in three specializations. The student has to do 3 courses for specialization in a particular field. The students can do bi-majors as well as open MS (CS).

Degree Requirements

- For students with a 4-year BSCS or MCS degree, the MS Program is a 2-year program which requires 9 MS courses and Thesis/Course work (33 credits) are needed to graduate.
- For students with a 4-year professional degree (BE, MSc, etc), the MS Program is a 2-year program. Deficiency conversion courses (18 credit hours), 9 MS courses and Thesis/Course work are needed to graduate (Total Credit hours: 18+33).
- For students with a 3-year BCS degree, the MS Program is a 3-year program. One year of deficiency conversion courses (10 pre-requisite courses: 30 credit hours), 9 MS courses and Thesis/Course work are needed to graduate (Total Credit hours: 30+33).

*The maximum time limit to complete the MS degree is five years.

Admission Requirements

For admission to the MS Program, the candidate must have:

- A 4-year bachelor degree in related field with a minimum of 55% marks/CGPA 2.50 from any HEC-recognized university.
- GAT (General) is mandatory with minimum 50% score. OR University equivalence test with minimum 70% score.
- An entrance test and interview at SZABIST.

*Test is exempted for those who have cleared GAT general.

Curriculum

Core Courses
- Research Methodology
- Advanced Algorithms Analysis
- Theory of Computation
- Advanced Operating Systems
- Advanced Computer Architecture

Courses for Specialization

Computer Science (CS)
- Real-Time Systems
- Digital Image Processing
- Machine Learning
- Data Mining

Software Engineering (SE)
- Software Requirement Engineering
- Software System Architecture
- Software System Quality
- Advanced Software Engineering

Network & Security (N&S)
- Advanced Computer Networks
- Network Security
- Applied Cryptography
- Information Security
- Wireless Sensor Networks
PhD (Computer Science)

The PhD program requires students to complete 48 credit hours. Course work of 18 credits (6 courses) is needed which includes core courses, electives, and independent study. Dissertation of 30 credits is also required to be completed. The maximum time limit to complete the PhD degree is 5 years.

Specializations

Specialized courses include Database Engineering, Data Warehousing & Mining, Wireless Sensor Networks, Networking & Communication, Business Intelligence, Process Modeling, Artificial Intelligence, Software Engineering, Intelligent Systems, Image Processing, MIS and any other area which falls within the purview of Computer Science/Computing.

Research

SZABIST strongly encourages the publication of research findings of Independent Studies, Thesis and Dissertation in research journals & conferences. SZABIST also publishes its own research journal, the Journal of Independent Studies & Research (www.szabist.edu.pk/jisr-c).

Admission Requirement

Candidate must possess a 17.5 - 18 years of education with minimum 60% marks/CGPA 3.00 from any HEC-recognized university in the relevant field of study and GAT Subject with minimum 60% score. All applicants have to undergo an entrance test and group discussion / interview at SZABIST.

Courses

PhD course work credits may be implemented via selection of a particular mode of course execution (as recommended by the respective Graduate Committee/Program Manager) from the various available approaches, including guided/taught courses, seminars, and independent research studies.

Computer Science
- Research Methodology
- Independent Studies
- Elective-I, II, III, IV
- Dissertation
- *(For Electives, see specialized courses)*
Research Achievements 2016-2017


Scholarships

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

Fee Structure

Admission Fee : Rs. 20,000/-
Activity Charges : Rs. 1,000/-

Security Fee : Rs. 5,000/- (Refundable)
ID Card Charges : Rs. 150/-

Tuition Fee (PKR)

<table>
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<tr>
<th>Program</th>
<th>Total Cr. Hours</th>
<th>1st Semester Courses</th>
<th>Fee per Course</th>
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Life at Campus

Shaheed Zulfikar Ali Bhutto Institute of Science & Technology
Admission Schedule

<table>
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<tr>
<th>Event</th>
<th>Dates</th>
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<tr>
<td>Last Date to Apply and Submit Documents</td>
<td>Dec 14, 2017</td>
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<tr>
<td>Online Admission Test (Computer-Based)</td>
<td>Dec 15-19, 2017</td>
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<td>Interviews</td>
<td>Dec 27 - Jan 06, 2018</td>
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<td>Commencement of Classes</td>
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Apply Online
Log on to: http://admissions.szabist-isb.edu.pk
Online applications can also be filled at SZABIST Campus

For Further Information
Contact
Ms. Memoona Hanif (Asstitant 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