Shaheed Zulfikar Ali Bhutto
Institute of Science & Technology

SZABIST

SHAHEED ZULFIKAR ALI BHUTTO
INSTITUTE OF SCIENCE & TECHNOLOGY

Discover
Yourself

Prospectus
2016

www.szabist.edu.pk

We just Don't Work Hard
We Work Smart

SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY

THE VISION

SZABIST aims to be a globally recognized institute for excellence in education, research, development, and distinction in service.

THE MISSION

SZABIST is committed to produce highly qualified professionals to:
- Meet national and global contemporary needs;
- Conduct cutting edge research and development;
- Provide hi-tech scientific and technological expertise;
- Meet current and future socio-economic challenges;
- Meet global citizenship responsibility.

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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 the Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST), one of the most prestigious higher education institution of Pakistan.

At SZABIST, we believe that innovative thoughts and high ideals teach the values of hard work and diligence. We prepare our students for professional careers; therefore, we offer a wide variety of humanities, science and technological programs including Management Sciences, Computer Sciences, Social Sciences, Media Sciences, Mechatronics Engineering, Biosciences, Education, Public Health and Law. The curriculum of each traditional and emerging program is approved by the Higher Education Commission (HEC), Pakistan and is taught by highly qualified and competent faculty members.

To achieve the mission of our founding Chancellor Shaheed Mohtarma Benazir Bhutto i.e. providing opportunity for tertiary education and research to the youth in different areas of Pakistan, SZABIST, now has five national and international campuses operational in 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, enabling you to realize and nurture your true intellectual and professional potential.

SZABIST also offers numerous scholarships and financial assistance to make education accessible and affordable for all of its students. In order to augment overall student learning experience and continuously improve the standard of education, the Institutional Research Department/Quality Enhancement Cell periodically assesses all programs to monitor and enhance the quality of delivery of education.

As I welcome the new students, I encourage them to strive for excellence, develop freedom of thought and speech, and while they equip themselves for marketable skills, they should actively work to free our beloved country from bigotry and ignorance.

The motto of SZABIST is to provide students the opportunity to experience university life in a way that helps them in building memories whilst focusing on their professional goals and in the process discover their true self. So I wish you success and urge you to "Discover Yourself"!

Dr. Azra Fazal Pechuho
Chancellor
SZABIST

PRESIDENT'S MESSAGE

It is my pleasure to welcome the prospective students to Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST), a higher education institute known for its high quality and broad range of undergraduate and postgraduate programs and premium learning environment. SZABIST is a perfect platform for students to discover their talent and strengths, and overcome weaknesses to achieve their educational, professional, and personal aspirations.

Over the past many years, SZABIST's national and international market reputation has been significantly enhanced. This is evident from the increased enrollment in its five campuses -Karachi, Larkana, Hyderabad, Islamabad, and Dubai (UAE).

SZABIST, guided by the vision of its Founding Chancellor, Shaheed Mohtarma Benazir Bhutto, has developed into a leading higher education institution for the youth of Pakistan aspiring for a high quality relevant education. To maintain our diversified academic portfolio, we offer a range of courses from Biosciences and Mechatronic Engineering to Law and Media. This prospectus provides you with comprehensive information about our programs. 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 also 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.

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'S (ACADEMICS) MESSAGE

Welcome and thank you for your interest in SZABIST, which is a fully recognized degree awarding institution and enjoys a high reputation within academia. The founding mission of this institution was to provide a high-quality education to students of great promise and today, we remain resolute in our obligation. As you visit our website, you will discover an institution committed to preparing students in diversified areas of learning, such as Management Sciences, Computer Sciences, Media Sciences, Bio-Sciences, Social Sciences, Mechatronic Engineering, Law and Education. The programs under each department are in compliance with HEC recommended course plans and are accredited by respective regulatory bodies such as NBEAC, NCEAC, PEC and CIEC.

As SZABISTIANS, our students feel pride to have joined a community of professionals. Our strength is our ERP implemented through our own software house ZABSOLUTIONS. We utilize modern IT tools in teaching and managing our academics and to ensure quality education through ongoing and systematic assessments round the semesters. We have been awarded 93% score by QEC/HEC.

We do not merely believe on traditional classroom studies but go beyond by providing numerous opportunities to our students to engage with innovative activities outside the classroom. We strongly believe in developing their personalities which we ensure through conducting seminars and guest lectures frequently by eminent personalities through our student societies which are responsible to arrange co-curricular and extra-curricular activities round the year.

The learning outcomes of the programs have been carefully designed to compel the students for critical & creative thinking, to acquire problem-solving skills and to professionally handle all pedagogical tools. We are fully aware that a University without Research is like a "Body" without "Soul"; therefore, we give high priority to research seminars and encourage students to in academic and industry research.

Being an academician, I know the significance of "Counseling" to the students at every step in their academic career which helps in setting their directions as I believe "Direction" is more important than "Speed".

Finally, I am once again thankful to you for selecting SZABIST as your career-building institution. I assure you that you will be a different personality once you complete your studies successfully with us.

Prof. Dr. M. Altaf Mukati
Vice President (Academics)
SZABIST

VICE PRESIDENT ADMINISTRATION & FINANCE MESSAGE

A warm welcome to all the potential students of Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST). 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.

At SZABIST, we believe in education that helps our students in building innovative thoughts and teaches them the value of hard work and diligence. To support the robust academic and research curriculum, state-of-the-art facilities, an environment conducive to learning & development is offered to our students. Our Administration and Academic wings enthusiastically prepare and look 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 this institute.

