Shaheed Zulfikar Ali Bhutto
Institute of Science & Technology
www.szabist.edu.pk

SZABIST

Discover
Yourself

PROSPECTUS
2015
Karachi 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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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, 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), Pakistan. SZABIST, living up to its mission of providing opportunity for tertiary education and research to the youth in different areas of Pakistan, has five dedicated 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. SZABIST also offers numerous scholarships and financial assistance, to make education accessible and affordable for all its students.

Higher education will play a pivotal 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 to welcome 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 campus-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 demand but also prepare students with the knowledge and skills for the future needs 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 Quality Enhancement Cells (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 and ultimately the global network of SZABIST alumni.

Shahnaz Wazir Ali
Acting President
SZABIST

VICE PRESIDENT ADMINISTRATION & FINANCE MESSAGE

A warm welcome is extended to all the potential students of Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST). At SZABIST, we believe in education that helps our students build innovative thoughts and teaches them the value of hard work and diligence. Prospectus 2015 is a testament that today SZABIST has developed into a strong multidisciplinary institution with campuses in Karachi, Hyderabad, Larkana, Islamabad and Dubai.

With the vision of Shaheed Zulfikar Ali Bhutto brought in reality by his daughter Shaheed Mohtarma Benazir Bhutto, and under the guidance of our Chancellor Madam Azra Fazal Pechuho, SZABIST has evolved into a world class institute globally recognized for its excellence in education, research, and in producing highly qualified scientific and technical graduates.

To support the robust academic and research curricula, state-of-the-art facilities and an environment conducive to learning and development is offered to our students.

Our Administration and Academic wings are enthusiastically preparing and looking forward to journeying with you in what will be an exciting period. We are confident that you will enjoy excellence in the respectful and caring environment of our institute.

I hope Prospectus 2015 will serve as a useful guide in planning out your academic tenure at SZABIST.

With best wishes

Nasreen Haque
Vice President (Administration & Finance)
SZABIST

DIRECTOR ACADEMIC'S MESSAGE

SZABIST is the right choice for all those aspiring to be the best in their chosen field of study. We, at SZABIST, are committed to maintain high standards of teaching and research by providing our students with the latest cutting-edge knowledge, applicable to and fully cognizant of not only local contexts but a fast changing, digitalized global world. Becoming a SZABISTIAN is a testament of the ability and diligence of our student body. Our selection process is rigorous and only those at the top of their class can find a place here.

We offer a wide range of undergraduate and postgraduate programs across the disciplines of Management Sciences, Computer Sciences, Mechatronic Engineering, Social Sciences, Media Sciences, Education and Leadership Management, and Biosciences. In addition, we also have two external programs in affiliation with the University of London, and University of South Wales (UK). With more than 7000 graduates and five campuses, we have our presence across Karachi, Islamabad, Larkana, Hyderabad, and Dubai.

SZABIST has been ranked as one of the top educational institutions of the country by Higher Education Commission (HEC) and Charter Inspection and Evaluation Committee (CIEC), offering programs that are accredited by National Business Education Accreditation Council (NBEAC), National Computing Education Accreditation Council (NCEAC), and Pakistan Engineering Council (PEC). Our highly qualified and experienced faculty is dedicated to enrich the academic experience of our graduates by providing them with a warm and supportive environment for learning, while advising them in terms of their future careers. We are highly appreciative of the diversity of our student body and emphasize upon the values of tolerance and acceptance of difference.

SZABIST is proud of its graduates who are in high demand in the industry. Our alumni are placed in the top management across national and international organizations, making a strong contribution to the development of Pakistan.

Dr. Tayyaba Tamim
Director Academics
SZABIST

Discover
Yourself

INTRODUCTION

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) is a highly ranked, fully chartered institute of Pakistan, established through a Legislative Act of Sindh Assembly (Sindh Act No. XI of 1995). It is approved and recognized by the Higher Education Commission (HEC), Pakistan, as a degree awarding institution. All the programs offered at SZABIST, are consistent with the guidelines provided by the HEC and other regulatory bodies, for example, National Business Education Accreditation Council (NBEAC), National Computing Education Accreditation Council (NCEAC), and Pakistan Engineering Council (PEC).

It has five campuses: Karachi, Hyderabad, Larkana, Islamabad and Dubai, with a current student population of over 7000. SZABIST has proudly awarded degrees to over 10,000 talented graduates. Our alumni are sought after by national and multinational organizations and hold key positions in several reputable firms at national and international level.

SZABIST offers undergraduate, graduate and postgraduate degrees in seven different disciplines: Management Sciences, Computer Sciences, Media Sciences, Social Sciences, Education, Mechatronic Engineering and Biosciences. In addition, SZABIST offers two external programs in affiliation with international universities in UK. It offers LLB with the University of London, UK and BA (Hons.) in Business Studies (BABS) with University of South Wales, UK. These programs are at the cutting edge of the latest knowledge in the field, with emphasis on scientific research and intellectual rigour.

In order to further diversify SZABIST portfolio, from Fall 2015, we plan to offer an MS in Educational Leadership and Management, and a PhD in Educational Leadership and Management. SZABIST is also collaborating with the British Council to strengthen the English language support for its students. Computer-based blended learning is an important aspect of this English Language Program. This program is being made flexible and sensitive to the needs of the students for optimum benefit to the learners.

SZABIST is listed as one of the most reputed and highest ranked universities by HEC and Chartered Inspection and Evaluation Committee (CIEC). SZABIST Business School has been rated as "Outstanding" by the Chartered Inspection and Evaluation Committee (CIEC), HEC, Pakistan. In addition, its different programs are accredited by NBEAC; NCEAC and PEC. Furthermore, the programs offered at Dubai Campus are recognized by Knowledge Human and Development Authority (KHDA), Dubai, United Arab Emirates (UAE). The SZABIST-QEC has been ranked in "W" category (the highest category), consecutively, in the last four assessments by Quality Assurance Agency (QAA), HEC, Pakistan.

SZABIST also has the distinction of being ranked among the best business schools, and among the top Science and Technology institutes in Asia by the CNN-Time and 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 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 (APQN), People's Republic of China; Management Association of Pakistan (MAP), Karachi; Marketing Association of Pakistan, Karachi; and Human Resource Development Network, Islamabad.

INTRODUCTION

The institute has signed MoUs with various reputable and distinguished organizations and institutions, such as, University of London, UK; Universal Academic Management Organization (UAMO), UAE; EMC Computer Systems, Austria; Philippines Women University, Philippines; and the Asia Academy of Film and Television, India.

SZABIST Karachi Campus is situated in the prime location of Clifton (Block 5-units 58, 90, l00, 154, and 172) in Karachi. This means easy access and a safe environment. Plans are underway for the construction of a vast purpose-built campus for Management, Computer Science, Social Sciences and Media Sciences, and Bio Sciences departments. Moreover, the construction of a permanent engineering campus spread over 300 acres 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 over 5000 acres at Gharo (about 30 km away from the Education City), are also in the planning phase. SZABIST is proud to offer an education par excellence in the fields that are crucial for Pakistan's socioeconomic development.

PROGRAMS & CURRICULA

DEGREES OFFERED

All degrees are not offered at all campuses. Check with the local campus for offered degrees or last page of the prospectus.

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 National Computing Education & Accreditation Council, (NCEAC). 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 intensive learning in the diversified areas of computer science and allied disciplines. Internship opportunities are provided which is essential to complete as a part of degree requirement. The maximum time limit to complete the BS degree is seven years.

