THE VISION

The Shaheed Zulfikar Ali Bhutto Institute of Science and Technology shall be a world class institute recognized globally for its excellence in education, scholarship in research and distinction in service.

THE MISSION

The Shaheed Zulfikar Ali Bhutto Institute of Science and Technology has been established with the objectives of producing highly qualified scientific and technical personnel to meet the country’s requirements; conducting state-of-the-art scientific and technological research and development in support of the private and public sectors; providing hi-tech scientific and technological assistance to the Pakistani’s industry to enable it to compete with the world industries in global trading; providing highly trained scientific and technological personnel to be able to attract the growth of hi-tech industries and foreign and Pakistani investment; and providing a sound socio-economic and scientific base and infrastructure to Pakistan to be able to meet the economic and technological challenges of the 21st century.
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Fall 2013
Spring 2014
January 5, 1928 - April 4, 1979
Former Prime Minister of Pakistan

“We will give science and technology requirements the highest priority and our attention. To implement any program of scientific and technological development, the country needs to train scientific manpower. In this, the schools, colleges and universities have to play their role. I desire that vast number of people of Pakistan should acquire technological skills. I want first-class science in Pakistan because nothing less is acceptable. And I wish Pakistan to be increasingly self-reliant in all aspects of technology.”

Address at the Inauguration Ceremony of Karachi Nuclear Power Plant, Karachi, Pakistan, on November 28, 1972.
June 21, 1953 - December 27, 2007
Former Prime Minister of Pakistan,
Founding Chancellor SZABIST

“Technology and Communication have changed our world and are influencing a global culture. The ability to Google information from anywhere in the world puts technology into the hands of even the most isolated rural communities in the developing world. The more people learn, the more they want to learn. The more they interact, the less likely they will be to fear the unknown. Just as democracy and educational exchange promote peace, the free flow of modern technology and communication promote peace.”

I welcome you to join one of the best higher education institutions in Pakistan: the Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST).

At SZABIST, you will be taught by highly qualified faculty and will have an opportunity of selecting courses from a variety of traditional and emerging programs that have all been approved by the Higher Education Commission (HEC) of Pakistan. SZABIST, living up to its mission of spreading education and research to every corner, has five dedicated university campuses: Karachi, Islamabad, Larkana, Hyderabad, and Dubai (UAE).

At SZABIST, you will become part of a community that believes research to be an integral part of its academic excellence, and encourages participation in research and extra-curricular activities, allowing you to realize your true intellectual and professional potential. In addition to a strong academia and research culture, SZABIST also offers numerous scholarships and financial assistance, to make education accessible and affordable for all its students.

Higher education will play an integral role in carving out your professional lives ahead. Choosing the right institution is an important step, hence I wish you all the success in your educational journey, and welcome you to the opportunity to “Discover Yourself”.

Dr. Azra Fazal Pechuho
Chancellor SZABIST
It gives me great pleasure in welcoming you to the Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST). At SZABIST, the highest priority is to provide cutting-edge and market relevant education. In support of this aim, we offer modern and up-to-date courses in a diversified range of programs covering Management, Computer Science, Social Sciences, Media Sciences, Mechatronics Engineering, Law, and Biosciences.

In pursuit of the vision of our Founding Chancellor, Shaheed Mohtarma Benazir Bhutto, and guided by our current Chancellor, Dr. Azra Fazal, we devote significant resources in conducting state-of-the-art academic, scientific, and technological research. We have initiated high caliber research in the fields of renewable energy, and stem cells and tissue propagation. These fields have great academic value, and are also of huge significance to our country’s energy and scientific independence.

Alongside research and academia, SZABIST is continuously developing and implementing quality assurance measures, through its Institutional Research Department/Quality Enhancement Cell, which has been awarded the highest category ‘W’ by the Quality Assurance Agency (QAA) of the Higher Education Commission of Pakistan (HEC).

I am delighted to offer you the Prospectus 2013 as an academic guide and wish you a productive and a socially responsible journey at SZABIST.

*Dr. Saqib Rizavi*
President SZABIST
Choosing the right university for admission in undergraduate and graduate studies leading to MS and PhD is a very crucial stage in the life of every student, for their future depends on the decision they make. So, students have to be very cautious and calculating in their decisions. Wrong decisions can have negative consequences which students realize later on in life when they find that they are not well equipped with the right kind of education and skills the market requires from them in the competitive globalized market of today.

SZABIST, while keeping in mind the standards of quality education and market requirements, prepares students for a lead role in the market at strategic and operational levels by paying special attention to their grooming as a market leader. It is this unwavering commitment of 18 years that has made SZABIST one of the top-notch institutions of the country and a market leader. Our students are mostly booked for jobs by reputed multinational and national companies and today they are working at high position in different companies across the country and aboard.

To prepare students for a leadership role in the field of Management Science, Computer Science, Media Sciences, Social Sciences, Mechatronics Engineering, Law, and Biosciences SZABIST has state-of-the-art facilities including well-equipped lecture rooms, libraries, laboratories and first class computing facilities. Our academic programs are designed to meet the ever-changing demands of the globalized market that we have become a part of. We at SZABIST have continuously strived to review and update our curricula to cope with the challenges of the twenty-first century. Our faculty, researchers and professionals along with our students work as a team that create a salubrious academic atmosphere where everyone is provided with an intellectually enlightening environment to realize his or her potential to the fullest.

While realizing the fact that we are living in a global village due to revolution in communication technology connecting people across the world through different social media forums, SZABIST has been constantly striving to imbibe
amongst students the characteristics and values of global culture, with the view that if students go abroad for higher studies, they can easily get absorbed in the host country’s culture, without any problem. In this connection, SZABIST feels proud to have many student societies which give students global exposure to different issues being faced by different societies. Our students come from all walks of life and even different parts of the world. At SZABIST, everyone is encouraged to achieve his/her full potential in an environment of dignity and mutual respect. SZABIST provides cutting edge R&D facilities and from its portal have graduated thousands of students well equipped with sound professional education, working in different government departments, NGOs, and industrial sectors.

I hope that you will enjoy your stay at SZABIST while the skill and knowledge gained during your studies will help you to meet the daily challenges you come across either at the work place or in your daily lives.

Prof. Dr. Amanat Ali Jalbani  
Vice President (Academics)  
SZABIST
Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) is a fully Chartered Institute established through a Legislative Act of Sindh Assembly (Sindh Act No. XI of 1995) and is approved and recognized by Higher Education Commission (HEC), Pakistan, as a degree awarding institution. SZABIST has campuses in Karachi, Islamabad, Hyderabad, Larkana, and Dubai (UAE). SZABIST is a registered member of the International Association of Universities (IAU), Paris; Association of Commonwealth Universities (ACU), London; Association of Advance Collegiate Schools of Business (AACSB), Singapore; Federation of the Universities of Islamic World (FUW), Rabat; Asia University Federation (AUF), Seoul; Asia-Pacific Quality Network, People’s Republic of China; 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). SZABIST is one of the top 15 business schools from South Asia ranked in Asia Inc.

SZABIST is also ranked among the best Science and Technology and MBA schools in Asia by the CNN-Time publication, Asiaweek. SZABIST is also 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.

SZABIST has signed articulation agreement with the University of Wales, UK. SZABIST has also signed MoUs with various prolific and seasoned organizations and institutions, to name few: University of London, UK; Universal Academic Management Organization (UAMO), UAE; EMC Computer Systems, Austria; Philippines Women University, Philippines; and the Asian Academy of Film & Television, India.

SZABIST today is identified as a major Degree awarding Institute comprising of five campuses (including one foreign campus), three diploma centers, three intermediate colleges, and one research center. Over 5,000 degrees have been awarded by SZABIST to date.

SZABIST Karachi Campus is located in one of the most prestigious localities of Karachi at 90, 100, 108 and F-154 Clifton. In January 1996, the first academic session commenced at the Karachi Campus in the Faculties of Management Sciences and Computer Science. Construction is currently underway near present location at Clifton for building a purpose built campus for Management, Computer Science, Social Sciences and Media Sciences Departments. Moreover, a permanent engineering campus on 300 acre at the Education City in Malir, about 20 km from the Karachi Toll Plaza and 36 km east of Karachi Airport, and a Medical and Agricultural Complex at the 5000 acre campus at Gharo (about 30 km away from the Education City), are in planning phase.

It is projected that SZABIST would trigger the growth of high-tech industries in its vicinity, within the next five to ten years, ultimately leading to the development of the first ‘science city’ in Pakistan, ‘Zulfikarabad’, and attracting foreign and local investments worth billion of dollars. The payoffs and benefits to Pakistan due to SZABIST are tremendous; the education, training, and development of highly qualified scientific personnel, considerable foreign exchange savings on graduate education of Pakistani students, reversal of brain drain, gradual elimination of dependency on foreign technologies, and the growth of high-tech industries in Pakistan, ultimately saving billions of dollars in
imported costs as well as providing increased employment opportunities for both scientific and non-scientific personnel. Other benefits to the nation include purchase of raw material by the newly established industries, the growth of supply and services sectors, and an increase in the tax base. The educational, scientific, technological, industrial and socio-economic gains made to Pakistan would be tremendous due to the establishment of SZABIST campuses.

Graduate education in the following faculties, which are important for the scientific and socio-economic development of Pakistan, and which are presently offered only on a limited scale in our country, would be offered at SZABIST’s main campuses when completed:

**Management Sciences**

**Media Sciences and Technology**
Film and TV production, Advertisement, Media Studies, and Journalism.

**Computer Science**

**Social Sciences**
International Relations, Sociology, Psychology, Political Science, Economics, Journalism, Public Administration, NGO Management, Education, Gender Studies, Law, and Human Rights.

**Electrical Engineering**

**Biochemical Engineering**
Agrochemical, and Pharmaceutical.

**Biogenetic Engineering**
Plant Genetics, and Animal Genetics.

**Food Sciences and Technology**

**Aquaculture and Agriculture Sciences**

In addition to the mentioned academic faculties, a Software Technology Park and a Technology Development Center to incubate the growth of high-tech industries for the economic and industrial development of Pakistan, will also be established at the Institute.
PROGRAMS & CURRICULA

DEGREES OFFERED

(All degrees including all majors and courses are not offered at all campuses. Check with the local campus for offered degrees)

BBA

SZABIST offers a four year BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses and a 6 credit Research Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing, Finance or IT. To obtain the BBA degree, students have to complete 144 credit hours and an internship. The maximum time limit to complete the BBA degree is 7 years.

BS (Computer Science)

SZABIST offers a four year (eight semesters) BS Computer Science degree with majors in Information Technology, Telecommunications, Software Engineering and Computer Science. The BS Program is essentially a day program and consists of 40 courses (six courses per semester) with a total of 130 credit hours (all electives and certain courses may be offered in the evening), Internship and the passing of the comprehensive exam. The maximum time limit to complete the BS degree is 7 years.

BE (Mechatronics Engineering)

SZABIST offers a four year (eight semesters) BE (Mechatronics Engineering). The BE program is essentially a day program and consists of 45 courses (five or six courses per semester) with a total of 140 credit hours (all electives and certain courses may be offered in the evening), Internship and the passing of the comprehensive exam. The maximum time limit to complete the BE degree is 7 years.

BS (Social Sciences)

SZABIST offers a four year (eight semesters) BS Social Sciences degree with majors in Psychology, Sindh Studies, Sociology, Economics, and International Relations. BS Program is essentially a day program and consists of 46 courses (six courses per semester) and a research project with a total of 144 credit hours. The maximum time limit to complete the BS degree is 7 years.

BS (Media Sciences)

The Department of Media Sciences at SZABIST offers a comprehensive four-year Bachelor of Science in Media Sciences degree with majors in Film and Television Production, Communication Design, and Journalism. To earn an undergraduate degree, students must enroll in and successfully complete a total of 135 credit hours which includes 43 courses (34 core courses, 9 electives in Film and Television Production, Communication Design, or Journalism), a 6-credit thesis, and an internship. All students must complete their degree within 7 years.

BS (Biosciences)

BS Biosciences of SZABIST is a four year program spread over eight semesters and consists of 135 credit hours of teaching, 44 courses, an internship of at least six weeks, and a research project. The maximum time limit to complete the BS degree is 7 years.

EMBA

SZABIST offers a two year EMBA degree for the executives and the middle/level managers who strive for excellence and greater challenges in their professional life. The unique program is especially designed for those executives who aim to enhance their productivity and strategic thinking. The individuals will be able to leverage their rich work experience through our curriculum, interactive sessions, conferences, symposiums and a wide corporate network. The EMBA is a two year program spread...
over six semesters and consists of 66 credit hours. 20 courses, one Business Project (3 credits) and one Research Project (3 credits) are required to graduate. Maximum time limit to complete the EMBA degree is 5 years.

**MBA (Masters in Business Administration)**

MBA program has been designed to impart quality professional knowledge and understanding of modern management tools, leadership and entrepreneurial skills, managerial and communication competencies.

SZABIST offers MBA degree in the specialized fields of Management, Human Resource Management (HRM), Marketing, Finance, Supply Chain Management, and MIS. A niche MBA program related to Banking & Finance is separately offered besides regular MBA programs. SZABIST offers both MBA (Day) and MBA (Evening) programs. The maximum duration to complete any MBA program is 5 years.

**MBA (36 credit hours program)**

This MBA program is tailored for students with a four-year BBA degree and the minimum duration to complete this program is 1.5 years. The program comprises of 10 courses (30 credits) and a Thesis/Research Project (6 credits) of one semester duration. Students are also required to complete a 6-weeks internship to complete their degree.

**MBA (72 credit hours program)**

This MBA program is designed for students having a four-year non BBA degree (like BS-CS, BE, MA or M.Sc.) or 16 years non-business degree. The duration to complete this program is 2 to 2.5 years. 22 courses (66 credits), a Thesis/Research Project (6 credits) and a 6-week internship are needed to graduate. Students are also required to clear the SZABIST comprehensive exam.

