



SZABIST

**Shaheed Zulfikar Ali Bhutto
Institute of Science & Technology**
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KARACHI CAMPUS

Discover
Yourself

2014 PROSPECTUS



Hyderabad Campus



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Larkana Campus

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We Just Don't Work Hard
We Work Smart



SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY

THE VISION

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

THE MISSION

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

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ACADEMIC CALENDAR 2014-15

Fall 2014
Spring 2015

SHAHEED ZULFIKAR ALI BHUTTO



January 5, 1928 - April 4, 1979
Former Prime Minister of Pakistan

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

Address at the Inauguration Ceremony of Karachi Nuclear Power Plant, Karachi, Pakistan, on November 28, 1972.

SHAHEED MOHTARMA BENAZIR BHUTTO



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.”

Reconciliation: Islam, Democracy and the West, 2008.

CHANCELLOR'S MESSAGE



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

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

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

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

Dr. Azra Fazal Pechuho
Chancellor SZABIST

PRESIDENT'S MESSAGE



It gives me immense pleasure in welcoming prospective students to Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST). Over the past many years SZABIST has made remarkable progress in increasing its market reputation both nationally and internationally. This is evident from the increased enrollment in its five campuses (Karachi, Larkana, Hyderabad, Islamabad, and Dubai (UAE) and the expansion in its academic programs.

SZABIST guided by the vision of its Founding Chancellor, Shaheed Mohtarma Benazir Bhutto, has developed into a leading higher education institution, offering a range of courses from Biosciences and Mechatronic to Law and Media. SZABIST also provides hi-tech scientific and technological assistance to different industries of Pakistan. The Institute, in compliance with the Higher Education Commission (HEC), has developed curricula which not only relate to prevailing market challenges but also train students for the future demands of Pakistan's growing economy.

SZABIST maintains a high standard of education. We give priority to highly qualified faculty and professionals who provide a conducive and supportive teaching environment. In addition to a wide spectrum of disciplines as presented in this Prospectus, SZABIST offers exciting opportunities for co-curricular activities. Student societies of SZABIST organize guest speaker sessions, arrange workshops, and build networks with the Alumni and renowned companies for assistance in job placements.

Moreover, SZABIST has one of the highest ranking QECs of Pakistan. Quality assurance measures are rigorously applied at the university. The department of Institutional Research/Quality Enhancement Cell at SZABIST has implemented a number of quality measures that have enhanced the standard of education and research.

For the youth of Pakistan aspiring for a high quality, relevant education, SZABIST offers a premium learning environment. SZABIST is a perfect platform where students discover their talents and strengths, and overcome weaknesses to achieve their educational, professional, and personal aspirations. This prospectus provides you with comprehensive information about our programs. We hope you will become part of the SZABIST community of students and graduates.

Ms. Shahnaz Wazir Ali
Acting President, SZABIST

VICE PRESIDENT'S MESSAGE



Choosing the right university for admission in undergraduate and graduate studies leading to MS and PhD is a very crucial decision in the life of every student, for their future depends on the choice they make. Wrong decisions can have negative consequences which students realize later on in life when they find themselves lacking the education and skills required in today's competitive globalized market.

SZABIST, while keeping in mind the standards of quality education and market requirements, prepares students for a leading role in the market at strategic and operational levels by paying special attention to their grooming as corporate and social leaders. It is this unwavering commitment of 18 years that has made SZABIST a top-notch institution of the country. SZABISTians are picked by reputed multinational and national companies, and today they are working at high positions in different government departments, NGOs, and industrial sectors.

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

As we are living in a digitally connected global village, SZABIST strives to imbibe amongst students the characteristics and values of global culture, with the view that if students go abroad for higher studies, they can easily get absorbed in the host country's culture. In this connection, SZABIST feels proud of its 18 student societies which give students global exposure to different issues being faced by different communities. Our students come from all walks of life and even different parts of the world, and they are encouraged to achieve their full potential in an environment of dignity and mutual respect. Thus, from SZABIST's portal have graduated thousands of students well equipped with sound professional education, well-rounded personalities, and a strong work ethic.

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

Prof. Dr. Amanat Ali Jalbani

Vice President (Academics)
SZABIST

INTRODUCTION

Shaheed Zulfiqar 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 the Higher Education Commission (HEC), Pakistan, as a degree awarding institution.

SZABIST is known as one of the reputed and highest ranked by the HEC and Chartered Inspection and Evaluation Committee (CIEC). It comprises of five campuses, four diploma centers, three intermediate colleges, and one research center. Over 5,700 degrees have been awarded by SZABIST to date.

SZABIST has campuses in Karachi, Islamabad, Hyderabad, Larkana, and Dubai (UAE). SZABIST is a registered member of the International Association of Universities (IAU), Paris; Association of Commonwealth Universities (ACU), London; Association of Advance Collegiate Schools of Business (AACSB), Singapore; Federation of the Universities of Islamic World (FUIW), Rabat; Asia University Federation (AUF), Seoul; Asia-Pacific Quality Network, People's Republic of China; Management Association of Pakistan, Karachi; Marketing Association of Pakistan, Karachi, and Human Resource Development Network, Islamabad.

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

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

SZABIST Karachi Campus is located in one of the most prestigious localities of Karachi at 90, 100, 108 154, and 172 Clifton. In January 1996, the first academic session commenced at the Karachi Campus in the Faculties of Management Sciences and Computer Science. Construction is currently being planned at Clifton for building a purpose-built campus for Management, Computer Science, Social Sciences and Media Sciences Departments. Moreover, a permanent engineering campus on 300 acre at the Education City in Malir, about 20 km from the Karachi Toll Plaza and 36 km east of Karachi Airport, and a Medical and Agricultural Complex at the 5000 acre campus at Ghara (about 30 km away from the Education City), are in planning phase.

Graduate education in the 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, is offered at SZABIST's main campuses. More courses would be offered following the completion of construction project.

INTRODUCTION

Electrical Engineering

Solid State Solar, Telecommunication, Power, and Aerospace.

Biochemical Engineering

Agrochemical, and Pharmaceutical.

Biogenetic Engineering

Plant Genetics, and Animal Genetics.

Liberal Art

Health Sciences

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 by the Institute.



PROGRAMS & CURRICULA

DEGREES OFFERED

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

BBA

SZABIST offers a four-year (eight semesters) BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses and a 6-credit Research Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing, Finance or IT. To obtain the BBA degree, students have to complete 144 credit hours and an internship. The maximum time limit to complete the BBA degree is seven years. Those who complete the BBA degree from SZABIST will get an exemption in ACCA papers F1, F2, F3 and F4. The program is accredited by National Business Education Accreditation Council (NBEAC).

BS (Computer Science)

SZABIST offers a four-year (eight semesters) BS Computer Science degree program which is accredited by NCEAC (National Computing Education & Accreditation Council). The program covers a wide range of courses in core computer science, information technology and software engineering. The program is essentially a day program and consists of 40 courses (five courses per semester) with a total of 130 credit hours. The complete course plan includes 7 technical electives and 2 university electives. These 7 technical electives provide focused learning in different areas of computer science and related disciplines. Internship and comprehensive examination are essential to complete as a part of degree requirement. The maximum time limit to complete the BS degree is 7 years.

BE (Mechatronic Engineering)

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

BS (Social Sciences)

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

BS (Media Sciences)

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

EMBA

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

PROGRAMS & CURRICULA

MBA (Masters in Business Administration)

MBA program has been designed to impart quality professional knowledge and understanding of modern management tools, leadership and entrepreneurial skills, and managerial and communication competencies. The program is accredited by National Business Education Accreditation Council (NBEAC).

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

MBA

(36 credit hours program)

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

MBA

(72 credit hours program)

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

MBA

(90 credit hours program)

This program is developed for students having a 2-3 year undergraduate degree. The duration of the program is 3 to 3.5 years. Twenty eight courses (84 credits) and a Thesis/Research Project (6 credits) are required to complete the program. Students are also required to undertake a 6-week

internship along with passing the SZABIST comprehensive exam.

MBA Banking & Finance

(36 credit hours program)

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

MBA Banking & Finance

(72 credit hours program)

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

MPM (Master in Project Management)

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

Master of Advertising

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

Master of Television Production

The Department of Media Sciences at SZABIST offers an evening Master's degree program in Television Production. The program offers students

PROGRAMS & CURRICULA

specialized training in the writing, directing, acting, and production of fictional form of television. To be awarded a Master of TV Production degree, students need to complete a total of 36 credit hours which includes 10 courses and a 6-credit project. All students must complete their degree within 5 years.

MS (Management Sciences)

SZABIST offers MS degree in the specialized areas of Management, Human Resource Management, Marketing, Finance, and Supply Chain Management. The MS program is an evening program and all classes are held during week days. The program consists of six courses (18 credit hours), two independent studies (6 credit hours), and one research thesis (6 credit hours) with a total of 30 credit hours. Students may also opt for two courses in lieu of research thesis. The maximum time limit to complete the MS degree is 5 years from the date of admission and the minimum time to complete is 1½ years. As per HEC guidelines all MS Students are required to clear GRE or GAT General Test.

MS (Computer Science)

SZABIST offers MS (CS) degree in three domains: in Core Computer Science area, and in two specialization tracks, i.e., in Software Engineering (SE) and in Networks and Security (N&S). Students have to complete 3 focused courses in any specific domain.

The program is of 2-year duration and is offered in the evening. It requires 33 credit hours to complete, which consists of 9 courses (27 credit hours) and Thesis/Research Work (6 credit hours). Although students are encouraged to undertake Thesis/Research Work, but they can take two courses in lieu of the Thesis/Research Work in specific domains.

Candidates with a 4-year BS (CS) or equivalent degree or 2-year MCS degree are eligible to apply. The candidates with a 4-year professional degree (BE, MSc etc.) may also apply, but will require to complete deficiency conversion courses (upto 18 credit hours) during the semesters. For candidates having a 3-year BCS degree, the MS CS Program is a 3-year program. One year is for defi-

ciency conversion courses (30 credit hours)

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

MS (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 scholarly research and teaching roles. To be awarded an MS in Media Studies, students need to complete a total of 36 credit hours which include 10 courses and 6 credits of a research project or thesis. Students must also pass GAT (General) with a minimum 50% score. All students must complete their degree within 5 years.