BE Mechatronic Engineering

SZABIST offers a four-year (eight semesters) BE (Mechatronic Engineering) degree program, which is accredited by PEC (Pakistan Engineering Council). This program has also received 7-Stars by Chartered Inspection & Evaluation Committee (CIEC) Sindh. SZABIST is the only University which offers this program at undergraduate level in the province of Sindh. The program is essentially a day program and consists of 45 courses with a total of 140 credit hours (all electives and certain courses may be offered in the evening). The program is supported through well-equipped state-of-the-art laboratories. Internship opportunities are provided which is essential as a part of degree requirement. The maximum time limit to complete the BE degree is seven years.

BS Social Sciences

SZABIST offers a four-year (eight semesters) BS Social Sciences degree with majors in Psychology, 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.

Bachelor of Media Science

The Department of Media Sciences at SZABIST offers a comprehensive four-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 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 138 credit hours of teaching, 45 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 specifically 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, symposia 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.

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-hour 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 Business Research Project (6 credits) OR Academic Research Project (6 credits). Students are also required to complete a 6-week internship to fulfill their degree requirements.

MBA
(72 credit-hour 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) and Business Research Project (6 credits) OR Academic 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
(90 credit-hour 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 Business Research Project (6 credits) OR Academic 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-hour 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), a Business Research Project (6 credits) OR an Academic 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-hour 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-two courses (66 credits) and a Business Research Project (6 credits) OR an Academic 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.

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 in Public Health (MPH)

MPH at SZABIST is a two-year program spread over four semesters and consists of 60 credit hours of teaching. The curriculum includes 22 courses, 16 of 3 credit hours, 3 of 2 credit hours, and a research project (Thesis) of 6 credit hours. The maximum time limit to complete the MPH degree is 5 years.

MS Project Management

SZABIST offers MS in Project Management (MSPM) program equivalent to MPhil. The purpose of this program is to provide research-based project management education, related to a student's field of interest. By providing the requisite skills and knowledge, the program lays the foundation for students planning to

pursue doctoral studies. 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 MSPM 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 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 (three complete semesters excluding summer semester). As per HEC guidelines all MS students are required to clear GRE or GAT General Test with minimum 50% score.

MS Computer Science

SZABIST offers MS (CS) degree in three domains: In Core Computer Science area and in two specialization tracks, i.e., Software Engineering (SE) and Networks and Security (N&S). Students are required 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 consist of 9 courses (27 credit hours) and Thesis/Research Project (6 credit hours). Although students are encouraged to undertake Thesis/Research Project, but they also have an option to take two courses in lieu of the Thesis/Research Project in specific domains.

Eligibility to this program is a 4-year BS (CS) or 2-year MCS degree from a recognized institution. 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). The candidates with a 3-year BCS degree shall require to complete one-year deficiency conversion courses (upto 30 credit hours). The can-

didates shall have to submit GRE (General)/GAT (General) score of minimum 50%. 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 30 credit hours which include 8 courses and 6 credits of 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.

MS Educational Leadership and Management

The MS in Educational Leadership and Management is a 1.5 year program spread over three semesters. It is a 30 credit hour program with 6 courses, 2 Independent Research Studies (3 credit hours each) and a Thesis (6 credit hours).

The students will have the opportunity to specialize in the fields of: Sociology of Education, Educational Policy, Testing/Evaluation, Teacher Education, Professional Development, and Technology.

MS Biosciences

MS Biosciences at SZABIST is a two-year program spread over four semesters and consists of 30 credit hours of teaching. The curriculum includes 8 courses of 3 credit hours each and research project (Thesis) of six credit hours. Students can also take two additional courses in lieu of Thesis in order to complete the total credit hours. The maximum time limit to complete the MS degree is 5 years.

PROGRAMS & CURRICULA

PhD

SZABIST offers PhD degree in Management Sciences, Computing, Educational Leadership and Management, and Social Science in strict adherence to the HEC guidelines. The minimum duration required is three years, of which first year is for the course work of 18 credit hours (4 courses and 2 Independent Research Studies) for Social Science, Educational Leadership and Management, and Computing; and 24 credit hours (6 courses and 2 Independent Research Studies) for Management Sciences . The courses are offered in the evening. This is followed by a research work of minimum period of two years. The dissertation which carries a weight of 30 credit hours is required to be completed successfully. The dissertation is sent for evaluation to the two universities in technologically advanced countries. Maximum time limit to earn PhD degree is 7 years. GRE (Subject)/GAT (Subject) score of minimum 60% is required to be submitted at the time of admission.

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

PhD Computing can be done in various specialized areas/disciplines related to pure or applied Computer Sciences. The specializations include, but not limited to, 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, specialized areas include Economics, International Relations, Political Science, Media Studies, Education, Public Administration, NGO Management, Gender Studies, Philosophy, Psychology, Sociology, Law, Human Rights and Public Policy.

In Educational Leadership and Management, specializations may include Sociology of Education, Educational Policy, Testing/Evaluation, Teacher Education, Professional Development, and Technology.

ADMISSION REQUIREMENTS

NOTE:
- All applicants will be required to appear in entrance test and interview/group discussion at SZABIST.
- General paper (A Levels) will not be counted.
- Equivalency from Inter Board Committee of Chairmen (IBCC), if applicable.
- Verification of last degree from Higher Education Commission of Pakistan, (HEC).
- Students waiting for results can also apply (including first year with no supplementary).

BACHELORS

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.

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 Engineering

The candidate must have completed Intermediate (Pre-Engineering)/A-levels or equivalent with a combination of (Physics, Chemistry and Mathematics) with minimum 60% marks.

For the candidates who have obtained Cambridge High School Certificate with Mathematics, Physics and Chemistry subjects, equivalency of their grades are obtained as follows:

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

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

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

(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)

All those candidates who have either 4-year BBA degree or 4-year professional degree (with minimum CGPA 2.5) or 16 years of education (with minimum 55% marks) from a university recognized by 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.

ADMISSION REQUIREMENTS

Master of Advertising

Students with a 4-year undergraduate degree or 16 years of equivalent education with minimum 55% marks/CGPA 2.5 from a university recognized by the HEC are eligible to apply.

Master in Public Health (MPH)

For admissions in the MPH program, candidates must possess 16 years of education or 4 years of education after H.S.C. (Intermediate) in any field of biological sciences with minimum 55% marks/CGPA 2.5 from a university recognized by HEC or PMDC. Applicants with MBBS, BDS, B-Pharm degrees or M.Sc. degree in any biological field with minimum 55% marks/CGPA 2.5 are eligible to apply.

MS Project Management

All those candidates who have either 4 years BBA degree or 4 years professional degree (with minimum CGPA 2.5) or 16 years of education (with minimum 55% marks) from an HEC recognized university will be eligible to apply for admission in MSPM program. Candidates are also required to pass GAT General with minimum 50% score.

MS Educational Leadership and Management

All those candidates who have either 4 years BBA degree or 4 years professional degree (with minimum CGPA 2.5) or 16 years of education (with minimum 55% marks) from an HEC recognized university will be eligible to apply for admission in MS ELM program. Candidates are also required to pass GAT General with minimum 50% score.

MS Media Studies

For admission in MS Media Studies, candidates must possess a 4-year undergraduate degree or 16 years of equivalent relevant education (Social Sciences, Humanities, or Media) with minimum 55% marks/CGPA 2.5 from a university recognized by HEC. Candidates are also required to pass GAT General with minimum 50% score.

MS Biosciences

For admissions in the MS program, candidates must possess 16 years of education in any field of life/biological sciences with minimum 55% marks/CGPA 2.5 from a university recognized by HEC. GAT (General) is mandatory for MS students with minimum 50% score.

MS Programs

For admission to MS program (Management Sciences, Computer Science & Social Sciences) candidates must possess 16 years of relevant education with minimum 55% marks/CGPA 2.5 from a university recognized by HEC. GAT (General) is mandatory for MS students with minimum 50% score.

