We Just Don't Work Hard
We Work Smart
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; of conducting state-of-the-art scientific and technological research and development in support of the private and public sectors; of providing hi-tech scientific and technological assistance to the Pakistan’s industry to enable it to compete with the world industries in global trading; of providing highly trained scientific and technological personnel to be able to attract the growth of high-tech industries and foreign and Pakistani investment; and of 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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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.”

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 the prospective students to the prestigious institution of Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST). Our Founding Chancellor, Shaheed Mohtarma Benazir Bhutto, envisioned of seeing SZABIST as a world class institute, being recognized globally for its excellence in education, scholarships, research and distinction in service.

Living up to the vision, today SZABIST has developed into a strong multidisciplinary institution with five campuses; Karachi, Islamabad, Larkana, Dubai, and Hyderabad. Blending academics with research, SZABIST is continuously investing in cutting edge research of stem cell technology, renewable energy, and sustainable social development.

Moreover, ensuring the highest quality of education being delivered at SZABIST, the Institutional Research/Quality Enhancement Cell is vigorously helping in making informed decisions to the institute’s strategic planning by providing qualitative and quantitative analysis of the institutions academic and related operations.

At SZABIST, we believe in education that builds innovative thoughts, high ideals, teaches the value of hard work and diligence, and prepares the student for their personal and professional lives ahead.

I wish you all the success in your educational journey at SZABIST and welcome you to an opportunity to “Discover Yourself”.

Dr. Azra Fazal
Chancellor, SZABIST
It gives me great pleasure to welcome the prospective students for the academic year 2012. The hard work and dedication put in the last 15 years have developed SZABIST into one of the renowned educational institutions of the country.

Our Founding Chancellor, Shaheed Mohtarma Benazir Bhutto, established this institute with a vision of achieving excellence in education and research. Today, under the dynamic leadership of our chancellor, Dr. Azra Fazal, we have been able to live up to that vision and become a multidisciplinary institution, imparting knowledge, building both character and personality.

Alongside education, investments in cutting edge research of stem-cell, renewable energy, and sustainable social development, have been made possible. Enriching the quality of and the delivery of education, SZABIST, is continuously developing and implementing quality assurance measures through its Institutional Research/Quality Enhancement Cell.

I am confident that the Prospectus 2012 would prove to be a useful guidance in charting your academic voyage at SZABIST. I wish you a productive, intellectually stimulating and socially responsible journey at SZABIST.

Dr. Saqib Rizavi
President, SZABIST
As Vice President of SZABIST, I am pleased to state that within a short time span of about one and a half decade, SZABIST has emerged as one of the best universities of Pakistan while being simultaneously recognized as the best business school at both regional and international levels. For me personally, it is gratifying to know that you are exploring the option of admission in different educational institutes. Being young and the future of our society, we know that how important it is for you and for us that you choose the right university. The decision about university you choose is important because your future hinges on it. Keeping in view this fact, we have designed this prospectus so that it covers all relevant information that any student need. We, at SZABIST, Know that before taking the final decision, the foremost question that crops up in any student’s mind is obviously ‘why should I choose this particular university?’

The answer is simple; SZABIST has earned a very good reputation both within and outside Pakistan. For that the credit goes to the sheer commitment of its staff, faculty and the quality of its students. It is due to the habit of hard as well as smart work that we imbue in our students that we are now at the leading edge of research since our institute’s founding in 1996. Our research deepens and sharpens scholarly debates, shapes the policies of governments and helps NGOs as well as the market to adopt right policies to address the pressing socio-economic problems of the day.

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 part of. We at SZABIST have continuously striven 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 engender an academic atmosphere where everyone is provided with an intellectually enlightening environment to realize his or her potential to the fullest.
VICE PRESIDENT’S MESSAGE

SZABIST is global in outlook and cosmopolitan in character. Since, we value diversity; our students come from all walks of life and even different parts of the world. At SZABIST, everyone is encouraged to achieve their 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 meet the daily challenges you come across either at work place or in your daily lives.

Finally, I wholeheartedly congratulate you for selecting SZABIST as your university for higher studies.

Prof. Dr. Amanat Ali Jilbani
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 granting 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 to Advance Collegiate School of Business (AACSB), Singapore; Federation of the Universities of Islamic World (FUIW), Rabat; Asia University Federation (AUF), Seoul; and Management Association of Pakistan, Karachi.


Asia Inc, a leading Asian Magazine, has ranked SZABIST among the top MBA Schools of South Asia in its Asia’s Best MBA Schools Survey for two consecutive years (2003, 2004). 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 the State University of New York, USA; University of London, UK; Philippines Women University, Philippines; and the Asian Academy of Film & Television, India.

SZABIST today is identified as a major university comprising of five campuses (including one foreign campus) three diploma centers, three intermediate colleges and one research center. Over 4,200 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 Sciences. Construction is currently underway for the 300 acre permanent engineering campus 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. Another plot has been purchased to build a purpose built campus for Management and Computing School near present location of Clifton 90 & 100.
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 main campuses when completed.

**Management Sciences**
Management, Human Resource Management, Marketing, Finance and IT (e-commerce/Information Systems), Supply Chain Management, MIS, Banking & Finance, Project Management etc.

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

**Computer Sciences**
E-Commerce, Software Engineering, Computer Systems, Technology Management

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

**Electrical Engineering**
Solid State Solar, Telecommunication, Power, Aerospace

**Biochemical Engineering**
Agrochemical, Pharmaceutical

**Biogenetic Engineering**
Plant Genetics, Animal Genetics

**Food Sciences and Technology**

**Aquaculture and Agriculture Sciences**

In addition to the above 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. The sites of SZABIST at Malir and Gharo are close to the industrial zones in Karachi, Malir and Thatta districts (Steel Mill, Machine Tool Factory, Export Processing Zone, Nootriabad, Port Qasim Industrial Zone and the proposed BOI Electronics City), as well as to the large agricultural and aqua cultural bases in Thatta, Badin and Jamshoro/Dadu districts. The Institute also has easy access to the outside world through the Karachi International Airport (a 30 minute drive) and Port Qasim.

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 in the early part of the 21st century. 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.
PROFESSIONAL DEGREES OFFERED

(All degrees including all majors and courses are not offered at all campuses. Check with the local campus on 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 thesis. 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 degree needs to be completed within seven years.

BS (Computing)
SZABIST offers a four year (eight semesters) BS Computing degree with majors in Information Technology, Telecommunications, Software Engineering and Computer Sciences. 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 seven years.

BE (Mechatronics)
SZABIST offers a four year (eight semesters) BE Mechatronics Engineering. The BE program is essentially a day program and consists of 43 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 seven years.

BS (Social Sciences)
SZABIST offers a four year (eight semesters) BS Social Sciences degree with majors in Psychology, Sociology, Economics, Political Sciences, Journalism and International Relations. BS Program is essentially a day program and consists of 48 courses (six courses per semester) with a total of 144 credit hours. The maximum time limit to complete the BS degree is seven years.

BS (Media Sciences)
SZABIST offers a four year (eight semesters) Bachelor of Science in Media Sciences with majors in Television and Film Production, Advertising, and Journalism. To earn an undergraduate degree, students must enroll in and successfully complete 43 courses and a 6 credit thesis (a total of 135 credit hours) and an internship. All students must complete their degree within seven years.

BS (Biosciences)
BS Biosciences at 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 seven 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 EMBA is a two year program spread over six semesters and consists of 66 credit hours. 20 courses, 1 Business Project (3 credits) and 1 Research Project (3 credits) are required to graduate. Maximum time limit to complete the EMBA degree is five years.
MBA (Masters in Business Administration)

MBA program has been designed to impart quality professional education related to business management and leadership. Graduates of this program will have an in-depth knowledge and understanding of modern management tools, leadership and entrepreneurial skills, managerial and communication competencies. It is a rigorous semester-based program and offered in collaboration and consultation with the corporate experts of the relevant fields. The main objective of MBA program is to introduce a much stronger practical emphasis focusing on the strategies and core management of the local and international industry. It will enhance the practical insight and skills in a range of strategic and management areas. Practitioners from the industry will share their knowledge and experiences.

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

MBA (36 credit hour 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 MBA level courses (30 credits) and one advanced level research project (6 credits) of one semester duration. Students are also required to complete a 6-weeks internship to accomplish their degree. The maximum duration to complete this MBA program is 5 years.

MBA (72 credit hour 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 schooling. The duration to complete this program is 2 to 2.5 years. Minimum 24 courses (72 credits) and a 6-week internship are needed to graduate. Students are also required to clear the SZABIST comprehensive exam. The maximum duration to complete this MBA program is 5 years.

MBA (90 credit hour 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. Minimum 30 courses (90 credits) are needed to complete the program. Students are also required to undertake a 6-week internship along with passing the SZABIST comprehensive exam. The maximum duration to complete this program is 5 years.

MBA Banking & Finance Program

MBA Banking and Finance (B&F) program has been designed to impart quality professional education related to banking and financial services. Graduates of this program will have an in-depth knowledge and understanding of general MBA along with banking operations, advanced risk management techniques, treasury and fund management, and tools of financial research. It is a rigorous semester-based program, offered in collaboration and consultation with the core banking industry experts; and will serve to the niche market of banking and financial services. The program will be offered in evenings only. The main objective of MBA (B&F) is to introduce a much stronger practical emphasis focusing on the strategies and financial management of banking industry. It will enhance
the practical insight and skills in a range of strategic and management areas in banking and financial services. Practitioners from the industry will share their views and experiences. Another primary objective of the MBA (B&F) is to develop knowledgeable and capable executives to move quickly to key positions in the financial service sector. The program will provide executive training at an advanced level covering the latest developments in the management of banks and financial services firms. Maximum time limit to complete the degree is five 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 approach. 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 five years.

**PGD in Television Production/PGD in Advertising**

For students with 2-year undergraduate degrees and at least 4 years of work experience in the media industry, the Department of Media Sciences offers a Post Graduate Diploma (PGD) in either Television Production or in Advertising.

In order to receive a PGD, students must complete 36 credit hours of academic work which includes 10 courses and 6 credits of research.