MS (Social Sciences)

SZABIST offers MS degree in Social Sciences with majors in Psychology, Sindh Studies, Sociology, International Relations, Political Science, Economics, Media Studies, Education, Public Administration, NGO Management, Gender Studies, Philosophy, Law, Human Rights, and Public Policy.

The MS in Social Sciences is an evening program only and consists of 8/10 courses and/or a Thesis / Independent Studies of 30 credit hours. The maximum time limit to complete the MS degree is 5 years.

PhD

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

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

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

PROGRAMS & CURRICULA

In Computer Science, specializations include Database Management Systems, Management Information Systems, Data Warehousing, Data Mining, Networking & Communication, Business Intelligence, Process Modeling, Telecommunication, Mobile Communication, Mobile Computing, Technology Management, Artificial Intelligence, Software Engineering, Agent Systems, Speech Recognition, Multimedia Systems, HCI, E-Business, Mechatronic, Machine Vision, Image Processing and any other area which falls in the purview of computer sciences/computing.

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

All applicants will be required to appear in entrance test and group discussion/interview at SZABIST.

BACHELORS

NOTE:

- *General paper (A levels) will not be counted.*
- *Equivalency from Inter Board Committee of Chairmen (IBCC)/Higher Education Commission of Pakistan (HEC), if applicable.*

BBA/BS Programs

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

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

BS Biosciences

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

BE Mechatronic

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

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

A-Level Grade	Equivalent HSC Intermediate %
A	85
B	75
C	65
D	55
E	45

Candidates with DAE (Mechanical or Electronics) having at least 60% aggregate marks from an institute recognized by the Government can also apply.

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

Please note that no exception in this regard is allowed.

MASTERS

EMBA

For admission in the EMBA program, the candidate must possess a Bachelors degree with minimum 50% marks/CGPA of 2.5 from a university recognized by the Higher Education Commission (HEC) in any field of study with 4 years of Managerial level work experience.

Candidates with a minimum GMAT Score of 600, secured in the last 2 years are exempted from the admission test.

MBA Program

36 credit-hour program

For admission in 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-hour program

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

90 credit-hour program

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

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 rec-

ADMISSION REQUIREMENTS

ognized by the HEC will be eligible to apply for admission. Students with a 4-year BBA degree will be exempted from first year and will be given a direct entry in second year.

MPM (Master in Project Management)

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

Master of Advertising

Students with a 4-year undergraduate degree or 16 years of equivalent education in a related field of study with minimum 55% marks/CGPA 2.5 from a university recognized by the HEC are eligible to apply. Students with a 4-year undergraduate degree in business with a focus on marketing are also eligible.

Master of TV Production

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

MS

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

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

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

DOCTORAL DEGREE

A candidate with MA/MS/MBA/M.Phil (with minimum 5.5 years of formal university education in the relevant field) from an HEC recognized

university may apply for direct admission into the PhD program.

Candidates with minimum 17.5 years of relevant degree from an HEC recognized university with minimum 60% marks/CGPA 3.00 are eligible to apply for admission in the PhD program. For acceptance into the PhD program, the applicant must pass the admission test and interview with the SZABIST Graduate Committee. The candidate must also pass GAT (subject) with 60% score.

Those who have done 6 credits Thesis individually in their masters programs are eligible to apply for admission in PhD program otherwise they will have to complete the deficiency courses. The final decision is with the Admissions Committee/Doctoral Committee.

For non-relevant degrees, the candidate will be required to register for additional courses as prerequisites as per the guidance provided by the Doctoral Committee.

PhD Degree Requirements:

For completion of the PhD degree, the student must complete a total of 48 credit hours.

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

Major advisor can be changed by doctoral committee at any time if requested by the student on justified grounds.

PhD Degree Process

Qualifying Examination
Coursework (18 credit hours; 6 courses). Course work includes two Independent Studies (ISs)
Comprehensive Examination
Dissertation of 30 credit hours
Final Progress Seminar
At least 1 publication in an HEC approved journal
Dissertation Defense (Open Seminar)

Advanced Research Methods and Techniques (ARMT), Quantitative Tools for Research (QTR)

ADMISSION REQUIREMENTS

and Research Philosophy for Management Sciences, ARMT for Social Sciences, ARMT & Econometrics for Economics students, and RM for Computer Science students are compulsory courses.

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

For candidates with an MS degree (minimum 5 years) from an HEC-recognized university (with a minimum of 4 SZABIST equivalent courses), a minimum of 18 credit hours of course work as mentioned above must be completed before registration for Dissertation.

PhD Qualifying Examination

All PhD students must pass the PhD Qualifying Examination within first year of their PhD studies. Maximum attempts of research proposal are two. Approval for extension in time can be given by the Graduate Committee. The first registration in Dissertation will be for 6 credits in which the student will work on his/her PhD Research Proposal. These 6 credits will be counted/included in 30 credit hours of dissertation. PhD research proposal must be presented for suggestions and feedback before the Doctoral Committee.

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 or 12 credit hours in regular semesters (Spring or Fall) and 3 credit hours for Summer semester. Registration in first proposal (6 credit hours) is not allowed in Summer semester. Passing comprehensive exam is a prerequisite for registering in PhD Qualifying Examination.

The dissertation may normally be completed within minimum 2 years after the completion of course work and ISs. Approval for extension in time can be given by the Graduate Committee.

Publication Requirements

All PhD candidates are required to write at least one paper from their dissertation and submit it for publication in a refereed journal recognized by the HEC. This paper must at least be provisionally accepted by the journal before the presentation of the final seminar. It is normally expected that the 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 candidate will be asked to present a Final Progress Seminar before the Doctoral Committee and an external evaluator in an open seminar 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 for final evaluation.

Final Defense

The PhD dissertation draft will be sent to two External Examiners (in technologically advanced countries), to be selected by the Doctoral Committee, for evaluation. After the approval of the PhD Dissertation by the External Examiners, the candidate will be asked to appear for his/her PhD Final Defense by making a formal presentation of the Dissertation to the Doctoral Committee in an open seminar.

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

TEST ALTERNATES

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

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

ADMISSION REQUIREMENTS

TRANSFER POLICIES

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

Bachelor Course Transfer

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

MBA Course Transfer

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

MPM Course Transfer

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

EMBA (SZABIST) Course Transfer

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

MS Course Transfer

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

PhD Course Transfer

Transfer of courses up to 6 credit hours from an HEC 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 from other SZABIST campuses, the candidate must fulfill the admission requirements of the local campus she/he wishes to transfer to, as per applicable transfer policy.

All courses/grades are transferable. A transfer fee will be payable 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 eligible and deserving students. For instance:

- SZABIST Need-Based Scholarships
- SZABIST Merit-Based Scholarships
- Sindh Endowment Fund Scholarships
- Balochistan Endowment Fund Scholarships
- Khyber Pakhtunkhwa Chief Minister's Endowment Fund
- Pak-USAID Merit and Need-Based Scholarships
- National ICT R&D Fund Scholarships
- Ihsan Trust's Qarz-e-Hasna Facility
- Various community scholarships

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

Financial assistance is also available to qualified PhD candidates in the form of teaching assistantship, associateship, and adjunct faculty positions.

All requests for financial assistance must be made after admission.

LIFE AT SZABIST

FACILITIES

Video Conferencing

SZABIST is the first educational institute in Pakistan that introduced multi-way interactive Video Conferencing (VC) technology in 2001. SZABIST regularly uses VC technology in interactive learning sessions between Dubai, Islamabad, Larkana, Hyderabad and Karachi Campuses, as well as in conducting seminars/lectures/presentations with foreign universities. Video Conferencing has been the most effective mode at SZABIST in bringing in live and interactive guest lecturers 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.

Conferences/Forums/Seminars/Guest Lectures

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

Business Productivity Courses

The Institute also offers several productivity-oriented certificate courses as part of its continuing education program. The courses are developed jointly by the faculty, specialists and certified trainers in specific subject areas. The aim of these courses has been to initiate discussion and modeling of practical problems, new business opportunities or improve understanding of current issues in Information Technology, Business and Management. These courses include topics such as e-Commerce, New Program-

ming Languages & Tools, Business & Entrepreneurship Management, Selling Skills, Conflict Resolution, Effective Leadership, and Productivity, Quality-Related Issues, Brand Management and Digital Marketing.

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 Business 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, thanks to the limited number of candidates selected purely on merit. Instructors encourage participation instead of a monologue. Students utilize various visual aids for presentations and are always on alert because of the regular unannounced quizzes, assignments and the mid-term exams. 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.

SZABIST computer laboratories are equipped with high-end computers to cater to students' requirements. "Campus licensing" of latest software, including development tools, and OSs provide an unmatched environment compared to majority of well-reputed universities of Pakistan.

SZABIST has computing facilities supported with full 24x7 broadband connectivity of 38 Mbps Committed bandwidth to the internet and intranet. SZABIST is Wi-Fi enabled since 2002. Students with 802.11x capable devices (such as laptops, iPads, Cellphones, etc.) can access all network resources wirelessly.

SZABIST library is subscribed to a number of digital

LIFE AT SZABIST

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

EXECUTIVE DEVELOPMENT CENTER

The Executive Development Center (EDC) at SZABIST, Karachi, facilitates students in completing their degree requirements, professional development, and job/internship placements.

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 world.

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.

EDC engages with the Alumni for relationship building, corporate networking and profile update. Its latest initiative is the launch of SZABIST Alumni Global Association (SAGA).

Job & Internship Placements

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

An annual 'Career Fair' is held at the campus in which leading companies are invited to discuss their recruitment policies and procedures, their current resource requirements and future vacancies, and

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 environment, internships expose them to potential employers for possible recruitment.

Eligibility for Internship

- Masters Degree students with at least two semesters completed at SZABIST.
- Bachelors degree students with at least six semesters completed at SZABIST.
- Minimum duration of internship is six weeks.

Preference is given to those students who are about to graduate and need an internship as a requisite for their degree completion.