Prospectus 2016 is a testament that today SZABIST has developed into a strong multidisciplinary institution with campuses in Karachi, Hyderabad, Larkana, Islamabad and Dubai. It is hoped that the Prospectus 2016 will serve as a useful guide in planning out your academic tenure at SZABIST.

With best wishes

Ms. Nasreen Haque
Vice President (Administration & Finance)
SZABIST

INTRODUCTION

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) is highly ranked and 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 laid by HEC and other regulatory bodies, for example, National Business Education Accreditation Council (NBEAC), National Computing Education Accreditation Council (NCEAC), and Pakistan Engineering Council (PEC).

SZABIST comprises five campuses located in 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 by national and multinational organizations and hold key positions in several reputable firms at national and international level.

SZABIST offers undergraduate, graduate and post graduate degrees in six different disciplines: Management Sciences, Computer Sciences, Media Sciences, Social Sciences, Mechatronic Engineering and Biosciences. In addition, SZABIST offers two external programs in affiliation with international universities in the UK: LLB with the University of London, UK and BA (Hons.) in Business Studies (BABS) with University of South Wales, UK. These cutting edge programs offer latest knowledge in respected fields with emphasis on scientific research and intellectual stimulation.

In order to further diversify SZABSIT's portfolio, MS leading to PhD program in Educational Leadership and Management has been introduced from Fall 2015. Furthermore, SZABIST has also collaborated with the British Council to strengthen its English language support program for its students. Computer-based blended learning is an important aspect of this program. This program is being made flexible and sensitive to the needs of the students for optimum benefit.

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 CIEC and 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), continuously, for the last four annual assessments by Quality Assurance Agency (QAA) HEC, Pakistan.

SZABIST also has the distinction of being ranked among the best business schools, as well as the top Science and Technology institutes in Asia by the CNN-Time and Asiaweek. SZABIST was 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.

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.

INTRODUCTION

SZABIST Karachi Campus is situated in the prime location of Clifton (Block 5-units 79, 90, l00, 154, and 172) in Karachi. Plans are underway for the construction of a purpose-built campus for Management, Computer Science, Social Sciences, Media Sciences and Biosciences 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 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. Students are required to check with the local campus for offered programs or consult last page of the prospectus.

Bachelor of Business Administration

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, IT or Supply Chain Management. 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).

Bachelor of Arts in Business Studies (BA Hons)

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 can also complete the degree at SZABIST by opting for the 3rd & 4th year of BABS program.

Bachelor of 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 to complete degree requirement. The maximum time limit to complete the degree program is seven years.

Bachelor of Engineering - Mechatronic Engineering

SZABIST offers a four-year (eight semesters) BE Mechatronic Engineering degree program, which is accredited by Pakistan Engineering Council (PEC). 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 46 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-ME degree program is seven years.

Bachelor of 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) including 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 Faculty 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 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.

Bachelor of Biosciences

BS Biosciences at SZABIST is a four-year program spread over eight semesters and consists of 135 credit hours of teaching (43 courses), an internship of at least six weeks, and a research project. The maximum time limit to complete the BS degree is 7 years.

Executive Master of Business Administration

SZABIST offers a two-year EMBA degree program for executives and middle level managers striving 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

PROGRAMS & CURRICULA

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.

Masters of Business Administration

MBA program has been designed to impart quality professional knowledge and understanding of modern management tools, leadership, 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 specialization in Management, Human Resource Management, 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. 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 degree requirements.

MBA (72 credit-hour program)

This program is designed for students having a four-year non-business bachelor degree (like BS-CS, BE etc) 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-business 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.

Master in Project Management

The Master in Project Management (MPM) 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 Faculty 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 are required to complete a total of 36 credit hours, including 10 courses and a 6-credit project. All students must complete their degree within 5 years.

Master of Public Health

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 or 2 independent research studies of 3 credit hours each. The maximum time limit to complete the MPH degree is 5 years.

PROGRAMS & CURRICULA

Master of Science - 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 research 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 (3 complete semesters excluding Summer semester). As per HEC guidelines, all MS Students are required to clear GRE or GAT General Test.

Master of Science - Management Sciences

SZABIST offers MS degree with concentration 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 research 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.

Master of Science - 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 courses to be determined in consultation with Program Manager). The candidates shall have to submit GRE (General)/GAT (General) score of minimum 50%. The maximum time limit to complete the MS degree is 5 years.

Master of Science - Media Studies

The Faculty 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.

Master of Science - 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 Research Studies of 30 credit hours. The maximum time limit to complete the MS degree is 5 years.

Master of Science - Educational Leadership and Management

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

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

Master of Science - 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.

Doctor of Philosophy

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. The scheme is followed by a research work of minimum period of two years. The dissertation carrying a weight of 30 credit hours is required to be completed successfully. The dissertation is sent for evaluation to two universities in technologically advanced countries. Maximum time limit to earn a 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 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 or 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 Information Technology.

Rotary Club officials at SZABIST

PEC Team at SZABIST

Mechatronic Projects

Computing Lab

ADMISSION REQUIREMENTS

NOTE:

- All applicants will be required to appear in entrance test and interview/group discussion held by SZABIST.
- General paper (A Levels) will not be counted.
- Equivalency from Inter Board Committee of Chairmen (IBCC) is required for O & A Levels/High School Diploma/IB Diploma or equivalent.
- Verification of last degree from Higher Education Commission of Pakistan (HEC) is mandatory for all Masters, MS, & PhD students.
- Students waiting for results can also apply (including first year with no supplementary).