Doctoral Degree

Admission Requirement

A candidate with MA/MS/MBA/MPhil or any other equivalent degree with minimum 5.5 years of formal university education in the relevant field from an HEC recognized local or foreign university may apply for direct admission in a PhD program. To apply for admission in PhD program the candidate must have minimum 3.0 CGPA, cleared the admission test and interview, and passed GAT (subject) with minimum 60% score.

A student may be asked to complete other pre-requisite/deficiency courses/thesis before taking PhD level courses. The decision of number of pre-requisite courses is taken by the Admissions Committee of relevant department. For non-relevant degrees, the candidate will be required to register for additional Masters level courses as pre-requisites as per the guidance provided by the Admissions Committee.

Degree Requirements

For completion of the PhD degree, the student must complete a total of 48 credit hours (18 credit hours course and 30 credit hours for dissertation) for Social Sciences, Educational Leadership and Management, and Computer Science; and 54 credit hours (24 credit hours course and 30 credit hours for dissertation) for Management Science.

PhD Degree Milestones

- Clearing admission requirements
- Completing course work with required CGPA
- Passing comprehensive examination
- Clearing proposal defense
- Completing dissertation
- Completing publication requirements
- Clearing progress seminar(s)
- Clearance from external examiners
- Dissertation Defense (Open Seminar)

Two interdisciplinary courses can be allowed with the

approval of both relevant Program Managers subject to the relevancy of courses.

Comprehensive Examination

All PhD students must pass the PhD Comprehensive Examination after completion of the required coursework. A student must clear the comprehensive examination in maximum two attempts. After successfully passing the comprehensive examination the candidate will get PhD Candidacy and he/she will be assigned a research supervisor.

Research Proposal

The candidate shall prepare a research proposal under the guidance of research supervisor. The first registration in Dissertation will be for 6 credit hours in which the student will work on Proposal for Dissertation. These 6 credits will be counted/included in 30 credit hours of dissertation. The PhD research proposal must be presented before the Evaluation Committee. Maximum two attempts are allowed for research proposal.

Dissertation

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. The dissertation may normally be completed within minimum 2 years after the completion of course work. Maximum time limit to complete PhD degree is seven years (including both course work and dissertation).

Publication Requirements

All PhD candidates are required to write at least one research 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 progress seminar. It is normally expected that the paper will be submitted before submission of dissertation.

Progress Seminar(s)

Before sending the dissertation to the external evaluators belonging to technologically advanced countries, the candidate has to demonstrate his or her work in front of a panel of experts for the necessary changes if deemed required.

Final Defense

After receiving minimum two successful evaluation reports from the external evaluators, the candidate is required be asked to appear for his/her PhD Final Defense by making a formal presentation of the Dissertation to the Evaluation Committee in an open seminar along with viva voce.

Admission 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 (Educational Leadership and Management) & MS (Media Studies) and GAT (subject) for PhD.

GAT General is mandatory for MS with minimum 50% score. GAT Subject is mandatory for PhD with minimum 60 % score.

Transfer Policies

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

Bachelor Course Transfer

A maximum of up to 50% 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.

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

ADMISSION REQUIREMENTS

MPM, MoA & MPH Course Transfer

A maximum of up to 6 credits may be considered for transfer into the MPM, MoA & MPH programs.

EMBA Course Transfer

No transfer courses are allowed into the EMBA 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 Inter-Campus transfer, 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
- HEC-Indigenous PhD 5000 Fellowship Program
- National ICT R&D Fund Scholarships
- NTS Need-Based Scholarship Program
- Ihsan Trust's Qarz-e-Hasna Facility
- Minority Scholarships
- 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 Programming 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 unmatchable 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 online 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 the 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

SZABIST Student Council and Student Societies

Amidst all the academic pressures and workload, SZABIST's students find time for leisure. Seminars, workshops, projects, on- and off-campus events and dinners are a regular feature of the life of a SZABISTian. To support extra and c-curricular activities, various clubs and student societies are established

by students for curricular and extracurricular activities. SZABIST also has an excellent student representation body, The SZABIST Student Council (SSC), which is a student-elected body, help create an environment that fosters creativity, initiative and confidence, with the help of its following constituent societies:

ACM: Association of Computing Machinery (SZABIST Karachi, ACM Chapter)
ASME: American Society of Mechanical Engineers
CURTAINS: Performing Arts Society
IEEE-SSB: Institute of Electrical and Electronics Engineers-SZABIST Student Branch
KSCLC: Karachi SZABIST Campus Lions Club
RCoSKM: Rotaract Club of SZABIST Karachi Midcity
SES: SZABIST Entrepreneurial Society
SLC: SZABIST Literary Club
SSS: SZABIST Sports Society
SSSS: SZABIST Social Sciences Society
SBS: SZABIST Biosciences Society

SZABIST also has the following, non-SSC societies that are providing an exceptional platform for leadership, citizenship and debate:

AIESEC: Student Exchange Program Facilitation
SLS: SZABIST Law Society
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. National Testing Services (NTS)
As per the MoU, SZABIST PhD students can benefit from NTS Need-Based Scholarships on qualifying NTS General Assessment Test.

2. Association of Chartered Certified Accountants (ACCA)
This MoU accredits SZABIST BBA program for exemptions in four ACCA papers.

3. ACCA Accelerate
Through this collaboration, SZABIST BBA students and alumni will benefit from a substantial fee waiver in acquiring ACCA professional qualification.

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

5. British Council and Scottish Documentary Institute (BCSDI)
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.

6. 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.

7. National ICT R&D Fund
According to this partnership, eligible and deserving students enrolled in ICT-related programs will be provided scholarship covering100% tuition fee and stipend for lodging, books, transportation, and food.

8. 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.

9. 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.

10. 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.

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

12. 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.

13. 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.

14. 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.

15. 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.

16. 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.

17. 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.

18. 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.

19. 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.

20. 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.

21. Peritus, Islamabad

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

22. KalSoft Pvt. Ltd., Pakistan

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

23. 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.

24. 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.

25. 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.

26. 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.

27. 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.

28. 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.

29. 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.

30. 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.

LIFE AT SZABIST

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.

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

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 1204   Maths for Business
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 2311   Business Statistics
BA 1203   Management Principles
BA 1102   Microeconomics
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 1202   Macroeconomics
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

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

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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*

ELECTIVES

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

*Optional courses can be taken as an Elective if not offered by Campus as a compulsory course.

**Research Report may be substituted with BA 47XX Research Project-1 (3 Credit Hours) and BA 48XX Research Project-2 (3 Credit Hours), to be offered over two semesters, as per the requirement of the campus.

All courses may not necessarily be offered every year. Alternate courses may be substituted as and when required. Full-time academic load is 18credit hours. All students are required to register for full load in the first semester.

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

BABS - CONTINUATION 3rd & 4th Year
SZABIST offers a 3 year BA (Hons) degree in Business Studies from the University of South Wales. Students will complete two years at SZABIST and proceed ahead to complete the third year from University of South Wales and earn an international degree.

Students who wish to complete the degree at SZABIST can also do so by opting for the 3rd & 4th year of BABS program. Those who opt for this continuation program will then stay in this program and will not be allowed

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to move to the BBA program. The fee structure will be the same. Students will have to give a test in order to comply with the HEC regulations.