**MBA (90 credit hours program)**

This MBA program is developed for students having a 2-3 year undergraduate degree. The duration of this MBA program is 3 to 3.5 years. 28 courses (84 credits) and a Thesis/Research Project (6 credits) are needed to complete the program. Students are also required to undertake a 6-week internship along with passing the SZABIST comprehensive exam.

**MBA Banking & Finance (36 credit hours program)**

This MBA (Banking and Finance) program is developed for students with a 4-year BBA degree, the duration of the MBA (B&F) is a 1.5 years. 10 MBA courses (30 credits) and a Thesis/Research Project (6 credits) are needed to graduate. Students are also required to complete a 6-week internship. The maximum duration to complete this degree is 5 years.

**MBA Banking & Finance (72 credit hours program)**

This MBA (Banking and Finance) program is developed for students with a 4-year non BBA degree/professional degree; the duration of the MBA (B&F) program is 2 to 2.5 years. 24 courses (72 credits) are needed to graduate. Students are also required to complete a 6-week internship and clear the SZABIST comprehensive exam. The maximum duration to complete this degree is 5 years.

**MPM (Master in Project Management)**

The Master in Project Management is designed to enable individuals to manage complex projects of today through modern project management approaches. MPM is a 1 year evening program comprising 33 credit hours spread over three semesters. 11 courses are required to graduate. Maximum time limit to complete the MPM degree is 5 years.
**Master of Advertising**

The Department of Media Sciences at SZABIST offers an evening Master’s degree program in Advertising providing students a comprehensive training through courses that prepare them to engage in various career options in the advertising industry. To be awarded a Master of Advertising degree, students need to complete a total of 36 credit hours, which include 10 courses and a 6-credit project. All students must complete their degree within 5 years.

For students with a 4-year BS or 2-year MCS degree, the MS is a two year program. 9 MS courses and Thesis / Research Project / Course Work are needed to graduate (33 credit hours).

For students with a 4-year professional degree (BE, MSc etc), the MS Program is a two year program. Deficiency conversion courses and 9 MS courses and Thesis/Re-search Project /Course work are needed to graduate (33 credit hours +18 credit hours of deficiency courses).

For students with a 3-year BCS degree, the MS Program is a 3 year program. One year of deficiency conversion courses and 9 MS courses and Thesis or Research Project are needed to graduate (33 credit hours + 30 credit hours of deficiency courses).

The maximum time limit to complete the MS degree is 5 years.

**MS (Management Science)**

SZABIST offers MS degree in the specialized fields of Management, Human Resource Management (HRM), Marketing, Finance, and IT. The MS program is an evening program only and consists of 8/10 courses and/or Thesis/Research work (30 credit).

The maximum time limit to complete the MS degree is 5 years from the date of admission and the minimum period required is 1.5 years.

**MS (Computer Science)**

SZABIST offers MScS degree with specialization in Computer Science, Information Technology, Software Engineering, and Information Security Management. The MS is an evening program only and consists of 9 courses and Thesis/Research work.

**MS (Social Sciences)**

SZABIST offers MS degree in Social Sciences with majors in Psychology, Sociology, International Relations, Political Science, Economics, Media Studies, Education, Public Administration, NGO Management, Gender Studies, Philosophy, Law, Human Rights, and Public Policy.
The MS Program is an evening program only and consists of 8/10 courses and/or a Thesis/Independent Studies (30 credit hours). The maximum time limit to complete the MS degree is 5 years.

**PhD**

SZABIST offers PhD degree in Management Sciences, Computing and Social Sciences that can be completed during the evenings in two years after the MS/MBA degree (18 years of education). Maximum time limit to earn PhD degree is 5 years.

6 PhD courses (4 courses & 2 ISS of 18 credit hours) and a dissertation (30 Credit hours) are required to graduate. A total of 48 credit hours must be completed. GRE/GAT subject test with minimum 60% is required as per HEC guidelines for all PhD candidates.

In Management Sciences, specializations include Human Resource Management, Marketing, and Finance.


In Social Sciences, specializations include Economics, International Relations, Political Science, Media Studies, Education, Public Administration, NGO Management, Gender Studies, Philosophy, Psychology, Sociology, Law, Human Rights and Public Policy.
An entrance test and group discussion/interview will be given to all applicants at SZABIST.

## BACHELORS

**NOTE:**
General paper (A levels) will not be counted.

### BBA/BS Programs
For admission in the BBA/BS programs, the candidate must have completed A levels (minimum 3-passes)/12th grade / Intermediate (with minimum 50% marks, including first year no supplementary) or equivalent from a recognized institution (those waiting for results can also apply).

For BS Computer Science, candidates with Mathematical background will be preferred.

### BS (Biosciences)
Candidates are required to have 50% marks in Intermediate (F.Sc) or 3 A Level passes in at least two subjects (Biology, Chemistry and Physics).

### BE Mechatronics
The candidate must have completed intermediate (Pre Engineering)/A levels or equivalent with a combination of (Physics, Chemistry and Mathematics) or (Physics, Mathematics and Computer Studies or Computer Sciences) with minimum 60% marks (those waiting for result can also apply).

For the purpose of determining, the grades obtained by candidates having passed Cambridge High School Certificate Examinations with Mathematics, Physics and Chemistry/Computer studies, examinations will be equated as follows:

<table>
<thead>
<tr>
<th>A-Level Grade</th>
<th>Equivalent HSC Intermediate %</th>
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<tbody>
<tr>
<td>A</td>
<td>85</td>
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<tr>
<td>B</td>
<td>75</td>
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<td>C</td>
<td>65</td>
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<td>D</td>
<td>55</td>
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<td>E</td>
<td>45</td>
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</tbody>
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Candidates with DAE (Mechanical or Electronics) having at least 60% aggregate marks from an institute recognized by the Government can also apply.

Minimum 60% aggregate marks each in matriculation and in Intermediate / equivalent exams.

**Please note that no exception in this regard is allowed.**

## MASTERS

### EMBA
For admission in the EMBA Program, the candidate must possess a Bachelors degree with minimum 50% marks/CGPA of 2.5 from a university recognized by Higher Education Commission (HEC) in any field of study with 4 years of Managerial level work experience. Candidates with a minimum GMAT Score of 600, secured in the last 2 years are exempted from the admission test.

### MBA Program

#### 36 credit hours program
For admission in the MBA 36 credit hour program, the candidate must possess a 4 year BBA or relevant business degree with minimum CGPA of 2.5 from a university recognized by the Higher Education Commission (HEC).

#### 72 credit-hours program
For admission in the MBA 72 credit hour program, the candidate must possess a 4 year
non business bachelor’s degree with minimum CGPA of 2.5 or 16 years of education with minimum 55% marks from a university recognized by HEC.

**90 credit-hours program**
For admission in the MBA 90 credit hour program, the candidate must possess 14 years education with minimum CGPA of 2.5 or minimum 55% marks from a university recognized by HEC.

**MBA (Banking & Finance) Program**
All those candidates who have either 4 years BBA degree or 4 years professional degree (with minimum CGPA 2.5) or 16 years of education (with minimum 55% marks) from a university recognized by HEC will be eligible to apply for admission. Those students who will have 4 years BBA degree will be exempted from first year and given a direct entry in second year.

**MPM (Master in Project Management)**
For admission in the MPM Program, the applicant must possess a minimum of sixteen (16) years of education / 4 years Bachelor / Masters degree from HEC recognized educational institute with minimum 55% marks / CGPA 2.5.

**Master of Advertising**
Students with a 4 years undergraduate degree or 16 years of equivalent education in a related field of study with minimum 55% marks/CGPA 2.5 from a university recognized by the Higher Education Commission of Pakistan (HEC) are eligible to apply. Students with a 4 years undergraduate degree in business with a focus on marketing are also eligible.

**Master of TV Production**
Students with a 4 years undergraduate degree or 16 years of equivalent education in a related field of study with minimum 55% marks/CGPA 2.5 from a university recognized by HEC are eligible to apply. The condition of related field of study may be relaxed for candidates with a work portfolio that supports their application in the program.

**MS**
For admission to the MS program, candidates must possess 16 years of relevant education with minimum 55% marks/CGPA 2.5 from a university recognized by HEC.

For admission in MS Media Studies, students with a 4 year undergraduate degree in a related field of study are eligible to apply or students with a 4 year undergraduate degree in business with a focus on marketing are also eligible.

GAT (General) is mandatory for MS students with minimum 50% score.

**DOCTORAL DEGREE**
A candidate with MA/MS/MBA/M.Phil (with minimum 5 years of formal university education) from a recognized university may apply for direct admission into the PhD program.

A candidate with 17 years of relevant degree from an HEC recognized university with minimum 60% marks/CGPA 3.00 is eligible to apply for admission into the PhD program. For acceptance into the PhD program, the applicant must pass the admission test / interview with the SZABIST Graduate Committee. The candidate must also pass GAT (subject) with 60% score.

Major advisor can be changed by doctoral committee at any time subject to the unavailability or on the request of the student on justified grounds.

Those who have done Thesis/Research Project individually are eligible to apply for admission in PhD.
ADMISSION REQUIREMENTS

PhD Degree Requirements
For completion of the PhD degree, the student must complete a total of 48 credit hours after 17 years of relevant education (MA, MS, MBA, M.Phil). For non-relevant degrees, the candidate will be required to register for additional courses as core-requisites as per the guidance provided by the doctoral committee.

Total requirements for a PhD degree at SZABIST through MS is 78 credit hours (30 credit hours for MS and 48 credit hours for PhD)

PhD Degree Process
Qualifying Examination
Coursework (18 credit hours; 6 courses) Course work includes two Independent Studies (ISs)
Comprehensive Examination
Dissertation of 30 credit hours
Final Seminar
2 Publications in HEC approved journal
Dissertation Defense

Pre-requisite courses such as: Advanced Research Methods and Techniques (ARMT) and Quantative Tools for Research (QTR) for Management Sciences, ARMT for Social Sciences, ARMT & Econometrics for Economics students and RM for Computer Science students.

The student may be asked to take additional courses as recommended by the Graduate Admissions Committee. Two interdisciplinary similar or lower division courses can be allowed with the approval of both relevant Program Managers.

For candidates with an MS degree (minimum 5 years) from an HEC recognized university (with a minimum of 8 SZABIST equivalent courses), a minimum of 18 credit hours of course work as defined above must be completed before registration of Dissertation.

PhD Qualifying Examination
All PhD students must pass the PhD Qualifying Examination within the first year of their PhD studies. Approval for extension in time can be given by the Graduate Committee. The first registration in Dissertation will be for 3 credits in which the student will work on his/her PhD Research Proposal. These 3 credits will be counted / included in 30 dissertation credits. PhD research proposal must be presented before the Doctoral Committee (for suggestions & feedback, if any). PhD Students who have done thesis with MS/MPhil degrees are not required to defend their proposal.

Dissertation
A student who has successfully passed the PhD Qualifying Examination will be formally accepted as a doctoral candidate. A student may register for 3, 6, 9 & 12 credits in regular semesters (Spring & Fall) and 3 credits for proposal at start and / or 3 in the Summer semester.

The dissertation may normally be completed in 2-years beyond the MA/MS/MBA/MPhil degree after the completion of course work and ISs.

Publication Requirement
All PhD candidates are required to write two papers from their thesis and submit them for publication in a refereed archival journal approved by the HEC. These papers must be at least provisionally accepted by the journal before the presentation of the final seminar. It is normally expected that this paper will be submitted (before submission of dissertation).

Final Progress Seminar
At the end of successful completion of doctoral research and fulfillment of publication requirement, the candidates will be asked to present a Final Seminar to the Doctoral
ADMISSION REQUIREMENTS

Committee for suggestions and feedback, if any. With the approval of the Final Seminar by the Doctoral Committee, the candidate will be asked to present the draft of the PhD Dissertation in SZABIST format to the Doctoral Committee for Evaluation.

Final Defense
The PhD dissertation draft will be sent to two External Examiners (outside Pakistan), to be selected by the Doctoral Committee, for approval. With the approval of the PhD Dissertation by the External Examiners, the candidate will be asked to appear for his PhD Final Examination by making a formal presentation of his PhD Dissertation to the Doctoral Committee in an open seminar.

The Doctoral Committee may invite the External Examiners and other experts in the field to the Final Examination.

TEST ALTERNATES
Applicants may submit a minimum 1650 score of SAT 1 for (BBA/BS/BE), 50% score of GMAT for (MBA), 600 score of GMAT for (EMBA), GAT (General) / GRE for MS (Management Sciences), MS (Computer Science), MS (Social Sciences) & MS (Media Studies) and GAT (subject) for PhD.

GAT general is mandatory for MS with minimum 50% score. GAT subject is mandatory for PhD with minimum 60% score.

TRANSFER POLICIES
Transfer into SZABIST can only be accepted for candidates who have studied or are currently studying at HEC recognized universities. Transferring credits must have a minimum letter grade of B or above (or 80% marks). The request for transfers must be made at the time of admission, the maximum time limit to transfer courses is two years. Candidates will be required to clear all SZABIST admission requirements.

Bachelor Course Transfer
A maximum of up to 72 credits may be considered for transfer into BBA/BS/BE programs.

MBA Course Transfer
- A maximum of up to 6 credits may be considered for transfer into the fifth year MBA (36 credit hours) program. Research project course is not transferable.
- A maximum of up to 36 credits may be considered for transfer into the MBA (72 credit hours) program. Research project course is not transferable.
- A maximum of up to 45 credits may be considered for transfer into the MBA (90 credit hours) program. Research project/thesis course is not transferable.

MPM Course Transfer
A maximum of up to 6 credits may be considered for transfer into the MPM program.

EMBA (SZABIST) Course Transfer
Only relevant courses in the EMBA (SZABIST) program are transferable into the regular MBA program subject to the eligibility criteria of the MBA program at SZABIST.

MS Course Transfer
Up to 50% of total course work completed at a recognized university can be allowed for transfer at SZABIST MS program.