BACHELORS' DEGREE PROGRAMS

BBA/BABS/BS Programs

For admission in the BBA/BABS/BS programs, the candidate must have completed O-Levels (minimum 8 passes) and 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 O-Levels (minimum 8 passes) and A-levels (minimum 3 passes in at least two subjects; Biology, Chemistry, and Physics).

BE Mechatronic Engineering

The candidate must have completed Intermediate (Pre-Engineering)/ O-Levels (minimum 8 passes) and A-levels (minimum 3 passes) or equivalent with a combination of (Physics, Chemistry and Mathematics) with minimum 60% marks.

Equivalency of grades for the candidates having Cambridge High School Certificate with Mathematics, Physics and Chemistry subjects 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/Automation) having at least 60% aggregate marks from an institute recognized by the Government can also apply.

MASTERS' DEGREE PROGRAMS

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)

For admission in the MBA B&F 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).

For admission in the MBA B&F 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.

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 education with minimum 55% marks/CGPA 2.5 from a university recognized by the HEC are eligible to apply.

Master of Public Health

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 or M.Sc. degree in any biological field with minimum 55% marks/CGPA 2.5 are eligible to apply. Students must also pass GAT (General) with a minimum 50% score.

Master of Science - Project Management

For admission in the MSPM program, the applicant must possess a minimum of 16 years of education/ 4 year Bachelor/Master with minimum CGPA 2.5 or minimum 55% marks from an HEC recognized university. Candidates are also required to pass GAT General with minimum 50% score.

Master of Science - Educational Leadership and Management

The candidate must have 16 years of education with minimum 55% Marks/CGPA 2.5 from an HEC recognized institution. GAT General with minimum 50% score is also required.

Master of Science - Media Studies

For admission in MS Media Studies, candidates must possess a 4-year undergraduate degree or 16 years of 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.

Master of Science - 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.

Master of Science - Management Sciences, Computer Science & Social Sciences 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 PROGRAMS

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 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 have 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 on 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 Sciences.

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 examina-

ADMISSION REQUIREMENTS

tion 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 included in 30 credit hours of dissertation. The PhD research proposal must be presented before the Evaluation Committee.

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 a minimum of 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. For further details please see the HEC guideline for publication.

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 to appear in PhD Final Defense. A formal presentation of Dissertation is required to be produced before Evaluation Committee in an open seminar along with viva voce.

Admission Test Alternates

Applicants may submit a minimum 1650/2400 or 1100/1600 score of SAT 1 for (BBA/BABS/BS/BE), 50% score of GMAT for (MBA), 600 score of GMAT for EMBA, GAT (General)/GRE for MS (Management Sciences, Computer Science, Social Sciences, Educational Leadership and Management & 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 MBA (36 credit hours) program. Research Project/Thesis is not transferable.

- A maximum of up to 36 credits may be considered for transfer into the MBA (72 credit hours) program. Research Project/Thesis 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 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.

MPM & MAV Course Transfer

A maximum of up to 6 credits may be considered for transfer into the Master of Project Management & Master of Advertising programs.

ADMISSION REQUIREMENTS

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.

SZABIST Inter-Campus Transfer

For Inter-Campus transfer, the candidate must fulfill the admission requirements of the given program at the local campus, 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, transferability of certificate courses is as follows:

- Maximum 05 courses are transferable in under graduate program.
- Maximum 2/3 courses are transferable in Masters or MS program.
- Maximum 02 courses are transferable in PhD program.

Only C- and above grades are transferable into a regular degree program at Bachelors level and B and above are transferable in Masters, MS, & PhD programs.

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
- Baluchistan Endowment Fund Scholarships
- Khyber Pakhtunkhwa Chief Minister's Endowment Fund
- USAID funded Merit and Need-Based Scholarships
- HEC-Indigenous PhD 5000 Fellowship Program

- National ICT R&D Fund Scholarships
- National ICT Grassroots Research Initiative
- NTS Need-Based Scholarships Program
- Ihsan Trust's Qarz-e-Hasna Facility
- ACCA Accelerate Scholarships
- Ministry of Harmony and Interfaith Minority Scholarships
- Various community-based 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 in the form of adjunct faculty positions to qualified and eligible PhD candidates.

All requests for financial assistance must be made after admission except for USAID funded Merit and Need-Based Scholarship which is available at the time of admission for BBA and MBA programs applicants only.

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 and presentations with foreign universities. Video Conferencing has been the most effective mode at SZABIST in bringing in live and interactive guest lecturers from national and international experts. 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 also 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 frequently. These seminars and lectures are in continuation of the Institute's policy towards entrepreneurship development and networking. Seminars are conducted and attended by the leading figures from business and industry as these sessions address various business practices.

Professional Development 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, business opportunities and to 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 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 computers along with broadband intranet and 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 operating systems provide an unmatchable environment compared to majority of well-reputed universities of Pakistan.

SZABIST has computing facilities supported with full 24x7 broadband connectivity of 100 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 has acquired Microsoft IT academy and Oracle Academic Alliance program.

SZABIST library is subscribed to a number of digital online libraries, journals, and databases through which students can access 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.