**Master of Television Production & Master of Advertising**

The Master of Television Production and the Master of Advertising focus on the practical aspects of each field, providing comprehensive training through courses that cover a range of vocational options available in each industry. Maximum time limit to complete the degree is five years.

**MS (Management Sciences)**

SZABIST offers MS degree in the specialized fields of Management, Human Resource Management (HRM), Marketing, Finance and IT (MIS/e-Business). 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 five years from the date of admission and the minimum period required is 1.5 years.

**MS (Computing)**

SZABIST offers MS degree with majors in Information Technology, Software Engineering & Computer Science. The MS is an evening program only and consists of 9 courses and Thesis/Research work. The maximum time limit to complete the MS degree is five 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/Research 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.)

**MS (Media Studies)**

The MS Media Studies program is conducted five evenings each week and consists of 10 courses and a written thesis.
For students with a 4 year BS Media Sciences or relevant Bachelors or Masters degree, the MS Program is 2 years. 10 MS courses and a thesis (6 credits) are needed to graduate. The maximum time limit to complete the MS degree is five years.

**MS (Social Sciences)**


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 five 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 five years.

6 PhD courses (4 courses & 2 IS 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 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.
ADMISSION REQUIREMENTS

NOTE:
1. General paper (A levels) will not be counted.
2. An entrance test and group discussion/interview will be given to all applicants at SZABIST.

Bachelors

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

For BS Computing, candidates with Mathematical background will be preferred.

BS Media
All applicants to the Department of Media Sciences are required to successfully pass an entrance exam. In addition to the A-Level/Intermediate requirement and the entrance exam, all students must submit with their application a 500-word personal statement summarizing their reasons for applying to SZABIST and to our program, their future career goals, and their relevant past experiences. If selected for an interview, applicants will be asked to write an additional 500 word analysis of a media text (film, performance, television show, magazine, newspaper article, video, and website) that had significant social, cultural or political impact.

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/Computer Sciences) with minimum 60% marks (those waiting for result can also apply).

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

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<th>A-Level Grade</th>
<th>Equivalent HSC Intermediate %</th>
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<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>45</td>
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Candidates with DAE (Mechanical or Electronics) having at least 60% aggregate marks from an institute recognized by the Government. Minimum 60% aggregate marks each in Matriculation and in Intermediate/equivalent exams.

Please note that no deviation in this regard is allowed.

BS (Biosciences)
Applicant must have completed Intermediate (F.Sc) with minimum 50% marks or 3 A-Level passes across at least two of the following subjects (Biology, Chemistry & Physics).

Masters

EMBA
For admission to the EMBA Program, the candidate must possess a Bachelors degree with minimum 50% marks/CGPA of 2.5 from a university recognized by HEC in any field of study with 4 years of Managerial level work experience.
ADMISSION REQUIREMENTS

MBA Program

36 credit hours program
For admission to the MBA 36 credit hour program, the candidate must possess a 4 years 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 to the MBA 72 credit hour program, the candidate must possess a 4 years non-business professional bachelor’s degree with minimum CGPA 2.5 or 16 years of education with minimum 55% marks from a university recognized by the Higher Education Commission (HEC).

90 credit-hours program
For admission to the MBA 90 credit hour program, the candidate must possess 14 years education with minimum CGPA 2.5 or minimum 55% marks from a university recognized by the Higher Education Commission (HEC).

PGD in Television Production or PGD in Advertising
For admission in PGD in TV Production or in Advertising, the candidate must have completed at least a 2 years bachelor degree with minimum 50% marks or 2.5 CGPA from a university recognized by the Higher Education Commission of Pakistan and at least 4 years of work experience in the media industry.

Master of Television Production or the Master of Advertising
Applicants to the Master of Television Production or the Master of Advertising must have completed a 2, 3, or 4 year undergraduate degree with a CGPA of 2.5 or 55% marks from a university recognized by the Higher Education Commission of Pakistan, HEC.

Students who meet these criteria will need to complete either 36 or 72 credit hours of academic work. This includes either 10 or 22 courses and 6 credits of research.

MBA (Banking & Finance) Program
All those candidates who have either 4 year BBA degree or 4 year 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 take admission in this program. Those students who will have 4 year BBA degree will be exempted for first year and given a direct entry in second year.

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 the Higher Education Commission of Pakistan (HEC).

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

MS Media Studies applicants must also include a 2500-word analytical/critical essay as part of their application package.

MPM (Master in Project Management)
For admission to 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.

Doctoral
A candidate with a 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.
ADMISSION REQUIREMENTS

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 subject GRE/GAT (subject) with 60% score.

After acceptance into the PhD program, a Doctoral Committee consisting of the Major Advisor and two Committee Members will be constituted by the PhD Program Manager and HoD/Dean for the student. The Doctoral Committee, including the Major Advisor, can be changed by the Dean at any time subject to their unavailability or on the request of student on other justified grounds.

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 are:

- Credit requirements: 78 (48* for candidates with MA/MS/MBA/M.Phil degree with minimum 5 years of formal university education)
- Qualifying Examination
- Comprehensive Examination
- Publication
- Final Seminar
- Final Examination
- GRE/NTS (scores as per HEC requirement be submitted after admission in the first semester)

*The 48 credit hours toward a PhD degree at SZABIST for candidates with MA/MS/MBA/M.Phil degree (with minimum 5 years of formal university education) may be constituted as follows: Course work 18 credits (6 courses) minimum Course work includes two pre-requisites courses (for IS / Thesis & Dissertation). Dissertation will be of 30 credit hours

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 ARMT for Computer Science students.

The student may be asked to take additional courses as recommended by the Graduate Admissions Committee. Two interdisciplinarily 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 is MS/MPhil degrees are not required to defense their proposal.
ADMISSION REQUIREMENTS

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 summer.

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

Publication Requirement
All PhD candidates are required to write two papers from his/her 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 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 Alternatives
Applicants may submit a minimum 1650 score of SAT 1 for (BBA/BS/BE). 50% score of GMAT for (MBA), GAT (General)/GRE for MS (Management Sciences), MS (Computing), 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/GRE minimum 50% 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
ADMISSION REQUIREMENTS

considered for transfer into the MBA (90 credit-hours) program. Research project/thesis course is not transferable.

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.

SZABIST Inter-Campus Transfer:
For transfer candidate from other SZABIST campuses, the candidate must fulfill the admission requirements of the local campus he/she wish to transfer into.

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 needy students. For instance;

- SZABIST Need-Based Scholarship
- SZABIST Merit-Based Scholarship
- Sindh Endowment Fund Scholarship
- HEC-USAID Merit and Need-Based Scholarship
- HEC-Japanese Need-Based Scholarship
- 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, associate ship and adjunct faculty positions.

All requests for financial assistance must be made after admission.
Video Conferencing
SZABIST is the first educational institute in Pakistan having 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 lectures from experts outside the country. Video Conferencing technology 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 short 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 invited speaker 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 & 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 more of participative lecture than just 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, wall-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 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.
SZABIST has computing facilities supported with full 24x7 broadband connectivity of 24 mbps to the internet and 2. 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, 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

SZABIST Executive Development Center (EDC) facilitates students in the completion of their degree requirements, personal grooming, job placements and keeps in touch with the Alumni for relationship building, corporate networking & 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

The Executive Development Center (EDC), in collaboration with the industry, arranges on-campus recruitment drives and management trainee programs at reputable national & multinational companies. EDC coordinates with students about job openings in the corporate sector throughout the year.

An annual ‘Job Fair’ is held at the campus where 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 classroom 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 of prior study at SZABIST
- Bachelor degree students with at least six semesters of prior study 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’, the ‘intern evaluation form’ 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 students find time out for leisure. Seminars, workshops, projects, on & off-campus luncheons and dinners are a regular feature of the student body. Along with these, students have organized various clubs and student societies for curricular and extra-curricular activities.

The SZABIST Student Council 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-SSB: Institute of Electronic & Electrical Engineer, SZABIST Student Branch
AIESEC: Student Exchange Program Facilitation
ACM: Association of Computer Machinery
ACME: American Society for Mechatronics Engineering
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 Mid City
VASS: Visual Arts Society of SZABIST
SEFC: SZABIST Economics & Finance Club

The Institute publishes “SZAB'nings” from Karachi, “ZABNEWS” from Larkana & Islamabad and “INSIGHT” from Dubai. All previous issues of these publications and various 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), Rabat
5. Asia University Federation (AUF), Seoul
6. Management Association of Pakistan (MAP), Karachi

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

1. 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.

2. 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.

3. 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.
4. 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.

5. 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.

6. University of Luton, UK
This MoU allows students from Dubai Campus of SZABIST to enroll in the University of Luton’s programs including, computing, business and media arrangement.

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

8. 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.

9. Chinggis Khaan University, Mongolia (Under Renewal)
MoU entails both universities exploring cooperation in education, research and cultural exchange.

10. Virginia Polytechnic Institute and State University Blacksburg, Virginia, USA (Under Renewal)
The MoU facilitates all exchanges and cooperative initiatives between the universities in the areas of instruction, exchange, development, research, and community service.
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.