Third Year

Fifth Semester
BA 1106   Islamiat and Pakistan Studies/Humanities
BA 4804   HRM
BA 2406   Business and Electronic Communication
BA 3517   Entrepreneurship and Small Business Management
BA 3603   Law for Managers

Sixth Semester
BA 3617   Introduction to International Business
BA 3501   Money and Banking
BA 3616   Customer Relationship Management
BA 3618   Leadership Development
BA 3519   Current Affairs

Forth Year

Seventh Semester
BA 3507   Consumer Behavior
BA 3501   Financial Markets and Institutions
BA 4824   Sales Management
BA 3603   Business Research Methods
BA 4703   Staffing/Compensation and Employee Development

Eighth Semester
BA 4807   Research Project
BA 4226   Customer Services and Excellence
BA 4225   Business Strategy
BA 4128   Operations and Supply Chain Management
BA 4127   Managing Across Global Environment

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

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

Fall Semester
BE 417   Accounting for Business
BE 447   Managerial Communication
BE 451   Business Application of IT
BE 492   Business Management

Spring Semester
BE 413   Quantitative Analysis for Decision Making
BE 415   Contemporary Marketing
BE 416   Organizational Behavior
BE 421   Economics for Business
BE 443   Entrepreneurship and Family Businesses

Summer Semester
BE 414   Business Finance
BE 418   Business Research Methods

Second Year

Fall Semester
BE 423   Human Resource Management
BE 434   Marketing Management
BE 478   Business Project
BE 4xx   Elective-I (Marketing, HR, Finance and Supply Chain)

Spring Semester
BE 419   Strategic Management
BE 444   Ethics and Corporate Governance
BE 445   Managerial Accounting and Control
BE 4xx   Elective-II (Marketing, HR, Finance and Supply Chain)
BE 4xx   Elective-III (Marketing, HR, Finance and Supply Chain)

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Summer Semester
BE 448   Research Project (3 Credits)
BE 449   Operations and Supply Chain
             Management

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.

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 Business Research Project (6 credits) OR Academic Research Projects (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 5501   Applied Research Methods
BA 5104   Strategic Management
BA 5xxx   Elective-I
BA 5xxx   Elective-II

Spring Semester
BA 5203   Strategic Marketing
BA 5601   Strategic HRM
BA 5xxx   Elective-III
BA 5xxx   Elective-IV

Second Year

Fall Semester
BA 5308   International Business
BA 5208   Strategic Finance
*BA 5xxx/ Academic Research Project
          (6 Credits)
BA5xxx   Business Research Project
          (6 Credits)

All courses may not be offered every semester. Alternative courses may be substituted as and when required.
*A student may take either Academic Research Project or Business Research Project.

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

For students with 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 Business Research Project (6 credits) OR Academic Research Projects (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 5502   Quantitative Tools for Managers
BA 5404   Marketing Principles
BA 5207   Organizational Behavior

Spring Semester
BA 5106   Marketing Management
BA 5205   Human Resource Management
BA 5411   Cost and Management Accounting
BA 5401   Introduction to Business Finance
BA 5408   Business Economics
BA 5501   Applied Research Methods

Second Year

Fall Semester
BA 5308   International Business

BA 5104   Strategic Management
BA 5105   Financial Management
BA 5203   Strategic Marketing
BA 5xxx   Elective-I
BA 5xxx   Elective-II

Spring Semester
BA 5601   Strategic HRM
BA 5208   Strategic Finance
BA 5xxx   Elective-III
BA 5xxx   Elective-IV
*BA 5xxx   Academic Research Project
           (6 Credits)
BA 5xxx   Business Research Project
           (6 Credits)

All courses may not be offered every semester. Alternative courses may be substituted as and when required.
*A student may take either Academic Research Project or Business Research Project

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 Business Research Project (6 credits) OR Academic Research Projects (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 5602   Oral Communication and
           Presentation Skills

BA 5301   Financial Accounting
BA 5419   Business Management and Ethics
BA 5311   Personal Management

Spring Semester
BA 5408   Business Economics

FACULTY OF MANAGEMENT SCIENCES

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 5503   Logical and Critical Thinking
BA 5207   Organizational Behavior
BA 5405   Statistical Inference
BA 5105   Financial Management
BA 5106   Marketing Management

Spring Semester
BA 5501   Applied Research Methods
BA 5205   Human Resource Management
BA 5411   Cost and Management Accounting
BA 5xxx   Elective-I
BA 5xxx   Elective-II

Third Year

Fall Semester
BA 5104   Strategic Management
BA 5208   Strategic Finance
BA 5406   Entrepreneurship
BA 5xxx   Elective-III
BA 5xxx   Elective IV

Spring Semester
BA 5203   Strategic Marketing
BA 5601   Strategic HRM
BA 5308   International Business
*BA 5xxx   Academic Research Project
           (6 Credits)
BA 5xxx   Business Research Project
           (6 Credits)

All courses may not be offered every semester. Alternative courses may be substituted as and when required.
*A student may take either Academic Research Project or Business Research Project

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
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

FACULTY OF MANAGEMENT SCIENCES

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.

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 Business Research Project (6 credits) OR an Academic 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.

Fisrt Year

Fall Semester
BA 5501   Applied 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 5xxx   Academic Research Project (6 credits) OR
BA 5xxx   Business Research Project (6 Credits)

All courses may not be offered every semester. Alternative courses may be substituted as and when required.
*A Student may either take Business Research Project or Academic Research Project.

FACULTY OF MANAGEMENT SCIENCES

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-two courses (66 credits) and a Business Research Project (6 Credits) OR an Academic Research Project (6 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 5132	Analysis of Financial Statements
BA 5501	Applied Research Methods
BA 5235	Treasury and Funds Management
BA 5xxx	Elective-I
BA 5xxx	Elective-II
BA 5xxx	Elective-III

Spring Semester

BA 5175	Banking Operations
BA 5273	Prudential Regulations
BA 5139	Financial Risk Analysis
BA 5xxx	Elective-IV
*BA 5xxx	Business Research Project (6 credits) OR
BA 5xxx	Academic Research Project (6 Credits)

All courses may not be offered every semester. Alternative courses may be substituted as and when required.
*A Student may either take Business Research Project or Academic Research Project.

ELECTIVES

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.

FACULTY OF MANAGEMENT SCIENCES

COMPREHENSIVE EXAMINATION
Students enrolled in the MBA B&F (36 credits) program are not required to take the SZABIST comprehensive exam. However, students enrolled in the MBA B&F (72 credits) program are required to clear the Comprehensive Exam. Rules of Comprehensive Exam can be obtained separately from the Examination Department.

Masters in Project Management (MPM)

The Masters in Project Management is designed to enable individuals to manage complex projects of today through modern project management 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

* May alternatively be exchanged with "IT Tools for Project Management" or "Enterprise Project Management".

Summer Semester
PM 5303   Project Monitoring, Evaluation and Control Management
PM 5209   Project

ELECTIVE

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

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

MS Project Management

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

- Four compulsory courses (12 credit hours)
- Two Independent Studies (6 credit hours)
- Two elective courses (6 credit hours)
- Thesis OR two additional elective courses (6 credit hours)

Fall Semester
MP 5101   Managing Projects
MP 5103   Research Methodology
MP 5202   Quantitative Tools for Research
MP 5203   Operations Research

Spring Semester
MP 5xxx   Elective-I

MP 5xxx   Elective-II
MP 5108   Independent Study-I
MP 5208   Independent Study-II

Fall Semester
MP 5xxx   Thesis/Elective-III*
MP 5xxx   Thesis/Elective-IV*

* Thesis may be substituted by these electives.

FACULTY OF MANAGEMENT SCIENCES

ELECTIVES

MP 5201	Quality Management Tools
MP 5102	Project Management Constraints
MP 5314	Project Review, Assurance and Governance
MP 5324	Risk Management Dynamics
MP 5217	Financial Decision Analysis
MP 5205	Theories of Management
MP 5218	Software Project Management
MP 5317	Supply Chain Management
MP 5325	Project Simulation
MP 5215	Human Resource Management Communication
MP 5318	Business Analysis

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. Students cannot register in Independent Research Study (IRS) without completion of Research Methods and Quantitative Tools for Research. In addition passing of comprehensive exam would also be required for taking thesis and a comprehensive exam must be passed after completing course work (including IRS), if student decides to substitute thesis with electives.

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 IRS or thesis (3 credits only). Independent Research Study taken in summer will be presented along with Fall semester, in a conference for assessment.