Research Committee (RC)

SZABIST places a very high emphasis on research and development and devotes conscious efforts to promote the research culture among faculty and students alike. In this regards, a Research Committee (RC) is constituted to coordinate, record, and formalize diverse research activities across different departments and campuses to bring harmony and create an impact for national and international recognition of the university. The Research Committee strives to achieve excellence in research across different departments and campuses. The purpose of this committee is to develop research policies, oversee research related activities of the university, and support different departments and campuses for creation, expansion, and propagation of research activities to proliferate and promote academic distinction, merit, and quality in the university. The major objectives of the committee are: develop an institutional policy and strategy for the promotion of research at SZABIST; oversee structures and systems for sustainable research activities; maintain, and administer the internal and external review of applications for external funding; and ensure high quality, regular publications of SZABIST research journals.

Board of Advanced Studies and Research (BASR)

SZABIST has constituted Board of Advanced Studies and Research (BASR), preordained to monitor the progress of MS & PhD students' research work. BASR is authorized to approve the recommendations and proposals given by RC. The major functions of BASR are to advise the authorities on all matters pertaining to the promotion of advanced studies in different disciplines across all departments and campuses. The board further considers and reports to the authorities on the award of research degrees, proposes bye-laws regarding the initiation, execution, and award of research degrees; appoints supervisors for postgraduate

research students and approves titles and synopses for their thesis or dissertations; recommends names of panel of examiners for evaluation of independent research studies, theses, and dissertations. It also performs such other functions as may be prescribed by Statutes of University.

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 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.

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. The students receive an opportunity to interact with company representatives directly.

To bridge the gap between classroom and real world, SZABIST has instituted a mandatory internship program. Apart from enabling students to get the feel

LIFE AT SZABIST

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.

SZABIST Student Council (SSC)

To foster an environment conducive to the actualization of creativity, scientific thought and leadership, an annually-elected body of young and ambitious individuals who come together to form the student government at the institute, the SZABIST Student Council (SSC), has been in existence for little over half a decade. It is a reflection of the aforementioned values espoused by the ideology of SZABIST.

Trained to stand by the principles of labour, knowledge and integrity, the SSC membership cutting across all degree programs of the institute aims at helping to explore the talents of all students at the institute all the more, playing an intermediary role between the administration and students and adding value to student life at SZABIST.

The SSC also hosts entertainment events, organizes trips, conferences, focuses heavily on working for social welfare, produces seasonal SSC merchandise (such as shirts, mugs, banners, or any other promotional material), and guides fellow students in addressing issues related to their campus life acting as a forum that becomes the voice of the student body of the institute. Furthermore, it acts as a parent body to its chapters in other campuses of SZABIST namely, SSC-HYD Chapter, SSC-ISB Chapter, SSC-LRK Chapter & SSC-DXB Chapter.

All student associations, clubs and student societies are formed as per a prescribed procedure working with and assisted by the SZABIST Student Council.

All student associations, clubs, and organizations fall under the domain of the SSC and are required to register with the administration once they are formed. To ensure that democratic norms are instilled, every year proper elections are held for the various offices of these organizations under the supervision of student Council/Student Advisor.

The following club/societies are currently active on Campus:

ACM	Association of Computing Machinery (SZABIST Karachi, ACM Chapter)
AIESEC	Student Exchange Program Facilitation
ASME	American Society of Mechanical Engineers
FSAA	Friends of the Sindh Abhyas Academy
IEEE-SSB	Institute of Electrical and Electronics Engineers-SZABIST Student Branch
KSCLC	Karachi SZABIST Campus Lions Club
RCoSKM	Rotaract Club of SZABIST Karachi Midcity
SBS	SZABIST Bioscience Society
SES	SZABIST Entrepreneurial Society
SLS	SZABIST Law Society
SOS	SZABIST Oratory Society
SSSS	SZABIST Social Science Society
SSS	SZABIST Sports Society
ZABLITS	SZABIST Literary Society
ZABMUN	Zulfiqar Ali Bhutto Model United Nations
ZABPAS	SZABIST Performing Arts Society

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.

LIFE AT SZABIST

ZAB FM 106.6

SZABIST has a full-fledged set up for broadcasting educational and entertaining programs through its in house broadcasting station tuned at 106.6 MHz.

ZABSOL

SZABIST has its own software house, which develops the software for the university and also ensures the complete management, execution of ERP to dynamically handle the affairs of the university. Students have also opportunity to use this platform to develop their software skills.

National and 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. Association of Quality Assurance Agencies of the Islamic World (AQAAIW).
8. Management Association of Pakistan (MAP), Karachi .
9. Marketing Association of Pakistan (MAP), Karachi.
10. Human Resource Development Network (HRDN), Islamabad.

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

1. British Council
This MoU is aimed at incorporation of British Council's English Language Development Products into SZABIST's English Language Courses offered in all undergraduate degree programs in Pakistan.

2. National Testing Services (NTS)
As per the MoU, SZABIST MS and PhD students can benefit from NTS Need-Based Scholarships on qualifying NTS General Assessment Test.

3. Association of Chartered Certified Accountants (ACCA)
Under this MoU, SZABIST will acquire further exemption of ACCA fundamental papers, benefit from ACCA research and insight capacity building program, and Accelerate scholarships program.

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

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

6. Ihsan Trust
The MoU with Ihsan Trust is aimed at provision of Qarz-e-Hasna (Interest-free Loan) facility up to 100 % of tuition fee to SZABIST students.

7. 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.

8. Nur Center for Research & Policy, Lahore
The MoU facilitates collaboration for internships, trainings, research and consultancy projects, and organizing policy advisory forums across Pakistan, Middle East and South Asian region.