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

BBA

SZABIST offers a 4 years BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses and a 6-credit thesis. 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**

**FALL SEMESTER**
- BA 1101: Introduction to Accounting
- BA 1102: Macroeconomics
- BA 1105: English Writing Skills
- BA 1106: Islamiat and Pakistan Studies/Humanities
- BA 1108: IT in Business
- BA 1109: Personal Management and Communication

**SPRING SEMESTER**
- BA 1201: Financial Accounting
- BA 1202: Macroeconomics
- BA 1203: Management Principles
- BA 1204: Maths for Business
- BA 1206: Oral Communication and Presentation Skills
- BA 1207: Introduction to Logic

**SECOND YEAR**

**FALL SEMESTER**
- BA 2301: Introduction to Business Finance
- BA 2303: Marketing Principles
- BA 2307: Sociology
- BA 2308: Psychology
- BA 2404: Calculus
- BA 2408: Cost Accounting

**SPRING SEMESTER**
- BA 2401: Money and Banking
- BA 2402: Retail Management
- BA 2403: Business Ethics
- BA 2406: Business and Electronic Communication
- BA 3504: Organizational Behavior
- BA 3507: Consumer Behavior

**THIRD YEAR**

**FALL SEMESTER**
- BA 2407: Probability and Statistical Inference
- BA 3501: Financial Markets and Institutions
- BA 3508: Media Management
- BA 3509: Public Enterprise Management
- BA 4706: Development Economics
- BA 4801: Law and Taxation

**SPRING SEMESTER**
- BA 3601: Financial Management
- BA 3602: Marketing Management
- BA 3607: Operations Management
- BA 4704: Management Information Systems
- BA 4707: Marketing Research
- BA 4804: Human Resource Management

**FOURTH YEAR**

**FALL SEMESTER**
- BA 3502: Entrepreneurship
- BA 3609: Pakistan Economy
- BA 4701: Islamic Banking and Finance
- BA 4705: Services Marketing
- BA 4xxx: Elective I
- BA 4xxx: Elective II

**SPRING SEMESTER**
- BA 3505: Quantitative Skills
- BA 4808: Thesis (6 credit hours)
- BA 4814: Project Management
- BA 4xxx: Elective III
- BA 4xxx: Elective IV

All courses may not necessarily be offered every year. Alternate courses may be substituted as or when needed. Full time academic load is 6 courses. All students are required to register for full load in first semester.

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

**BBA ELECTIVES**

**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

**Marketing**
- BA 4116: Supply Chain Management
- BA 4217: Experiential Marketing
- BA 4721: Advertising
- BA 4722: Brand Management
- BA 4816: Industrial Marketing
- BA 4819: Product Management
- BA 4824: Sales Management
- BA 4842: Graphic Design for Multimedia
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 five years.

FIRST YEAR

FIRST SEMESTER

BE 412 Management Decisions
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)

FIFTH SEMESTER

BE 422 Financial Management
BE 444 Ethics and Corporate Governance
BE 4xx Elective - II (Marketing, HR and Finance)

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

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 or when needed.
FACULTY OF MANAGEMENT SCIENCES

MBA PROGRAM
(36 credit hours, for students with a 4 years BBA degree)
For students with a 4 year 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.

FIRST YEAR
FALL SEMESTER
BA 5103 Advanced Research Methods
BA 5104 Strategic Management
BA Sxxx Elective-I
BA Sxxx Elective-II

SPRING SEMESTER
BA S203 Strategic Marketing
BA Sxxx Advanced Course in Finance
BA Sxxx Elective III
BA Sxxx Elective IV

SECOND YEAR
FALL SEMESTER
BA 5145 Total Quality Management
BA 5147 Organizational Development and Employee Management
BA 5319 Research Project (6 credits)

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

MBA PROGRAM
(72 credit hours, for students with a 4 years non-BBA degree)
For students with a 4-years non BBA degree / relevant degree, the duration of the MBA 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 LSABIST comprehensive exam. The maximum duration to complete this degree is five years.

FIRST YEAR
FALL SEMESTER
BA 5301 Financial Accounting
BA 5303 Management Principles
BA 5305 Statistics and Mathematics for Business
BA 5306 Computer Orientation and Packages
BA 5317 English Writing Skills
BA 5404 Marketing Principles

SPRING SEMESTER
BA 5106 Marketing Management
BA 5302 Microeconomics
BA 5304 Business and Electronic Communication
BA 5401 Introduction to Business Finance
BA 5403 Management Information Systems
BA 5411 Cost and Management Accounting

SECOND YEAR
FALL SEMESTER
BA 5105 Financial Management
BA 5205 Human Resource Management
BA 5402 Macroeconomics
BA 5206 Business Research Methods
BA Sxxx Elective-I
BA Sxxx Elective-II

SPRING SEMESTER
BA 5104 Strategic Management
BA 5207 Organizational Behavior

BA 5406 Entrepreneurship
BA Sxxx Elective-III
BA Sxxx Elective-IV
BA 5219 Research Project (3 credits)

All courses may not be offered every semester. Alternate courses may be substituted as and when required.
MBA PROGRAM

(90 credit hours, 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. 30 courses (90 credits) are needed to graduate. Students are also required to complete a 6-week internship and clear the SBAIST comprehensive exam. The maximum duration to complete this degree is five years.

FIRST YEAR

FALL SEMESTER
- BA 315 English Writing Skills
- BA 321 Computer Orientation and Packages
- BA 411 Financial Accounting
- BA 413 Management Principles
- BA 424 Marketing Principles

SPRING SEMESTER
- BA 412 Microeconomics
- BA 414 Business and Electronic Communication
- BA 415 Statistics and Mathematics for Business
- BA 421 Introduction to Business Finance
- BA 427 Business Ethics

SECOND YEAR

FALL SEMESTER
- BA 312 Management Information Systems
- BA 422 Macroeconomics
- BA 425 Statistical Inference
- BA 431 Financial Management
- BA 434 Marketing Management

THIRD YEAR

FALL SEMESTER
- BA 5103 Advanced Research Methods
- BA 5104 Strategic Management
- BA 5132 Analysis of Financial Statements
- BA 5xxx Elective I
- BA 5xxx Elective II

SPRING SEMESTER
- BA 5203 Strategic Marketing
- BA 5147 Organizational Development and Employee Management
- BA 5xxx Elective III
- BA 5xxx Elective IV
- BA 5219 Research Project (3 credits)

All courses may not be offered every semester. Alternate 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
- 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

PROSPECTUS 2012
www.sabist.edu.pk
MBA Program (Banking & Finance)

Program's Introduction
MBA Banking and Finance (B&F) program has been designed to impart quality professional education related to banking and financial services. Graduates of this program will have an in-depth knowledge and understanding of general MBA along with banking operations, advanced risk management techniques, treasury and fund management, and tools of financial research. It is a rigorous semester-based program and offered in collaboration and consultation of the core banking industry experts; and will serve to the niche market of banking and financial services. The program will be offered in evenings only. The main objective of MBA (B&F) is to introduce a much stronger practical emphasis focusing on the strategies and financial management of banking industry. It will enhance the practical insight and skills in a range of strategic and management areas in banking and financial services. Practitioners from the industry will share their views and experiences. Another primary objective of the MBA B&F is to develop knowledgeable and capable executives to move quickly to key positions in the financial service sector. The program will provide executive training at an advanced level covering the latest developments in the management of banks and financial services firms.

MBA Program (Banking & Finance) (36 credit hours, for students with a 4 year BBA degree)
For students with a 4-year BBA degree, the duration of the MBA (B&F) is 1.5 years. 11 MBA courses (33 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 five years.

**First Year**
- **Fall Semester**
  - BA 5103 Advanced Research Methods
  - 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 5319 Research Project (6 credits)
  - BA 5xxx Elective - III
  - BA 5xxx Elective - IV

All courses may not be offered every semester. Alternate courses may be substituted as and when required. MBA Banking & Finance (36 Credit hour) students will take second year courses spread over three semesters.
MBA Program (Banking & Finance)

MBA (72 credit hours, for students with a 4 year non-BBA degree)
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 five 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 Sxxx Elective - I
- BA Sxxx Elective - II

Spring Semester
- BA 5417 Advanced Credit Management
- BA 5139 Financial Risk Analysis
- BA 5235 Treasury and Funds Management
- BA Sxxx Elective - III
- BA Sxxx Elective - IV

All courses may not be offered every semester. Alternate courses may be substituted as and when required. M&A Banking & Finance [36 credit hours] students will take second year courses spread over three semesters.

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

INTERNSHIP
All M&A (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 alternate 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.
FACULTY OF MANAGEMENT SCIENCES

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. Total 11 courses are required to graduate.

**FIRST YEAR**

**Fall Semester**
- PM S102  Fundamentals Project Management (core)
- PM S101  Financial Management for Project Management (core)
- PM S253  Project Human Resource Management (elective)
- PM S310  SAP Training (compulsory)

**Spring Semester**
- PM S201  Project Scheduling Planning and Time Management (core)
- PM S301  Project Quality Management (core)
- PM S103  Project Cost Management (core)
- PM S351  Project Risk Management (elective)
- PM S309  Project in Primavera (compulsory)

**Summer Semester**
- PM S303  Project Monitoring, Evaluation and Control Management (core)
- PM Sxxxx  Project

**Elective Courses**
- PM S151  Enterprise Resource Planning
- PM S152  Innovation and Technology Management
- PM S153  Managing Projects
- PM S251  Procurement and Contract Management
- PM S252  Project Change Management
- PM S253  Project Human Resource Management
- PM S254  Project Planning and Scheduling
- PM S255  Project Change and Risk Management
- PM S351  Project Risk Management
- PM S352  Project Stakeholders Management
- PM S353  Research Methods for Project Managers

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

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MS (Management Sciences)

Student cannot take more than 04 courses in a semester including IS.

Breakdown of courses will be as under:
- 02 pre-requisite courses
- 02 core courses
- 02-04 electives
- 02 IS

**FIRST YEAR**

**FALL SEMESTER**
- MS S204  Quantitative Tools for Research
- MS S101  Change Management
- MS S239  Advanced Research Methods and Techniques
- MS Sxxxx  Elective I

**SPRING SEMESTER**
- MS S102  Organizational Development
- MS S108  Independent Study I
- MS Sxxxx  Elective II
- MS Sxxxx  Elective III

**SUMMER SEMESTER**
Summer is not a regular semester, however student can register in IS/Thesis/Dissertation in 3 credits only.

**SECOND YEAR**

**FALL SEMESTER**
- MS Sxxxx  Elective/IS/Thesis

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**ELECTIVES**
- MS S103  Managerial Economics
- MS S112  Strategic Management
- MS S156  Qualitative Tools for Research
- MS S203  Global Corporate Strategy
- MS S255  Leadership and Motivation Techniques
- MS S215  Corporate Finance
- MS S216  Corporate Governance
- MS S205  International Business Management
- MS S241  Public Administration and Governance
- MS S117  Qualitative Tools and Analysis
- MS S104  Strategic Marketing Decisions
- MS S238  Strategic Human Resource Development
- MS S237  Business Finance and Decision Making

Maximum two interdisciplinary courses can be allowed with the approval of both the 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 & Advanced Research Methods and Techniques are pre-requisites for ISs, thesis and dissertation in MS and PhD programs.