Life on Campus

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

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

- | | |
|------------------|---|
| ACM: | Association of Computing Machinery (SZABIST Karachi, ACM Chapter) |
| AIIESEC: | Student Exchange Program Facilitation |
| ASME: | American Society of Mechanical Engineers |
| CURTAINS: | Performing Arts Society |
| IAS: | Islamic Awareness Society |
| IEEE-SSB: | Institute of Electrical and Electronics Engineers-SZABIST |

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	Student Branch
KSCLC:	Karachi SZABIST Campus Lions Club
RCoSKM:	Rotaract Club of SZABIST Karachi Midcity
SAS:	SZABIST Adventure Society
SES:	SZABIST Entrepreneurial Society
SLC:	SZABIST Literary Club
SLS:	SZABIST Law Society
SMS:	SZABIST Marketing Society
SSS:	SZABIST Sports Society
SSSS:	SZABIST Social Sciences Society
SBS:	SZABIST Biosciences Society
YS:	Young Senators
ZABMUN:	SZABIST Model United Nations

Newsletters

SZABIST publishes “**SZAB'nings**” from Karachi, “**ZABNEWS**” from Larkana and Islamabad and “**INSIGHT**” from Dubai. All previous issues of these publications and information on ongoing activities and events are available on the SZABIST's 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 (FUIW), Rabat
5. Asia University Federation (AUF), Seoul
6. Asia-Pacific Quality Network (APQN), People's Republic of China
7. Management Association of Pakistan (MAP), Karachi
8. Marketing Association of Pakistan (MAP), Karachi
9. Human Resource Development Network (HRDN), Islamabad

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

1. Alliance Francaise, Karachi

The MoU with AF confirms the partnership between SZABIST and Alliance Francaise, Karachi in organizing the SZABIST Annual Media Festival 2014.

2. British Council and Scottish Documentary Institute

The MoU facilitates collaboration between SZABIST and BCSDI on a documentary film project that will entail screening of a selection of films from the ‘Stories’ project of Scottish Documentary Institute (SDI) and a talk about SDI's work by Professor Noemie Mendell.

3. US Department of State's Bureau of Educational and Cultural Affairs

Under the MoU, the US Department of State's Bureau of Educational and Cultural Affairs and University of Southern California's (USC) School of Cinematic Arts will conduct two-day workshop at SZABIST Karachi campus for the students of Media Sciences Department.

4. National ICT R&D Fund

According to this partnership, eligible and deserving students enrolled in ICT-related programs will be provided scholarship covering 100% tuition fee and stipend for lodging, books, transportation, and food.

5. Ihsan Trust

The MoU with Ihsan Trust is aimed at provision of Qarz-e-Hasna (Interest-free Loan) facility up to 50% of tuition fee to SZABIST students.

6. FM 100 (Capital FM, Pvt. Limited, Media Group), Islamabad

The MoU is aimed at exploring cooperation between SZABIST and FM 100 in radio projects and capacity building initiatives, and networking and linkages events on diversified subjects.

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7. Nur Center for Research & Policy, Lahore

The MoU facilitates collaboration for internships, trainings, research and consultancy projects, and organizing policy advisory forums across Pakistan and in the Middle East and South Asian region.

8. ARK Consulting Group, Islamabad

Under the collaborative agreement, SZABIST and ARK will jointly conduct series of professional workshops and diploma programs.

9. Pakistan Television (PTV) Corporation, Islamabad

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

10. American Abroad Media (AAM)

According to the partnership, SZABIST students will be involved in the studio taping of the four Afghanistan-Pakistan town hall series.

11. Organization of Pakistani Entrepreneurs of North America (OPEN)

The MoU pertains to jointly establishing a student chapter of OPEN at SZABIST, namely 'OPEN SZABIST Karachi Student Chapter' to promote the spirit of entrepreneurship among Pakistani youth through personality assessment, seminars, workshops, individual mentoring sessions by qualified professionals, and other related activities.

12. Rotary Club, Islamabad, (Pakistan-Afghanistan), Rotary International

The MoU is aimed at exploring and strengthening collaboration in research projects and capacity building initiatives on diverse subjects of common interest.

13. Human Resource Development Network (HRDN), Islamabad

The MoU with HRDN is aimed at exploring and strengthening collaboration in research projects and capacity building initiatives, networking and linkages on diverse subjects of common interest.

14. Ozair Hanafi School of Learning (OHSOL)

Under the MoU, SZABIST and OHSOL would collaborate to strengthen the culture and spirit of entrepreneurship in the country and among the students.

15. Universal Academic Management Organization (UAMO), UAE

Under the collaborative agreement, UAMO will offer credited and non-credited academic and training programs at SZABIST Dubai campus.

16. UN Global Compact Pakistan Local Network Project

The MoU pertains to the development of three case studies on the best socially responsible practices in the country.

17. George Mason University (GMU)

The MoU confirms SZABIST's participation with GMU's School of Public Policy for providing higher education solution services to the United States Agency for International Development (USAID) and its units.

18. Peritus, Islamabad

The MoU promotes cooperation between SZABIST and Peritus in research projects and capacity building activities on diversified subjects.

19. KalSoft Pvt. Ltd., Pakistan

The MoU facilitates joint research, workshops and seminars, and sharing of knowledge and expertise.

20. AGEHI Resource Centre SACHET, Pakistan

The MoU facilitates joint research, dialogue among scholars, faculty exchange, joint diploma or certificate courses, and various capacity building activities.

21. The International Committee of the Red Cross (ICRC)

The MoU pertains to ICRC's financial contribution to SZABIST Law Society's International Humanitarian Law Moot Court.

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22. EMC Computer Systems Austria GmbH

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

23. Australian Institute of Entrepreneurship (AIE)

The MoU allows AIE and SZABIST to work on enriching vocational education in Pakistan with innovative and dynamic entrepreneurship programs.

24. The University of South Wales

Under the agreement, University of South 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.

25. State University of New York at Buffalo (SUNYAB)

The 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.

26. Asia Academy of Film & Television (AAFT), Noida, India

The MoU pertains to the development of programs in media arts and sciences including joint seminars, skill development programs, and student, staff, and faculty exchange.

27. The Philippines Women's University (PWU), Manila

The MoU is aimed at promoting the educational, social and economic well-being of students and faculty through joint seminars, exchanges, and visits.



FACULTY OF MANAGEMENT SCIENCES



FACULTY OF MANAGEMENT SCIENCES

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

THE PROGRAM AND FACULTY

Every effort has been made to design an academic program at SZABIST which conforms to standards of internationally recognized universities and caters to the needs of businesses and industry.

FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST offers a four year BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses and a 6-credit Research Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing, Finance or IT. To obtain the BBA degree, the students have to complete 144 credit hours and an internship. The degree needs to be completed within seven years. Those who complete the BBA degree from SZABIST will get an exemption in ACCA papers F1, F2, F3 and F4.

First Year

Fall Semester

- BA 1101 Introduction to Accounting
- BA 1102 Microeconomics
- 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 1211 Logic and Critical Thinking

Second Year

Fall Semester

- BA 2301 Introduction to Business Finance
- BA 2303 Marketing Principles
- BA 2307 Sociology
- BA 2311 Business Statistics
- BA 2312 Human Behavior
- 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 3501 Financial Markets and Institutions
- BA 3508 Media Management
- BA 3605 Statistical Inference
- BA 4706 Development Economics
- BA 4801 Law and Taxation
- BA xxxx Optional-I (as offered by Campus)

Spring Semester

- BA 3601 Financial Management
- BA 3602 Marketing Management
- BA 3607 Operations Management
- BA 3603 Business Research Methods
- BA 4804 Human Resource Management
- BA xxxx Optional-II (as offered by Campus)

Fourth Year

Fall Semester

- BA 3505 Quantitative Skills
- BA 4704 Management Information Systems
- BA 4705 Services Marketing
- BA 4814 Project Management
- BA 4xxx Elective-I
- BA 4xxx Elective-II

Spring Semester

- BA 3502 Entrepreneurship
- BA 3609 Pakistan Economy
- BA 4807 Research Project
- BA 4xxx Elective-III
- BA 4xxx Elective-IV

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when required. Full-time academic load is 6 courses. All students are required to register for

FACULTY OF MANAGEMENT SCIENCES

full load in the first semester.

INTERNSHIP

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

Optional Courses (To be offered by the campus as Compulsory courses)

BA 3519 Current Affairs
BA 3506 Foreign Languages
BA 3619 Enterprise Management
BA 3614 Business Analysis and Forecasting*
BA 4707 Marketing Research*
BA 4701 Islamic Banking and Finance*
BA 4842 Graphic Design for Multimedia*

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

Elective Courses

Management

BA 4116 Supply Chain Management
BA 4117 Salary and Compensation
BA 4711 Change Management
BA 4712 Industrial Relations and Labor Laws
BA 4713 Leadership and Motivation Techniques
BA 4813 Training and Development
BA 4815 Event Management
BA 4826 Talent Management
BA 4812 Recruitment and Selection
BA 4844 Operations Research

Marketing

BA 4707 Marketing Research*
BA 4116 Supply Chain Management
BA 4217 Experiential Marketing
BA 4721 Advertising
BA 4722 Brand Management
BA 4815 Event Management
BA 4816 Industrial Marketing
BA 4824 Sales Management

BA 4842 Graphic Design for Multimedia*
BA 4739 Export Marketing
BA 4125 Emerging Media
BA 4821 Media Planning
BA 4859 Product Innovation and Design

Finance

BA 4218 Financial Research
BA 4719 Investment Banking
BA 4732 Corporate Finance
BA 4734 International Banking
BA 4831 Portfolio and Investment Management
BA 4833 Security Analysis
BA 4834 Treasury and Funds Management
BA 4855 Financial Risk Analysis
BA 4752 Financial Reporting and Analysis
BA 4756 Econometrics
BA 4115 Derivatives
BA 4724 Financial Modeling
BA 4701 Islamic Banking and Finance*
BA 3614 Business Analysis and Forecasting*

Information Technology

BA 4224 e-Marketing Strategies
BA 4714 e-Business and e-Commerce Management
BA 4745 Information System Audit
BA 4822 Media Production
BA 4842 Graphic Design for Multimedia*
BA 4844 Operations Research



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EXECUTIVE MBA

The EMBA is a 2-year program spread over six semesters and consists of 66 credit hours of teaching. Twenty courses, 1 Business Project (3 credits) and 1 Research Project (3 credits) are needed to graduate. Maximum time limit to complete the EMBA degree is 5 years.