MS (Project Management) Bridge arrangement

This arrangement allows MPM graduates to enhance their academic qualification. For MPM (30 Credits Program) graduates, a maximum of 5 Courses would be transferred to MSPM program and for MPM (33 Credits Program) graduates, a maximum of six courses can be transferred to MSPM program, subject to passing the courses with a minimum 2.75 grade points, and on surrendering the MPM degree. Project, Project in Primavera and SAP Training are not transferrable towards MSPM degree completion requirements for MPM graduates.

All MSPM candidates are required to pass GAT General with minimum 50% score or GRE score as applicable for MS program as per SZABIST admission policy.

MS Management Sciences

The students are required to complete 6 courses, 2 Independent Research Studies (IRS), 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 Research Studies (6 credit hours)
Three elective courses (9 credit hours)
One Thesis OR two more elective courses (6 credit hours)

First Year

Fall Semester

MS 5137	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 5119	Independent Research Study-I
MS 5219	Independent Research Study-II

Second Year

Fall Semester

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

FACULTY OF MANAGEMENT SCIENCES

COMPULSORY COURSES

MS 5204   Quantitative Tools for Research
MS 5137   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
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.

Research Methods & Techniques (RMT), Quantitative Tools for Research (QTR), and Research Philosophy are compulsory courses for MS program. Students cannot register in Independent Research Study (IRS) without completion of these 3 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 IRS or thesis (3 credits only). Independent Research 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.

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).

Advanced Quantitative Tools for Research (AQTR), Advanced Research Methods & Techniques (ARMT) and Advanced Research Philosophy are pre-requisite courses for Independent Research Study (IRS) and completion of all courses and IRSs 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 6216	Advanced Quantitative Tools for Research*
MS 6217	Advanced Research Philosophy*
MS 6xxx	Elective-I

Spring Semester

MS 6xxx	Elective-II
MS 6xxx	Elective-III
MS 6119	Independent Research Study-I
MS 6219	Independent Research 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 6216	Advanced Quantitative Tools for Research
MS 6106	Advanced Research Methods and Techniques
MS 6217	Advanced 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 IRS or Dissertation of 3 credit hours.

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 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. BSCS Program is accredited by NCEAC. The maximum time to complete the degree is 7 years.

BS (Computer Science) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
		First Year			
		Fall Semester			
	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	
				16	
		Spring Semester			
	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	
				16	
		Second Year			
		Fall Semester			
	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 and Differential Equations	4,0	4	
	CSC 2105	Statistics and Probability	3,0	3	CSC 1101
				18	
		Spring Semester			
	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	
				18	
		Third Year			
		Fall Semester			
	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-1	3,0	3	
				17	

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
		Spring Semester			
	CSC 3201	Compiler Construction	3,0	3	CSC 2204
	CSC 3202	Design and Analysis of Algorithms	3,0	3	CSC 2102
	CSC 3203	Numerical Computing	3,0	3	CSC 1101
	CSC 4xxx	CS Elective-1	3,0	3	
	CSC 4xxx	CS Elective-2	3,0	3	
				15	
		Fourth Year			
		Fall Semester			
	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-3	3,0	3	
	CSC 4xxx	CS Elective-4	3,0	3	
				15	
		Spring Semester			
	CSC 4205	Final Year Project-II	0,3	3	CSC 4105
	CSC 4xxx	CS Elective-5	3,0	3	
	CSC 4xxx	CS Elective-6	3,0	3	
	CSC 4xxx	CS Elective-7	3,0	3	
	CSC 4xxx	University Elective-2	3,0	3	
				15	

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. After completion of the six week internship, all students are required to submit a comprehensive report, giving details of their experience and learning.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

MS Computer Science

SZABIST offers MSCS 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 a 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 and 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 and 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 Communication and Computer Networks
Finite Automata Theory
Digital Logic Design

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

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

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 complete. The maximum time limit to complete the PhD degree is 7 years.

First Year

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

Spring Semester
CSC 6xxx   Independent Study
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.

Followed by successfully completion of the course work, Comprehensive Examination is required to pass to acquire PhD Candidacy, after which research period starts. The entire research work is carried out under the supervision of the PhD supervisor, which is assigned and approved as per the university procedure. The complete research work is required to be submitted in the form of a "Dissertation", after a minimum period of two years.

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.

Mechatronics at SZABIST

The department offers a program that includes various engineering science courses from the relevant fields in addition to a strong foundation in basic sciences and mathematics. In order to ensure that this academic program at SZABIST conforms to standards of internationally recognized universities, the curriculum has been designed with the guidance of academics and professionals specializing in Mechatronic. The program has been accredited by Pakistan Engineering Council. 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 (Mechatronics) graduates will be able to:

- Understand the interdisciplinary fundamentals of mechanical engineering, electronics engineering, control systems, computer engineering, and their integration.

- Successfully identify problems, design, and optimize integrated solutions by focusing on modern 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

First Year

Fall Semester
ME 1101   Communication and Presentation
           Skills (2, 0)
ME 1102   Electric Circuits (3, 1)
ME 1109   Engineering Drawing-I (0, 2)
ME 1104   Engineering Mathematics-I:
           Calculus and Analytical Geometry (3, 0)
ME 1108   Introduction to Computer System
           and Programming (1, 1)
ME 1203   Engineering Physics (2, 1)

Spring Semester
ME 1201   Electronic Devices and Circuits (3, 1)
ME 1202   Engineering Mathematics-II:
           Linear Algebra and ODEs (3, 0)
ME 1106   Islamic Studies (2, 0)
ME 1204   Engineering Statics (3, 0)
ME 2301   Computer Programming (2, 1)
ME 1207   Engineering Workshop (0, 2)

Second Year

Fall Semester
ME 2307   Data Structures and Object Oriented
           Programming (2, 1)
ME 2302   Digital Logic Design (2, 1)
ME 2303   Engineering Dynamics (3, 0)
ME 2304   Engineering Mathematics–III:
           3D Geometry and Vector Calculus (3, 0)
ME 2305   Network Analysis (3, 0)
ME 2306   Pakistan Studies (2, 0)
ME 2309   Engineering Drawing-II (0, 1)

Spring Semester
ME 2401   Electronics Circuit Design (3, 1)
ME 2402   Electro-Mechanical Systems (3, 1)
ME 2403   Engineering Mathematics-IV:
           Transformation Techniques (3, 0)
ME 2406   Strength of Materials (3, 1)
ME 2405   Thermodynamics (2, 1)

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Third Year

Fall Semester
ME 3501   Engineering Mathematics–V:
          Numerical Methods (3, 0)
ME 3502   Fluid Mechanics (3, 1)
ME 3503   Microprocessor and Microcontroller
          Based Systems (2, 1)
ME 3504   Sensors, Actuators and
          Instrumentation (3, 1)
ME 3506   Materials and Manufacturing
          Processes (3, 0)
ME 3507   Theory of Machines (2, 1)

Spring Semester
ME 3602   Control Systems (3, 1)
ME 3603   Engineering Mathematics–VI:
          Probability and Statistics (3, 0)
ME 3605   Power Electronics (3, 1)
ME 3606   Machine Design and CAD/CAM (3, 1)
ME4705   Mechatronics System Design (3, 1)
ME 1205   Technical Writing Skills (2, 0)

Fourth Year

Fall Semester
ME 4xxx   Elective-I (Engineering) (3, 0)
ME 4702   Engineering Economics and
          Project Management (3, 0)
ME 4802   Robotics (3, 1)
ME 4704   Mechanical Vibrations (3, 0)
ME 4708   Final Year Project* (0, 3)

Spring Semester
ME 4801   Industrial Automation (2, 1)
ME 4xxx   Elective-II (Engineering) (3, 0)
ME 4xxx   Elective-III (Management Sciences) (3, 0)
ME 4703   Heat Transfer (2, 1)
ME 4808   Final Year Project (0, 3)

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

Elective courses are offered subject to the availability of the required expertise & resources.
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.