Summer semester is not a regular semester. Only 1 IS or 3 credits in thesis/dissertation is allowed. IS will be presented in Fall semester.
FACULTY OF MANAGEMENT SCIENCES

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 & Advanced Research Methods and Techniques are pre-requisite for 4 credits, thesis and dissertation. Student cannot take more than 3 courses in a semester including IS.

Breakdown of courses will be as under:
02 pre-requisite courses
02 core courses/electives
02 IS

FIRST YEAR

FALL SEMESTER
MS 6106 Advance Research Methods & Techniques
MS 6204 Strategic Marketing Decisions
MS 6x08 Independent Study I/II
MS 6xxx Elective[s]

SPRING SEMESTER
MS 6212 Quantitative Tools for Research
MS 6211 Organization Development
MS 6x08 Independent Study I/II
MS 6xxx Elective[s]

SECOND YEAR

FALL SEMESTER
MS 6xxx Dissertation

SPRING SEMESTER
MS 6xxx Dissertation

ELECTIVES
MS6xxx Managerial Economics
MS6xxx Strategic Management
MS6xxx Qualitative Tools for Research
MS6xxx Global Corporate Strategy
MS6xxx Leadership and Motivation Techniques
MS6xxx Corporate Finance
MS6xxx Corporate Governance
MS6xxx International Business Management
MS6xxx Public Administration and Governance
MS6xxx Qualitative Tools and Analysis
MS6xxx Strategic Marketing Decisions
MS6xxx Strategic Human Resource Development
MS6xxx Business Finance and Decision Making

SUMMER SEMESTER
Summer is not a regular semester, however student can register in IS or Dissertation in 3 credits only.
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, etc. This also involves efficient and effective methods of solving a variety of computational problems scientifically. Computer Science subject encompasses areas like computer electronics, software engineering, networks communication, e-commerce, artificial intelligence and mathematics. The state-of-the-art facilities at SZABIST (equipped with IBM x3650 Quad Core Servers, Lenovo core 2 duo PCs, LCDs, Multimedia, Internet & Networks) and Campus Licensing of most modern software development tools provide an environment unmatched by most of reputed universities/software development organizations in Pakistan. On-line Internet link opens further facilities and expertise for SZABIST students and faculty. SZABIST has developed an organizational network of reputable multinational and national corporations for collaboration on research in software development and information technology projects.
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. The Computing Academic Committee has developed the curriculum of Software Engineering, Telecommunications, Information Technology and Computer Sciences. A formal collaboration signed with the State University of New York at Buffalo in 1995 was effective for the development of these programs.

BS (Computing)

For the BS program in computing, 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.

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>FOURTH YEAR</th>
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<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
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<tr>
<td>CS 1102 Calculus and Analytical Geometry</td>
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<tr>
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<td>CS 4805 Professional Practices</td>
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<td>CS 1117 Introduction to Computing</td>
<td>CS xxxx Core</td>
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<td>CS 1206 Islamiat and Pakistan Studies / Humanities</td>
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<td>CS 1209 Programming Fundamentals</td>
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<td>CS 4809 Senior Design Project - II</td>
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<td>CS 1211 Technical and Business Writing</td>
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<td>CS 3505 Discrete Mathematical Structures</td>
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<td>CS 2305 Linear Algebra and Differential Equations</td>
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<td>CS 2303 Operating Systems</td>
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<td>CS 2313 Data Structures and Algorithms</td>
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<td>CS 4766</td>
<td>Multimedia and Hypermedia Systems</td>
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<td>CS 4767</td>
<td>Programming Techniques for AI using Prolog</td>
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<td>Real Time Operating Systems</td>
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<td>Switching and Fault Diagnosis</td>
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<td>CS 4817</td>
<td>Problem Solving and Advanced Algorithm Analysis</td>
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<td>Open GL Programming and Direct X</td>
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<td>3D Game Engine Programming</td>
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<td>CS 4893</td>
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</table>

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when needed.
**MS (COMPUTING)**

For the MS program in Computing, the students are required to complete 9 courses which include 5 core courses and 4 electives each in Information Technology, Software Engineering and Computer Science 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, complete the internship requirement and passed the Comprehensive Examination (for those with a non-Thesis option). For students other than a 4-year BS Degree, 1-2 year conversion courses are required to complete the MS degree.

**MS INFORMATION TECHNOLOGY (MSIT)**

*(For students with a 4 years BS or 2 year MCS degree)*

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SECOND YEAR</th>
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<tbody>
<tr>
<td><strong>FALL SEMESTER</strong></td>
<td><strong>FALL SEMESTER</strong></td>
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<tr>
<td>IT S106 Telecom Management</td>
<td>IT Sxxx Elective IV</td>
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<tr>
<td>IT S102 Advanced Database Systems</td>
<td>IT Sxxx Thesis/Research Project/Course Work</td>
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<td>IT S103 Research Methodology</td>
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<tr>
<td>IT Sxxx Elective I (Independent Study-I)</td>
<td>IT Sxxx Thesis/Research Project/Course Work</td>
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<td><strong>SPRING SEMESTER</strong></td>
<td><strong>SPRING SEMESTER</strong></td>
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<tr>
<td>IT S211 Information Security and Assurance</td>
<td>IT Sxxx Thesis/Research Project/Course Work</td>
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<td>IT S218 Information Technology Infrastructure</td>
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<tr>
<td>IT Sxxx Elective II</td>
<td>Co-requisite courses (6 out of the following 9 courses)</td>
</tr>
<tr>
<td>IT Sxxx Elective III (Independent Study II)</td>
<td>CS 413 Operating Systems</td>
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<td><strong>SUMMER SEMESTER</strong></td>
<td>CS 414 Digital Systems</td>
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<tr>
<td>CS 4xx Co-requisite - I</td>
<td>CS 418 Software Engineering Analysis</td>
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<tr>
<td>CS 4xx Co-requisite - II</td>
<td>CS 428 Network Security</td>
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**MS INFORMATION TECHNOLOGY (MSIT)**

*(For students with a 4 years professional degree)*

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
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<tr>
<td><strong>FALL SEMESTER</strong></td>
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<tr>
<td>IT S106 Telecom Management</td>
<td>CS 4xx Co-requisite - IV</td>
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<tr>
<td>IT S102 Advanced Database Systems</td>
<td>IT Sxxx Elective - IV</td>
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<tr>
<td>IT S103 Research Methodology</td>
<td>IT Sxxx Thesis/Research Project/Course Work</td>
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<td>IT Sxxx Elective-I (Independent Study-I)</td>
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<tr>
<td>IT S211 Information Security and Assurance</td>
<td>CS 4xx Co-requisite - V</td>
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<tr>
<td>IT Sxxx Elective - II</td>
<td>CS 4xx Co-requisite - VI</td>
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<tr>
<td>IT Sxxx Elective - III (Independent Study II)</td>
<td>IT Sxxx Thesis/Research Project/Course Work</td>
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<td><strong>SUMMER SEMESTER</strong></td>
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<tr>
<td>CS 4xx Co-requisite - I</td>
<td>Co-requisite courses (6 out of the following 9 courses)</td>
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<tr>
<td>CS 4xx Co-requisite - II</td>
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<td><strong>SECOND YEAR</strong></td>
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<td>CS 428 Network Security</td>
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<td>CS 431 Object Oriented Techniques</td>
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<td>CS 435 Programming Languages and Data Structure</td>
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<td>CS 437 Computer Organization</td>
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<td></td>
<td>CS 442 Software Development and Modelling</td>
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<td></td>
<td>CS 471 Database Design and Application</td>
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</tbody>
</table>
## MS INFORMATION TECHNOLOGY (MSIT)
(For students with a 3 years BCS degree)

### FIRST YEAR

**FALL SEMESTER**
- CS 4xx Elective - I
- CS 4xx Elective - II
- CS 4xx Elective - III
- CS 4xx Elective - IV

**SPRING SEMESTER**
- CS 4xx Elective - V
- CS 4xx Elective - VI
- CS 4xx Elective - VII
- CS 4xx Elective - VIII

**SUMMER SEMESTER**
- CS 4xx Elective - IX
- CS 4xx Elective - X

### SPRING SEMESTER
- IT 5211 Information Security and Assurance
- IT 5218 Information Technology Infrastructure
- IT 5xxx Elective - III
- IT 5xxx Elective - III (Independent Study - II)

### THIRD YEAR

**FALL SEMESTER**
- IT 5xxx Elective - IV
- IT 5xxx Thesis/Research Project/Course Work

**SPRING SEMESTER**
- IT 5xxx Thesis/Research Project/Course Work

## MS SOFTWARE ENGINEERING (MSSE)
(For students with a 4 years BS or 2 year MCS degree)

### FIRST YEAR

**FALL SEMESTER**
- IT 5106 Telecom Management
- IT 5102 Advanced Database Systems
- IT 5105 Research Methodology
- IT 5xxx Elective - I (Independent Study - I)

**SPRING SEMESTER**
- SE 5xxx Thesis/Research Project/Course Work

### SECOND YEAR

**FALL SEMESTER**
- SE 5101 Software Requirement Engineering
- SE 5102 Software System Design and Architecture
- SE 5105 Research Methodology
- SE 5xxx Elective - I (Independent Study - I)

**SPRING SEMESTER**
- SE 5201 Software Project Management
- SE 5202 Software Quality Engineering
- SE 5xxx Elective - II
- SE 5xxx Elective - III (Independent Study - II)

**SECOND YEAR**
- SE 5xxx Elective - IV
- SE 5xxx Thesis/Research Project/Course Work
## MS SOFTWARE ENGINEERING (MSSE)
### (For students with a 4 years professional degree)

### FIRST YEAR

#### FALL SEMESTER
- SE 5101 Software Requirement Engineering
- SE 5102 Software System Design and Architecture
- SE 5105 Research Methodology
- SE 5xxx Elective - I (Independent Study - I)

#### SPRING SEMESTER
- SE 5201 Software Project Management
- SE 5202 Software Quality Engineering
- SE 5xxx Elective - II
- SE 5xxx Elective - III (Independent Study - II)