PhD Course Transfer
Transfer courses up to 6 credit hours from a recognized university may be allowed in special cases by making a petition to the Graduate Committee before formal acceptance into the PhD Program. The student may be required to take additional courses as recommended by the Graduate Committee. The student must complete 48 credit hours in total.

PROSPECTUS 2013
ADMISSION REQUIREMENTS

SZABIST Inter-Campus Transfer

For transfer candidate from other SZABIST campuses, the candidate must fulfill the admission requirements of the local campus she/he wishes to transfer into, as per applicable transfer policy.

All courses/grades are transferable. A transfer fee will be applicable for students transferring from any other SZABIST campus.

Certificate Course Transfer

For transfer candidates from the SZABIST Certificate Programs, all courses having a letter grade C- or above for the BBA/BS/BE/MBA and grade B or above for MS/PhD are transferable within one year.

FINANCIAL ASSISTANCE

SZABIST provides a wide range of financial assistance to meritorious and deserving students. For instance:

- SZABIST Need-Based Scholarship
- SZABIST Merit-Based Scholarship
- Sindh Endowment Fund Scholarship
- Balochistan Endowment Fund Scholarship
- HEC-UAID Merit and Need-Based Scholarship
- HEC project titled, ‘Provision of Higher Education Opportunities for the Students of Balochistan and FATA
- Various community scholarships

All scholarships cover tuition fee. However, in some cases, scholarships also cover books, boarding, transportation, monthly stipend, and admission fee.

Financial assistance is also available to qualified PhD candidates in the form of teaching assistantship, associateship, and adjunct faculty positions. All requests for financial assistance must be made after admission.

PROSPECTUS 2013
**Video Conferencing**

SZABIST is the first educational institute in Pakistan that introduced multi-way interactive Video Conferencing (VC) technology in 2001. SZABIST regularly uses VC technology in interactive learning sessions between Dubai, Islamabad, Larkana, Hyderabad and Karachi Campuses, as well as in conducting seminars/lectures/presentations with foreign universities. Video Conferencing has been the most effective solution at SZABIST in bringing live and interactive guest lecturers from experts outside the country. Video Conferencing opens the door to exciting and valuable learning experiences. By allowing access to and interaction with resources that might have otherwise been too inconvenient or expensive, Video Conferencing ensures a highly enriched learning environment. By taking the lead in opening this field in educational practices, SZABIST has also taken lead in creating the most advantageous nexus between cutting-edge technology and effective learning.

**Forums/Seminars/Guest Lectures**

To increase awareness and understanding of information technology and business related issues, many seminars and guest lectures are organized. These seminars and lectures are in continuation of the Institute’s policy towards entrepreneurship development and networking. Seminars are conducted/attended by the leading figures from business and industry as these sessions address various business practices.

**Business Productivity Courses**

The Institute also offers several productivity oriented certificate courses as part of its continuing education program. The courses are developed jointly by the faculty, specialists and certified trainers in specific subject areas. The aim of these courses has been to initiate discussion and modeling of practical problems, new business opportunities or improve understanding of current issues in Information Technology, Business and Management. These courses include topics such as e-Commerce, New Programming Languages & Tools, Business & Entrepreneurship Management, Selling Skills, Conflict Resolution, Effective Leadership, and Productivity and Quality-Related Issues.

In addition to Business Productivity Courses, the Institute arranges study groups, mentor workshops and courses for students who it may feel are deficient in various academic areas. These courses include English Communication, Technical Writing, Public Speaking, Personal Grooming, Interviewing Techniques and Statistical Package for Social Sciences (SPSS).

**Classrooms/Labs/Libraries**

Classroom sessions at SZABIST are quite different from other professional university setups. Teachers pay individual attention and are on first name basis with the students, thanks to the limited number of candidates selected purely on merit. Instructors encourage participation instead of a monologue. Students utilize various visual aids for presentations and are always on their alert because of the regular unannounced quizzes, assignments and the monthly one-hour tests. All classrooms are air-conditioned and are equipped with multimedia projectors, wa mounted screens and white boards. All classrooms are equipped with PCs along with broadband Intranet/Internet connectivity.

Our computer laboratories are equipped with high-end computers to cater to students requirements. “Campus licensing” of latest software including development tools and OS’s provide an unmatchable environment compared to majority of well reputed universities of Pakistan.
LIFE AT SZABIST

SZABIST has computing facilities supported with full 24x7 broadband connectivity of 48 mbps to the internet and i7. SZABIST is Wi-Fi enabled since 2002. Students with 802.11x capable devices (such as laptops, PDAs etc) can access all network resources wirelessly.

SZABIST library is subscribed to a number of Digital On-line libraries, Journals, and Databases through which students can access an unlimited number of journals and magazines. This facility is further extended to registered students through SZABIST network on demand. Moreover, SZABIST has its own Research Centers i.e. Centre of Renewable Energy Research (CRER), and Sustainable Development Research Centre (SDRC) with their own specialized library for reference and general reading.

EXECUTIVE DEVELOPMENT CENTER

The Executive Development Center (EDC), at SZABIST Karachi, facilitates students in the completion of their degree requirements, professional development, and job placements. It keeps in touch with the Alumni for relationship building corporate networking and profile update.

Throughout their academic tenure, the students are encouraged to attend customized trainings, personal development programs and presentations by industry experts who share their experiences to help them understand the transition from campus to corporate.

EDC compiles students’ profiles and publishes the annual Graduate Directory in order to market SZABIST graduates to credible organizations. Graduate Directory is a useful tool to facilitate job placements.

Job & Internship Placements

In collaboration with the industry, EDC arranges on-campus recruitment drives and management trainee programs of reputable national and multinational companies. EDC coordinates with students about job openings in the corporate sector throughout the year.

An annual ‘Career Fair’ is held at the campus in which leading companies are invited to discuss their recruitment policies and procedures, their current resource requirements and future vacancies, exploiting the opportunity to interact directly with the students.

To bridge the gap between class room and work situation, SZABIST has instituted a mandatory internship program. Apart from enabling students to get the feel of an office, internships expose them to potential employers for possible recruitment.

Eligibility for Internship

- Masters Degree students with at least two semesters completed at SZABIST.
- Bachelor degree students with at least six semesters completed at SZABIST.
- Minimum duration of internship is six weeks.
- Interns are required to write a report on how the internship enriched his/her learning. This report along with the 'internship certificate', and the 'internship evaluation form' are submitted to EDC within the given deadline. Late receipts and sketchy reports may lead to cancellation of internship.

Preference is given to those students who are about to graduate and need an internship as a requisite for their degree completion.
Rules governing internships apply to all students except those who are already employed and may request a waiver by filling the internship waiver form. Such requests are considered and approved on a case-to-case basis.

Life on Campus

Amidst all the academic pressures and workload, SZABIST’s students find time for leisure. Seminars, workshops, projects, on-and off-campus luncheons and dinners are a regular feature of the life of a SZABISTian. Along with these, students have organized various clubs and student societies for curricular and extracurricular activities.

The SZABIST Student Council (SSC) functions as an umbrella organization under which all the following societies/club function:

- **SSS:** SZABIST Sports Society
- **ZABMUN:** SZABIST Model United Nations
- **IAS:** Islamic Awareness Society
- **SMS:** SZABIST Marketing Society
- **SES:** SZABIST Entrepreneurial Society
- **IEEE-SSS:** Institute of Electrical & Electronics Engineers-SZABIST Student Branch
- **AIESEC:** Student Exchange Program Facilitation
- **ACM:** Association for Computer Machinery
- **ASME:** American Society of Mechanical Engineers
- **YS:** Young Senators
- **SDS:** SZABIST Debating Society
- **SLC:** SZABIST Literary Club
- **SSSS:** SZABIST Social Sciences Society
- **SLS:** SZABIST Law Society
- **SAS:** SZABIST Adventure Society
- **RCoSKM:** Rotaract Club of SZABIST Karachi MidCity

SZABIST publishes “SZAB’nings” from Karachi, “ZABNEWS” from Larkana and Islamabad and “INSIGHT” from Dubai. All previous issues of these publications and information on ongoing activities and events are available on the SZABIST website.

International Linkages and Collaborations

SZABIST is a registered member of the following international and national associations:

1. International Association of Universities (IAU), Paris
2. Association of Commonwealth Universities (ACU), London
3. The Association to Advance Collegiate School of Business (AACSB), Singapore
4. Federation of the Universities of Islamic World (FUW), Rabal
5. Asia University Federation (AUF), Seoul
6. Asia-Pacific Quality Network (APQN), People’s Republic of China
7. Management Association of Pakistan (MAP), Karachi

Moreover, SZABIST has signed MoUs, articulation and collaboration agreements with the following universities and institutions:

1. **Pakistan Television Corporation (PTV), Islamabad**

   This MoU pertains to cooperation in areas such as research, trainings and internships, employment, exchange of experts, access to archival materials, and other capacity building activities.

2. **American Abroad Media (AAM)**

   According to the partnership, SZABIST students will be involved in the studio taping of the four Afghanistan-Pakistan town hall series.
3. Organization for Pakistani Entrepreneurs of North America (OPEN)
This MoU pertains to jointly establishing a student chapter of OPEN at SZABIST, namely ‘OPEN SZABIST Karachi Student Chapter’ to promote the spirit of entrepreneurship among Pakistani youth through personality assessment, seminars, workshops, individual mentoring sessions by qualified professionals, and other related activities.

4. Rotary Club of Islamabad, (Pakistan-Afghanistan), Rotary International
This MoU is aimed at exploring and strengthening collaboration in research projects and capacity building initiatives on diverse subjects of common interest.

5. Human Resource Development Network (HRDN), Islamabad
This MoU is aimed at exploring and strengthening collaboration in research projects and capacity building initiatives, networking and linkages on diverse subjects of common interest.

6. Ozair Hanafi School of Learning (OHSOL)
Under this MoU, SZABIST and OHSOL would collaborate to strengthen the culture and spirit of entrepreneurship in the country and among the students.

7. Universal Academic Management Organization (UAMO), UAE
Under the collaborative agreement, UAMO will offer credited and non-credited academic and training programs at SZABIST Dubai campus.

8. UN Global Compact Pakistan Local Network Project
This MoU pertains to the development of three case studies on the best socially responsible practices in the country.

9. George Mason University (GMU)
This MoU confirms SZABIST’s participation with GMU’s School of Public Policy for providing higher education solution services to the United States Agency for International Development and its units.

10. Peritus, Islamabad
This MoU promotes cooperation in research projects and capacity building activities on diversified subjects.

11. KaiSoft Pvt. Ltd., Pakistan
This MoU facilitates joint research, workshops and seminars, and sharing of knowledge and expertise.

12. AGEHI Resource Centre SACHET, Pakistan
This MoU facilitates joint research, dialogue among scholars, faculty exchange, joint diploma or certificate courses, and various capacity building activities.

13. The International Committee of the Red Cross (ICRC)
This MoU pertains to ICRC’s financial contribution to SZABIST Law Society’s International Humanitarian Law Moot Court.

14. EMC Computer Systems Austria GmbH
Under the agreement, EMC shall facilitate the students of SZABIST enrolled in the IT program with free-of-cost elective education programs and possible employment with EMC.

15. Australian institute of Entrepreneurship (AIE)
This MOU allows AIE and SZABIST to work on enriching vocational education in Pakistan with innovative and dynamic entrepreneurship programs.
16. The University of Wales Newport Business School
Under the agreement, University of Wales will confer its degree to SZABIST students on completion of their final year, to be attended in UK, of the undergraduate program BA (Hons) Business Studies.

17. University of Northampton, UK (Under Renewal)
Under this MoU, both the universities agree to cooperate in academic exchanges, joint program development, and faculty and student exchange.

18. Chinggis Khaan University, Mongolia (Under Renewal)
This MoU requires that both universities explore cooperation in education, research and cultural exchange.

19. Virginia Polytechnic Institute and State University Blacksburg, Virginia, USA (under renewal)
This MoU facilitates exchanges and cooperative initiatives between the universities in the areas of instruction, development, research, and community service.

20. State University of New York at Buffalo (SUNYAB)
This MoU relates to SUNYAB working with SZABIST in the fields of food sciences and technology, animal and plant genetics, textile engineering, electrical engineering, marine biology, and mining engineering.

21. Asia Academy of Film & Television (AAFT), Noida, India
This MoU pertains to the development of programs in media arts and sciences including joint seminars, skill development programs, and student, staff, and faculty exchange.

22. The Philippines Women’s University (PWU), Manila
This MoU promotes the educational, social and economic well-being of students and faculty through joint seminars, exchanges, and visits.
FACULTY OF MANAGEMENT SCIENCES

SZABIST prepares students for leadership roles in business. SZABIST offers multi-disciplinary course work to provide students with an understanding of the functioning and complexities of the corporate world. The course work at SZABIST is an intensive study in the latest curriculum through activity-and strategy-based methodology, and offers concentration in Management, Marketing, Finance, Human Resource Management, and IT.

THE PROGRAM AND FACULTY

Every effort has been taken to design an academic program at SZABIST which conforms to standards of internationally recognized universities, and caters to the needs of businesses and industry.
FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST offers a four-year BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses and a 6-credit Research Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing, Finance or IT. To obtain the BBA degree, the students have to complete 144 credit hours and an internship. The degree needs to be completed within seven years.

First Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>BA 1101 Introduction to Accounting</td>
</tr>
<tr>
<td>BA 1102 Microeconomics</td>
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<tr>
<td>BA 1105 English Writing Skills</td>
</tr>
<tr>
<td>BA 1106 Islamiat and Pakistan Studies/Humanities</td>
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<tr>
<td>BA 1108 IT in Business</td>
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<tr>
<td>BA 1109 Personal Management and Communication</td>
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<tr>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>BA 1201 Financial Accounting</td>
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<tr>
<td>BA 1202 Macroeconomics</td>
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<tr>
<td>BA 1203 Management Principles</td>
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<tr>
<td>BA 1204 Maths for Business</td>
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<tr>
<td>BA 1206 Oral Communication and Presentation Skills</td>
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<tr>
<td>BA 1211 Logic and Critical Thinking</td>
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Second Year

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<tr>
<th>Fall Semester</th>
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</thead>
<tbody>
<tr>
<td>BA 2301 Introduction to Business Finance</td>
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<tr>
<td>BA 2303 Marketing Principles</td>
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<tr>
<td>BA 2307 Sociology</td>
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<tr>
<td>BA 2311 Business Statistics</td>
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<tr>
<td>BA 2312 Human Behavior</td>
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<tr>
<td>BA 2408 Cost Accounting</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>BA 2401 Money and Banking</td>
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<tr>
<td>BA 2402 Retail Management</td>
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<tr>
<td>BA 2403 Business Ethics</td>
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<tr>
<td>BA 2406 Business and Electronic Communication</td>
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<tr>
<td>BA 3504 Organizational Behavior</td>
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<td>BA 3507 Consumer Behavior</td>
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Third Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>BA 3501 Financial Markets and Institutions</td>
</tr>
<tr>
<td>BA 3508 Media Management</td>
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<tr>
<td>BA 3605 Statistical Inference</td>
</tr>
<tr>
<td>BA 4706 Development Economics</td>
</tr>
<tr>
<td>BA 4801 Law and Taxation</td>
</tr>
<tr>
<td>BA xxxx OptionalI (as offered by Campus)</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>BA 3601 Financial Management</td>
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<tr>
<td>BA 3602 Marketing Management</td>
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<tr>
<td>BA 3607 Operations Management</td>
</tr>
<tr>
<td>BA 3603 Business Research Methods</td>
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<tr>
<td>BA 4804 Human Resource Management</td>
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<tr>
<td>BA xxxx OptionalII (as offered by Campus)</td>
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Fourth Year

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<tr>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>BA 3505 Quantitative Skills</td>
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<tr>
<td>BA 4704 Management Information Systems</td>
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<tr>
<td>BA 4705 Services Marketing</td>
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<tr>
<td>BA 4814 Project Management</td>
</tr>
<tr>
<td>BA 4xxx Elective I</td>
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<tr>
<td>BA 4xxx Elective II</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>BA 3502 Entrepreneurship</td>
</tr>
<tr>
<td>BA 3609 Pakistan Economy</td>
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<tr>
<td>BA 4807 Research Project</td>
</tr>
<tr>
<td>BA 4xxx Elective III</td>
</tr>
<tr>
<td>BA 4xxx Elective IV</td>
</tr>
</tbody>
</table>

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed. Full-time academic load is 6 courses. All students are required to register for full load in the first semester.
## Internship
The internship is scheduled for summer at the end of third year. At the end of the 6 week internship, all students are required to submit a comprehensive report giving details of their experience and learning.

## Optional Courses (Compulsory courses optional to offer by Campus)
- BA 3519  Current Affairs
- BA 3506  Foreign Languages
- BA 3619  Enterprise Management
- BA 4707  Marketing Research*
- BA 4701  Islamic Banking and Finance*
- BA 4842  Graphic Design for Multimedia*

*Can be taken as an Elective if not offered by Campus as a compulsory course.

## Elective Courses
### Management
- BA 4116  Supply Chain Management
- BA 4216  Hiring for Success
- BA 4711  Change Management
- BA 4712  Industrial Relations and Labor Laws
- BA 4713  Leadership and Motivation Techniques
- BA 4813  Training and Development
- BA 4815  Event Management
- BA 4826  Talent Management
- BA 4812  Recruitment and Selection
- BA 4117  Salary and Compensation

### Marketing
- BA 4707  Marketing Research*
- BA 4116  Supply Chain Management
- BA 4217  Experiential Marketing
- BA 4721  Advertising
- BA 4722  Brand Management
- BA 4815  Event Management
- BA 4816  Industrial Marketing
- BA 4819  Product Management
- BA 4824  Sales Management
- BA 4842  Graphic Design for Multimedia*
- BA 4739  Export Marketing
- BA 4125  Emerging Media
- BA 4821  Media Planning

### Finance
- BA 4214  Micro Finance
- BA 4218  Financial Research
- BA 4719  Investment Banking
- BA 4732  Corporate Finance
- BA 4734  International Banking
- BA 4831  Portfolio and Investment Management
- BA 4833  Security Analysis
- BA 4834  Treasury and Funds Management
- BA 4855  Financial Risk Analysis
- BA 4752  Financial Reporting and Analysis
- BA 4756  Econometrics
- BA 4727  Dynamics of Banking
- BA 4115  Derivatives
- BA 4724  Financial Modeling
- BA 4701  Islamic Banking and Finance*

### Information Technology
- BA 4224  e-Marketing Strategies
- BA 4714  e-Business and e-Commerce Management
- BA 4745  Information System Audit
- BA 4822  Media Production
- BA 4842  Graphic Design for Multimedia*
- BA 4844  Operations Research
EXEcutive MBA
The EMBA is a 2 years program spread over six semesters and consists of 66 credit hours of teaching. 20 courses, 1 Business Project (3 credits) and 1 Research Project (3 credits) are needed to graduate. Maximum time limit to complete the EMBA Degree is 5 years.

First Year

First Semester
BE 492 Business Management
BE 417 Accounting for Business
BE 447 Managerial Communication

Second Semester
BE 413 Quantitative Analysis for Decision Making
BE 415 Contemporary Marketing
BE 421 Economics for Business

Third Semester
BE 414 Business Finance
BE 416 Organizational Behavior
BE 418 Business Research Methods
BE 434 Marketing Management

Second Year

Fourth Semester
BE 423 Human Resource Management
BE 443 Entrepreneurship and Family Businesses
BE 478 Business Project
BE 4xx Elective-I (Marketing, HR, Finance and Supply Chain)

Fifth Semester
BE 419 Strategic Management
BE 444 Ethics and Corporate Governance
BE 4xx Elective - II (Marketing, HR, Finance and Supply Chain)
BE 4xx Elective - III (Marketing, HR, Finance and Supply Chain)

Sixth Semester
BE 445 Managerial Accounting and Control
BE 449 Operations and Supply Chain Management
BE 451 Business Application of IT
BE 448 Research Project (3 Credits)

Electives

Marketing
BE 473 Advertising
BE 474 Brand Management
BE 436 Retail Management
BE 432 Services Marketing
BE 472 Media Planning and Management
BE 484 Consumer Behavior

Finance
BE 481 Corporate Finance
BE 424 International Banking and Finance
BE 482 Islamic Banking and Finance
BE 487 Portfolio and Investment Management
BE 488 Project Evaluation
BE 483 Analysis of Financial Statements

Human Resource Management
BE 427 Leadership and Motivational Techniques
BE 471 Compensation Management
BE 486 Training and Development
BE 476 Recruitment and Selection
BE 485 Performance Appraisal

Supply Chain Management
BE 428 Supply Chain Management
BE 493 Dynamics of Logistics and Distribution
BE 494 Operational Planning in Supply Chain
BE 495 Strategic Procurement in SCM

The University reserves the right to change its programs and policies at any time without prior notice. All courses may not be offered every year. Alternate courses may be substituted as and when needed.
# MBA Program

(36 credit hours program for students with 4-years BBA degree)

For students with a 4 years BBA degree the duration of the MBA is 1.5 years. 10 MBA courses (30 credits) and a Thesis / Research Project (6 credits) are needed to graduate. Students are also required to complete a 6-week internship. The maximum duration to complete this degree is 5 years.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>BA 5103 Advanced Research Methods</td>
<td>BA 5308 International Business</td>
</tr>
<tr>
<td>BA 5104 Strategic Management</td>
<td>BA 5318 Organizational Development and Analysis</td>
</tr>
<tr>
<td>BA 5xxx Elective-I</td>
<td>BA 5319 Research Project (6 credits) or</td>
</tr>
<tr>
<td>BA 5xxx Elective-II</td>
<td>BA 5xxx Thesis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th><strong>Second Year</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 5203 Strategic Marketing</td>
<td>All courses may not be offered every semester.</td>
</tr>
<tr>
<td>BA 5208 Strategic Finance</td>
<td>Alternative courses may be substituted as and</td>
</tr>
<tr>
<td>BA 5xxx Elective III</td>
<td>when required.</td>
</tr>
<tr>
<td>BA 5xxx Elective IV</td>
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</tbody>
</table>

# MBA Program

(72 credit hours program for students with a 4-years non BBA degree)

For students with a 4 years non BBA degree / 16 years of education, the duration of the MBA program is 2 to 2.5 years. 22 courses (66 credits) and a Thesis /Research Project (6 credits) are needed to graduate. Students are also required to complete a 6-week internship and clear the SZABIST comprehensive exam. The maximum duration to complete this degree is 5 years.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>BA 5301 Financial Accounting</td>
<td>BA 5103 Advanced Research Methods</td>
</tr>
<tr>
<td>BA 5108 Business Management</td>
<td>BA 5104 Strategic Management</td>
</tr>
<tr>
<td>BA 5418 Managerial Communication</td>
<td>BA 5208 Strategic Finance</td>
</tr>
<tr>
<td>BA 5305 Statistics and Mathematics for Business</td>
<td>BA 5308 International Business</td>
</tr>
<tr>
<td>BA 5404 Marketing Principles</td>
<td>BA 5xxx Elective-I</td>
</tr>
<tr>
<td>BA 5401 Introduction to Business Finance</td>
<td>BA 5xxx Elective-II</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th><strong>Spring Semester</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 5106 Marketing Management</td>
<td>BA 5203 Strategic Marketing</td>
</tr>
<tr>
<td>BA 5205 Human Resource Management</td>
<td>BA 5318 Organizational Development and Analysis</td>
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<tr>
<td>BA 5105 Financial Management</td>
<td>BA 5xxx Elective III</td>
</tr>
<tr>
<td>BA 5403 Management Information Systems</td>
<td>BA 5xxx Elective IV</td>
</tr>
<tr>
<td>BA 5406 Entrepreneurship</td>
<td>BA 5319 Research Project (6 credits) or</td>
</tr>
<tr>
<td>BA 5408 Business Economics</td>
<td>BA 5xxx Thesis</td>
</tr>
</tbody>
</table>

All courses may not be offered every semester. Alternative courses may be substituted as and when required.
**MBA PROGRAM**
(90 credit hours program for students with a 2-3 years undergraduate degree)

For students with 2 to 3 years undergraduate degree, the duration of the MBA program is 3 to 3.5 years. 28 courses (84 credits) and a Thesis/Research Project (06 credits) are needed to graduate. Students are also required to complete a 6-week internship and clear the SZABIST Comprehensive Exam. The maximum duration to complete this degree is 5 years.

<table>
<thead>
<tr>
<th><strong>First Year</strong></th>
<th><strong>Third Year</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>BA 5317 English Writing Skills</td>
<td>BA 5103 Advanced Research Methods</td>
</tr>
<tr>
<td>BA 5306 Computer Orientation and Packages</td>
<td>BA 5104 Strategic Management</td>
</tr>
<tr>
<td>BA 5301 Financial Accounting</td>
<td>BA 5208 Strategic Finance</td>
</tr>
<tr>
<td>BA 5108 Business Management</td>
<td>BA 5308 International Business</td>
</tr>
<tr>
<td>BA 5311 Personal Management</td>
<td>BA 5xxx Elective-III</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td>BA 5408 Business Economics</td>
<td>BA 5203 Strategic Marketing</td>
</tr>
<tr>
<td>BA 5404 Marketing Principles</td>
<td>BA 5318 Organizational Development and Analysis</td>
</tr>
<tr>
<td>BA 5418 Managerial Communications</td>
<td>BA 5xxx Elective IV</td>
</tr>
<tr>
<td>BA 5305 Statistics and Mathematics for Business</td>
<td>BA 5319 Research Project (6 credits) or</td>
</tr>
<tr>
<td>BA 5401 Introduction to Business Finance</td>
<td>BA 5xxx Thesis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Second Year</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>BA 5403 Management Information Systems</td>
</tr>
<tr>
<td>BA 5207 Organizational Behavior</td>
</tr>
<tr>
<td>BA 5405 Statistical Inference</td>
</tr>
<tr>
<td>BA 5105 Financial Management</td>
</tr>
<tr>
<td>BA 5106 Marketing Management</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td>BA 5406 Entrepreneurship</td>
</tr>
<tr>
<td>BA 5205 Human Resource Management</td>
</tr>
<tr>
<td>BA 5411 Cost and Management Accounting</td>
</tr>
<tr>
<td>BA 5xxx Elective-I</td>
</tr>
<tr>
<td>BA 5xxx Elective-II</td>
</tr>
</tbody>
</table>

All courses may not be offered every semester. Alternative courses may be substituted as and when required.