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

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10. 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.

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

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

12. 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.

13. 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.

14. University Of London

SZABIST is a registered centre of University of London for giving tuitions for its LLB programme.

15. 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.

16. 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.

17. 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.

18. 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 exchange facility for students, staff, and faculty.

19. 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.

20. Microsoft IT Academy

SZABIST has acquired Microsoft IT Academy program with collaboration of HEC. Students of SZABIST get free training of Computer Science, and IT Infrastructure.

21. CISCO Networking Academy

SZABIST Karachi Campus have become authorized CISCO Network Academy to conduct IT-Essentials, CCNA Routing & Switching, and CCNA Security certification.

FACULTY OF MANAGEMENT SCIENCES

FACULTY OF MANAGEMENT SCIENCES

The faculty of management sciences at SZABIST equips 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, IT and Supply Chain Management.

PROGRAM AND FACULTY

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

FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST offers a four year BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses and a 6-credit Research Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing, Finance, IT or Supply Chain Management. 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 1106   Islamiat and Pakistan Studies/Humanities
BA 1108   IT in Business
BA 1109   Personal Management and
                   Communication
BA 1204   Maths for Business
BA 1206   Oral Communication and
                   Presentation Skills

Spring Semester

BA 1102   Microeconomics
BA 1105   English Writing Skills
BA 1201   Financial Accounting
BA 1203   Management Principles
BA 2307   Sociology
BA 2312   Human Behavior

Second Year

Fall Semester

BA 1202   Macroeconomics
BA 1211   Logic and Critical Thinking
BA 2301   Introduction to Business Finance
BA 2303   Marketing Principles
BA 2403   Business Ethics
BA 2408   Cost Accounting

Spring Semester

BA 2311   Business Statistics
BA 2401   Money and Banking
BA 2402   Retail Management
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

FACULTY OF MANAGEMENT SCIENCES

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

BA 3519 Current Affairs
BA 3506 Foreign Languages
BA 3619 Enterprise Management
BA 3614 Business Analysis and Forecasting*
BA 4707 Marketing Research*
BA 4701 Islamic Banking and Finance*
BA 4842 Graphic Design for Multimedia*
BA 3613 World Economy

ELECTIVES

Finance
BA 4115 Derivatives
BA 4214 Micro Finance
BA 4218 Financial Research
BA 4701 Islamic Banking and Finance*
BA 4719 Investment Banking
BA 4724 Financial Modeling
BA 4727 Dynamics of Banking
BA 4734 International Banking
BA 4752 Financial Reporting and Analysis
BA 4756 Econometrics
BA 4831 Portfolio and Investment Management
BA 4833 Security Analysis
BA 4834 Treasury and Funds Management
BA 4855 Financial Risk Analysis
BA 3614 Business Analysis and Forecasting*

Marketing
BA 4116 Supply Chain Management
BA 4125 Emerging Media
BA 4126 Trade Marketing
BA 4217 Experiential Marketing
BA 4707 Marketing Research*
BA 4721 Advertising
BA 4722 Brand Management
BA 4739 Export Marketing
BA 4815 Event Management
BA 4816 Industrial Marketing
BA 4821 Media Planning
BA 4824 Sales Management
BA 4842 Graphic Design for Multimedia*
BA 4859 Product Innovation and Design

Supply Chain Management
BA 4116 Supply Chain Management
BA 4211 Production Management
BA 4702 Total Quality Management
BA 4739 Export Marketing
BA 4742 Customer Relationship Management
BA 4859 Product Innovation and Design
BA 4844 Operations Research
BA 4824 Sales Management
BA 4126 Trade Marketing
BA 4764 Dynamics of Logistics and Distribution

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 4812 Recruitment and Selection
BA 4813 Training and Development
BA 4815 Event Management
BA 4826 Talent Management
BA 4837 Performance Appraisal
BA 4844 Operations Research

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

FACULTY OF MANAGEMENT SCIENCES

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 can also complete the degree at SZABIST 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 to move to the BBA program. The fee structure will be the same.

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.

Third Year

Fifth Semester

BA 1106   Islamiat and Pakistan Studies/Humanities
BA 4804   Human Resource Management
BA 2406   Business and Electronic Communication

BA 3517   Entrepreneurship and Small Business Management
BA 3518   Law for Managers

Sixth Semester

BA 3617   Introduction to International Business
BA 2401   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

FACULTY OF MANAGEMENT SCIENCES

Summer Semester

BE 414   Business Finance
BE 406   Applied 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)

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
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/equivalent business degree)

For students with a 4-years BBA degree or equivalent business 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

FACULTY OF MANAGEMENT SCIENCES

Fall Semester

BA 5308	International Business
BA 5208	Strategic Finance
*BA 5609	Academic Research Project (6 Credits)
BA 5509	Business Research Project (6 Credits)
BA 5109	Thesis (6 Credits)

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

*A student may take either Academic Research Project or Business Research Project or Thesis.

MBA PROGRAM

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

For students with 4-year non-business 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 5609	Academic Research Project (6 Credits)
BA 5509	Business Research Project (6 Credits)
BA 5109	Thesis (6 Credits)

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

*A student may take either Academic Research Project or Business Research Project or Thesis.