#### SUMMER SEMESTER
- CS 4xx Co-requisite - I
- CS 4xx Co-requisite - II

#### SECOND YEAR

#### FALL SEMESTER
- CS 4xx Co-requisite - III

### MS SOFTWARE ENGINEERING (MSSE)
### (For students with a 3 years BCS degree)

### FIRST YEAR

#### FALL SEMESTER
- CS 4xx Elective - I
- CS 4xx Elective - II
- CS 4xx Elective - III
- CS 4xx Elective - IV

#### SPRING SEMESTER
- CS 4xx Elective - V
- CS 4xx Elective - VI
- CS 4xx Elective - VII
- CS 4xx Elective - VIII

#### SUMMER SEMESTER
- CS 4xx Elective - IX
- CS 4xx Elective - X

### SECOND YEAR

#### FALL SEMESTER
- SE 5101 Software Requirement Engineering
- SE 5102 Software System Design and Architecture
- SE 5105 Research Methodology
- SE 5xxx Elective - I (Independent Study - I)

#### SPRING SEMESTER
- SE 5201 Software Project Management
- SE 5202 Software Quality Engineering
- SE 5xxx Elective - II
- SE 5xxx Elective - III (Independent Study - II)

### THIRD YEAR

#### FALL SEMESTER
- SE 5xxx Elective - IV
- SE 5xxx Thesis/Research Project/Course Work

#### SPRING SEMESTER
- SE 5xxx Thesis/Research Project/Course Work
# 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

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# 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 4xx: Co-requisite - III
- CS 4xx: Co-requisite - IV
- CS 5xxx: Elective - IV
- CS 5xxx: Thesis/Research Project/Course Work

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

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**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 433: 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 years BCS degree)

## FIRST YEAR

### FALL SEMESTER
- CS 4xx  Elective I
- CS 4xx  Elective II
- CS 4xx  Elective III
- CS 4xx  Elective IV

### SPRING SEMESTER
- CS 4xx  Elective V
- CS 4xx  Elective VI
- CS 4xx  Elective VII
- CS 4xx  Elective VIII

### SUMMER SEMESTER
- CS 4xx  Elective IX
- CS 4xx  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’s four courses. All students are required to register for full load in the first semester.

### INTERNSHIP
All MS students are required to complete a six to eight weeks Internship. Completion of the Internship is a degree requirement for the MS program. Students can produce their current or previous employment records as an alternate to the Internship program.

### COMPREHENSIVE EXAMINATION
All MS students registered/enrolled in the non-thesis MS program must pass the comprehensive examination.
### MS/PhD (Computing) ELECTIVES

#### IT Electives
- IT 5127 Wireless Technologies and Application
- IT 5222 Knowledge Based Systems
- IT 5224 Data Mining
- IT 5611 Objects Oriented Systems
- IT 5612 Broadband Networks
- IT 5613 Client Server Technologies and Application
- IT 5614 Communication Design for the WWW
- IT 5616 Data Modeling
- IT 5617 Data Warehouse Techniques
- IT 5618 Decision Support Systems
- IT 5619 Digital Voice Communications
- IT 5621 Distributed Systems
- IT 5622 Electronic Coaching Systems
- IT 5623 Electronic Commerce
- IT 5624 Enterprise Architecture
- IT 5625 Enterprise Computing
- IT 5626 Executive Information Systems
- IT 5627 Formal Specification
- IT 5628 Graphics and Image Processing
- IT 5629 Human-Machine Interfaces
- IT 5633 Information Management
- IT 5634 Information Technology and Management
- IT 5635 Interactive Media
- IT 5636 Internet Protocols
- IT 5637 IT Entrepreneurship
- IT 5639 Management of Technical Projects
- IT 5641 Multimedia Information Systems
- IT 5642 Object Oriented Systems
- IT 5643 Project Management for IT
- IT 5644 Secure Application and Application Security
- IT 5645 Strategic Information Management
- IT 5646 Strategic Information Systems
- IT 5647 System for Teaching and Learning

#### CS Electives
- CS 5123 Bioinformatics
- CS 5128 Digital Image Processing
- CS 5146 Mechatronics
- CS 5257 Neural Networks
- CS 5266 Artificial Intelligence
- CS 5267 Computer Design and Construction
- CS 5268 Computer Architecture
- CS 5269 Computer Networks
- CS 5271 Computer Science Education
- CS 5272 Database Systems
- CS 5273 Human-Computer Interaction
- CS 5274 Mobile Communication
- CS 5275 Multimedia and Graphics
- CS 5276 Network
- CS 5279 Biotechnology
- CS 5282 Fuzzy Logic
- CS 5283 SWARM Computing
- CS 5284 Digital Signal Processing
- CS 5305 Speech Recognition Systems

#### MS Electives
- CS 4911 Advance Database Grid Computing
- CS 4912 Artificial Intelligence
- CS 4913 Business Information Systems Management
- CS 4914 Business Management for IT Entrepreneur
- CS 4915 Compiler Construction
- CS 4916 Computer Architecture
- CS 4917 Computer Graphics
- CS 4918 Decision Support Systems
- CS 4919 Digital Image Processing
- CS 4921 Digital Signal Processing
- CS 4922 Distributed Systems
- CS 4923 Electronic Payment System Management
- CS 4924 E-Marketing Strategies
- CS 4925 Embedded Programming
- CS 4926 Fundamentals of e-commerce
- CS 4927 Information Security and Cryptography
- CS 4928 Information System Audit
- CS 4929 Internet Programming
- CS 4931 Language Processors
- CS 4933 Mobile Communication
- CS 4934 .NET Technology
- CS 4935 Programming Techniques using Prolog
- CS 4936 Software Engineering Tools and Building Blocks
- CS 4937 Software Project Management
- CS 4938 System Development Methodology
- CS 4939 Technology Management

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

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

**FIRST YEAR**

**FALL SEMESTER**
- CS 601 Research Methodology
- CS 6xxx Elective I
- CS 6xxx Elective II

**SPRING SEMESTER**
- CS 6xxx Independent Studies
- CS 6xxx Elective III
- CS 6xxx Elective IV

**SUMMER SEMESTER**
- CS 6xxx Dissertation

**SECOND YEAR**

**FALL SEMESTER**
- CS 6xxx Dissertation

**SPRING SEMESTER**
- CS 6xxx Dissertation

**THIRD YEAR**

**FALL SEMESTER**
- CS 6xxx Dissertation

**SPRING SEMESTER**
- CS 6xxx Dissertation

Elective courses are listed under MS/PhD 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 Coordinator) from the various available approaches including guided/taught courses, seminars and independent research studies.
Mechatronics engineering is a modern discipline that integrates mechanical, electrical and electronics control, and software engineering, all integrated through the design process. It relates to the design of systems, devices and products aimed at achieving an optimal balance between basic mechanical structure and its overall control. More specifically, it refers to a multidisciplinary approach to product and manufacturing system design offering dramatic improvements in performance.

Mechatronics should be seen to represent technology integration and not just a combination of the primary disciplines. In fact, the “fusion” of mechanical, electronic and computer based structures into a complete Mechatronics “product” can only achieve its desired functionality through a process of systematic integration of all inherent disciplines involving right through from the conceptual stages. Invoking only mechanical, electronic or computer-based entities would not in itself provide the complete system solution. By definition, then, Mechatronics is not a subject, science or technology by itself. It is instead to be regarded as a philosophy a fundamental way of looking at, and doing things and by its very nature requires a unified approach to its delivery.
**FACULTY OF MECHATRONICS ENGINEERING**

**Program Objectives**
The objectives of the program are to provide a broad and basic education in multiple disciplines comprised of Mechanical, Electronics, and Computer Engineering and to ensure that all students in the program are exposed to a wide spectrum of engineering knowledge and practice. The students would acquire sufficient fundamental knowledge to adapt quickly to the changes that are occurring and will continue to occur during their professional careers.

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

- Apply mechanical and electronics engineering knowledge and skills to problems and challenges in the areas of mechatronics engineering.
- Integrate and use systems or devices incorporating modern microelectronics, information technologies and modern engineering tools for product design, development and manufacturing.
- Demonstrate professional interaction, communicate effectively with team members, and work efficiently in multidisciplinary projects.
- Engage in lifelong learning in their occupation, and practice professional and ethical responsibility.

**BE (Mechatronics Engineering) Program**

STAIST offers a four year comprising of eight semesters, BE (Mechatronics Engineering) degree. BE Mechatronics Engineering program is essentially a day program and consists of 43 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 seven years. For the BE program in Mechatronics Engineering, the students are required to complete internship and pass the Comprehensive Examination.

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

### BE MECHATRONICS ENGINEERING

#### FIRST YEAR

**FALL SEMESTER**

- ME 1101 Communication and Presentation Skills
- ME 1102 Electric Circuits
- ME 1103 Engineering Drawing and Graphics
- ME 1104 Engineering Mathematics-II: Calculus and Analytical Geometry
- ME 1105 Introduction to Computer System and IT
- ME 1106 Islamic Studies

**SPRING SEMESTER**

- ME 1201 Electronic Devices and Circuits
- ME 1202 Engineering Mathematics-III: Linear Algebra and Ordinary Differential Equations (ODEs)
- ME 1203 Engineering Physics
- ME 1204 Engineering Statics
- ME 2301 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 3503 Microcontroller Based Systems
- ME 3504 Sensors, Actuators and Instrumentation
- ME 3505 Theory of Machine Design

**SPRING SEMESTER**

- ME 3601 CAD/CAM
- ME 3602 Design of Mechatronics Systems
- ME 3603 Engineering Mathematics-VI: Probability and Statistics
- ME 3604 Material Science and Engineering
- ME 3605 Power Electronics
FACULTY OF MECHATRONICS ENGINEERING

FOURTH YEAR

FALL SEMESTER
ME 4xxx Elective-I (Engineering)
ME 4702 Engineering Economics and Project Management
ME 4703 Heat Transfer
ME 4701 Control Systems
ME 4704 Mechanical Vibrations
ME 4xxx Final Design Project*

SPRING SEMESTER
ME 4801 Industrial Automation
ME 4xxx Elective II (Engineering)
ME 4xxx Elective III (Management Sciences)
ME 4802 Robotics

Electives

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 organization 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, Political Science, Economics, Journalism and Media Studies.
Department of Social Sciences

BS (Social Sciences)

For the BS (SS), the students are required to complete 48 courses, which include 39 compulsory courses, 8 electives and a research report. To obtain the BS degree, the student should have completed a minimum of 144 credit hours. The maximum time limit to complete the BS degree is seven years.