**MBA ELECTIVES**

**Management**
- BA 5111 Business Process Re-engineering
- BA 5112 Change Management
- BA 5113 Industrial Management and Labor Relations
- BA 5114 Leadership and Motivation Techniques
- BA 5115 Operations Research
- BA 5138 Econometrics
- BA 5212 Petroleum Business Management and Risk Analysis
FACULTY OF MANAGEMENT SCIENCES

BA 5213  Project Management
BA 5214  Supply Chain Management  
BA 5218  Organizational Strategy and Effectiveness
BA 5238  Organization Development  

Human Resource Management
BA 5113  Industrial Management and Labor Relations
BA 5114  Leadership and Motivation Techniques
BA 5117  Performance Appraisal
BA 5118  Compensation Management
BA 5128  Leadership Readiness
BA 5216  Training and Development
BA 5215  Recruitment and Selection  

Finance
BA 5119  Micro Finance
BA 5131  Advance Financial Management  
BA 5132  Analysis of Financial Statements
BA 5133  Corporate Finance
BA 5134  Derivatives
BA 5135  Financial Markets and Institutions
BA 5137  International Banking
BA 5212  Petroleum Business Management and Risk Analysis
BA 5231  Islamic Banking and Finance
BA 5232  Portfolio and Investment Management
BA 5233  Project Evaluation
BA 5234  Security Analysis
BA 5235  Treasury and Funds Management

Marketing
BA 5121  Advertising  
BA 5122  Brand Management
BA 5123  Consumer Behavior
BA 5124  Customer Relationship Management
BA 5125  Ethics in Marketing
BA 5126  Export Marketing
BA 5127  Global Marketing
BA 5129  Services Marketing
BA 5221  Marketing Research
BA 5223  Marketing of Financial Services
BA 5224  Media Planning and Management
BA 5225  Personal Selling
BA 5226  Pharmaceutical Marketing
BA 5227  Sales Management
BA 5228  Retail Management

MIS
BA 5241  e-Commerce  
BA 5169  Technology Management and Innovation
BA 5163  Enterprise Resource Planning
BA 5111  Business Process Re-engineering
BA 5168  Business Intelligence
BA 5268  Data Warehousing and Mining

Supply Chain Management
BA 5214  Supply Chain Management
BA 5263  Dynamics of Logistics and Distribution
BA 5265  Operational Planning in Supply Chain
BA 5266  Strategic Procurement in SCM

INTERNSHIP
All MBA students are required to complete a 6-weeks internship. SZABIST has its separate internship and placement department (EDC) that can help students find a suitable company for their internship. Completion of the internship is a degree requirement for all MBA programs. Students can produce their current employment record as an alternative to the internship program, provided such employment experience is recognized by SZABIST.

COMPREHENSIVE EXAMINATION
Students enrolled in the MBA (36 credits) program are not required to take the SZABIST Comprehensive Exam. However, students enrolled in the MBA (72 credits) and MBA (90 credits) programs are required to clear the Comprehensive Exam.

Rules of Comprehensive Exam can be obtained separately from the Examination Department.
MBA Program (Banking & Finance)

MBA (36-credit hours program for student with a 4 years BBA degree)

For students with a 4-years BBA degree, the duration of the MBA (B&F) is 1.5 years. 10 MBA courses (30 credits) and a Thesis/Research Project (6 credits) are needed to graduate. Students are also required to complete a 6-week internship. The maximum duration to complete this degree is 5 years.

**First Year**

**Fall Semester**
- BA 5103 Advanced Research Methods
- BA 5132 Analysis of Financial Statements
- BA 5235 Treasury and Funds Management
- BA 5xxx Elective - I

**Spring Semester**
- BA 5175 Banking Operations
- BA 5273 Prudential Regulations
- BA 5139 Financial Risk Analysis
- BA 5xxx Elective - II

**Second Year**

**Fall Semester**
- BA 5xxx Elective - III
- BA 5xxx Elective - IV
- BA 5319 Research Project (6 credits) or
- BA 5xxx Thesis

All courses may not be offered every semester. Alternative courses may be substituted as and when required.

MBA Program (Banking & Finance)

MBA (72-credit hours program for students with a 4 years non BBA degree)

For students with a 4 years non BBA degree/professional degree/16 years of education, the duration of the MBA (B&F) program is 2 to 2.5 years. 24 courses (72 credits) are needed to graduate. Students are also required to complete a 6-weeks internship and clear the SZABIST Comprehensive Exam. The maximum duration to complete this degree is 5 years.

**First Year**

**Fall Semester**
- BA 5301 Financial Accounting
- BA 5303 Management Principles
- BA 5305 Statistics and Mathematics for Business
- BA 5403 Management Information Systems
- BA 5304 Business and Electronic Communication
- BA 5302 Microeconomics

**Spring Semester**
- BA 5106 Marketing Management
- BA 5104 Strategic Management
- BA 5135 Financial Markets and Institutions
- BA 5105 Financial Management
- BA 5205 Human Resource Management
- BA 5402 Macroeconomics

**Second Year**

**Fall Semester**
- BA 5175 Banking Operations
- BA 5273 Prudential Regulations
- BA 5132 Analysis of Financial Statements
- BA 5103 Advanced Research Methods
- BA 5xxx Elective - I
- BA 5xxx Elective - II
### Spring Semester
- BA 5417 Advanced Credit Management
- BA 5139 Financial Risk Analysis
- BA 5235 Treasury and Funds Management
- BA 5219 Research Project (3 credits)
- **BA 5xxx** Elective - III
- **BA 5xxx** Elective - IV

All courses may not be offered every semester. Alternative courses may be substituted as and when required.

### Elective Courses:
- **BA 5xxx** Asset Management
- **BA 5xxx** Banking Crisis and Management
- **BA 5xxx** Behavioral Finance
- **BA 5xxx** Capital Markets
- **BA 5xxx** Commercial Banking
- **BA 5xxx** Corporate Investment and Banking
- **BA 5xxx** Corporate Restructuring and Design
- **BA 5xxx** Customer Relationship Management
- **BA 5xxx** Financial Intermediations
- **BA 5xxx** Financial Modeling
- **BA 5xxx** Financial Planning and Budgeting
- **BA 5xxx** Marketing of Financial Services
- **BA 5xxx** Financial Systems
- **BA 5xxx** Fixed Income Investments
- **BA 5xxx** Foreign Exchange Operations and Management
- **BA 5xxx** Banking Insurance
- **BA 5xxx** Islamic Banking and Finance
- **BA 5xxx** Information System Audit
- **BA 5xxx** International Trade and Finance
- **BA 5xxx** Leasing Strategies and Regulations
- **BA 5xxx** Mergers and Acquisitions in Banking
- **BA 5xxx** Options and Derivatives
- **BA 5xxx** Project Financing
- **BA 5xxx** Micro and SME Finance
- **BA 5xxx** Theory and Policy of Modern Finance
- **BA 5xxx** Venture Capital and Private Equity
- **BA 5xxx** Working Capital Management

### Internship
All MBA [B&F] students are required to complete a 6-week Internship. SZABIST has its separate internship and placement department (EDC) that can help students find suitable company for their internship. Completion of the Internship is a degree requirement for all MBA programs. Students can produce their current employment record as an alternative to the Internship program, provided such employment experience is recognized by SZABIST.

### Comprehensive Examination
Students enrolled in the MBA B&F [36 credits] program are not required to take the SZABIST comprehensive exam. However students enrolled in the MBA B&F [72 credits] program are required to clear the Comprehensive Exam. Rules of Comprehensive Exam can be obtained separately from the Examination Department.
Masters in Project Management (MPM)

The Masters in Project Management is designed to enable individuals to manage complex projects of today through modern project management approach. MPM is a one year evening program comprising 33 credit hours spread over three semesters. 11 courses are required to graduate.

First Year

**Fall Semester**
PM 5102  Fundamentals of Project Management
PM 5101  Financial Management for Project Management
PM xxxx  Elective I
PM 5310  SAP Training

**Spring Semester**
PM 5201  Project Scheduling, Planning and Time Management
PM 5301  Project Quality Management
PM 5103  Project Cost Management
PM 5309  Project in Primavera
PM xxxx  Elective II

**Summer Semester**
PM 5303  Project Monitoring, Evaluation and Control Management
PM 5xxx  Project

**Elective Courses**
PM 5151  Enterprise Resource Planning
PM 5152  Innovation and Technology Management
PM 5153  Managing Projects
PM 5251  Procurement and Contract Management
PM 5252  Project Change Management
PM 5253  Project Human Resource Management
PM 5255  Project Change and Risk Management
PM 5351  Project Risk Management
PM 5352  Project Stakeholders Management
PM 5353  Research Methods for Project Managers

All courses may not be offered every semester. Alternative courses may be substituted as and when required.
**MS (Management Sciences)**
The student is required to complete 6 courses, 2 Independent Studies (IS), and a thesis, with a minimum of 30 credit hours. The break-up of 30 credit hours is as follows:

- 2 compulsory courses
- 2 core courses
- 2 Independent Studies (ISs)
- 2 electives (Can be chosen from MBA, MSMS, MS SS or IT)
- Thesis or 02 courses

**First Year**

**Fall Semester**
- MS 5204 Quantitative Tools for Research
- MS 5239 Advanced Research Methods and Techniques
- MS 5xxx Core I
- MS 5xxx Elective I

**Spring Semester**
- MS 5xxx Core II
- MS 5108 Independent Study I
- MS 5208 Independent Study II
- MS 5xxx Elective II

**Second Year**

**Fall Semester**
- MS 5xxx Elective/Thesis

Summer is not a regular semester. Student can however register in IS/Thesis/Dissertation in 3 credits only.

**Compulsory Courses**
- MS 5204 Quantitative Tools for Research
- MS 5239 Advanced Research Methods and Techniques

**Core Courses**
- MS 5101 Change Management
- MS 5102 Organizational Development
- MS 5104 Strategic Marketing Decisions
- MS 5237 Business Finance and Decision Making
- MS 5238 Strategic Human Resource Development

**Electives**
- MS 5103 Managerial Economics
- MS 5105 Econometrics
- MS 5112 Strategic Management
- MS 5117 Qualitative Tools and Analysis
- MS 5203 Global Corporate Strategy
- MS 5205 International Business Management
- MS 5215 Corporate Finance
- MS 5216 Corporate Governance
- MS 5225 Leadership and Motivation Techniques
- MS 5241 Public Administration and Governance

Maximum two interdisciplinary courses can be allowed with the approval of the concerned Program Managers. Elective courses may vary from time to time. All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.

Quantitative Tools for Research and Advanced Research Methods and Techniques are compulsory for MS and PhD programs. Students cannot register in ISs without completion of compulsory courses.

Summer semester is not a regular semester. Only one IS or 3 credits in thesis/dissertation are allowed. IS will be presented in Fall semester.
PhD (Management Sciences)
To obtain the PhD degree, students have to complete a minimum of 48 credits. 18 credits are required to be completed through course work which includes 4 core/elective courses and 2 independent studies.

Remaining 30 credits are required to be completed through dissertation.

Quantitative Tools for Research and Advanced Research Methods and Techniques are pre-requisite for ISs and dissertation. Student cannot take more than 3 courses in a semester including IS.

Breakdown of courses is as under:
- 02 Compulsory courses*
- 02 Core courses
- 02 Electives
- 02 ISs

First Year

Fall Semester
MS 6106  *Advanced Research Methods and Techniques
MS 6212  *Quantitative Tools for Research
MS 6xxx  Core I

Spring Semester
MS 6xxx  Core II
MS 6xxx  Independent Study I
MS 6xxx  Independent Study II

Second Year

Fall Semester
MS 6xxx  Dissertation

Spring Semester
MS 6xxx  Dissertation

Summer is not a regular semester. Student can however register in IS or Dissertation in 3 credits only.

Compulsory courses of PhD degree will be offered jointly with MS MS and two core courses will be offered by the PhD program manager which may be different in different semesters.

For the description of the elective, core and compulsory courses, please refer to the MS MS program.

* Those who completed compulsory courses in their Masters degree earlier in SZABIST are required to take electives in place of compulsory courses.
FACULTY OF COMPUTING

Computing is the understanding of scientific basis of computations and computing machines. It involves analysis, development and implementation of mathematical algorithms to solve computational problems; understanding computer electronics; study of operating systems, languages, compilers, and networks for effective communication and control of complex computing problems, designing and implementation of man-to-machine interfaces. This also involves efficient and effective methods of solving a variety of computational problems scientifically.

The Faculty of Computing at SZABIST provides an unmatchable environment for imparting Computing education. SZABIST has developed an organizational network of reputable multinational and national corporations for collaboration in Computing.

THE PROGRAM AND FACULTY

Every effort has been taken to design an academic program at SZABIST that conforms to the standards of internationally recognized universities. Initially, a formal collaboration signed with the State University of New York at Buffalo in 1995 was effective for the development of these programs. The Computing Academic Committee has an updated, industry-based curriculum of Software Engineering, Telecommunications, Information Technology, and Computer Sciences.
BS COMPUTER SCIENCE

For the BS program in computer science, the students are required to complete 40 courses. To obtain the BS degree, the students should have completed a minimum of 130 credit hours, internship, and passed the Comprehensive Examination.

First Year

**Fall Semester**
- CS 1102 Calculus and Analytical Geometry
- CS 1111 English Composition and Comprehension
- CS 1117 Introduction to Computing
- CS 1206 Islamiat and Pakistan Studies/Humanities
- CS 1118 Fundamentals of Programming

**Spring Semester**
- CS 1108 Object Oriented Programming
- CS 1211 Technical and Business Writing
- CS 3505 Discrete Mathematical Structures
- CS xxxx Core
- CS xxxx Core

Second Year

**Fall Semester**
- CS 2311 Communication and Presentation Skills
- CS 2305 Linear Algebra and Differential Equations
- CS 1212 Statistics and Probability
- CS 2313 Data Structures and Algorithms
- CS xxxx Core

**Spring Semester**
- CS 2302 Computer Networks and Data Communication
- CS 2412 Database Systems
- CS 2318 Operating Systems Concepts
- CS xxxx Core
- CS xxxx Core

Third Year

**Fall Semester**
- CS 3517 Software Engineering Concepts
- CS 2415 Human Computer Interaction
- CS 4xxx University Elective I

**Spring Semester**
- CS 3625 Advanced Software Engineering
- CS xxxx Core
- CS xxxx Core
- CS 4xxx Elective
- CS 4xxx Elective

Fourth Year

**Fall Semester**
- CS 4709 Senior Design Project - I
- CS 4805 Professional Practices
- CS xxxx Core
- CS 4xxx Elective
- CS 4xxx Elective

**Spring Semester**
- CS 4809 Senior Design Project - II
- CS 4xxx University Elective - II
- CS 4xxx Elective
- CS 4xxx Elective
- CS 4xxx Elective

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.

Full time academic load is six courses. All students are required to register for full load in the first semester.