First Year

First Semester

- BE 492 Business Management
- BE 417 Accounting for Business
- BE 447 Managerial Communication

Second Semester

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

Third Semester

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

Second Year

Fourth Semester

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

Fifth Semester

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

Sixth Semester

- BE 445 Managerial Accounting and Control
- BE 449 Operations and Supply Chain Management

- BE 451 Business Application of IT
- BE 448 Research Project (3 credits)

ELECTIVES

Marketing

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

Finance

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

Human Resource Management

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

Supply Chain Management

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

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

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MBA PROGRAM

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

For students with a 4-years BBA degree, the duration of the MBA is 1.5-years. Ten 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 5xxx Elective-I
BA 5xxx Elective-II

Spring Semester

BA 5203 Strategic Marketing
BA 5208 Strategic Finance
BA 5xxx Elective-III
BA 5xxx Elective-IV

Second Year

Fall Semester

BA 5308 International Business
BA 5318 Organizational Development
and Analysis
BA 5319 Research Project (6 credits), or
BA 5xxx Thesis

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

MBA PROGRAM

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

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

First Year

Fall Semester

BA 5301 Financial Accounting
BA 5419 Business Management and Ethics
BA 5418 Managerial Communication
BA 5305 Statistics and Mathematics for
Business
BA 5404 Marketing Principles
BA 5401 Introduction to Business Finance

Spring Semester

BA 5106 Marketing Management
BA 5205 Human Resource Management
BA 5105 Financial Management
BA 5403 Management Information Systems
BA 5406 Entrepreneurship

BA 5408 Business Economics

Second Year

Fall Semester

BA 5206 Business Research Methods
BA 5104 Strategic Management
BA 5208 Strategic Finance
BA 5308 International Business
BA 5xxx Elective-I
BA 5xxx Elective-II

Spring Semester

BA 5203 Strategic Marketing
BA 5318 Organizational Development
and Analysis
BA 5xxx Elective-III

FACULTY OF MANAGEMENT SCIENCES

BA 5xxx Elective-IV
BA 5319 Research Project (6 credits), or
BA 5xxx Thesis

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

MBA PROGRAM

(90 credit hours program for students with a 2 to 3-year undergraduate degree)

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

First Year

Fall Semester

BA 5317 English Writing Skills
BA 5306 Computer Orientation and Packages
BA 5301 Financial Accounting
BA 5419 Business Management and Ethics
BA 5311 Personal Management

Spring Semester

BA 5408 Business Economics
BA 5404 Marketing Principles
BA 5418 Managerial Communication
BA 5305 Statistics and Mathematics for
Business
BA 5401 Introduction to Business Finance

Second Year

Fall Semester

BA 5403 Management Information Systems
BA 5207 Organizational Behavior
BA 5405 Statistical Inference
BA 5105 Financial Management
BA 5106 Marketing Management

Spring Semester

BA 5406 Entrepreneurship
BA 5205 Human Resource Management
BA 5411 Cost and Management Accounting
BA 5xxx Elective-I
BA 5xxx Elective-II

Third Year

Fall Semester

BA 5206 Business Research Methods
BA 5104 Strategic Management
BA 5208 Strategic Finance
BA 5308 International Business
BA 5xxx Elective-III

Spring Semester

BA 5203 Strategic Marketing
BA 5318 Organizational Development and
Analysis
BA 5xxx Elective-IV
BA 5319 Research Project (6 credits) or
BA 5xxx Thesis

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

MBA 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 5212 Petroleum Business Management and
Risk Analysis
BA 5213 Project Management
BA 5214 Supply Chain Management

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- 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
- BA 5184 Financial Product Regulations
- BA 5284 Theory and Practice of Lending
- BA 5279 Working Capital Management
- BA 5187 Business Analysis and Forecasting
- BA 5138 Econometrics

Marketing

- BA 5121 Advertising
- BA 5122 Brand Management
- BA 5123 Consumer Behavior
- BA 5124 Customer Relationship Management
- BA 5125 Ethics in Marketing
- BA 5126 Export Marketing
- BA 5127 Global Marketing
- BA 5129 Services Marketing
- BA 5221 Marketing Research
- BA 5223 Marketing of Financial Services

- BA 5224 Media Planning and Management
- BA 5225 Personal Selling
- BA 5226 Pharmaceutical Marketing
- BA 5227 Sales Management
- BA 5228 Retail Management
- BA 5241 e-Commerce
- BA 5169 Technology Management and Innovation
- BA 5163 Enterprise Resource Planning
- BA 5111 Business Process Re-engineering
- BA 5168 Business Intelligence
- BA 5268 Data Warehousing and Mining

Supply Chain Management

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

INTERNSHIP

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

COMPREHENSIVE EXAMINATION

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

Rules of Comprehensive Exam can be obtained separately from the Examination Department.

FACULTY OF MANAGEMENT SCIENCES

MBA Program (Banking & Finance)

MBA (36 credit hours program for student 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. Ten MBA courses (30 credits) and a Thesis/Research Project (6 credits) are needed to graduate. Students are also required to complete a 6-week internship. The maximum duration to complete this degree is 5 years.

First Year

Fall Semester

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

Spring Semester

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

Second Year

Fall Semester

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

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

MBA Program (Banking & Finance)

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

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

First Year

Fall Semester

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

Spring Semester

BA 5106 Marketing Management
BA 5104 Strategic Management

BA 5135 Financial Markets and Institutions
BA 5105 Financial Management
BA 5205 Human Resource Management
BA 5402 Macroeconomics

Second Year

Fall Semester

BA 5175 Banking Operations
BA 5273 Prudential Regulations
BA 5132 Analysis of Financial Statements
BA 5103 Advanced Research Methods
BA 5xxx Elective-I
BA 5xxx Elective-II

FACULTY OF MANAGEMENT SCIENCES

Spring Semester

- BA 5417 Advanced Credit Management
- BA 5139 Financial Risk Analysis
- BA 5235 Treasury and Funds Management
- BA 5219 Research Project (3 credits)
- BA 5xxx Elective-III
- BA 5xxx Elective-IV

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

Elective Courses

- BA 5xxx Asset Management
- BA 5xxx Banking Crisis and Management
- BA 5xxx Behavioral Finance
- BA 5xxx Capital Markets
- BA 5xxx Commercial Banking
- BA 5xxx Corporate Investment and Banking
- BA 5xxx Corporate Restructuring and Design
- BA 5xxx Financial Intermediations
- BA 5xxx Financial Modeling
- BA 5xxx Financial Planning and Budgeting
- BA 5xxx Marketing of Financial Services
- BA 5xxx Financial Systems
- BA 5xxx Fixed Income Investments
- BA 5xxx Foreign Exchange Operations and Management
- BA 5xxx Banking Insurance
- BA 5xxx Islamic Banking and Finance
- BA 5xxx Information System Audit

- BA 5xxx International Trade and Finance
- BA 5xxx Leasing Strategies and Regulations
- BA 5xxx Mergers and Acquisitions in Banking
- BA 5xxx Options and Derivatives
- BA 5xxx Project Financing
- BA 5xxx Micro and SME Finance
- BA 5xxx Theory and Policy of Modern Finance
- BA 5xxx Venture Capital and Private Equity
- BA 5xxx Working Capital Management

INTERNSHIP

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

COMPREHENSIVE EXAMINATION

Students enrolled in the MBA 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 approaches. MPM is a 1-year evening program comprising 33 credit hours spread over three semesters. Eleven courses are required to graduate. The maximum time to complete the degree is 5 years.

First Year

Fall Semester

- PM 5102 Fundamentals of Project Management
- PM 5101 Financial Management for Project Management
- PM xxxx Elective-I
- PM 5310 SAP Training

Spring Semester

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

Summer Semester

- PM 5303 Project Monitoring, Evaluation and Control Management
- PM 5209 Project

Elective Courses

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

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



FACULTY OF MANAGEMENT SCIENCES

MS (Management Sciences)

The students are required to complete 6 courses, 2 Independent Studies (IS), and a thesis, with a total of 30 credit hours. The breakup of 30 credit hours is as follows:

- Three compulsory courses (9 credit hours)
- Two Independent Studies (6 credit hours)
- Three elective courses (9 credit hours)
- Thesis OR two elective courses (6 credit hours)

First Year

Fall Semester

MS 5239 Advanced Research Methods and Techniques
MS 5204 Quantitative Tools for Research
MS 5416 Research Philosophy
MS 5xxx Elective-I

Spring Semester

MS 5xxx Elective-II
MS 5xxx Elective-III
MS 5108 Independent Study-I
MS 5208 Independent Study-II

MS 5216 Corporate Governance
MS 5225 Leadership and Motivation Techniques
MS 5237 Business Finance and Decision Making
MS 5238 Strategic Human Resource Development
MS 5241 Public Administration and Governance
MS 5301 Seminars in Marketing
MS 5315 Research Writing

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 required.

Advanced Research Methods & Techniques (ARMT), Quantitative Tools for Research (QTR), and Research Philosophy are compulsory courses for MS program. Students cannot register in Independent Study (IS) without completion of these 03 compulsory courses. In addition passing comprehensive exam would also be required for taking thesis.

Maximum course load for a semester is 4 courses (12 credit hours). Summer is not a regular semester, therefore, courses are not offered on a regular basis in summer. However, students can register in one IS or thesis (3 credits only). Independent Studies taken in summer will be presented along with Fall semester in a conference. A student can take maximum two interdisciplinary elective courses in SS/CS/IT/Media/MBA program with the prior approval of their respective program managers.

Second Year

Fall Semester

MS 5xxx Elective-IV/Thesis
MS 5xxx Elective-V/Thesis

COMPULSORY COURSES

MS 5204 Quantitative Tools for Research
MS 5239 Advanced Research Methods and Techniques
MS 5416 Research Philosophy

ELECTIVES

MS 5101 Change Management
MS 5102 Organizational Development
MS 5103 Managerial Economics
MS 5104 Strategic Marketing Decisions
MS 5105 Econometrics
MS 5112 Strategic Management
MS 5117 Qualitative Tools and Analysis
MS 5203 Global Corporate Strategy
MS 5205 International Business Management
MS 5215 Corporate Finance

FACULTY OF MANAGEMENT SCIENCES

PhD (Management Sciences)

For completion of PhD degree, students will have to complete a minimum of 54 credit hours. This includes 8 courses (24 credit hours) and one dissertation (30 credit hours). The course work consists of 3 compulsory courses, 3 electives, and 2 independent studies. Maximum course load for a semester is 3 courses (9 credit hours).