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

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

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 1116	English-I: English for General Purposes
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 4705	Sindh Studies

Second Year

Fall Semester

SS 2314	Study of Anthropology
SS 2316	English-II: English for Academic Purposes
SS 2313	Introduction to Social Psychology
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 1209	Social Policy
SS 1xxx	Elective-II

Third Year

Fall Semester

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

Spring Semester

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

Fourth Year

Fall Semester

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

Spring Semester

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

ELECTIVES

SS 1154	Literature
SS 2305	Human Geography
SS 1157	Comparative Religion

FACULTY OF SOCIAL SCIENCES

SS 1254   World History
SS 1262   Mass Media
SS 1163   Development and Politics
SS 1263   Culture & Media in Sindh

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
SS 4295   Criminology

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 Research Studies (IRSs), and a thesis/2 additional courses instead of thesis, with a minimum of 30 credit hours. The break-up of 30 credit hours is as follows:

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

First Year

Fall Semester
SS 5121   Advanced Research Methods and Techniques-I (Qualitative)
SS 5122   Advanced Research Methods and Techniques-II (Quantitative)
SS 5xxx   Elective-I
SS 5xxx   Elective-II

Spring Semester
SS 5116   Econometrics
SS 5119   Independent Research Study-I
SS 5xxx   Elective-III
SS 5xxx   Elective-IV

Summer Semester
SS 5219   Independent Research Study-II

Second Year

Fall Semester
SS 5xxx   Thesis/2 additional courses instead of Thesis

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 5228   Corporate Governance
SS 5206   Political Economy in the Global Perspective
SS 5402   Law and Human Rights

*ARMT-I and ARMT-II are mandatory for all.

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

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

First Year

Fall Semester

SS 6104	Advanced Research Methods and Techniques- I (Qualitative)
SS 6105	Advanced Research Methods and Techniques- II (Quantitative)
SS 5xxx	Elective-I

Spring Semester

SS 6119	Independent Research Study-I
SS 6219	Independent Research 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-I and ARMT-II are mandatory for all except for SZABIST continuing students.

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 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
- MS Media Studies

Bachelor of Media Science

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 include 43 courses, a 6-credit thesis, and an internship. Forty-three courses include: 33 core courses, 7 major requirements in Film and Television Production, or Advertising Strategy & Design, or Journalism, and 3 open electives. All students must complete their degree within 7 years.

First Year

Fall Semester
MD 1122 English for General Purposes (EGP)
MD 1107 Drawing and Perspective
MD 1115 Introduction to Media Industries
MD 1116 Civilization Studies-I
MD 2402 Islamiat and Pakistan Studies/Humanities
MD 3601 Art of Music

Spring Semester
MD 1222 English for Academic Purposes
MD 1104 Culture, Media, and Society
MD 1106 Photography
MD 1119 Play Analysis

MD 1216 Civilization Studies-II
MD 2323 Production Practices-I

Second Year

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

Spring Semester
MD 1118 Topics in Asian Literature

FACULTY OF SOCIAL SCIENCES

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

Third Year

Fall Semester
MD 1213 Creative Writing
MD 2424 Media Psychology
MD 3518 Animation and Motion Graphics
MD 3527 Design Practices-II
MD 3511 Radio Channel Project-I
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 3506 Theories of Visual Culture
MD 4807 Thesis-I
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 4736 Integrated Marketing Communication
MD 4739 Advertising Design and Concept
MD 4755 Brand Identity Management
MD 4782 Interaction Design
MD 4837 Media Planning
MD 4846 New Media Advertising
MD 4847 Copywriting

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

ELECTIVES
MD 4732 Typography
MD 4786 Directing for Actors
MD 4854 Illustration
MD 4862 Advanced Studio Project
MD 4877 The International Newsroom
MD 4882 Audio Podcasting
MD 4867 Topics in Film and Television
MD 4886 Game Design
MD 4xxx Culture & Media in Sindh

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 Department and the Program Manager to discuss any accommodation they might need. All first semester students are required

FACULTY OF SOCIAL SCIENCES

to register for 6 courses. In order to register for thesis credits in the final semester, students must have completed a minimum of 38 courses. Students on academic probation will not be allowed to register for thesis credits.

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 5207 Media Evolution and Innovation
MD 5161 Integrated Marketing Communications
MD 5141 Idea Development
MD 5162 Advertising and Marketing Research

Spring Semester
MD 5102 Media and Contemporary Culture
MD 5262 Brand Management

MD 5264 Copywriting and Advertising
          Conceptualization
MD 5265 Digital Advertising

Summer Semester
MD 5165 Digital Media Content
MD 5351 Campaign Strategy

Second Year

Fall Semester
MD 5349 Research Project

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 30 credit hours, which includes 8 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.

First Year

Fall Semester
MD 5102 Media and Contemporary Culture
MD 5207 Media Evolution and Innovation
MD 5104 Research Methodology

Spring Semester
MD 5212 Theories of Visual Culture
MD 5112 Media and Post-Colonialism
MD 5201 Communication for Social Change

FACULTY OF SOCIAL SCIENCES

Fall Semester
MD5xxx   Elective-I
MD 5xxx Elective-II
MD 5109 Thesis-I

Spring 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 Theories of Film and Television
MD 5xxx Urban Geographies and Visual Cultures
MD 5xxx Media, Art, and Technology

FACULTY OF EDUCATION

FACULTY OF EDUCATION

The Faculty of Education at SZABIST is committed to improve the quality of education in Pakistan by preparing its students for leadership roles in the field of education as situated in a fast-changing global world, without losing sight of the local context. The emphasis of the intensive programs offered is on fostering a critical awareness about educational issues, the sociopolitics of educational policies, curricular and pedagogical decisions and teacher education/faculty development problems. This is achieved through interactive and intensive courses and rigorous research-based assignments and practicum.

Program

The Educational Leadership and Management Programs at the Faculty of Education are designed to meet national and international standards of educational study and research. They are in conformity with the HEC guidelines and caters to the interests of a diverse set of learners who have chosen Education to be their field of study. The programs prepare them for practical leadership roles with sound theoretical standing to take informed decisions.

FACULTY OF EDUCATION

MS Educational Leadership and Management

The MS in Educational Leadership and Management is a 1.5 year program spread over three semesters. It is a 30 credit hour program with 6 Courses, 2 Independent Research Studies (3 credit hours each) and a Thesis (6 credit hours).

The students will have the opportunity to specialize in the fields of: Sociology of Education, Educational Policy, Testing/Evaluation, Teacher Education, Professional Development, and Technology.

The breakup of 30 credit hours is as follows:
- Four compulsory courses (12 credit hours)
- Two elective courses (6 credit hours)
- Two Independent Research Studies (6 credit hours)
- Thesis or 2 elective courses (6 credit hours)

First Year

Fall Semester

ELM 5101	Leadership and Management in Educational Contexts
ELM 5102	Advanced Research Methods and Techniques-I (Qualitative)
ELM 5103	Advanced Research Methods and Techniques-II (Quantitative)
ELM 5xxx	Elective-I

Spring Semester

ELM 5201	Curriculum Development and Planning
ELM 5xxx	Elective-II
ELM 5108	Independent Research Study-I
ELM 5208	Independent Research Study-II

Second Year

Fall Semester

ELM 5xxx	Thesis/Elective-III & Elective-IV (6 credits)

COMPULSORY COURSES

ELM 5101	Leadership and Management in Educational Contexts
ELM 5201	Curriculum Development and Planning
ELM 5102	Advanced Research Methods and Techniques-I (Qualitative)
ELM 5103	Advanced Research Methods and Techniques-II (Quantitative)

ELECTIVES

ELM 5xxx	Sociological Issues in Education/ Access/Outcomes and Quality
ELM 5xxx	Learning Effectiveness in Higher Education Contexts
ELM 5xxx	Use of Technology in Education
ELM 5xxx	Education in the Context of Conflict
ELM 5xxx	Socio-Politics of Language Policy in Educational Contexts
ELM 5xxx	Leading Change for Transformative Education
ELM 5xxx	Educational Policy Reform: Comparative Perspectives
ELM 5xxx	Performance Management and Professional Development
ELM 5xxx	School Evaluation and Monitoring
ELM 5xxx	Teacher Education
ELM 5xxx	Research Philosophy
ELM 5xxx	Testing, Assessment and Evaluation
ELM 5xxx	Finance and Resource Management
ELM 5xxx	Organizational Development

All students will have to appear in a comprehensive examination towards the end of the program.