**INTERNSHIP**

The Internship is scheduled for summer at the end of third year. At the end of the six week Internship, all students are required to submit a comprehensive report, giving details of their experience and learning.
COMPREHENSIVE EXAMINATION
The Comprehensive Examination must be passed by all BS candidates.

CORE COURSES
CS 1203  Physics
CS 2314  Finite Automata Theory and Formal Languages
CS 2411  Computer Organization and Assembly Language
CS 2414  Multivariate Calculus
CS 3514  Differential Equations
CS 3619  Numerical and Symbolic Computation
CS 4702  Artificial Intelligence
CS 4747  Systems Programming

ELECTIVES / UNIVERSITY ELECTIVES
CS 4511  IT Innovations
CS 4516  Applied Data Mining
CS 4517  Embedded Programming
CS 4615  Android Application Development
CS 4616  Advanced Internet Architecture
CS 4617  iOS Development
CS 4711  Software Project Management
CS 4729  Advanced Telecommunication Technologies
CS 4731  Internet Business Models
CS 4742  Managing Data-Center Projects
CS 4745  Linux Administrator-I
CS 4746  Oracle Administration-I
CS 4759  Control Systems
CS 4769  Business Process Re-engineering
CS 4771  DNA Computing
CS 4794  Bioinformatics
CS 4815  Technopreneurship
CS 4816  Enterprise Resource Planning
CS 4825  Switching and Routing
CS 4827  Wireless and Mobile Technologies
CS 4828  Auditing Information Systems
CS 4837  Advanced Programming Techniques
CS 4838  Network Security and Encryption
CS 4844  Ethical Hacking
CS 4845  Linux Administrator-II
CS 4878  Mechatronics

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.
MS Computer Science

For the MS program in Computer Science, the students are required to complete 9 courses which include 5 core courses and 4 electives and a Thesis/Research Project. Credit hour weightage is in accordance with classroom and laboratory assignments. Hence to obtain an MS degree, the students should have completed a minimum of 33 credit hours, passed the Comprehensive Examination (for those with a non-Thesis option). For students other than a 4-year BS Degree, 1-2 years conversion courses are required to complete the MS degree.

Structure of MS in Computer Science

<table>
<thead>
<tr>
<th>Core Area</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core</td>
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</tr>
<tr>
<td>Elective</td>
<td>12</td>
</tr>
<tr>
<td>Thesis/Research Project/Course work</td>
<td>06</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>33</td>
</tr>
</tbody>
</table>

MS COMPUTER SCIENCES (MSCS)
(For students with a 4 years BS or 2 years MCS degree)

First Year

Fall Semester
CS 5101  Advanced Algorithms Analysis
CS 5102  Theory of Computation
CS 5105  Research Methodology
CS 5xxx  Elective I (Independent Study I)

Spring Semester
CS 5202  Advanced Computer Architecture
CS 5201  Advanced Operating Systems
CS 5xxx  Elective II
CS 5xxx  Elective III (Independent Study II)

Second Year

Fall Semester
CS 5xxx  Elective-IV
CS 5xxx  Thesis/Research Project/Course Work

Spring Semester
CS 5xxx  Thesis/Research Project/Course Work
MS COMPUTER SCIENCES (MSCS)
(For students with a 4 years Professional Degree)

First Year

Fall Semester
CS 5101 Advanced Algorithms Analysis
CS 5102 Theory of Computation
CS 5105 Research Methodology
CS 5xxx Elective I (Independent Study I)

Spring Semester
CS 5202 Advanced Computer Architecture
CS 5201 Advanced Operating Systems
CS 5xxx Elective II
CS 5xxx Elective III (Independent Study II)

Summer Semester
CS 4xx Co-requisite I
CS 4xx Co-requisite II

Second Year

Fall Semester
CS 4xxx Co-requisite III
CS 4xxx Co-requisite IV
CS 5xxx Elective -IV
CS 5xxx Thesis/Research Project/Course Work

Spring Semester
CS 4xxx Co-requisite V
CS 4xxx Co-requisite VI
CS 5xxx Thesis/Research Project/Course Work

Co-requisite courses
(6 out of the following 9 courses)
CS 413 Operating Systems
CS 414 Digital Systems
CS 418 Software Engineering Analysis
CS 428 Network Security
CS 431 Object Oriented Techniques
CS 435 Programming Languages and Data Structure
CS 437 Computer Organization
CS 442 Software Development and Modeling
CS 471 Database Design and Application
MS COMPUTER SCIENCES (MSCS)
(For students with a 3 year BCS degree)

First Year

Fall Semester
CS 4xxx Elective I
CS 4xxx Elective II
CS 4xxx Elective III
CS 4xxx Elective IV

Spring Semester
CS 4xxx Elective V
CS 4xxx Elective VI
CS 4xxx Elective VII
CS 4xxx Elective VIII

Summer semester
CS 4xxx Elective IX
CS 4xxx Elective X

Second Year

Fall Semester
CS 5101 Advanced Algorithms Analysis
CS 5102 Theory of Computation
CS 5105 Research Methodology
CS 5xxx Elective I (Independent Study I)

Spring Semester
CS 5202 Advanced Computer Architecture
CS 5201 Advanced Operating Systems
CS 5xxx Elective II
CS 5xxx Elective III (Independent Study II)

Third Year

Fall Semester
CS 5xxx Elective IV
CS 5xxx Thesis/Research Project/Course Work

Spring Semester
CS 5xxx Thesis/Research Project/Course Work

Full time academic load is four courses. All students are required to register for full load in the first semester.

COMPREHENSIVE EXAMINATION
All MS students registered/enrolled in the non-thesis MS program must pass the Comprehensive Examination.

Specialization Areas
SZABIST is offering specialization in Information Technology (IT), Software Engineering (SE) and Information Security Management (ISM). Student has to complete 3 courses for specialization in a particular field.

IT courses for specialization
IT 5106 Telecom Management
IT 5102 Advanced Database Systems
IT 5211 Information Security and Assurance
IT 5218 Information Technology Infrastructure

SE courses for specialization
SE 5101 Software Requirement Engineering
SE 5102 Software System Design and Architecture
SE 5201 Software Project Management
SE 5202 Software Quality Engineering

ISM courses for specialization
ISM 5101 Security Management Systems
ISM 5102 Cryptography and Security Mechanism
ISM 5201 Network Security
ISM 5202 Information Security Technologies

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.
### FACULTY OF COMPUTING

#### MS/PhD (Computer Science)

**CS Electives**
- CS 5122 Capability Maturity Model Integration
- CS 5123 Bioinformatics
- CS 5128 Digital Image Processing
- CS 5146 Mechatronics
- CS 5154 Planning and Disaster Recovery
- CS 5155 Cluster Computing
- CS 5156 Mobile Technologies
- CS 5157 Data Warehousing and Business Intelligence
- CS 5224 Data Mining
- CS 5237 Neural Networks
- CS 5266 Artificial Intelligence
- CS 5253 DNA Computing
- CS 5255 Usability Engineering
- CS 5265 Metro Ethernet Networks
- CS 5273 Human Computer Interaction
- CS 5284 Digital Signal Processing

**MS Electives**
(Only for students with 3 years BCS degree)
- CS 4927 Information Security and Cryptography
- CS 4929 Internet Programming
- CS 4932 Mechatronics
- CS 4948 Capability Maturity Model Integration
- CS 4952 Data Warehouse Techniques
- CS 4953 Information Security Management Systems
- CS 4954 Business Continuity Planning and Disaster Recovery
- CS 4955 Introduction to IT Infrastructure
- CS 4956 Network Management and Security
- CS 4957 System Administration

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.

#### PhD (Computer Science)

Course work of 18 credits (6 courses) includes core courses, electives and independent study. Dissertation 30 credits minimum.

**First Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course(s)</th>
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<tbody>
<tr>
<td>Fall</td>
<td>CS 6101 Research Methodology, CS 6xxx Elective I, CS 6xxx Elective II</td>
</tr>
<tr>
<td>Spring</td>
<td>CS 6xxx Independent Studies, CS 6xxx Elective III, CS 6xxx Elective IV</td>
</tr>
<tr>
<td>Summer</td>
<td>CS 6xxx Dissertation</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>CS 6xxx Dissertation</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>CS 6xxx Dissertation</td>
</tr>
<tr>
<td>Spring</td>
<td>CS 6xxx Dissertation</td>
</tr>
</tbody>
</table>

Elective courses are listed under MS/PhD computer science electives following the MS Computing program.

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.
Faculty of Mechatronics Engineering

Mechatronics is a multidisciplinary field of engineering; it refers to the efficient and effective integration of mechanical systems and electronics. A mechatronics engineer unites the principles of mechanics, electronics and computing to generate a simpler, economical, reliable and versatile system.

Examples of mechatronics systems include aircraft, motor vehicles, automated manufacturing plants, robots of all types, medical and surgical devices and many others.

Mechatronics at SZABIST

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. 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 Mechatronics.
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 to ensure that students in the program are exposed to a wide spectrum of engineering knowledge and practice. Upon completion of their degree, the Bachelor of Engineering (Mechatronics) graduates will be able to:

- Understand the interdisciplinary fundamentals of mechanical engineering, electronics engineering, control systems, computer engineering, and their integration.
- Successfully identify problems, design, and optimize integrated solutions by focusing on modern mechatronics engineering practices.
- Innovate, develop and adopt new directions in their advance education.
- Demonstrate professional interaction, communicate effectively with team members, and work efficiently on multidisciplinary projects.

BE (Mechatronics Engineering) Program
SZABIST offers a four year BE (Mechatronics Engineering) degree comprising of eight semesters. BE (Mechatronics Engineering) program is a day program and consists of 45 courses (five or six courses per semester) with a total of 140 credit hours (all electives and certain courses may be offered in the evening). The maximum time limit to complete the BE degree is 7 years. To be eligible for a degree, the students are required to complete required credit hours, internship, and pass the Comprehensive Examination.

First Year

**Fall Semester**
- ME 1101 Communication and Presentation Skills
- ME 1102 Electric Circuits
- ME 1103 Engineering Drawing and Graphics
- ME 1104 Engineering Mathematics – I: Calculus and Analytical Geometry
- ME 1105 Introduction to Computer System and IT
- ME 1203 Engineering Physics

**Spring Semester**
- ME 1201 Electronic Devices and Circuits
- ME 1202 Engineering Mathematics – II: Linear Algebra and Ordinary Differential Equations (ODEs)
- ME 1106 Islamic Studies
- ME 1204 Engineering Statics
- ME 1205 Computer Programming
- ME 1206 Workshop Practice

Second Year

**Fall Semester**
- ME 2307 Data Structures and Object Oriented Programming
- ME 2302 Digital Logic Design
- ME 2303 Engineering Dynamics
- ME 2304 Engineering Mathematics – III: 3D Geometry and Vector Calculus
- ME 2305 Network Analysis
- ME 2306 Pakistan Studies

**Spring Semester**
- ME 2401 Electronics Circuit Design
- ME 2402 Electro-Mechanical Systems
- ME 2403 Engineering Mathematics – IV: Transformation Techniques
- ME 2404 Mechanics of Materials
- ME 2405 Thermodynamics
Third Year

Fall Semester
ME 3501 Engineering Mathematics – V: Numerical Methods
ME 3502 Fluid Mechanics
ME 3506 Materials and Manufacturing Processes
ME 3503 Microcontroller Based Systems
ME 3504 Sensors, Actuators and Instrumentation
ME 3507 Theory of Machines

Spring Semester
ME 3601 CAD/CAM
ME 3602 Control Systems
ME 3604 Machine Design
ME 3605 Power Electronics
ME 1205 Technical Writing Skills

Fourth Year

Fall Semester
ME 4xxx Elective-I (Engineering)
ME 4702 Engineering Economics and Project Management
ME 4703 Heat Transfer
ME 4704 Mechanical Vibrations
ME 4705 Mechatronics System Design
ME 4709 Final Design Project*

Spring Semester
ME 4801 Industrial Automation
ME 4xxx Elective-II (Engineering)
ME 4xxx Elective-III (Management Sciences)
ME 4802 Robotics
ME 4809 Final Design Project

Electives

Engineering Electives
ME 4722 Digital Signal Processing
ME 4723 Simulation and Modeling
ME 4821 Digital Image Processing
ME 4822 Introduction to Bio-Medical Engineering
ME 4721 Artificial Intelligence and Computer Vision

Management Sciences Electives
ME 4823 Engineering Management
ME 4724 Entrepreneurship
ME 4825 Research Methodology
ME 4725 Leadership and Motivation Techniques
ME 4824 Organizational Behavior

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.

Full time academic load during first semester is six courses. All students are required to register for full load in the first semester.

INTERNSHIP
The internship is scheduled for summer at the end of the third year. At the end of the six week Internship, all students are required to submit a comprehensive report, giving details of their experience and learning.

COMPREHENSIVE EXAMINATION
The Comprehensive Examination must be passed by all BE candidates.

*To be continued and graded at the conclusion of 8th Semester.
SZABIST prepares students for managerial careers in Social Sciences. SZABIST offers course work in many disciplines to provide potential managers with an understanding of the complexities of the professional world in which they will operate and of the organizations of which they will become a part. The course work at SZABIST is an intensive study of a host of disciplines, and offers majors in Psychology, Sociology, International Relations, Economics, Sindh Studies, Journalism and Media Studies.
Department of Social Sciences

BS (Social Sciences)

To obtain a BS degree in Social Sciences, the students are required to complete a total of 144 credit hours within seven (7) years. The degree consists of a total of 46 courses and a Research Project.