Quantitative Tools for Research (QTR), Advanced Research Methods & Techniques (ARMT) and Research Philosophy are pre-requisite courses for Independent Study (IS) and completion of all courses and ISs along with passing the comprehensive examination are pre-requisite for registering in dissertation.

First Year

Fall Semester

MS 6106 *Advanced Research Methods and Techniques
MS 6212 *Quantitative Tools for Research
MS 6214 Research Philosophy
MS 6xxx Elective-I

Spring Semester

MS 6xxx Elective-II
MS 6xxx Elective-III
MS 6xxx Independent Study-I
MS 6xxx Independent Study-II

Second Year

Fall Semester

MS 6xxx Dissertation (Proposal)

Spring Semester

MS 6xxx Dissertation

Third Year

Fall Semester

MS 6xxx Dissertation

Spring Semester

MS 6xxx Dissertation

COMPULSORY COURSES

MS 6212 Quantitative Tools for Research

MS 6106 Advanced Research Methods and Techniques

MS 6214 Research Philosophy

ELECTIVES

MS 6201 Change Management

MS 6211 Organizational Development

MS 6204 Strategic Marketing Decisions

MS 6202 Econometrics

MS 6105 Qualitative Tools and Analysis

MS 6314 Global Corporate Strategy

MS 6413 International Business Management

MS 6311 Corporate Governance

MS 6111 Business Finance and Decision Making

MS 6112 Strategic Human Resource Development

MS 6215 Seminars in Marketing

Elective courses in PhD program are co-offered with MS program. Summer is not a regular semester; however, students can register in only one IS or Dissertation of 3 credit hours.



* Those who completed compulsory courses in their MS degree earlier in SZABIST are required to take electives in place of compulsory courses.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS (Computer Science) program is offered by the Department of Computer Science which runs under the Faculty of Computing and Engineering Sciences. The department offers MS & PhD programs in Computer Science as well. The objective of the BS (Computer Science) program is to inculcate a broad-based basic education in Computer Science and its related areas such as Software Engineering, Information Technology and Telecommunications. 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 program involves analysis, development and implementation of mathematical algorithms to solve computational problems, understanding computer electronics, study of operating systems, languages, compilers, data communication and networks, solving complex computing problems, designing man-to-machine interfaces and so on.

SZABIST believes in conceptual learning. It has developed an organizational network of reputable multinational and national enterprises for collaboration in Computing. SZABIST runs its own software house which facilitates the students to meet the desired objectives and learning outcomes.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS COMPUTER SCIENCE

The program is offered through a well-trained foreign qualified faculty. It consists of 40 courses (five courses per semester) with a total of 130 credit hours. BS (CS) Program is accredited by NCEAC. The maximum time to complete the degree is 7 years.

COURSE PLAN (ROADMAP) FOR BS(CS) PROGRAM

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
First Year					
Fall Semester					
1	CSC 1101	Calculus and Analytical Geometry	3,0	3	
	CSC 1102	English Composition and Comprehension	3,0	3	
	CSC 1103	Fundamentals of Programming	3,1	4	
	CSC 1104	Introduction to Computing	2,1	3	
	CSC 1105	Islamiat and Pakistan Studies/Humanities	3,0	3	
Total Credit Hrs. 16					
Spring Semester					
2	CSC 1201	Discrete Mathematical Structures	3,0	3	
	CSC 1202	Multivariate Calculus	3,0	3	CSC 1101
	CSC 1203	Object Oriented Programming	2,1	3	CSC 1103
	CSC 1204	Physics	3,1	4	
	CSC 1205	Technical and Business Writing	3,0	3	
Total Credit Hrs.16					
Second Year					
Fall Semester					
3	CSC 2101	Communication and Presentation Skills	3,0	3	CSC 1102
	CSC 2102	Data Structures and Algorithms	3,1	4	
	CSC 2103	Digital Logic Design	3,1	4	
	CSC 2104	Linear Algebra & Differential Equations	4,0	4	
	CSC 2105	Statistics and Probability	3,0	3	CSC 1101
Total Credit Hrs. 18					
Spring Semester					
4	CSC 2201	Computer Organization and Assembly Language	3,0	3	CSC 2103
	CSC 2202	Data Communications and Computer Networks	3,1	4	
	CSC 2203	Database Systems	3,1	4	
	CSC 2204	Finite Automata Theory and Formal Languages	3,0	3	CSC 1201
	CSC 2205	Operating Systems	3,1	4	
Total Credit Hrs. 18					
Third Year					
Fall Semester					
5	CSC 3101	Computer Architecture	3,0	3	CSC 2103
	CSC 3102	Human Computer Interaction	3,0	3	
	CSC 3103	Introduction to Software Development	3,1	4	CSC 1203
	CSC 3104	Software Engineering-I	3,1	4	
	CSC 4xxx	University Elective-I	3,0	3	
Total Credit Hrs. 17					

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
Spring Semester					
6	CSC 3201	Compiler Construction	3,0	3	CSC 2204
	CSC 3202	Design & Analysis of Algorithms	3,0	3	CSC 2102
	CSC 3203	Numerical Computing	3,0	3	CSC 1101
	CSC 4xxx	CS Elective-I	3,0	3	
	CSC 4xxx	CS Elective-II	3,0	3	
Total Credit Hrs. 15					
Fourth Year					
Fall Semester					
7	CSC 4101	Artificial Intelligence	3,0	3	CSC 2102 CSC 2204
	CSC 4102	Professional Practices	3,0	3	
	CSC 4105	Final Year Project-I	0,3	3	CSC 3103
	CSC 4xxx	CS Elective-III	3,0	3	
	CSC 4xxx	CS Elective-IV	3,0	3	
Total Credit Hrs. 15					
8					
		Spring Semester			
	CSC 4205	Final Year Project-II	0,3	3	CSC 4105
	CSC 4xxx	CS Elective-V	3,0	3	
	CSC 4xxx	CS Elective-VI	3,0	3	
	CSC 4xxx	CS Elective-VII	3,0	3	
	CSC 4xxx	University Elective-II	3,0	3	
Total Credit Hrs. 15					



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

CS ELECTIVES

CSC 4701	Advanced Internet Architecture
CSC 4801	Advanced Programming Techniques
CSC 4702	Advanced Telecommunication Technologies
CSC 4802	Android Application Development
CSC 4703	Applied Data Mining
CSC 4803	Auditing Information Systems
CSC 4704	Bioinformatics
CSC 4804	Business Process Re-engineering
CSC 4705	Control Systems
CSC 4805	Data and Network Security
CSC 4706	Digital Image Processing
CSC 4806	Digital Signal Processing
CSC 4707	DNA Computing
CSC 4807	Embedded Programming
CSC 4708	Enterprise Resource Planning
CSC 4808	Ethical Hacking
CSC 4709	Internet Business Models
CSC 4809	iOS Development
CSC 4712	IT Innovations
CSC 4711	Linux Administrator-I
CSC 4811	Linux Administrator-II
CSC 4713	Managing Data-Center Projects
CSC 4812	Mechatronics
CSC 4813	Modeling and Simulation
CSC 4714	Network Security and Encryption
CSC 4715	Oracle Administration-I
CSC 4815	Software Engineering-II
CSC 4814	Software Project Management
CSC 4716	Switching and Routing
CSC 4816	Technopreneurship
CSC 4717	Web Technologies-I
CSC 4817	Web Technologies-II
CSC 4718	Wireless and Mobile Technologies

UNIVERSITY ELECTIVES

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

CSC 4501	Business and Technology Ethics
CSC 4601	Foreign Languages
CSC 4502	Design and Creativity
CSC 4602	History of Scientific Ideas

CSC 4503	Introduction to Accounting
CSC 4603	Management Principles
CSC 4504	Organizational Behavior
CSC 4604	Research Report
CSC 4505	Systems Administration

DISTRIBUTION OF CREDIT HOURS

Course Group		Cr. Hrs.	%
Computing	Core Courses	47	36%
	Supporting Areas	12	9%
	General Education	15	12%
Computer Science	Core Courses	18	14%
	Electives	21	16%
	Supporting Courses	11	8%
University Electives		6	5%
Total		130	100%

INTERNSHIP

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

COMPREHENSIVE EXAMINATION

The Comprehensive Examination must be passed by all BS candidates.



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

MS Computer Science

SZABIST offers MS (CS) degree in three domains: Core Computer Science area and in two specialization tracks, i.e., Software Engineering (SE) and Networks and Security (N&S), in order to cater to the market needs. Students have to complete 3 focused courses in any specific domain.

The program is of 2-year duration and is offered in the evening. It requires 33 credit hours to complete, which consists of 9 courses (27 credit hours) and Thesis/Research Project (6 credit hours). Although we emphasize and encourage students to undertake Thesis/Research Project, they can take two courses in lieu of the Thesis/Research Project in specific domains.