**FIRST YEAR**

**FALL SEMESTER**
- SS 1101 Computer and Web Skills-I
- SS 1102 English Writing Skills
- SS 1103 Islamiat and Pakistan Studies
- SS 1105 Microeconomics
- SS 1107 Community Services-I
- SS 1201 Introduction to Social Sciences

**SPRING SEMESTER**
- SS 1203 Computer and Web Skills-II
- SS 1205 Macroeconomics
- SS 1206 History of Art
- SS 1207 Community Services-II
- SS 1208 Oral Communication and Presentation Skills
- SS 1209 Social Policy

**SECOND YEAR**

**FALL SEMESTER**
- SS 2305 Human Geography
- SS 2306 Psychology
- SS 2307 Sociology
- SS 2309 Statistics-I
- SS 1255 Linguistics
- SS 1xxx Minor-I

**SPRING SEMESTER**
- SS 2406 Gender Studies
- SS 2409 Statistics-II
- SS 2411 Environmental Studies
- SS 2412 International Relations
- SS 2413 Philosophy
- SS 1xxx Minor-II

**THIRD YEAR**

**FALL SEMESTER**
- SS 2405 Enlightenment
- SS 3507 Culture, Media and Society
- SS 3509 Language-I
- SS 4xxx Elective-I
- SS 4xxx Elective-II
- SS 1xxx Minor-III

**SPRING SEMESTER**
- SS 3604 European Studies
- SS 3605 International Law and Human Rights
- SS 3606 Political Economy
- SS 3609 Language-II

**FOURTH YEAR**

**FALL SEMESTER**
- SS 3503 Development Studies
- SS 3504 Research Methods
- SS 4703 South Asian Studies
- SS 1xxx Minor-IV
- SS 4xxx Elective-V
- SS 4xxx Elective-VI

**SPRING SEMESTER**
- SS 4803 Middle Eastern Studies
- SS 4804 Public Policy
- SS 4805 Research Report
- SS 1xxx Minor-V
- SS 4xxx Elective-VII
- SS 4xxx Elective-VIII

**MINORS**
- SS 1154 Literature
- SS 1156 Anthropology
- SS 1157 Comparative Religion
- SS 1158 Folk Studies
- SS 1159 Language-III
- SS 1254 World History
- SS 1256 Journalism
- SS 1257 Political Science
- SS 1259 Language-IV
- SS 1261 Sindh Studies

**ELECTIVES**

**PSYCHOLOGY**
- SS 4111 Abnormal Psychology
- SS 4112 Developmental Psychology
- SS 4134 Cognitive Psychology
- SS 4135 Educational Psychology
- SS 4136 Humanistic Psychology
- SS 4233 Organizational Psychology
- SS 4234 Psychodynamics
- SS 4235 Psychology of Learning
- SS 4236 Social Psychology

**SOCIOLGY**
- SS 4137 Civil Society and Peace Movements
- SS 4138 Corporate Social Responsibility
- SS 4141 Mass Media and Society
- SS 4237 Post-Colonial State and Social Development
FACULTY OF SOCIAL SCIENCES

SS 4238  Social Entrepreneurship
SS 4239  Social Justice and Civil Society
SS 4241  Sociology of Education
SS 4242  The Sociology of Poverty

INTERNATIONAL RELATIONS
SS 4122  Foreign Policy
SS 4123  International Politics
SS 4133  Diplomacy
SS 4142  Conflict Resolution
SS 4218  International Political Economy
SS 4219  Peace Research
SS 4221  Refugees and Migration Studies
SS 4222  Strategic Studies
SS 4244  Globalization
SS 4243  Global Governance

ECONOMICS
SS 4139  Gender and Development
SS 4147  Economic Development and Planning
SS 4148  Economics of Marketing
SS 4149  Human Resource Development
SS 4231  Development Economics
SS 4232  Monetary Economics
SS 4151  Managerial Economics
SS 4228  History of Economic Thought
SS 4249  Pakistan Economy
SS 4251  Sustainable Development

POLITICAL SCIENCE
SS 4143  Comparative Politics
SS 4144  Democracy and Development
SS 4145  Foreign Policy of Pakistan
SS 4146  Modern Ideologies
SS 4245  Muslim Political Philosophy
SS 4246  Peace Studies
SS 4247  Politics and Development
SS 4248  Politics of Reconciliation

JOURNALISM
SS40xx  Reporting the News
SS40xx  Investigative Journalism and Crisis Reporting
SS40xx  Feature Writing-I
SS40xx  Editing, Subediting and Design
SS40xx  Publication Layout and Design
SS40xx  Introduction to Photojournalism
SS40xx  Feature Writing-II
SS40xx  Advanced Broadcast Journalism
SS40xx  Digital and New Media Journalism

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.

INTERNISHIP
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.

MS (Social Sciences)

For the MS program, the students are required to complete 8 courses, which includes 1 pre-requisite, 2 core courses, 2 IS and 2-4 electives and a Thesis. To obtain the MS degree, the student is required to complete a minimum of 30 credit hours.

FIRST YEAR

FALL SEMESTER
SS 5105  Research Methodology
SS 5207  Quantitative Tools for Decision Making
SS 30xx  Elective-I
SS 30xx  Elective-II

SPRING SEMESTER
SS 5116  Econometrics
SS 5108  Independent Study I
SS 30xx  Elective III
SS 30xx  Elective IV

SUMMER SEMESTER
SS 5208  Independent Study II

SECOND YEAR

FALL SEMESTER
SS 5109  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
PhD (Social Sciences)

Course work: 18 credits (6 courses). Course work includes core courses, elective and independent study. Dissertation: 30 credits minimum. PhD course work credits may be implemented via selection of a particular mode of course execution (as recommended by the respective Graduate Committee) from the various available approaches including taught courses, independent research studies and dissertation.

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<tr>
<td>SS 6108 Independent Study I</td>
<td>SS 6xxx Dissertations</td>
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<td>SS 5207 Quantitative Tools for Decision Making</td>
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<td>SS 6xxx Elective I</td>
<td>SS 6xxx Dissertations</td>
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<td><strong>SPRING SEMESTER</strong></td>
<td><strong>ELECTIVES</strong></td>
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<td>SS 6208 Independent Study II</td>
<td>SS 5104 Politics of Geo-Economics</td>
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<td>SS 6xxx Elective II</td>
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<td>SS 6101 Advanced Research Methods</td>
<td>SS 5212 NGO Management</td>
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<td>SS 5214 Public Policy Management</td>
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<td></td>
<td>SS 5312 Globalization and Developing Countries</td>
</tr>
<tr>
<td></td>
<td>SS 5313 Intellectual Property Rights and Laws</td>
</tr>
</tbody>
</table>

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

Department of Media Sciences

In the 21st century, media in their myriad forms print, film, video, digital, virtual, and mobile have increasingly saturated all aspects of contemporary life. Every day we read newspapers, listen to radio, watch movies and television, search online, and answer our cellular phones. This proliferation of media presents vast opportunities and poses immense challenges.

Broadly defined, the 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 and other digital technologies, and the performing arts. The field draws on the work done in a range of related natural and social science disciplines, and in the humanities including, but not limited to, sociology, anthropology, physics, rhetoric, literary and performance theory, visual and cultural studies, literature, the performing and fine arts, political science, information theory, psychology, engineering, architecture, and design.

Our program in Media Sciences is designed to help undergraduate and graduate students participate productively, both as practitioners and scholars, in this exciting environment. We recognize that studying media requires interdisciplinary thinking, that training in the methods of production should always be grounded in a complex understanding of the social, cultural, and political circulation of media texts and images, and that therefore a bridging of theory and practice will give our students the skills, knowledge and flexibility that the increasingly competitive international marketplace demands. Courses are designed to integrate the study of local and global media history, theory and research with production work in photography, journalism, graphic design, advertising, radio, film, video, audio, digital, online, and emerging communications technologies.

Bachelor of Media Sciences

The mission of the multidisciplinary undergraduate program in Media Sciences at SZABIST is to develop in students both theoretical as well as historical knowledge and technical skills crucial to the creation, evaluation and critical analysis of a wide range of media texts in both local and global contexts. The program's three-track focus (Film / Television Production, Advertising & Journalism) will introduce students to the origins, history, theory, interpretation, production, and social effects of these three disciplines through a range of creative, practical, and analytical courses. We focus on how students can make and use media texts to understand and critique increasingly complex social, cultural and political relations in the world today.
# BS (Media Sciences)

Undergraduates are required to complete 45 courses (34 core courses, 9 electives in Film and Television Production, Advertising, or Journalism) and a 6-credit thesis.