FACULTY OF MANAGEMENT SCIENCES

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 5602	Oral Communication and Presentation Skills
BA 5301	Financial Accounting
BA 5419	Business Management and Ethics
BA 5311	Personal Management
BA 5408	Business Economics

Spring Semester

BA 5404	Marketing Principles
BA 5305	Statistics and Mathematics for Business
BA 5317	English Writing Skills
BA 5401	Introduction to Business Finance
BA 5207	Organizational Behavior

Second Year

Fall Semester

BA 5405	Statistical Inference
BA 5105	Financial Management
BA 5106	Marketing Management
BA 5418	Managerial Communication
BA 5205	Human Resource Management

Spring Semester

BA 5501	Applied Research Methods
BA 5411	Cost and Management Accounting
BA 5503	Logic and Critical Thinking
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 5609	Academic Research Project (6 Credits)
BA 5509	Business Research Project (6 Credits)
BA 5109	Thesis (6 Credits)

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

*A student may take either Academic Research Project or Business Research Project or Thesis.

ELECTIVES
Finance

BA 5131	Advance Financial Management
BA 5132	Analysis of Financial Statements
BA 5278	Banking Crises and Management
BA 5175	Banking Operations
BA 5262	Behavioral Finance
BA 5187	Business Analysis and Forecasting
BA 5179	Commodity Pricing
BA 5133	Corporate Finance
BA 5134	Derivatives
BA 5138	Econometrics
BA 5192	Financial Management Policy
BA 5135	Financial Markets and Institutions
BA 5229	Financial Modeling
BA 5184	Financial Product Regulations
BA 5298	Financial Reporting and Analysis
BA 5139	Financial Risk Analysis
BA 5197	Forex Markets and Operations

FACULTY OF MANAGEMENT SCIENCES

BA 5254	Fundamentals of Financial Engineering
BA 5137	International Banking
BA 5151	International Finance
BA 5244	Investment Banking
BA 5231	Islamic Banking and Finance
BA 5155	Mergers and Acquisitions
BA 5232	Portfolio and Investment Management
BA 5273	Prudential Regulations
BA 5234	Security Analysis
BA 5284	Theory and Practice of Lending
BA 5235	Treasury and Funds Management
BA 5294	Venture Capital and Private Equity
BA 5279	Working Capital Management

Human Resource Management

BA 5136	Business Strategy and Policy
BA 5112	Change Management
BA 5118	Compensation Management
BA 5196	Conflict Resolution
BA 5295	Crisis Management
BA 5172	Entrepreneurial Business Strategy
BA 5152	Event Management
BA 5292	HR Analytics
BA 5193	HR Operations and Business Partnering
BA 5239	HR Policy Development
BA 5297	Human Capital Development and Analytics
BA 5164	Human Resources Information Systems
BA 5113	Industrial Management and Labor Relations
BA 5116	Industrial Relations and Labor Laws
BA 5165	Job Analysis and Design
BA 5114	Leadership and Motivation Techniques
BA 5185	Leadership Development
BA 5117	Performance Appraisal
BA 5285	Performance Management
BA 5215	Recruitment and Selection
BA 5159	Salary and Compensation
BA 5167	Talent Management and Succession Planning
BA 5216	Training and Development
BA 5213	Project Management

MIS

BA 5181	Business Intelligence and Data Warehousing
BA 5111	Business Process Re-engineering
BA 5241	e-Commerce
BA 5156	e-Commerce Strategies and Management
BA 5163	Enterprise Resource Planning
BA 5169	Technology Management and Innovation

Marketing

BA 5121	Advertising
BA 5122	Brand Management
BA 5123	Consumer Behavior
BA 5124	Customer Relationship Management
BA 5281	Digital Marketing
BA 5259	Emerging Media
BA 5198	Experiential and Content Marketing
BA 5126	Export Marketing
BA 5127	Global Marketing
BA 5217	Industrial Marketing
BA 5199	Integrated Brand Communication
BA 5256	Integrated Marketing Communications
BA 5264	Interactive Global and Regional Marketing
BA 5269	Marketing Intelligence
BA 5299	Media Management
BA 5286	Media Marketing
BA 5224	Media Planning and Management
BA 5293	New Product Development Process and Innovation
BA 5225	Personal Selling
BA 5226	Pharmaceutical Marketing
BA 5246	Public Relations
BA 5228	Retail Management
BA 5296	Rural Marketing
BA 5227	Sales Management
BA 5129	Services Marketing
BA 5186	Social Marketing
BA 5171	Strategic Advertising
BA 5182	Trade Marketing
BA 5xxx	PR Management

FACULTY OF MANAGEMENT SCIENCES

Supply Chain Management

BA 5191	Advance Manufacturing and TPM in SCM
BA 5291	Detailed Scheduling and Planning in SCM
BA 5263	Dynamics of Logistics and Distribution
BA 5287	Execution and Control of Operations in SCM
BA 5265	Operational Planning in Supply Chain
BA 5266	Strategic Procurement in SCM
BA 5194	Supply Chain Finance
BA 5214	Supply Chain Management

Internship

All MBA students are required to complete a 6-week internship. SZABIST has a separate internship and placement department (EDC) that support students in finding a suitable opportunity for their internship. Completion of 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 Comprehensive Exam. However, students enrolled in the MBA (72 credits) and MBA (90 credits) programs are required to clear the Comprehensive Exam.

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

FACULTY OF MANAGEMENT SCIENCES

MBA Program (Banking & Finance)

MBA B&F (36 credit hours program for student with a 4-year BBA degree/equivalent business degree)

For students with a 4-year BBA degree or equivalent business 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.

