In order to ensure that this academic program at SZABIST conforms to standards of internationally recognized universities, the curriculum has been designed with the guidance of academics and professionals specializing in Mechatronic Engineering.

**Departmental Labs**

- **Industrial Automation lab**
- **Robotics & Control lab**
- **Thermo Fluids lab**
- **Mechanics lab**
- **Engineering Workshop**
- **Design and simulation lab**
- **Engineering Drawing lab**
- **Electronics lab**
- **Physics lab**

**Incepting New Dimensions...**

**BE (Mechatronic Engineering)**

**Mechatronics Philosophy**

Mechatronics is a multidisciplinary field of engineering; it refers to an efficient and effective integration of mechanical and electronic systems.

A mechatronic engineer unites the principles of mechanics, electronics, and computing to generate a simpler, more economical, reliable and versatile system.
Mechatronics at SZABIST

The program in Mechatronics provides a structured hands-on approach to understand microcomputer and control technology, coupled with engineering design integration applied to products. For this purpose, the department offers a program that includes various engineering science courses from the relevant fields in addition to a strong foundation in basic sciences and mathematics. Furthermore, state-of-the-art scientific and technological research laboratories with campus licensing of wide range of commercial developmental software provides an environment unrivaled by majority of reputed universities in Pakistan.

The Chartered Inspection and Evaluation Committee (CIEC) has rated SZABIST as an “Outstanding” institution by awarding “6 Stars”. Mechatronics department has been rated as “5 Stars i.e. “World Class”. Whereas, other five departments, namely Management Sciences, Computing, Social Sciences, Media Sciences and Biosciences are individually rated as 6 Stars i.e. “Outstanding”.

Program Objectives

The objectives of the program are to provide a broad and basic education in multiple disciplines comprised of Mechanical, Electronics, and Computer Engineering, and to ensure that all students in the program are exposed to a wide spectrum of engineering knowledge and practice.

The goal is to educate and train engineers who are proficient in the state-of-the-art as well as emerging technologies in all key areas of the discipline. The students will acquire proficiency in engineering design and in the use of computational tools for solving engineering problems. An important objective of the program is to offer a curriculum that evolves to keep pace with the rapid growth of technology in various areas of Mechanical and Electronics engineering.

Employment Opportunities

Graduates with a Mechatronic degree can take up careers in a wide spectrum of industries including:
- Robotics
- Aerospace
- Chemical
- Defense
- Automotive and Manufacturing
- Health, Medical and many more

As well as in businesses that requires extensive computer support, such as banking and commerce. Contributions can be made to these industries in a variety of roles including design engineer, software engineer, project planner, product designer and project manager.

BE (Mechatronics Engineering) Program

SZABIST offers a four year (eight semesters) BE (Mechatronics). The BE Program is essentially a day program and consists of 45 courses (generally five or six courses per semester) with a total of 140 credit hours, and an internship. The maximum time limit to complete the BE degree is seven years.

Scholarships

SZABIST will provide a scholarship of Rs: 19,350/$ 450 (foreign nationals) per semester i.e. 25% of Tuition fees) to each admitted student registered for the year 2013-2014 for full load. Additionally, scholarships up to 100% of tuition fee are available to needy and meritorious continuing students.

Admission Requirements

- The candidate must have completed intermediate (Pre Engineering)/A levels or equivalent with a combination of Mathematics, Physics, Chemistry with minimum 60% marks (those waiting for result can also apply).
- Candidates with DAE (Mechanical/Electronics/Electrical/Instrumentation) having at least 60% aggregate marks from an institute recognized by the Government.
- Minimum 60% aggregate marks each in matriculation and in Intermediate/equivalent exams.
- Please note that no deviation in this regard is allowed.

Fee:

<table>
<thead>
<tr>
<th>For Pakistani Nationals</th>
<th>Foreign Nationals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admission Fees:</td>
<td>Rs. 20000</td>
</tr>
<tr>
<td>Security Deposit (refundable):</td>
<td>Rs. 5000</td>
</tr>
<tr>
<td>Student Activity Charges:</td>
<td>Rs. 500</td>
</tr>
<tr>
<td>Tuition Fees per Course:</td>
<td>Rs. 15,000 (after scholarship of 15% Rs. 11,475)</td>
</tr>
<tr>
<td></td>
<td>US$ 315 (after scholarship of 15% $ 268)</td>
</tr>
</tbody>
</table>

Note: SZABIST reserves the right to revise the fee/withdraw of scholarship without any prior notice.

* (H) Credit Hours Fee.

Other Programs at SZABIST

SZABIST also offers the following programs: BBA, BS (Media Science), BS (Computer Science), BS (Social Sciences), BS (Biosciences), MBA, MBA (Banking & Finance), EMBA, Masters in Project Management (APM), Master of Advertising, MS (Project Management), MS (Media Studies), MS/PhD (Management Sciences, Social Sciences, Computer Science and Education Leadership & Management) and the University of London International Programme of LLE and the BA (Hons) Business Studies (in affiliation with University of South Wales, UK). Separate brochures of these programs are available at the Admission Office.