## First Year

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD1116 Civilization Studies-I</td>
<td>MD1216 Civilization Studies-II</td>
</tr>
<tr>
<td>MD1117 Survey of Media in Pakistan</td>
<td>MD1114 Culture, Media and Society</td>
</tr>
<tr>
<td>MD1119 Play Analysis</td>
<td>MD1116 Photography</td>
</tr>
<tr>
<td>MD1107 Drawing and Perspective</td>
<td>MD2323 Production Practices-I</td>
</tr>
<tr>
<td>MD3601 Art of Music</td>
<td>MD2322 Visual Communications</td>
</tr>
<tr>
<td>MD1102 English Writing Skills</td>
<td>MD2402 Islamist and Pakistan Studies/Humanities</td>
</tr>
</tbody>
</table>

## Second Year

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD1217 Introduction to Sound</td>
<td>MD3511 Radio Channel Project-I</td>
</tr>
<tr>
<td>MD1211 Basic Design</td>
<td>MD2318 History of Commercial Art</td>
</tr>
<tr>
<td>MD2321 History and Aesthetics of Film</td>
<td>MD2423 Theater Project</td>
</tr>
<tr>
<td>MD2424 Media Psychology</td>
<td>MD2416 Business Studies for Media</td>
</tr>
<tr>
<td>MD2313 Idea Development</td>
<td>MD2427 Design Practices-I</td>
</tr>
<tr>
<td>MD2324 Advanced English Composition</td>
<td>MD2425 Audiovisual Editing</td>
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</table>

## Third Year

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD1118 Topics in Asian Literature</td>
<td>MD2405 Media Laws and Ethics</td>
</tr>
<tr>
<td>MD3505 Principles of Journalism</td>
<td>MD3602 Publication Project</td>
</tr>
<tr>
<td>MD3518 Animation and Motion Graphics</td>
<td>MD40xx Elective-I</td>
</tr>
<tr>
<td>MD3527 Design Practices-II</td>
<td>MD40xx Elective-II</td>
</tr>
<tr>
<td>MD3523 Production Practices-II</td>
<td>MD40xx Elective-III</td>
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## Fourth Year

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
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</tr>
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<tbody>
<tr>
<td>MD4701 State and Nation Building in Pakistan</td>
<td>MD4807 Thesis-I</td>
</tr>
<tr>
<td>MD4714 Producing Short Narratives</td>
<td>MD4806 Theories of Visual Culture</td>
</tr>
<tr>
<td>MD4xxx Elective-IV</td>
<td>MD4xxx Elective-VIII</td>
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<tr>
<td>MD4xxx Elective-V</td>
<td>MD4xxx Elective-IX</td>
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<tr>
<td>MD4xxx Elective-VI</td>
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<td>MD4xxx Elective-VII</td>
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</table>

## Summer Semester

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>SPRING SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD 4808 Thesis-II</td>
<td></td>
</tr>
</tbody>
</table>

## Electives

- **Film & Television Production**
  - MD4765 Basic Lighting
  - MD4726 Directing-I
  - MD4861 Digital Film Making
  - MD4825 Screenwriting
  - MD4856 Advanced Lighting
  - MD4728 Directing-II
  - MD4724 Documentary Vision
  - MD4868 Production Practices-III
  - MD4862 Advanced Studio Project

- **Advertising**
  - MD4736 Integrated Marketing Communication
  - MD4731 Advertising Research
  - MD4745 Event Management
  - MD4756 Copywriting and Idea Visualization
  - MD4739 Advertising Design and Concept
  - MD4755 Brand Identity Management
  - MD4835 Consumer Behavior
  - MD4843 Campaign Strategy
  - MD4846 New Media Advertising

- **Journalism**
  - MD4839 Reporting the News
  - MD4864 Investigative Journalism and Crisis Reporting
  - MD4757 Feature Writing-I
  - MD4759 Editing, Subediting and Design
  - MD4822 Publication Layout and Design
  - MD4859 Introduction to Photojournalism
  - MD4857 Feature Writing-II
  - MD4758 Advanced Broadcast Journalism
  - MD4858 Digital and New Media Journalism
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 full time 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 six-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.

POST GRADUATE DIPLOMA (PGD) IN TELEVISION PRODUCTION

For students with 2 year undergraduate degrees and at least 4 years of work experience in the media industry, the Department of Media Sciences offers a Post Graduate Diploma (PGD) in either Television Production or in Advertising.

In order to receive a PGD, students must complete 36 credit hours of course work. This includes 10 courses and 6 credits of research. Students who successfully complete all courses in the program will receive an official transcript and a Certificate of Completion. Please note, courses taken as part of the PGD may not be transferred toward fulfillment of any other degree offered by the Department of Media Sciences. The minimum time required to complete this program is one year.

**FIRST YEAR**

**FALL SEMESTER**

D-TP1101 History and Theories of Television
D-TP1104 Video Production-I
D-TP1102 Introduction to Sound
D-TP1209 Research Project-I

**SPRING SEMESTER**

D-TP1204 Video Production-II
D-TP1203 Producing TV News Magazines
D-TP1103 Writing and Producing Serials, Sitcoms and Tele-films
D-TP1201 Advanced Lighting
D-TP1202 Audiovisual Editing

**SUMMER SEMESTER**

D-TP2304 Video Production-III
D-TP2301 Production Design
D-TP2309 Research Project-II

**FIRST YEAR**

**FALL SEMESTER**

D-AD1102 History of Commercial Art
D-AD1104 Integrated Marketing Communications
D-AD1101 Advertising Research
D-AD1103 Idea Development

**SPRING SEMESTER**

D-AD1202 Consumer Behavior
D-AD1201 Brand Management
D-AD1203 Copywriting and Advertising Conceptualization
D-AD1204 Event Management
D-AD1209 Research Project-I

**SUMMER SEMESTER**

D-AD2301 Campaign Strategy
D-AD2302 New Media Advertising
D-AD2309 Research Project-II
FACULTY OF SOCIAL SCIENCES

Master of Television Production & Master of Advertising

The Department of Media Sciences offers two terminal Master’s programs designed for current students and working professionals with two, three or four-year undergraduate degrees in related/unrelated fields of study; a program in Television Production and a program in Advertising. Both programs focus on the practical aspects of each field, providing comprehensive training through courses that cover a range of vocational options available in each industry.

The Master’s in Television Production offers students specialized training in the writing, directing, and production of all forms of television, both fiction and non-fiction. The mission of this program is to help develop the technical and professional skills individuals need to participate responsibly and productively in a sometimes chaotic national media environment.

The Master’s in Advertising is designed specifically for those students who have received at least some training in graphic design, but who have little or no advertising experience. We require those students with no design experience to successfully complete at least six design-related courses through our undergraduate program (Drawing & Perspective; Photography; Basic Design; Design Practices-I; Idea Development; and Design Practices II) before enrolling in the graduate program.

Eligibility
Candidates must have completed a 2, 3, or 4 years Bachelors degree in a related or unrelated field of study with at least 55% marks or a CGPA of 2.5.

Master of Television Production

(36 credit hours for students with a 4-year undergraduate degree in a related field)

FIRST YEAR

FALL SEMESTER
MDS102 Media and Contemporary Culture
MDS207 Media Evolution and Innovation
MDS141 Idea Development
MDS143 Video Production-I

SUMMER SEMESTER
MDS341 Production Design
MDS343 Video Production-III

SPRING SEMESTER
MDS241 Audiovisual Editing
MDS242 Producing TV News Magazines

SECOND YEAR

FALL SEMESTER
MDS349 Research Project (6 credits)

Master of Advertising

(36 credit hours for students with a 4-year undergraduate degree in a related field)

FIRST YEAR

FALL SEMESTER
MDS102 Media and Contemporary Culture
MDS207 Media Evolution and Innovation
MDS161 Integrated Marketing Communications
MDS141 Idea Development

SUMMER SEMESTER
MDS351 Campaign Strategy
MDS352 New Media Advertising

SPRING SEMESTER
MDS261 Advertising Research
MDS262 Brand Management
MDS263 Consumer Behavior
MDS264 Copywriting and Advertising Conceptualization

SECOND YEAR

FALL SEMESTER
MDS349 Research Project (6 credits)
Master of Television Production

72 credit hours for students with a 2-4 years undergraduate degree in an unrelated field of study or 2 or 3 years undergraduate degree in a related field of study. Grades received for first year foundational courses, selected through our undergraduate Media Sciences curriculum, will count as part of a student’s Cumulative Grade-Point Average (CGPA). Students may elect to substitute prerequisites listed here with other courses offered only after consultation with the Program Manager and the Head of Department.

**FIRST YEAR**

**FALL SEMESTER**
- MD1116 Civilization Studies-I
- MD1117 Survey of Media in Pakistan
- MD1217 Introduction to Sound
- MD2321 History and Aesthetics of Film
- MD2424 Media Psychology
- MD4701 State and Nation Building in Pakistan

**SPRING SEMESTER**
- MD1216 Civilization Studies-II
- MD1104 Culture, Media and Society
- MD1106 Photography
- MD2322 Visual Communications
- MD2405 Media Laws and Ethics
- MD3506 Theories of Visual Culture

**SECOND YEAR**

**FALL SEMESTER**
- MD3102 Media and Contemporary Culture
- MD3207 Media Evolution and Innovation
- MD3141 Idea Development
- MD3143 Video Production-I

**SPRING SEMESTER**
- MD5241 Audiovisual Editing
- MD5242 Producing TV News Magazines
- MD5243 Video Production-II
- MD5244 Writing & Producing Serials, Sitcoms, & Tele-films

**SUMMER SEMESTER**
- MD5341 Production Design
- MD5343 Video Production-III

**THIRD YEAR**

**FALL SEMESTER**
- MD5349 Research Project (6 credits)

Master of Advertising

72 credit hours for students with a 2-4 years undergraduate degree in an unrelated field of study or 2 or 3 years undergraduate degree in a related field of study. Grades received for first year foundational courses, selected through our undergraduate Media Sciences curriculum, will count as part of a student’s Cumulative Grade-Point Average (CGPA). Students may elect to substitute prerequisites listed here with other courses offered only after consultation with the Program Manager and the Head of Department.

**FIRST YEAR**

**FALL SEMESTER**
- MD1116 Civilization Studies-I
- MD1107 Drawing and Perspective
- MD1211 Basic Design
- MD2322 Visual Communications
- MD2424 Media Psychology
- MD4701 State and Nation Building in Pakistan

**SPRING SEMESTER**
- MD1216 Civilization Studies-II
- MD1104 Culture, Media and Society
- MD1106 Photography
- MD2318 History of Commercial Art
- MD2427 Design Practices-I
- MD3506 Theories of Visual Culture

**SECOND YEAR**

**FALL SEMESTER**
- MD3102 Media and Contemporary Culture
- MD3207 Media Evolution and Innovation
- MD3161 Integrated Marketing Communications
- MD3141 Idea Development

**SPRING SEMESTER**
- MD5261 Advertising Research
- MD5262 Brand Management
- MD5263 Consumer Behavior
- MD5264 Copywriting and Advertising Conceptualization

**SUMMER SEMESTER**
- MD5351 Campaign Strategy
- MD5352 New Media Advertising

**THIRD YEAR**

**FALL SEMESTER**
- MD5349 Research Project (6 credits)
MS Media Studies

In today's emerging creative economy, the media play a crucial role in a proliferating number of social and cultural arenas: in politics, public policy, public relations, international relations, sustainable development, and the arts. There is a growing demand for decision makers with a broad, interdisciplinary knowledge of fields as diverse as mass communications, management, anthropology, sociology, public policy and media studies.