INTERNSHIP

All MS students are required to complete a 6-week internship. SZABIST has its separate internship and placement department, the Executive Development Center (EDC), that can help students find a suitable place for their internship.

FACULTY OF EDUCATION

The PhD in Educational Leadership and Management program at the Faculty of Education aspires to meet the growing demand of leaders and managers with expertise in the field of education. There is a strong emphasis on research, and critical awareness on issues of social justice and equity in educational contexts. It equips graduates with the knowledge and skills to have impact on educational policy, reform, and practice.

The PhD in Educational Leadership and Management is a 3 year program, spread over six semesters. It is a 48 credit hour program comprising 5 courses, 1 Independent Research Study (3 credit hours), and a Dissertation (30 credit hours).

The students will have the opportunity to specialize in the fields of: Sociology of Education, Educational Policy, Testing/Evaluation, Teacher Education, Professional Development, and Technology.

First Year

Fall Semester

ELM 6101   Advanced Research Methods and Techniques-I (Qualitative)
ELM 6102   Advanced Research Methods and Techniques-II (Quantitative)
ELM 6xxx   Elective-I

Spring Semester

ELM 6xxx   Elective-II
ELM 6xxx   Elective-III
ELM 6108   Independent Research Study-I

Second Year

Fall Semester

ELM 6xxx   Dissertation (Proposal)

Spring Semester
ELM 6xxx   Dissertation

Third Year

Fall Semester

ELM 6xxx   Dissertation

Spring Semester
ELM 6xxx   Dissertation

COMPULSORY COURSES*

ELM 6101   Advanced Research Methods and Techniques-I (Qualitative)

ELM 6102   Advanced Research Methods and Techniques-II (Quantitative)

ELECTIVES

ELM 6xxx   Sociological Issues in Education/ Access/Outcomes and Quality
ELM 6xxx   Learning Effectiveness in Higher Education Contexts
ELM 6xxx   Use of Technology in Education
ELM 6xxx   Education in the Context of Conflict
ELM 6xxx   Socio-Politics of Language Policy in Educational Contexts
ELM 6xxx   Leading Change for Transformative Education
ELM 6xxx   Educational Policy Reform: Comparative Perspectives
ELM 6xxx   Performance Management and Professional Development
ELM 6xxx   School Evaluation and Monitoring
ELM 6xxx   Teacher Education
ELM 6xxx   Research Philosophy
ELM 6xxx   Testing, Assessment and Evaluation
ELM 6xxx   Finance and Resource Management
ELM 6xxx   Organizational Development

All the students have to appear in Comprehensive Examination at the end of their course work.

*The research courses are compulsory for all the students except for SZABIST continuing students who will take two elective courses instead.

FACULTY OF BIOSCIENCES

FACULTY OF BIOSCIENCES

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

PROGRAM & FACULTY

Biosciences programs aim to produce professionals with firm knowledge of fundamental concepts of Biology and their current applications. The BS, MS, and MPH programs intend to provide training in the fundamentals of ever-changing fields of healthcare, agriculture, pharmaceutics, molecular and biochemical sciences.

Upon completion, 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 therapeutics, molecular biology, advanced analytical techniques, and public health care sector.

Biosciences faculty includes professionals with relevant expertise and experience in both research and teaching. The faculty is heavily engaged in their research projects and also provides quality supervision to the students at SZABIST Center for Biosciences Research (SCBR) laboratories.

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 tissue culture
- General Biochemistry and Microbiology labs
- Molecular biology labs
- Green-net house facility
- Enzyme Isolation & purification lab

Job Placement Possibilities

- Food Industry
- Biochemical Industry
- Biotechnology Companies
- Healthcare Sector (Public Health)
- Diagnostic Labs and Hospital
- Pharmaceutical Industry
- Bioinformatics Software Houses
- Research Centers
- Academia

BS Biosciences

BS Biosciences at SZABIST is a four-year program spread over eight semesters and consists of 138 credit hours of teaching, 45 courses, an internship of at least six weeks, and a research project. The maximum time limit to complete the BS degree is 7 years.

First Year

Fall Semester

BIO 2301   Biochemistry-I
BIO 1111   English for general purposes
BIO 1107   Fundamental Mathematics
BIO 1209   Introduction to Microbiology
BIO 1206   Physiology-I

Spring Semester

BIO 1207   Advanced Microbiology
BIO 2401   Biochemistry-II
BIO 1211   English for academic purposes
BIO 3504   Immunology
BIO 1208   Statistics
BIO 2305   Physiology-II

Second Year

Fall Semester

BIO 1101   Cell Biology
BIO 2309   Animal and Plant Tissue Culture
BIO 2405   Hematology
BIO 1104   Introduction to Computing
BIO 2303   Islamiat and PakistanStudies/Humanities
BIO 2404   Lab Management

Spring Semester

BIO 2406   Genetic Engineering
BIO 3502   Endocrinology

BIO 4803   Molecular Biology
BIO 3604   Neurochemistry
BIO 2306   Psychology
BIO 2411   English for professional purposes

Third Year

Fall Semester

BIO 2402   Bioinformatics
BIO 2302   Biotechnology
BIO 3509   Epidemiology
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

Fourth Year

Fall Semester

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

FACULTY OF BIOSCIENCES

Spring Semester
BIO 3601 Agricultural Science
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

Master in Public Health (MPH)

MPH at SZABIST is a two-year program spread over four semesters and consists of 60 credit hours of teaching. The curriculum includes 22 courses, 16 of 3 credit hours each, 3 of 2 credit hours, an internship of at least six weeks, and a research project (Thesis) of 6 credit hours. The maximum time limit to complete the MPH degree is 5 years.

First Year

Fall Semester
MPH 5101   Environmental & Occupational Health
MPH 5102   Epidemiology
MPH 5103   Foundation of Public Health
MPH 5104   Social and Behavioral Sciences
MPH 5105   Statistical Reasoning in Public Health

Spring Semester
MPH 5201   Chronic Non Communicable Diseases
MPH 5202   Health Services Administration
MPH 5203   Infectious Diseases
MPH 5204   Nutrition and Health
MPH 5205   Research Methodology

Second Year

Fall Semester
MPH 5301   Demography
MPH 5302   Health promotion
MPH 5303   Medical Ethics
MPH 5304   Medical Genetics
MPH 5305   Medicine and Law
MPH 5306   Maternal and Child Health

Spring Semester
MPH 5401   Health Policy
MPH 5402   International Health
MPH 5403   PPP and NGO Management
MPH 5409   Thesis

FACULTY OF BIOSCIENCES

MS Biosciences

MS Biosciences at SZABIST is a two-year program spread over four semesters and consists of 30 credit hours of teaching. The curriculum includes 8 courses of 3 credit hours each and research project (Thesis) of six credit hours. Students can also take two additional courses in lieu of Thesis in order to complete the total credit hours. The maximum time limit to complete the MS degree is 5 years.