First Year

**Fall Semester**
- SS 1117 Computer and Web Skills
- SS 1118 English for Academic Purposes and Presentation Skills
- SS 1109 Islamiyat /Ethics and Pakistan Studies
- SS 1105 Microeconomics
- SS 1107 Community Services I
- SS 1201 Introduction to Social Sciences

**Spring Semester**
- SS 2306 Psychology
- SS 1205 Macroeconomics
- SS 2307 Sociology
- SS 1207 Community Services II
- SS 2412 International Relations
- SS 1209 Social Policy

Second Year

**Fall Semester**
- SS 2314 Study of Anthropology
- SS 2313 Introduction to Social Psychology
- SS 4705 Sindh Studies
- SS 2309 Statistics I
- SS 1255 Linguistics
- SS 1xxx Elective I

**Spring Semester**
- SS 2406 Gender Studies
- SS 2409 Statistics II
- SS 2414 Introduction to Organizational Psychology
- SS 2411 Environmental Studies
- SS 2413 Philosophy
- SS 1xxx Elective II

Third Year

**Fall Semester**
- SS 2312 Culture, Art and Society
- SS 3509 Language I
- SS 3606 Political Economy
- SS 4xxx Major I
- SS 4xxx Major II
- SS 4xxx Major III

**Spring Semester**
- SS 3504 Research Methods
- SS 3605 International Law and Human Rights
- SS 3609 Language II
- SS 4xxx Major IV
- SS 4xxx Major V
- SS 4xxx Major VI

Fourth Year

**Fall Semester**
- SS 3503 Development Studies
- SS 4707 Introduction to Health Psychology
- SS 4709 Research Project-I
- SS 4xxx Major VII
- SS 4xxx Major VIII
- SS 4xxx Major IX

**Spring Semester**
- SS 4804 Public Policy
- SS 4809 Research Project-II
- SS 2405 Enlightenment
- SS 4xxx Major X
- SS 4xxx Major XI
- SS 4xxx Major XII

**ELECTIVES**
- SS 1154 Literature
- SS 2305 Human Geography
- SS 1157 Comparative Religion
- SS 1254 World History
SS 1262  Mass Media
SS 1257  Political Science
SS 1163  Development and Politics

MAJORS

PSYCHOLOGY
SS 4111  Abnormal Psychology
SS 4112  Developmental Psychology
SS 4134  Cognitive Psychology
SS 4135  Educational Psychology
SS 4234  Psychodynamics
SS 4268  History of Psychology
SS 4167  Child Psychology
SS 4156  Clinical Psychology
SS 4114  Personality Theories
SS 4255  Counseling and Psychotherapy
SS 4211  Psychological Testing
SS 4236  Positive Psychology
SS 4168  Experimental Psychology
SS 4267  Forensic Psychology
SS 4262  Physiological Psychology

SOCIOLOGY
SS 4269  Civil Society
SS 4271  Peace Movements
SS 4138  Corporate Social Responsibility
SS 4141  Mass Media and Society
SS 4237  Post-Colonial State and Social Development
SS 4238  Social Entrepreneurship
SS 4239  Social Justice
SS 4241  Sociology of Education
SS 4242  The Sociology of Poverty
SS 4173  Social Theories
SS 4171  Class, Caste, and Ethnicity in South Asia
SS 4172  Political Sociology
SS 4272  Social Change in Pakistan
SS 4169  Citizenship
SS 4273  Urbanization

INTERNATIONAL RELATIONS
SS 4275  Foreign Policy and International Politics
SS 4274  Diplomacy, Conflict Resolution and Confidence Building Measures
SS 4219  Peace Research
SS 4222  Strategic Studies

SS 4176  Globalization and Global Governance
SS 4277  Modern Ideologies
SS 4174  Central and West Asian Studies
SS 4175  European Studies
SS 4177  Middle Eastern Studies
SS 4179  Politics of Terrorism
SS 4178  Muslim World
SS 4276  International Institutions
SS 4278  Political Geography
SS 4119  Arms Control and Disarmament
SS 4279  US and International Politics

ECONOMICS
SS 4139  Gender and Development
SS 4147  Development and Planning
SS 4181  Capabilities and Human Development
SS 4281  Fiscal and Monetary Economics
SS 4261  Mathematical Economics
SS 4183  Industrial Economics
SS 4284  Trade Economics
SS 4128  Agriculture Economics
SS 4182  Game Theory
SS 4283  Labour Economics
SS 4282  Growth
SS 4184  Poverty and Inequality
SS 4228  History of Economic Thought
SS 4249  Pakistan Economy
SS 4251  Sustainable Development

SINDH STUDIES
SS 4188  Geography and Geology of Sindh
SS 4287  History and Politics of Sindh
SS 4288  Irrigation System of Sindh
SS 4185  Agriculture in Sindh
SS 4285  Archaeology of Sindh
SS 4186  Anthropology and Culture of Sindh
SS 4286  Art and Architecture in Sindh
SS 4187  Ethnomusicology of Sindh
SS 4289  Sindh’s Economy and Commerce
SS 4292  Survey of Sindhi Literature
SS 4189  Philosophy of Sindh
SS 4192  Sindh’s Sociology I: Education and Language Policy
SS 4193  Sindh’s Sociology II: Social Structures and Development
SS 4194  Sindh’s Sociology III: Health, Gender, and Feminism
SS 4293  The Sindhi Diaspora  
SS 4291  Sindh’s Geopolitical Exigencies  
SS 4191  Sindh’s Botanical and Zoological Heritage  

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.  

Full time academic load is six courses. All students are required to register for full load in the first semester.  

INTERNSHIP  
The Internship is scheduled for summer at the end of the third year. At the end of the 6-week internship, all students are required to submit a comprehensive report, giving details of their experience and learning.  

MS (Social Sciences)  
Students are required to complete 6 courses, 2 Independent Studies (ISs), and a thesis, with a minimum of 30 credit hours. The break-up of 30 credit hours is as follows:  

- 2 Compulsory Courses  
- 2 Independent Studies (ISs)  
- 4 Electives  
- Thesis/2 additional courses instead of thesis  

**First Year**  
**Fall Semester**  
SS 5117  Advance Research Methods and Techniques  
SS 5207  Quantitative Tools for Decision Making  
SS 5xxx  Elective I  
SS 5xxx  Elective II  

**Spring Semester**  
SS 5116  Econometrics  
SS 5108  Independent Study I  
SS 5xxx  Elective III  
SS 5xxx  Elective IV  

**Summer Semester**  
SS 5208  Independent Study II  

**Second Year**  
**Fall Semester**  
SS 5109  Thesis/2 additional courses instead of Thesis  

**ELECTIVES**  
SS 5104  Politics of Geo-Economics  
SS 5111  Democratization as a Global Process  
SS 5212  NGO Management  
SS 5214  Public Policy Management  
SS 5305  Political Economy of Pakistan  
SS 5306  Sacred and Secular  
SS 5311  Environmental Studies  
SS 5312  Globalization and Developing Countries  
SS 5313  Intellectual Property Rights and Laws  
SS 5322  Topics of Political Economy  
SS 5226  Issues in Pakistan’s Political and Constitutional History  
SS 5321  History of Ideas  

* ARMT for Social Sciences, and ARMT & QTR for Economics major Students
PhD (Social Sciences)

Students are required to complete a total of 48 credit hours with 4 courses, 2 Independent Studies (IS) and a dissertation. The following is the break-up of the 48 credit hour courses:

- 2 Compulsory Courses (6 Credit Hours)
- 2 Core Courses (6 Credit Hours)
- 2 Independent Studies (6 Credit Hours)
- 1 Thesis (30 Credit Hours)

First Year

Fall Semester
- SS 6106  Advance Research Methods and Techniques
- SS 6103  Quantitative Tools for Decision Making
- SS 5xxx  Elective I

Spring Semester
- SS 6108  Independent Study I
- SS 6208  Independent Study II
- SS 5xxx  Elective II

Summer Semester
- SS 6x09  Dissertation

Second Year

Fall Semester
- SS 6x09  Dissertation

Spring Semester
- SS 6x09  Dissertation

Electives
- SS 5104  Politics of Geo-Economics
- SS 5111  Democratization as a Global Process
- SS 5212  NGO Management
- SS 5214  Public Policy Management
- SS 5305  Political Economy of Pakistan
- SS 5306  Sacred and Secular
- SS 5311  Environmental Studies
- SS 5312  Globalization and Developing Countries
- SS 5313  Intellectual Property Rights and Laws

Three interdisciplinary courses can be allowed with the approval of both the Program Managers. Elective courses may vary from time to time.
FACULTY OF SOCIAL SCIENCES

The Department of Media Sciences

In the 21st century, media in their myriad forms print, TV, radio, film, video, digital, virtual, and mobile have increasingly saturated all aspects of contemporary life. This proliferation of media presents vast opportunities and poses immense challenges. Our programs in Media Sciences are designed to help undergraduate and graduate students participate productively, both as practitioners and scholars, in this exciting and challenging environment using state of the art infrastructure.

Media Sciences constitute a field of study that encompasses the history, theory, production, content, and public effects of a variety of media including but not limited to journalism, advertising, photography, radio, film, video, television, design, the Internet, digital technologies, and the performing arts. By bridging theory and practice, and using an interdisciplinary approach, we give our students the skills, knowledge, and flexibility that the increasingly competitive international market demands.

BA Media Sciences

The Department of Media Sciences at SZABIST offers a comprehensive four years Bachelor of Science in Media Sciences degree with majors in Film and Television Production, Communication Design, and Journalism. To earn an undergraduate degree, students must enroll in and successfully complete a total of 135 credit hours which includes 43 courses (34 core courses, 9 electives in Film and Television Production, Communication Design, or Journalism), a 6-credit thesis and an internship. All students must complete 38 courses in total before enrollment in Thesis I. All students must complete their degree within 7 years.

First Year

**Fall Semester**
- MD 1116 Civilization Studies-I
- MD 1117 Survey of Media in Pakistan
- MD 1119 Play Analysis
- MD 1107 Drawing and Perspective
- MD 3601 Art of Music
- MD 1102 English Writing Skills

**Spring Semester**
- MD 1216 Civilization Studies-II
- MD 1104 Culture, Media, and Society
- MD 1106 Photography
- MD 2323 Production Practices-I
- MD 2322 Visual Communications
- MD 2402 Islamiat and Pakistan Studies/ Humanities

Second Year

**Fall Semester**
- MD 1211 Basic Design
- MD 1213 Creative Writing
- MD 1217 Introduction to Sound
- MD 2321 History and Aesthetics of Film
- MD 2424 Media Psychology
- MD 2313 Idea Development

**Spring Semester**
- MD 3511 Radio Channel Project-I
- MD 2318 History of Commercial Art
- MD 2423 Theater Project
- MD 2416 Business Studies for Media
- MD 2427 Design Practices-I
- MD 2425 Audiovisual Editing
Third Year

Fall Semester
MD 1118 Topics in Asian Literature
MD 3505 Principles of Journalism
MD 3518 Animation and Motion Graphics
MD 3527 Design Practices-II
MD 3523 Production Practices-II

Spring Semester
MD 2405 Media Laws and Ethics
MD 3602 Publication Project
MD 4xxx Elective-I
MD 4xxx Elective-II
MD 4xxx Elective-III

Fourth Year

Fall Semester
MD 4701 State and Nation Building in Pakistan
MD 4714 Producing Short Narratives
MD 4xxx Elective-IV
MD 4xxx Elective-V
MD 4xxx Elective-VI
MD 4xxx Elective-VII

Spring Semester
MD 4807 Thesis-I
MD 3506 Theories of Visual Culture
MD 4xxx Elective-VIII
MD 4xxx Elective-IX

Summer Semester
MD 4808 Thesis-II

ELECTIVES

Film & Television Production
MD 4765 Basic Lighting
MD 4726 Directing-I
MD 4825 Screenwriting
MD 4821 Cinematography
MD 4881 Art Direction
MD 4724 Documentary Vision
MD 4868 Production Practices-III
MD 4862 Advanced Studio Project
MD 4867 Topics in Film and Television

Communication Design
MD 4732 Typography
MD 4854 Illustration
MD 4769 Product Innovation and Design
MD 4782 Interaction Design
MD 4847 Copywriting
MD 4739 Advertising Design and Concept
MD 4779 Digital Brand Communication
MD 4878 Design for Social Change
MD 4771 Introduction to Installation Art

Journalism
MD 4839 Reporting the News
MD 4759 Editing, Subediting, and Design
MD 4757 Feature Writing-I
MD 4864 Investigative Journalism and Crisis Reporting
MD 4879 Multimedia Journalism
MD 4877 The International Newsroom
MD 4783 TV Journalism
MD 4859 Introduction to Photojournalism
MD 4882 Audio Podcasting

Certain film and video production courses may require additional fees for equipment rental, film purchases and travel. The Department of Media Sciences will make every effort to subsidize these costs in order to minimize their financial impact on students.

Students enrolled full time are required to take at least five courses each semester. Students unable to enroll fulltime should consult the Head of Department and the Program Manager to discuss any accommodation they might need. All first semester students are required to register for six courses.

INTERNSHIP
The Department of Media Sciences requires all students to complete a 6-week internship at a media organization of their choice by the end of their third year. Upon completion of the internship, students must submit before the start of the semester following their internship a comprehensive summary of what they learned.
MASTER OF ADVERTISING

The Department of Media Sciences at SZABIST offers an evening Master’s degree program in Advertising providing students a comprehensive training through courses that prepare them to engage in various career options in the advertising industry. To be awarded a Master of Advertising degree, students need to complete a total of 36 credit hours, which includes 10 courses and a 6-credit research project. All students must complete their degree within 5 years.

**First Year**

**Fall Semester**
- MD 5102 Media and Contemporary Culture
- MD 5207 Media Evolution and Innovation
- MD 5161 Integrated Marketing Communications
- MD 5141 Idea Development

**Second Year**
- MD 5263 Consumer Behavior
- MD 5264 Copywriting and Advertising Conceptualization

**Summer Semester**
- MD 5351 Campaign Strategy
- MD 5352 New Media Advertising

**First Year**

**Spring Semester**
- MD 5261 Advertising Research
- MD 5262 Brand Management

**Second Year**
- MD 5349 Research Project

Master of TV Production

The Department of Media Sciences at SZABIST offers an evening Master’s degree program in Television Production. The program offers students specialized training in the writing, directing, acting, and production of fictional form of television. The mission of this program is to help develop the technical and professional skills individuals need to participate in a national media environment. To be awarded a Master of TV Production degree, students need to complete a total of 36 credit hours, which includes 10 courses and a 6-credit research project. All students must complete their degree within 5 years.