First 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 5609	Academic Research Project (6 credits) OR
BA 5509	Business Research Project (6 Credits)
BA 5109	Thesis (6 Credits)

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

*A Student may either take Business Research Project or Academic Research Project or Thesis.

MBA Program (Banking & Finance)

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

For students with 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 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 5509	Business Research Project (6 credits) OR
BA 5609	Academic Research Project (6 Credits)
BA 5109	Thesis (6 Credits)

FACULTY OF MANAGEMENT SCIENCES

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

*A Student may either take Business Research Project or Academic Research Project or Thesis.

ELECTIVES

BA 5xxx	Asset Management
BA 5278	Banking Crisis and Management
BA 5262	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 5229	Financial Modeling
BA 5xxx	Financial Planning and Budgeting
BA 5223	Marketing of Financial Services
BA 5xxx	Financial Systems
BA 5255	Fixed Income Securities
BA 5xxx	Foreign Exchange Operations and Management
BA 5xxx	Banking Insurance
BA 5231	Islamic Banking and Finance
BA 5xxx	Information System Audit
BA 5151	International Finance

BA 5xxx	Leasing Strategies and Regulations
BA 5xxx	Mergers and Acquisitions in Banking
BA 5xxx	Options and Derivatives
BA 5xxx	Project Financing
BA 5158	Micro and SME Finance
BA 5xxx	Theory and Policy of Modern Finance
BA 5294	Venture Capital and Private Equity
BA 5279	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 support students in finding a suitable opportunity for their internship. Completion of the internship is a degree requirement for all MBA programs. Students can produce their current employment record as an alternative to the internship program provided such employment experience is recognized by SZABIST.

Comprehensive Examination

Students enrolled in the MBA B&F (36 credits) program are not required to take the comprehensive exam. However, students enrolled in the MBA B&F (72 credits) program are required to clear the Comprehensive Exam. Details 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 5104	Cost and Financial Management for Project Management
PM 5105	Project Scope
PM 5310	SAP Training*

Spring Semester

PM 5201	Project Scheduling, Planning and Time Management
PM 5351	Project Risk Management
PM 5309	Project in Primavera
PM xxxx	Elective-I

PM xxxx   Elective-II

Summer Semester

PM 5301	Project Quality Management
PM 5209	Project

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

ELECTIVE

PM 5151	Enterprise Resource Planning
PM 5152	Innovation and Technology Management
PM 5251	Procurement and Contract Management
PM 5252	Project Change Management

FACULTY OF MANAGEMENT SCIENCES

PM 5253   Project Human Resource Management
PM 5255   Project Change and Risk Management
PM 5257   Simulation for Project Management

PM 5303   Project Monitoring, Evaluation and
                Control Management
PM 5352   Project Stakeholders Management
PM 5353   Research Methods for Project Managers

PM 5354   Leadership, Team and Communication
                for Project Management
PM 5355   Project Communication, Reporting
                and Presentation

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

Master of Science – 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 Research Studies (6 credit hours)
- Two elective courses (6 credit hours)
- Thesis OR two additional elective courses (6 credit hours)

First Year

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 5111   *Independent Research Study-I
MP 5211   *Independent Research Study-II

Second Year

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

*Within Independent Research Studies, capstone project may also be taken.
* *Thesis may be substituted by these electives.

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 Methodology 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).

FACULTY OF MANAGEMENT SCIENCES

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, IT Tools for Project Management 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.

Master of Science – 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:

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

There is no fixed specified course load for MSMS program. The courses may be offered irrespective of semester plan given in prospectus.

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 5131	Qualitative Research Methods*
MS 5119	Independent Research Study-I
MS 5219	Independent Research Study-II

Second Year

Fall Semester

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

COMPULSORY COURSES*

MS 5204	Quantitative Tools for Research
MS 5137	Research Methods and Techniques
MS 5416	Research Philosophy
MS 5131	Qualitative Research Methods

ELECTIVES

Finance

MS 5237	Business Finance and Decision Making
MS 5414	Applied Econometrics
MS 5105	Econometrics
MS 5113	Financial Time Series
MS 5103	Managerial Economics
MS 5215	Corporate Finance
MS 5111	Derivatives and Financial Risk
MS 5421	Capital Asset Pricing Model
MS 5425	Empirical Asset Pricing
MS 5218	Financial Markets
MS 5115	Operations and Mathematical Modeling
MS 5134	Behavioral Finance
MS 5206	Modern Financial Applications
MS 5217	Corporate Finance Planning and Decisions

Marketing

MS 5104	Strategic Marketing Decisions
MS 5301	Seminars in Marketing
MS 5249	Advanced Marketing Strategies
MS 5422	Distribution and Channel Management
MS 5424	Strategic Brand Management

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Research

MS 5315   Research writing
MS 5117   Qualitative Tools and Analysis
MS 5207   Quantitative Analysis for
           Decision Making

Human Resource Management

MS 5238   Strategic Human Resource Development
MS 5415   NGO Management
MS 5101   Change Management
MS 5102   Organizational Development
MS 5216   Corporate Governance
MS 5225   Leadership and Motivation Techniques
MS 5203   Global Corporate Strategy
MS 5211   Creative Leadership
MS 5205   International Business Management
MS 5423   Global Governance and Development
MS 5241   Public Administration and Governance
MS 5112   Strategic Management
MS 5229   Negotiations and Conflict Resolution
MS 5303   Issues in Strategic Management
MS 5245   System Thinking and
           Organizational Learning
MS 5202   Organizational Strategies and
           Effectiveness

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 and Qualitative Research Methods are compulsory courses for MS program. Students cannot register in Independent Research Study (IRS) without completion of these 4 compulsory courses.