The Department of Media Sciences at SZABIST offers a two-year, evening MS degree program in Media Studies designed to prepare students for managerial, policy-making, and teaching roles in media, government, schools and universities, and in private, non-profit and multinational organizations. This program covers a range of subject areas including mass communications, media management, media policy, visual studies, theories of media, and new media technologies.

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 to fulfill all requirements, including necessary coursework and research as outlined by the Department of Social Sciences and required by the Higher Education Commission of Pakistan.

Eligibility
Students with a 4 year Bachelors degree in a related field of study should be able to complete all courses for the MS degree in minimum two years. To be awarded an MS in Media Studies, students need to complete 36 credit hours of course work. This includes 30 credits of course work (10 courses) and 6 credits of research.

MS in Media Studies

(36 credit hours for students with a 4 year undergraduate degree in a related field)

**FIRST YEAR**

**FALL SEMESTER**
- MD5102 Media and Contemporary Culture
- MD5207 Media Evolution and Innovation
- MD5104 Research Methodology

**SPRING SEMESTER**
- MD5208 Media, Policy and Ethics
- MD5212 Theories of Visual Culture
- MD5112 Media and Post-Colonialism

**SECOND YEAR**

**FALL SEMESTER**
- MD5103 Media Management
- MD5201 Communication for Social Change
- MD5xxx Elective-I

**SPRING SEMESTER**
- MD5xxx Elective-II
- MD5109 Thesis (6 credits)

**Electives**
- MD5xxx Media, Politics and Governance
- MD5xxx Issues in International Media
- MD5xxx Theories of Information Architecture and Communication Design
- MD5xxx Media and Public Relations: Case Studies
- MD5xxx Special Topics in Media Policy and Management
- MD5xxx Visual Cultures of Pakistan

National Cinemas
Film and Television Genres
Theories of Film and Television
Urban Geographies and Visual Cultures
Media, Art and Technology
Special Topics in Visual Cultural Studies
Our 4 years 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 areas in biological sciences.
THE PROGRAM
The program is in line with the criteria set by the Higher Education Commission in Pakistan. BS-Biosciences at SZABIST is a 4-year program of 8 semesters. Graduation requirements are 135 credit hours, an internship of at least 6 weeks and a research project.

Lab Facilities
SZABIST is equipped with hi-tech and state-of-the-art scientific laboratories conducting 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

Aims and objectives of BS-Biosciences:
This undergraduate program aims to produce graduates with specific training in a wide range of biological applications. It is envisioned to provide training in the fundamentals of state-of-the-art biological sciences and a unique blend of genome sciences, health sciences, agriculture sciences and pharmaceutical sciences.

Upon completion of the course, students should:
Have a broad knowledge of science across a range of disciplines, with a high level of understanding and appreciation in specialized areas of biological sciences, have an appreciation of integrated cellular tissue and whole body systems, particularly in the context of the new age of cell and molecular biology, genetic manipulation, rational drug design and therapeutics; have well developed skills in bioinformatics (computational molecular biology) and an awareness of state-of-the-art laboratory techniques of biological relevance and their applications.

Job Placement possibilities:
- Food Industry
- Biotechnology Companies
- Health Sector - Clinics/Hospital
- Pharmaceutical Industry
- Biostatistics Software Houses
- Research Centers
- Academia
- Good Base for Higher Education

BS (Biosciences)

FIRST YEAR

SEMESTER-I
- BIO 2301 Biology-I
- BIO 1103 English-I
- BIO 1105 Mathematics-I
- BIO 1205 Microbiology
- BIO 1206 Physiology-I

SEMESTER-II
- BIO 2401 Biochemistry-II
- BIO 1202 English-II
- BIO 3504 Immunology
- BIO 1204 Mathematics-II
- BIO 1207 Advanced Microbiology
- BIO 2305 Physiology-II

SECOND YEAR

SEMESTER-III
- BIO 1101 Cell Biology
- BIO 1201 Cognitive Development
- BIO 2405 Hematology
- BIO 1104 Introduction to Computing
- BIO 2303 Islamiat and Pakistan Studies/Humanities
- BIO 2404 Lab Management

SEMESTER-IV
- BIO 3501 Artificial Intelligence
- BIO 3502 Endocrinology
- BIO 4803 Molecular Biology
- BIO 3604 Neurochemistry
- BIO 2306 Psychology

THIRD YEAR

SEMESTER-V
- BIO 2402 Bioinformatics
- BIO 2302 Biotechnology
- BIO 1102 Ecology and Population Biology
- BIO 3503 Genetics
- BIO 3503 Pharmacology-I

SEMESTER-VI
- BIO 4801 Bioethics
- BIO 3606 Advanced Biotechnology
- BIO 2403 Environmental Science
- BIO 2304 Nutrition and Dietetics
- BIO 3603 Pharmacology-II
- BIO 4xxx Elective-I

(Fresh Internship in Biological field mandatory)

FORTH YEAR

SEMESTER-VII
- 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

SEMESTER-VIII
- BIO 4802 Biophysics
- BIO 4701 Business Management
- BIO 4804 Research Report
- BIO 4704 Toxicology
- BIO 4xxx Elective-IV

ELECTIVES
- BIO 4721 Advance Biochemical Techniques
- BIO 4821 Food Chemistry
- BIO 4722 Medical Transcription
- BIO 4822 Nanotechnology
- BIO 4823 Stem Cell Research
- BIO 4724 Telemedicine
- BIO 4824 Tissue Culture Technology
- BIO 4723 Virology
LLB
The University of London International LLB Programme is an evening programme and can be completed in three years. Eventually the University of London UK will award the LLB degree. The degree granted has the same academic standard as a degree granted to a student studying at the University of London. The main syllabus and the course outlines have been 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 Business Studies honors 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 a grade C in three further subjects at GCSE or GCE 'O' Level.
Or
Passes in three subjects at GCE 'A' Level and at least a grade C 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 (one of which must be at least grade D or above).
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 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 to 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.

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 PROGRAMS

BA (Hons) BUSINESS STUDIES (BABS)

Admission Requirements

The candidate must have passed 3 A Levels / obtained 50% in the Intermediate/equivalent from a recognized institution to be eligible for the admissions into the BABS program.

Curricula

Upon completion of the following curriculum at SZABIST, students can proceed for Final Year to the University of Wales, Newport, and get their Bachelor’s Degree from the University of Wales.

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Semester 1 (Fall)</th>
<th>Semester 2 (Spring)</th>
<th>Semester 3 (Summer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA1204 Maths for Business</td>
<td>BA1206 Oral Communication and Presentation Skills</td>
<td>BA2301 Introduction to Business Finance</td>
</tr>
<tr>
<td>BA1105 English Writing Skills</td>
<td>BA3604 Computer Programming for Managers</td>
<td>BA2302 Graphic Design in Multimedia Presentations</td>
</tr>
<tr>
<td>BA1101 Introduction to Accounting</td>
<td>BA1201 Financial Accounting</td>
<td>BA2404 Calculus</td>
</tr>
<tr>
<td>BA1104 Personal Management</td>
<td>BA1202 Macroeconomics</td>
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</tr>
<tr>
<td>BA1103 Introduction to Computers</td>
<td>BA2305 Statistics and Mathematics for Business</td>
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<tr>
<td>BA1102 Microeconomics</td>
<td>BA1203 Management Principles</td>
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**SECOND YEAR**

<table>
<thead>
<tr>
<th>Semester 4 (Fall)</th>
<th>Semester 5 (Spring)</th>
<th>Third year at The University of Wales, Newport</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA3504 Organizational Behavior</td>
<td>BA3505 Quantitative Skills</td>
<td>Customer Service Excellence</td>
</tr>
<tr>
<td>BA2303 Marketing Principles</td>
<td>BA3602 Marketing Management</td>
<td>Strategic Management</td>
</tr>
<tr>
<td>BA2304 Managerial Accounting</td>
<td>BA3601 Financial Management</td>
<td>Law for Managers</td>
</tr>
<tr>
<td>BA2403 Business Ethics</td>
<td>BA4721 Advertising</td>
<td>European Business Environment</td>
</tr>
<tr>
<td>BA2306 Social Sciences</td>
<td>BA4801 Law and Taxation</td>
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<tr>
<td>BA3605 Statistical Inference</td>
<td>BA4704 Management Information Systems</td>
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</table>

Customer Service Excellence
Strategic Management
Law for Managers
European Business Environment
## FALL 2012

<table>
<thead>
<tr>
<th>WEEK</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>1</td>
<td>Week to Register for Courses</td>
</tr>
<tr>
<td>2</td>
<td>IS Thesis Advisor Meeting</td>
</tr>
<tr>
<td>3</td>
<td>Teaching Evaluation</td>
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<tr>
<td>4</td>
<td>Teaching Evaluation</td>
</tr>
<tr>
<td>5</td>
<td>Mid Term Exam for Undergraduate Students</td>
</tr>
<tr>
<td>6</td>
<td>Mid Term Exam for Graduate Students</td>
</tr>
<tr>
<td>7</td>
<td>Last Week to Withdraw from Courses</td>
</tr>
<tr>
<td>8</td>
<td>Final Exams</td>
</tr>
<tr>
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<td>Aug 04, 2012</td>
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<td>Dec 08, 2012</td>
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### Classes commencing dates:

- **Karachi Campus**: August 6, 2012
- **Hyderabad Campus**: August 6, 2012
- **Larkana Campus**: September 5, 2012
### Spring 2013

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Classes commencing dates:

- Karachi Campus: January 7, 2013
- Hyderabad Campus: January 7, 2013
- Larkana Campus: January 15, 2013

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 any programs 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
Discover Yourself

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