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

Master of Science in Computer Science (in Core Computer Science)

First Year

First Semester

CSC 5105 Research Methodology
CSC 5101 Advanced Algorithms Analysis
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5202 Advanced Computer Architecture
CSC 5xxx Elective-I (Independent Study-Topic
related to CS Streams-I or II)

Second Year

Third Semester

CSC 5xxx Thesis OR Course Work
(from CS-Stream-II)
CSC 5xxx Elective-II (from CS-Stream-I)
CSC 5xxx Elective-III (from CS-Stream-I)

Fourth Semester

CSC 5xxx Thesis OR Course Work
(from CS-Stream-II)
CSC 5xxx Elective-IV (from CS-Stream-I)

Master of Science in Computer Science with Specialization in Software Engineering

First Year

First Semester

CSC 5105 Research Methodology
CSC 5101 Advanced Algorithms Analysis
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5202 Advanced Computer Architecture
SEC 5xxx Elective-I (Independent Study-Topic
related to SE Streams I or II)

Second Year

Third Semester

CSC/SEC 5xxx Thesis OR Course Work
(from CS Stream-II or from
SE-Stream-II)

SEC 5xxx Elective-II (from SE-Stream-I)
SEC 5xxx Elective-III (from SE-Stream-I)

Fourth Semester

CSC/SEC 5xxx Thesis OR Course Work
(from CS Stream II or from
SE-Stream-II)
SEC 5xxx Elective-IV (from SE-Stream-I)

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Master of Science in Computer Science with Specialization in Networks & Security

First Year

First Semester

CSC 5105 Research Methodology
CSC 5101 Advanced Algorithms Analysis
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5202 Advanced Computer Architecture
NSC 5xxx Elective-I (Independent Study-Topic
related to N&S Streams-I or II)

Second Year

Third Semester

CSC/NSC 5xxx Thesis OR Course Work
(from CS Stream-II or from
N&S-Stream-II)
NSC 5xxx Elective-II (from N&S-Stream-I)
NSC 5xxx Elective-III (from N&S-Stream-I)

Fourth Semester

CSC/NSC 5xxx Thesis OR Course Work
(from CS Stream II or from
N&S-Stream-II)
NSC 5xxx Elective-IV (from N&S-Stream-I)

CS-Stream-I

CSC 5xxx Real-Time Systems
CSC 5xxx Digital Image Processing
CSC 5xxx Machine Learning
CSC 5xxx Data Mining

CS-Stream-II

CSC 5xxx Reverse Engineering
CSC 5xxx Digital Forensics & Malware Analysis
CSC 5xxx Advanced Resource Sharing
Architecture
CSC 5xxx Computer Vision
CSC 5xxx Robotics
CSC 5xxx Advanced Database Design
CSC 5xxx Distributed Computing

CSC 5xxx Systems and Network Programming

SE-Stream-I

SEC 5xxx Software Requirement Engineering
SEC 5xxx Software System Architecture
SEC 5xxx Software System Quality
SEC 5xxx Advanced Software Engineering

SE-Stream-II

SEC 5xxx Software Analysis & Testing
SEC 5xxx Web Engineering
SEC 5xxx Software Project Management

N&S-Stream-I

NSC 5xxx Advanced Computer Networks
NSC 5xxx Network Security
NSC 5xxx Applied Cryptography
NSC 5xxx Information Security

N&S-Stream-II

NSC 5xxx Telecom Policies and Regulations
NSC 5xxx Mobile Ad-hoc Networks
NSC 5xxx Advanced Data Communications

Pre-Requisites:

- For any advanced course, its basic course or pre-requisite course must have been done before.
- For each track, the following courses must have been done prior to admission:

MS(CS) (in Core Computer Science)

Artificial Intelligence
Finite Automata Theory
Digital Logic Design

MS(CS) with SE-Specialization

Artificial Intelligence
Finite Automata Theory
Digital Logic Design
Software Engineering-I

MS (CS) with N&S-Specialization

Data Comm. and Computer Networks
Finite Automata Theory
Digital Logic Design

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

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

COMPREHENSIVE EXAMINATION

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

PhD (Computing)

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

First Year

Fall Semester

CSC 6101 Research Methodology
CSC 6xxx Elective-I
CSC 6xxx Elective-II

Spring Semester

CSC 6xxx Independent Studies
CSC 6xxx Elective-III
CSC 6xxx Elective-IV

Second Year

Fall Semester

CSC 6xxx Dissertation

Spring Semester

CSC 6xxx Dissertation

Third Year

Fall Semester

CSC 6xxx Dissertation

Spring Semester

CSC 6xxx Dissertation

Elective courses are listed under the MS Computer Science program.

PhD course work credits may be implemented via selection of a particular mode of course execution

(as recommended by the respective Graduate Committee/Program Manager) from the various available approaches, including guided/taught courses, seminars, and independent research studies.



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Department of Mechatronic Engineering



Mechatronic Engineering

Mechatronics is a multidisciplinary field of engineering. It refers to the efficient and effective integration of mechanical systems and electronics. A mechatronic engineer unites the principles of mechanics, electronics and computing to generate a simpler, economical, reliable, and versatile system. Examples of mechatronic systems include aircraft, motor vehicles, automated manufacturing plants, robots of all types, medical and surgical devices and many others.

Mechatronic at SZABIST

The department offers a program that includes various engineering science courses from the relevant fields in addition to a strong foundation in basic sciences and mathematics. In order to ensure that this academic program at SZABIST conforms to standards of internationally recognized universities, the curriculum has been designed with the guidance of academics and professionals specializing in Mechatronics. The program has received 7 stars (Highest Ranking) by the Chartered of Inspection & Evaluation Committee, Sindh.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Program Objectives

The objectives of the program are to provide a broad and basic education in multiple disciplines comprised of Mechanical, Electronics, and Computer Engineering to ensure that students in the program are exposed to a wide spectrum of engineering knowledge and practice. Upon completion of their degree, the Bachelor of Engineering (Mechatronic) graduates will be able to:

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

BE (Mechatronic Engineering) Program

SZABIST offers a 4-year BE (Mechatronic Engineering) degree comprising eight semesters, BE (Mechatronic Engineering) is a day program and consists of 45 courses (five or six courses per semester) with a total of 140-credit hours (all electives and certain courses may be offered in the evening). The maximum time limit to complete the BE degree is 7 years. To be eligible for the degree, the students will have to complete required credit hours, internship, and pass the Comprehensive Examination.

First Year

Fall Semester

- ME 1101 Communication and Presentation Skills
- ME 1102 Electric Circuits
- ME 1107 Engineering Drawing and CAD
- ME 1104 Engineering Mathematics-I: Calculus and Analytical Geometry
- ME 1108 Introduction to Computer System and Programming
- ME 1203 Engineering Physics

Spring Semester

- ME 1201 Electronic Devices and Circuits
- ME 1202 Engineering Mathematics-II: Linear Algebra and Ordinary Differential Equations (ODEs)
- ME 1106 Islamic Studies
- ME 1204 Engineering Statics
- ME 2301 Computer Programming
- ME 1207 Engineering Workshop

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 2406 Strength of Materials
- ME 2405 Thermodynamics

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Third Year

Fall Semester

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

Spring Semester

- ME 3601 CAD/CAM
- ME 3602 Control Systems
- ME 3603 Engineering Mathematics-VI: Probability and Statistics
- ME 3604 Machine Design
- ME 3605 Power Electronics
- ME 1205 Technical Writing Skills

Fourth Year

Fall Semester

- ME 4xxx Elective-I (Engineering)
- ME 4702 Engineering Economics and Project Management
- ME 4802 Robotics
- ME 4704 Mechanical Vibrations
- ME 4705 Mechatronics System Design
- ME 4708 Final Year Project-I*

Spring Semester

- ME 4801 Industrial Automation
- ME 4xxx Elective-II (Engineering)
- ME 4xxx Elective-III (Management Sciences)
- ME 4703 Heat Transfer
- ME 4808 Final Year Project-II

Electives

Engineering Electives

- ME 4722 Digital Signal Processing
- ME 4723 Simulation and Modeling

- ME 4821 Digital Image Processing
- ME 4822 Introduction to Bio-Medical Engineering
- ME 4721 Artificial Intelligence and Computer Vision

Management Sciences Electives

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

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

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

INTERNSHIP

The internship is scheduled for summer at the end of the third year. After the completion of the 6-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.

Students can only appear for the Comprehensive Exam towards the end of their 7th or 8th semester.

*To be continued and graded at the conclusion of 8th Semester.



FACULTY OF SOCIAL SCIENCES



FACULTY OF SOCIAL SCIENCES

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

FACULTY OF SOCIAL SCIENCES

Department of Social Sciences

BS (Social Sciences)

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

First Year

Fall Semester

- SS 1117 Computer and Web Skills
- SS 1118 English for Academic Purposes and Presentation Skills
- SS 1109 Islamiat/Ethics and Pakistan Studies
- SS 1105 Microeconomics
- SS 1115 Community Services
- SS 1201 Introduction to Social Sciences

Spring Semester

- SS 2306 Psychology
- SS 1205 Macroeconomics
- SS 2307 Sociology
- SS 1155 Introduction to Political Science
- SS 2412 International Relations
- SS 1209 Social Policy

Second Year

Fall Semester

- SS 2314 Study of Anthropology
- SS 2313 Introduction to Social Psychology
- SS 4705 Sindh Studies
- SS 2318 Mathematics and Statistics
- SS 2413 Philosophy
- SS 1xxx Elective-I

Spring Semester

- SS 2406 Gender Studies
- SS 2418 Statistical Inferences
- SS 2414 Introduction to Organizational Psychology
- SS 2411 Environmental Studies
- SS 1255 Linguistics
- SS 1xxx Elective-II

Third Year

Fall Semester

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

Spring Semester

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

Fourth Year

Fall Semester

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

Spring Semester

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

ELECTIVES

- SS 1154 Literature
- SS 2305 Human Geography

FACULTY OF SOCIAL SCIENCES

SS 1157 Comparative Religion
SS 1254 World History
SS 1262 Mass Media
SS 1163 Development and Politics

MAJORS

PSYCHOLOGY

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

SOCIOLOGY

SS 4269 Civil Society
SS 4271 Peace Movements
SS 4138 Corporate Social Responsibility
SS 4141 Mass Media and Society
SS 4237 Post-Colonial State and Social Development
SS 4238 Social Entrepreneurship
SS 4239 Social Justice
SS 4241 Sociology of Education
SS 4242 The Sociology of Poverty
SS 4196 Social Theories-I
SS 4296 Social Theories-II
SS 4171 Class, Caste, and Ethnicity in South Asia
SS 4172 Political Sociology
SS 4272 Social Change in Pakistan
SS 4169 Citizenship
SS 4273 Urbanization

INTERNATIONAL RELATIONS

SS 4275 Foreign Policy and International Politics

SS 4274 Diplomacy, Conflict Resolution and Confidence Building Measures
SS 4219 Peace Research
SS 4222 Strategic Studies
SS 4176 Globalization and Global Governance
SS 4277 Modern Ideologies
SS 4174 Central and West Asian Studies
SS 4175 European Studies
SS 4177 Middle Eastern Studies
SS 4179 Politics of Terrorism
SS 4178 Muslim World
SS 4276 International Institutions
SS 4278 Political Geography
SS 4119 Arms Control and Disarmament
SS 4279 US and International Politics

ECONOMICS

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

SINDH STUDIES

SS 4188 Geography and Geology of Sindh
SS 4287 History and Politics of Sindh
SS 4288 Irrigation System of Sindh
SS 4185 Agriculture in Sindh
SS 4285 Archaeology of Sindh
SS 4186 Anthropology and Culture of Sindh
SS 4286 Art and Architecture in Sindh
SS 4187 Ethnomusicology of Sindh
SS 4289 Sindh's Economy and Commerce
SS 4292 Survey of Sindhi Literature
SS 4189 Philosophy of Sindh
SS 4192 Sindh's Sociology-I:

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	Education and Language Policy
SS 4193	Sindh's Sociology-II: Social Structures and Development
SS 4194	Sindh's Sociology-III: Health, Gender, and Feminism
SS 4293	The Sindhi Diaspora
SS 4291	Sindh's Geopolitical Exigencies
SS 4191	Sindh's Botanical and Zoological Heritage

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

when required.