**First Year**

**Fall Semester**
- MD 5142 Acting Fundamentals
- MD 5145 Story and Script for Television
- MD 5144 Audio Visual Editing for Television
- MD 5146 Visual Structure I

**Spring Semester**
- MD 5245 Acting for Camera
- MD 5247 Narrative Direction
- MD 5246 Visual Structure II
- MD 5xxx Elective I

**Summer Semester**
- MD 5341 Production Design
- MD 5xxx Project I

**Second Year**
- MD 5xxx Elective II
- MD 5xxx Project II
FACULTY OF SOCIAL SCIENCES

MS MEDIA STUDIES

The Department of Media Sciences at SZABIST offers an evening MS degree program in Media Studies designed to prepare students for managerial, policy making, scholarly, and teaching roles in media, government, schools, and universities and in private, non-profit and multinational organizations. To be awarded an MS in Media Studies, students need to complete a total of 36 credit hours which includes 10 courses and 6 credits of research or thesis. Students must also pass GAT (General) with a minimum 50% score. All students must complete their degree within 5 years.

Students who successfully complete their MS degree may apply for the PhD program in the Department of Social Sciences. Students accepted into the PhD program will need to complete a doctoral dissertation within three years of enrollment and fulfill all requirements, including necessary course work and research as outlined by the Department of Social Sciences and as required by the Higher Education Commission of Pakistan.

First Year

**Fall Semester**
- MD S102 Media and Contemporary Culture
- MD S207 Media Evolution and Innovation
- MD S104 Research Methodology

**Spring Semester**
- MD S208 Media Policy and Ethics
- MD S212 Theories of Visual Culture
- MD S112 Media and Post-Colonialism

Second Year

**Fall Semester**
- MD S103 Media Management
- MD S201 Communication for Social Change
- MD Sxxx Elective-I

**Spring Semester**
- MD Sxxx Elective-II
- MD S109 Thesis I

**Summer Semester**
- MD S209 Thesis II

**Electives**
- MD Sxxx Issues in International Media
- MD Sxxx Theories of Communication Design
- MD Sxxx Visual Cultures of Pakistan
- MD Sxxx National Cinemas
- MD Sxxx Film and Television Genres
FACULTY OF BIO SCIENCES

SZABIST’s BS Biosciences program is designed to give you a sound and broad academic base for a professional and rewarding career in biological fields.

It blends theoretical and practical knowledge, critical thinking and real life experience to equip students with marketable skills. This degree offers students the opportunity to study a broad range of disciplines in biological sciences.

THE PROGRAM & FACULTY

The program aims to produce graduates with firm knowledge of basic concepts of Biology and their current applications. It aims to provide training in the fundamentals of ever changing fields of health, agricultural, pharmaceutical, and genome sciences.

Upon completion of the program, students will have a broad knowledge of biological sciences and other related discipline with high level of understanding and appreciation in certain specialized areas, including cell and tissue culture techniques, genetic manipulations, drug design and therapeutic, molecular biology, and advance analytical techniques.
FACULTY OF BIOSCIENCES

Lab Facilities
SZABIST is equipped with hi-tech and state-of-the-art scientific laboratories that conduct research, which is at par with international standards. Our labs include:

- Sterile rooms for plant tissue culture
- Organotypic tissue culture lab
- Diagnostic labs
- Molecular biology labs
- Green-net house facility

Job Placement Possibilities
- Food Industry
- Biochemical Industry
- Biotechnology Companies
- Health sector - Clinics/Hospital
- Pharmaceutical Industry
- Bioinformatics Software Houses
- Research Centers
- Academia
- Good base for Higher Education

BS Biosciences
The program is in line with the criteria set by the Higher Education Commission of Pakistan. BS Biosciences at SZABIST is a 4-years program of 8 semesters. Graduation requirements are 135 credit hours, an internship of at least 6-weeks and a research project.

First Year

Fall Semester
BIO 2301 Biochemistry I
BIO 1103 English I
BIO 1107 Fundamental Mathematics
BIO 1209 Introduction to Microbiology
BIO 1206 Physiology I

Spring Semester
BIO 1207 Advanced Microbiology
BIO 2401 Biochemistry II
BIO 1202 English II
BIO 3504 Immunology
BIO 1208 Statistics
BIO 2305 Physiology II

Second Year

Fall Semester
BIO 1101 Cell Biology
BIO 2307 Plant Tissue Culture
BIO 2405 Hematology
BIO 1104 Introduction to Computing
BIO 2303 Islamiat and Pakistan Studies/Humanities
BIO 2404 Lab Management

Spring Semester
BIO 4801 Bioethics
BIO 3606 Advanced Biotechnology
BIO 2403 Environmental Science
BIO 2304 Nutrition and Dietetics
BIO 3605 Pharmacology II
BIO 4xxx Elective I

Spring Semester
BIO 2406 Genetic Engineering
BIO 3502 Endocrinology
BIO 4803 Molecular Biology
BIO 3604 Neurochemistry
BIO 2306 Psychology
Fourth Year

**Fall Semester**
- BIO 3601  Agricultural Science
- BIO 3602  Human Anatomy
- BIO 4702  Introduction to Pathology
- BIO 4703  Research Methodology
- BIO 4xxx  Elective II
- BIO 4xxx  Elective III

**Spring Semester**
- BIO 4802  Biophysics
- BIO 4701  Business Management
- BIO 4804  Research Report
- BIO 4704  Toxicology
- BIO 4xxx  Elective IV

**ELECTIVES**

**Molecular Biology:**
- BIO 4721  Advanced Biochemical Techniques
- BIO 4722  Medical Transcription
- BIO 4723  Virology
- BIO 4822  Nanotechnology
- BIO 4725  Advanced Molecular Techniques
- BIO 4726  Applied Enzymology
- BIO 4827  Systems Biology

**Biotechnology:**
- BIO 4721  Advanced Biochemical Techniques
- BIO 4724  Telemedicine
- BIO 4823  Stem Cell Research
- BIO 4727  Food Biotechnology
- BIO 4825  Fermentation Biotechnology
- BIO 4726  Applied Enzymology
- BIO 4826  Medical Biotechnology
INTERNATIONAL PROGRAMS

LLB
The University of London International LLB Programme is an evening programme. The LLB Programme can be completed in three years. The University of London, UK will award the LLB degree. The degree awarded by University of London through the International Programme has the same academic standard as a degree awarded to a student studying at the University of London. The main syllabus has been set and the course outlines are designed by the University of London.

BA (Hons) BUSINESS STUDIES (BABS)
SZABIST offers a 3 years BA (Hons) Business Studies (BABS) degree from the University of Wales, Newport, UK. Students can earn a diploma after completing two years of study at SZABIST and proceed ahead to attain BA (Hons) Business Studies degree at the University of Wales, Newport. The curriculum is fully mapped and matched with the BA (Hons) in Business Studies curriculum at the University of Wales.
INTERNATIONAL PROGRAMS

LLB

Admission Requirements
Passes in two subjects at GCE ‘A’ Level and at least grade C in three further subjects at GCSE or GCE ‘O’ Level.

Or
Passes in three subjects at GCE ‘A’ Level and at least C grade in one further subject at GCSE or GCE ‘O’ Level.

Or
Two subjects at GCE ’A’ Level and two further subjects at ’AS’ Level.

Or
Three subjects at GCE ’A’ Level (with one ’A’ Level at not less than Grade D).

Or
Bachelors degree holder in any discipline in second division or students who have passed Grade 13

(These qualifications will be considered by the University of London’s Special Admissions Panel on an individual basis and their decision concerning the eligibility of the applicant will be final)

And
IELTS must be passed with an overall score of at least 6 with a minimum of 5.5 in each sub-test or a TOEFL score of 580 (or 237 on the computerized test) should be achieved. Plus in the Test for Written English (TWE) a score of 4.5 (or a Writing Rating of 4.5 in the computerized test) must be achieved. Candidates whose grade in GCE ’O’ Level English Language is C or above are not required to submit IELTS/TOEFL score. (For the schedule of these examinations, please contact the British Council or the American Center directly).

Note:
Students who already hold a 4 years degree awarded by an institution acceptable to University of London for this purpose may register for LLB degree under the Graduate Entry Route. They may need to complete (09) courses for the degree.

Note that the candidate’s language for secondary education is English, and who normally speak English at home and work may be waived the passing of the IELTS or TOEFL English Language requirement by the University of London.

CURRICULUM
Upon completion of the following curriculum at SZABIST, students may apply to become a member of any prestigious Inns of Court, UK, or be eligible for admission to the LLM programme.
INTERNATIONAL PROGRAMS

FIRST YEAR

Criminal Law
Public Law
Common Law Reasoning and Institutions
Elements of the Law of Contract

SECOND YEAR

Law of Trusts
Law of Tort
Land Law
Introduction to Islamic Law/Administrative Law

THIRD YEAR

Jurisprudence and Legal Theory
Law skills portfolio (pathway 1 or pathway 2)

Plus any three subjects from:
Company Law
Law of Evidence
Intellectual Property
Administrative Law
Conflict of Laws

International LLB Programme
University of London International Programme
# INTERNATIONAL PROGRAMS

## BA (Hons) BUSINESS STUDIES (BABS)

### Admission Requirements
The candidate must have passed 3 A Level/obtained 50% marks in the Intermediate or equivalent from a recognized institution to be eligible for admission into the BABS program.

### Curricula
Upon completion of the following curriculum at SZABIST, students can proceed for the final year to the University of Wales, Newport, and get their Bachelor's Degree.

### First Semester

<table>
<thead>
<tr>
<th>Fall</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 1101</td>
<td>Introduction to Accounting</td>
</tr>
<tr>
<td>BA 1102</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>BA 1103</td>
<td>Introduction to Computers</td>
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<tr>
<td>BA 1104</td>
<td>Personal Management</td>
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<tr>
<td>BA 1105</td>
<td>English Writing Skills</td>
</tr>
<tr>
<td>BA 1204</td>
<td>Math for Business</td>
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### Second Semester

<table>
<thead>
<tr>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>BA 1201</td>
<td>Financial Accounting</td>
</tr>
<tr>
<td>BA 1202</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>BA 1203</td>
<td>Management Principles</td>
</tr>
<tr>
<td>BA 1206</td>
<td>Oral Communication and Presentation Skills</td>
</tr>
<tr>
<td>BA 2305</td>
<td>Statistics and Mathematics for Business</td>
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<tr>
<td>BA 3604</td>
<td>Computer Programming for Managers</td>
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</table>

### Third Semester

<table>
<thead>
<tr>
<th>Summer</th>
<th></th>
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<tbody>
<tr>
<td>BA 2301</td>
<td>Introduction to Business Finance</td>
</tr>
<tr>
<td>BA 2302</td>
<td>Graphic Design in Multimedia Presentations</td>
</tr>
<tr>
<td>BA 2404</td>
<td>Calculus</td>
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### Fourth Semester

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</thead>
<tbody>
<tr>
<td>BA 2303</td>
<td>Marketing Principles</td>
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<tr>
<td>BA 2304</td>
<td>Managerial Accounting</td>
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<tr>
<td>BA 2306</td>
<td>Social Sciences</td>
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<tr>
<td>BA 2403</td>
<td>Business Ethics</td>
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<tr>
<td>BA 3504</td>
<td>Organizational Behavior</td>
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<tr>
<td>BA 3605</td>
<td>Statistical Inference</td>
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</table>

### Fifth Semester

<table>
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<th>Spring</th>
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<tbody>
<tr>
<td>BA 3505</td>
<td>Quantitative Skills</td>
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<tr>
<td>BA 3601</td>
<td>Financial Management</td>
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<tr>
<td>BA 3602</td>
<td>Marketing Management</td>
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<tr>
<td>BA 4704</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>BA 4721</td>
<td>Advertising</td>
</tr>
<tr>
<td>BA 4801</td>
<td>Law and Taxation</td>
</tr>
</tbody>
</table>

### Third year at the University of Wales, Newport

- Customer Service Excellence
- Strategic Management
- Law for Managers
- European Business Environment

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PROSPECTUS 2013
### ACADEMIC CALENDAR 2013 (Karachi Campus)

#### FALL 2013

<table>
<thead>
<tr>
<th>WEEK</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Week to Register for Courses</td>
</tr>
<tr>
<td>2</td>
<td>IS Thesis Advisors Meeting</td>
</tr>
<tr>
<td>3</td>
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<td>Last Week to Withdraw from Courses</td>
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<td>All Faculty Meeting</td>
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<td>IS Thesis Advisor Meeting</td>
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<td>11</td>
<td>Independent Study Presentations for MS/PhD students/3rd International Research Conference</td>
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<td>Dec 28, 2013</td>
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<td>Aug 17, 2013</td>
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<td>Aug 21, 2013</td>
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### Classes commencing dates

- **Karachi Campus**: August 12, 2013
- **Hyderabad Campus**: August 12, 2013
- **Larkana Campus**: September 02, 2013
### SPRING 2014

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<th>WEEK</th>
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<td>Jan 11, 2014  All Faculty Meeting</td>
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<td>May 10, 2014  Independent Study Presentations for MS/PhD students/20th National Research Conference</td>
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<td>May 31, 2014  Comprehensive Exam</td>
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### Classes commencing dates

- Karachi Campus: January 6, 2014
- Hyderabad Campus: January 6, 2014
- Larkana Campus: January 13, 2014

**Disclaimer**

This prospectus is only informational and should not be taken as binding on the Institute. The Institute therefore reserves the right to change any rule, regulation, and guideline applicable to the program and the student whenever it is deemed appropriate or necessary, and it will be binding on all continuing and new students for all programs at all campuses.
We Just Don't Work Hard
We Work Smart
We Just Don't Work Hard
We Work Smart
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