First Year

Fall Semester
BIO 5101   Advanced Research Methodology
BIO 5102   Biostatistics

Spring Semester
BIO 5201   Molecular Genetics
BIO 5202   Techniques in Biomolecules Analyses

Second Year

Fall Semester
BIO 5xxx   Elective-I
BIO 5xxx   Elective-II
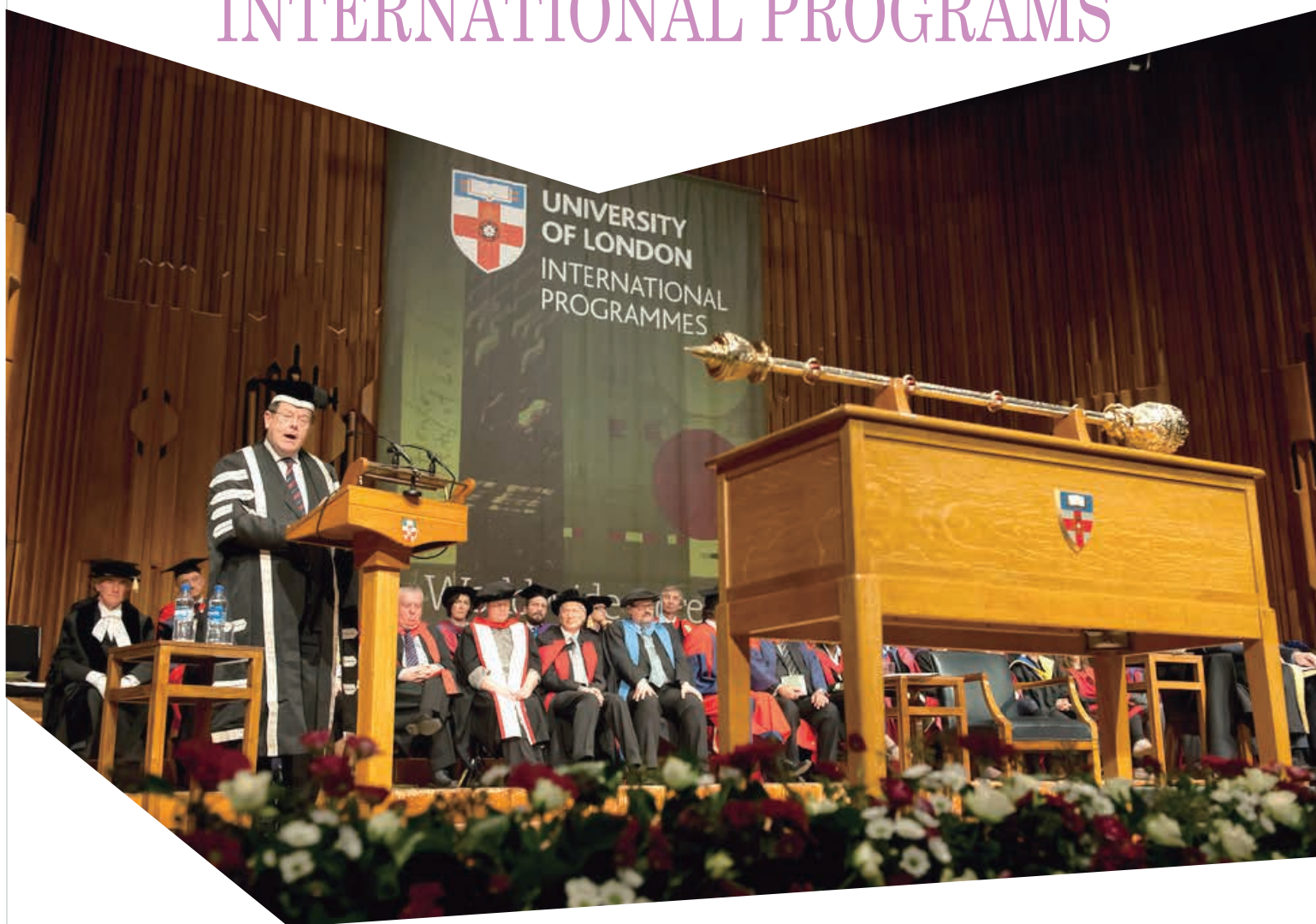BIO 5xxx   Thesis or Elective-V

Spring Semester
BIO 5xxx   Elective-III
BIO 5xxx   Elective-IV
BIO 5xxx   Thesis or Elective VI

Electives
BIO 5xxx   Applied Biotechnology
BIO 5xxx   Environmental and Industrial
            Biotechnology
BIO 5xxx   Plant Biotechnology
BIO 5xxx   Fermentation Design and Engineering
BIO 5xxx   Medical Biotechnology
BIO 5xxx   Biocatalysis and Enzymology
BIO 5xxx   Clinical Biochemistry
BIO 5xxx   Drug Discovery and Development
BIO 5xxx   Biocomputation
BIO 5xxx   Cancer Biology
BIO 5xxx   Applied Immunology
BIO 5xxx   Techniques in Diagnostics
BIO 5xxx   Molecular Dynamics
BIO 5xxx   Food Sampling Techniques and Analysis
BIO 5xxx   Food Quality Management System
BIO 5xxx   Food Toxicology and Adulteration

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 will complete two years of study at SZABIST and proceed ahead to complete the third year at the University of South Wales, and earn an international degree.

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.

Overlapping subjects in O Levels and in A Levels will not be counted.

- 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.

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
Commercial Law
Protection of Human Rights
Family Law
Public International Law

UNIVERSITY OF LONDON
INTERNATIONAL PROGRAMMES | REGISTERED CENTRE
International **LLB** Programme

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.

First Semester

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

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

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

Fourth Semester

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

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

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

Third year at the University of South Wales

Customer Service Excellence
Strategic Management
Law for Managers
European Business Environment

ACADEMIC CALENDAR 2015-16 (Karachi Campus)

FALL 2015

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 08, 2015	New Faculty Meeting /Orientation
Aug 12, 2015	IS Thesis Advisors Meeting
Dec 12, 2015	Independent Study Presentations for MS/PhD students
Dec 26, 2015	Comprehensive Exam

Classes commencing date

Classes will commence on August 03, 2015 at Karachi, Hyderabad and Larkana Campuses.

ACADEMIC CALENDAR 2015-16 (Karachi Campus)

ACADEMIC CALENDAR 2015-16 (Karachi Campus)

SPRING 2016

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 09, 2016	New Faculty Meeting /Orientation
May 14, 2016	Independent Study Presentations for MS/PhD students
May 28, 2016	Comprehensive Exam

Classes commencing date

Classes will commence on January 04, 2016 at Karachi, Hyderabad and Larkana Campuses.

PROGRAMS OFFERING (FALL 2015) 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	√	√	√	√	√
Bachelor of Media Science	√	√			√
BS Social Science	√	√			
BE Mechatronic Engineering	√				
BS Bioscience	√				
Bachelor of Law (LLB)	√				
Master in Business Administration (MBA)	√	√	√	√	√
Executive MBA	√	√			√
Masters in Project Management	√	√			√
Professional MBA		√			
MBA Banking & Finance	√				
Masters in Human Resource Management		√			
Master of Advertising	√				
Master in Public Health (MPH)	√				
MS Biosciences	√				
MS Computer Science	√	√			√
MS(CS) with specialization in Software Engineering	√	√			√
MS(CS) with specialization in Networks & Security	√	√			√
MS Media Studies	√				
MS Management Science	√	√			
MS Developmental Studies		√			
MS Social Sciences	√	√			
MS Educational Leadership and Management	√				
MS Project Management	√	√			
PhD in Computer Science	√	√			
PhD in Social Sciences	√				
PhD in Management Sciences	√	√			
PhD Educational Leadership and Management	√				

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

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