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

INTERNSHIP

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

MS (Social Sciences)

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

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

First Year

Fall Semester

SS 5117	Advanced Research Methods and Techniques
SS 5207	Quantitative Tools for Decision Making
SS 5xxx	Elective-I
SS 5xxx	Elective-II

Spring Semester

SS 5116	Econometrics
SS 5108	Independent Study-I
SS 5xxx	Elective-III
SS 5xxx	Elective-IV

Summer Semester

SS 5208	Independent Study-II
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Second Year

Fall Semester

SS 5xxx	Thesis/2 additional courses instead of Thesis
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ELECTIVES

SS 5326	Research Philosophy
SS 5223	Financial Time Series
SS 5227	Research Writing
SS 5104	Politics of Geo-Economics
SS 5111	Democratization as a Global Process
SS 5212	NGO Management
SS 5214	Public Policy Management
SS 5305	Political Economy of Pakistan
SS 5306	Sacred and Secular
SS 5311	Environmental Studies
SS 5312	Globalization and Developing Countries
SS 5313	Intellectual Property Rights and Laws
SS 5322	Topics of Political Economy
SS 5226	Issues in Pakistan's Political and Constitutional History
SS 5321	History of Ideas
SS 5313	Intellectual Property Rights and Laws
SS 5228	Corporate Governance
SS 5206	Political Economy in the Global Perspective
SS 5402	Law and Human Rights

*ARMT for Social Sciences, and ARMT & QTR for Economics major students.

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PhD (Social Sciences)

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

- *1-2 Compulsory Courses (3-6 credit hours)
- 2-3 Core/Elective (6-9 credit hours)
- 2 Independent Studies (6 credit hours)
- 1 Thesis (30 credit hours)

First Year

Fall Semester

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

Spring Semester

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

Summer Semester

- SS 6x09 Dissertation

Second Year

Fall Semester

- SS 6x09 Dissertation

Spring Semester

- SS 6x09 Dissertation

ELECTIVES

- SS 5104 Politics of Geo-Economics
SS 5111 Democratization as a Global Process
SS 5212 NGO Management
SS 5214 Public Policy Management
SS 5305 Political Economy of Pakistan
SS 5306 Sacred and Secular
SS 5311 Environmental Studies
SS 5312 Globalization and Developing Countries
SS 5313 Intellectual Property Rights and Laws
SS 5228 Corporate Governance
SS 5206 Political Economy in the Global Perspective
SS 5402 Law and Human Rights

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

*ARMT for Social Sciences, and ARMT & QTR for Economics students are compulsory.



FACULTY OF SOCIAL SCIENCES

FACULTY OF SOCIAL SCIENCES

Department of Media Sciences

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

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, digital technologies, and the performing arts. We recognize that studying media requires interdisciplinary thinking. Therefore, by bridging of theory and practice and using an interdisciplinary approach we give our students the skills, knowledge, and flexibility that the increasingly competitive international and national market demands.

The Department of Media Sciences at SZABIST offers the following undergraduate and graduate degree programs:

- Bachelor of Media Science (Film & TV Production, Advertising Strategy & Design, and Journalism)
- Master of Advertising
- Master of Television Production
- MS Media Studies

Bachelor of Media Sciences

The Department of Media Sciences at SZABIST offers a comprehensive 4-year Bachelor of Media Science degree with majors in Film and Television Production, Advertising Strategy & Design, and Journalism. To earn an undergraduate degree, students must enroll in and successfully complete a total of 135 credit hours, which includes 43 courses, a 6-credit thesis, and internships. Forty-three courses include: 33 core courses, 7 major requirements in Film and Television Production, Advertising Strategy & Design, or Journalism, and 3 open electives. All students must complete their degree within 7 years.

First Year

Fall Semester

MD 1107 Drawing and Perspective
MD 1102 English Writing Skills
MD 1116 Civilization Studies-I
MD 2322 Visual Communications
MD 3601 Art of Music
MD 1115 Introduction to Media Industries

Spring Semester

MD 1104 Culture, Media, and Society
MD 1106 Photography
MD 1119 Play Analysis

MD 1216 Civilization Studies-II
MD 2323 Production Practices-I
MD 2402 Islamiat and Pakistan
Studies/Humanities

Second Year

Fall Semester

MD 1211 Basic Design
MD 2325 Media Research
MD 1217 Introduction to Sound
MD 2321 History and Aesthetics of Film
MD 2313 Idea Development
MD 2423 Theater Project

FACULTY OF SOCIAL SCIENCES

Spring Semester

MD 1118 Topics in Asian Literature
MD 2318 History of Commercial Art
MD 2427 Design Practices-I
MD 3523 Production Practices-II
MD 3505 Principles of Journalism
MD 2425 Audiovisual Editing

Third Year

Fall Semester

MD 1213 Creative Writing
MD 3518 Animation and Motion Graphics
MD 3527 Design Practices-II
MD 3511 Radio Channel Project-I
MD 2424 Media Psychology
MD 4714 Producing Short Narratives

Spring Semester

MD 2405 Media Laws and Ethics
MD 4xxx Major-I
MD 4xxx Major-II
MD 4xxx Major-III
MD 4xxx Major-IV
MD 4xxx Elective-I

Fourth Year

Fall Semester

MD 4701 State and Nation Building in Pakistan
MD 4xxx Major-V
MD 4xxx Major-VI
MD 4xxx Major-VII
MD 4xxx Elective-II

Spring Semester

MD 4807 Thesis-I
MD 3506 Theories of Visual Culture
MD 4xxx Elective-III

Summer Semester

MD 4808 Thesis-II

MAJORS

Film & Television Production

MD 4765 Basic Lighting

MD 4726 Directing-I

MD 4825 Screenwriting

MD 4821 Cinematography

MD 4764 Production Design

MD 4724 Documentary Vision

MD 4868 Production Practices-III

Advertising Strategy & Design

MD 4739 Advertising Design and Concept

MD 4847 Copywriting

MD 4736 Integrated Marketing Communication

MD 4846 New Media Advertising

MD 4837 Media Planning

MD 4782 Interaction Design

MD 4755 Brand Identity Management

Journalism

MD 4839 Reporting the News

MD 4759 Editing, Subediting, and Design

MD 4757 Feature Writing-I

MD 4864 Investigative Journalism and
Crisis Reporting

MD 4879 Multimedia Journalism

MD 4783 TV Journalism

MD 4859 Introduction to Photojournalism

ELECTIVES

MD 4862 Advanced Studio Project-I

MD 4786 Directing for Actors

MD 4867 Topics in Film and Television

MD 4886 Game Design

MD 4732 Typography

MD 4854 Illustration

MD 4877 The International Newsroom

MD 4882 Audio Podcasting

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

Students enrolled full time are required to take at least 5 courses each semester. Students unable to enroll full time should consult the Head of Depart-

FACULTY OF SOCIAL SCIENCES

ment and the Program Manager to discuss any accommodation they might need. All first semester students are required to register for 6 courses.

INTERNSHIP

The Department of Media Sciences requires all students to complete a 6-week internship at an organization of their choice by the end of their third

year. Upon completion of the internship, students must submit a comprehensive summary of what they learned following their internship.

All students are also required to work within the department to organize department's annual media festival in the third year of their degree.

Master of Advertising

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

First Year

Fall Semester

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

Spring Semester

MD 5261 Advertising Research
MD 5262 Brand Management
MD 5263 Consumer Behavior

MD 5264 Copywriting and Advertising
Conceptualization

Summer Semester

MD 5351 Campaign Strategy
MD 5352 New Media Advertising

Second Year

Fall Semester

MD 5349 Research Project

Master of TV Production

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

First Year

Fall Semester

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

Spring Semester

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

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Summer Semester

MD 5341 Production Design

MD 5xxx Project-I

Second Year

Fall Semester

MD 5xxx Elective-II

MD 5xxx Project-II

MS Media Studies

The Department of Media Sciences at SZABIST offers a 2-year evening MS degree program in Media Studies designed to prepare students for scholarly research and teaching roles. To be awarded an MS in Media Studies, students need to complete a total of 36 credit hours, which includes 10 courses and 6 credits of research or thesis. All students must complete their degree within five years.

Students who successfully complete their MS degree may apply for the PhD program in the Department of Social Sciences. Students accepted into the PhD program will need to complete a doctoral dissertation within three years of enrollment and to fulfill all requirements, including necessary course work 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 undergraduate degree in a related field of study are eligible to apply. Students with a 4-year undergraduate degree in Business with a focus on marketing are also eligible.

First Year

Fall Semester

MD 5102 Media and Contemporary Culture

MD 5207 Media Evolution and Innovation

MD 5104 Research Methodology

Spring Semester

MD 5106 Media Policy

MD 5212 Theories of Visual Culture

MD 5112 Media and Post-Colonialism

Second Year

Fall Semester

MD 5103 Media Management

MD 5201 Communication for Social Change

MD5xxx Elective-I

Spring Semester

MD 5xxx Elective-II

MD 5109 Thesis-I

Summer Semester

MD 5209 Thesis-II

ELECTIVES

MD 5xxx Media, Politics, and Governance

MD 5xxx Issues in International Media

MD 5xxx Theories of Communication Design

MD 5xxx Visual Cultures of Pakistan

MD 5xxx National Cinemas

MD 5xxx Genres in Television

MD 5xxx Theories of Film and Television

MD 5xxx Urban Geographies and

Visual Cultures

MD 5xxx Media, Art, and Technology



FACULTY OF BIOSCIENCES



FACULTY OF BIOSCIENCES

SZABIST's BS Biosciences program is designed to give students a sound and broad academic base for a professional and rewarding career in biological fields. It blends theoretical and practical knowledge, critical thinking and real life experience to equip students with marketable skills. This degree offers students the opportunity to study a broad range of disciplines in biological sciences.

THE PROGRAM & FACULTY

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

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

FACULTY OF BIOSCIENCES

Lab Facilities

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

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

Job Placement Possibilities

- Food Industry
- Biochemical Industry
- Biotechnology Companies
- Health sector-Clinics/Hospital
- Pharmaceutical Industry
- Bioinformatics Software Houses
- Research Centers
- Academia

BS Biosciences

The program is in line with the criteria set by the Higher Education Commission of Pakistan. BS Biosciences at SZABIST is a 4-year program of 8 semesters. Graduation requirements are 135 credit hours, an internship of at least 6 weeks and a research project with in 7 years.

First Year

Fall Semester

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

Spring Semester

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

Spring Semester

BIO 2406 Genetic Engineering
BIO 3502 Endocrinology
BIO 4803 Molecular Biology
BIO 3604 Neurochemistry
BIO 2306 Psychology

Third Year

Fall Semester

BIO 2402 Bioinformatics
BIO 2302 Biotechnology
BIO 3506 Animal Cell and Tissue Culture
BIO 3503 Genetics
BIO 3505 Pharmacology-I

Spring Semester

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

Second Year

Fall Semester

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

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Fourth Year

Fall Semester

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

Spring Semester

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

ELECTIVES

Molecular Biology:

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

Biotechnology:

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



INTERNATIONAL PROGRAMS



INTERNATIONAL PROGRAMS

LLB

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

BA (Hons) BUSINESS STUDIES (BABS)

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

INTERNATIONAL PROGRAMS

LLB

Entrance Requirements

To be eligible to register for the LLB, a student must normally be at least 17 years of age at the time of registration and have passes in:

- Either two subjects at GCE A level, and at least three further subjects at GCSE or GCE O level (at not less than grade C)

Or

Three subjects at GCE A level (with one A Level at not less than grade D)

Or

Three subjects at GCE A level, and one further subject at GCSE or GCE O Level (at not less than grade C)

Or

Two subjects at GCE A Level, and two further subjects at AS Level.

- Bachelors degree (in any discipline) awarded by an institution acceptable to the University of London.
- A 4-year bachelor degree (in any discipline) awarded by an institution acceptable to University of London may register for LLB degree under the Graduate Entry Route. Students who register via this route are only required to complete 9 courses (instead of 12) for the LLB degree.

Tests of proficiency in English (provided this has been awarded within the past 3 years)

- International General Certificate of Secondary Education (IGCSE): English as a Second Language passed at grade C or above.
- International English Language Testing

System (IELTS) when an overall score of at least 6 is achieved with a minimum of 5.5 in each sub-test.

- (TOEFL) iBT Test of English as a Foreign Language with an overall score of 87 or above with at least 21 in both Reading and Writing Skills sub-tests and at least 19 in both Speaking and Listening sub-tests.

CURRICULUM

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



INTERNATIONAL PROGRAMS

First Year

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

Second Year/Third Year

Law of Trusts
Law of Tort
Land Law
Jurisprudence and Legal Theory
Law skills portfolio (pathway 1 or pathway 2)
EU Law

Plus any three subjects from:

Introduction to Islamic Law
Company Law
Law of Evidence
Intellectual Property
Administrative Law
Public International Law



INTERNATIONAL PROGRAMS

BA (Hons) Business Studies (BABS)

Admission Requirements

The candidate must have completed A Level (minimum 3 passes)/ Intermediate (minimum 50% marks) or equivalent from a recognized institution.

Curricula

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

First Semester

Fall

- BA 1101 Introduction to Accounting
- BA 1102 Microeconomics
- BA 1103 Introduction to Computers
- BA 1104 Personal Management
- BA 1105 English Writing Skills
- BA 1204 Maths for Business

Second Semester

Spring

- BA 1201 Financial Accounting
- BA 1202 Macroeconomics
- BA 1203 Management Principles
- BA 1206 Oral Communication and Presentation Skills
- BA 2305 Statistics and Mathematics for Business
- BA 3604 Computer Programming for Managers

Third Semester

Summer

- BA 2301 Introduction to Business Finance
- BA 2302 Graphic Design in Multimedia Presentations
- BA 2404 Calculus

Fourth Semester

Fall

- BA 2303 Marketing Principles
- BA 2304 Managerial Accounting
- BA 2306 Social Sciences
- BA 2403 Business Ethics
- BA 3504 Organizational Behavior
- BA 3605 Statistical Inference

Fifth Semester

Spring

- BA 3505 Quantitative Skills
- BA 3601 Financial Management
- BA 3602 Marketing Management
- BA 4704 Management Information Systems
- BA 4721 Advertising
- BA 4801 Law and Taxation

Third year at the University of South Wales

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



ACADEMIC CALENDAR 2014-15 (Karachi Campus)

ACADEMIC CALENDAR 2014-15 (Karachi Campus)

FALL 2014

WEEK	COMMENTS
1	Registration for Courses
2	IS Thesis Advisors Meeting
3	
4	
5	Teaching Evaluation
6	Teaching Evaluation
7	Mid-Term Exam for Undergraduate Students
8	Mid-Term Exam for Graduate Students
9	
10	
11	Last Week to Withdraw from Courses
12	
14	
15	
16	Final Exams
17	
Aug 16, 2014	All Faculty Meeting
Aug 20, 2014	IS Thesis Advisors Meeting
Dec 13, 2014	Independent Study Presentations for MS/PhD students/ 4 th International Research Conference
Dec 27, 2014	Comprehensive Exam

Classes commencing dates

Karachi Campus _____ August 12, 2014
Hyderabad Campus _____ August 18, 2014
Larkana Campus _____ September 8, 2014

ACADEMIC CALENDAR 2014-15 (Karachi Campus)

ACADEMIC CALENDAR 2014-15 (Karachi Campus)

SPRING 2015

WEEK	COMMENTS
1	Registration for Courses
2	
3	
4	
5	Teaching Evaluation
6	Teaching Evaluation
7	Mid-Term Exam for Undergraduate Students
8	Mid-Term Exam for Graduate Students
9	
10	
11	Last Week to Withdraw from Courses
12	
13	
14	
15	
16	Final Exams
17	
Jan 10, 2015	All Faculty Meeting
May 9, 2015	Independent Study Presentations for MS/PhD students/ 21 st National Research Conference
May 30, 2015	Comprehensive Exam

Classes commencing dates

Karachi Campus _____ January 5, 2015
 Hyderabad Campus _____ January 12, 2015
 Larkana Campus _____ January 12, 2015

PROGRAMS OFFERING (FALL 2014) AT SZABIST

PROGRAMS OFFERING (FALL 2014) AT SZABIST

PROGRAMS	CAMPUS				
	Karachi	Islamabad	Larkana	Hyderabad	Dubai
Bachelor of Business Administration (BBA)	✓	✓	✓	✓	✓
BA (Hons) in Business Studies (BABS)	✓				
BS (Accounting & Finance)		✓			
BS (Computer Science)	✓	✓	✓	✓	✓
BS (Mobile & Ubiquitous Computing)		✓			
BS (Media Sciences)	✓				✓
BS (Media and Communication Studies)		✓			
BS (Social Sciences)	✓	✓			
BE (Mechatronic Engineering)	✓				
BS (Bio Sciences)	✓				
Bachelor of (LAW)	✓				
Master in Business Administration (MBA)	✓	✓	✓	✓	✓
Executive MBA	✓	✓	✓	✓	✓
Professional MBA		✓			
MBA (Banking & Finance)	✓				
MS (Computer Science)	✓	✓			
MS (CS) with specialization in Software Engineering	✓	✓			
MS (CS) with specialization in Network & Security	✓	✓			
MS (Computing)					✓
MS (Media Sciences)	✓				✓
MS (Management Sciences)	✓	✓			
MS (Developmental Studies)		✓			
MS (Social Sciences)	✓	✓			
Master in Project Management	✓	✓			✓
Master in Human Resource Management		✓			
Master of Advertising	✓				
Master of Television Production	✓				
PhD in Computer Science	✓	✓			
PhD in Social Sciences	✓				
PhD in Management Sciences	✓	✓			

Disclaimer

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

We Just Don't Work Hard
We Work Smart



SZABIST

Discover
Yourself



Karachi Campus



Hyderabad Campus



Islamabad Campus



Dubai Campus



Larkana Campus

SZABIST Karachi Campus

90 and 100 Clifton, Karachi 75600

Phone: (92-21) 111-922-478. Email: info@szabist.edu.pk

www.szabist.edu.pk. www.facebook.com/szabistofficial

SZABIST Islamabad Campus

Street # 09, Plot # 67 Sector H-8/4,

Islamabad, Pakistan

Phone: 051-4863363-65

Fax: 051-4863367

SZABIST Larkana Campus

Sachal Colony, Larkana, Sindh, Pakistan

Phone : (92-74) 4053400-3

Fax: (92-74) 4044760

Email: info@lrk.szabist.edu.pk

SZABIST Hyderabad

Ground & 4th Floor, State Life Building,

Thandi Sarak, Hyderabad

Phone # 022-2782441-3

Fax # 022-2782444

Email: info@hyd.szabist.edu.pk

SZABIST Dubai Campus

Block 10, Level 6,

Dubai International Academic City, Dubai, U.A.E

Phone: +971 4 3664601

Fax: +971 4 3664607

Email: info@szabist.ac.ae, www.szabist.ac.ae