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). 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.

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 4 compulsory courses, 2 electives, and 2 independent research studies. Maximum course load for a semester is 3 courses (9 credit hours).

Advanced Quantitative Tools for Research (AQTR), Advanced Research Methods & Techniques (ARMT), Advanced Qualitative Research Methods (AQRM), Advanced Research Philosophy courses and passing of GAT (Subject) with minimum 60% score are pre-requisites for Independent Research Study (IRS) and completion of all courses along with IRSs and comprehensive examination clearance are pre-requisite for registering in dissertation.

First Year

Fall Semester

MS 6106   Advanced Research Methods and
           Techniques*
MS 6217   Advanced Research Philosophy*
MS 6216   Advanced Quantitative Tools for
           Research*
MS 6xxx   Elective-I

Spring Semester

MS 6xxx   Elective-II

MS 6117   Advanced Qualitative Research Methods*
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

FACULTY OF MANAGEMENT SCIENCES

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
MS 6117   Advanced Qualitative Research Methods*

ELECTIVES

Finance
MS 6111   Business Finance and Decision Making
MS 6113   Applied Econometrics
MS 6202   Econometrics
MS 6411   Financial Time Series
MS 6423   Managerial Economics
MS 6323   Corporate Finance
MS 6422   Derivatives and Financial Risk
MS 6315   Capital Asset Pricing Model
MS 6317   Empirical Asset Pricing
MS 6318   Financial Markets
MS 6418   Operations and Mathematical Modeling
MS 6322   Behavioral Finance
MS 6319   Modern Financial Applications
MS 6421   Corporate Finance Planning and
            Decision

Marketing
MS 6204   Strategic Marketing Decisions
MS 6215   Seminars in Marketing
MS 6312   Advance Marketing Strategy
MS 6316   Distribution and Channel Management
MS 6415   Strategic Brand Management

Research
MS 6313   Research writing
MS 6105   Qualitative Tools and Analysis
MS 6102   Quantitative Analysis for Decision
            Making

Human Resource Management
MS 6112   Strategic Human Resource Development
MS 6114   NGO Management
MS 6201   Change Management

MS 6211   Organizational Development
MS 6311   Corporate Governance
MS 6417   Leadership and Motivation Techniques
MS 6314   Global Corporate Strategy
MS 6412   Creative Leadership
MS 6413   International Business Management
MS 6414   Global Governance and Development
MS 6205   Public Administration and Governance
MS 6424   Strategic Management
MS 6416   Negotiations and Conflict Resolution
MS 6324   Issues in Strategic Management
MS 6419   System Thinking and
            Organizational Learning
MS 6321   Organizational Strategies and
            Effectiveness

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.

Course registration is subjected to course offering as per Zabdesk each semester, the above course plan is tentative for basic understanding. Students can register in any number of offered course/s but not exceeding 4 courses (12-credit hours) per semester. Summer is not a regular semester; however, students can register in only one IRS or Dissertation of 3 credit hours or any other course if offered but not exceeding 2 courses (6-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 rudimentary education in Computer Science. 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, security, mobile computing 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		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

CS ELECTIVES

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

UNIVERSITY ELECTIVES

Each campus may offer university electives as per 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 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 the institutional administration 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 Research 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 Research 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 different streams in MS Computer Science program.

Followed by successfully completion of the course work, Comprehensive Examination is required to pass in order 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 BASR.

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 1106   Islamic Studies (2, 0)
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 1204   Engineering Statics (3, 0)
ME 2301   Computer Programming (2, 1)
ME 1207   Engineering Workshop (0, 2)
ME 2306   Pakistan Studies (2, 0)

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 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)

Third Year

Fall Semester

ME 3501   Engineering Mathematics–V:
          Numerical Methods (3, 0)
ME 3502   Fluid Mechanics (3, 1)
ME 3503   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)

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

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 3604   Machine Design (3, 0)
ME 4705   Mechatronics System Design (3, 1)
ME 1205   Technical Writing Skills (2, 0)
ME 3607   Solid Modeling (0, 1)

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 (2, 0)
ME 4708   Final Year Project* (0, 3)
ME 4706   Professional Practices (2, 0)

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 4727   Digital Control Systems
ME 4826   Embedded Systems
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 EDUCATION & SOCIAL SCIENCES

FACULTY OF EDUCATION & SOCIAL SCIENCES

SZABIST prepares students for managerial careers in Social Science. 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 Education.

FACULTY OF EDUCATION & SOCIAL SCIENCES

BS Social Sciences

To obtain a BS degree in Social Sciences, 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 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 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
SS 1254	World History
SS 1262	Mass Media
SS 1163	Development and Politics
SS 1263	Culture and Media in Sindh

FACULTY OF EDUCATION & SOCIAL SCIENCES

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
SS 4197   The Sociology of Religion

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

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

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

FACULTY OF EDUCATION & SOCIAL SCIENCES

SS 4228   History of Economic Thought
SS 4249   Pakistan Economy
SS 4251   Sustainable Development

All courses may not necessarily be offered in 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 7 courses, 1 Independent Research Studies (IRSs), and 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*
- 1 Independent Research Study (IRS)
- 5 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 5xxx   Elective-III
SS 5125   Independent Research Study
SS 5xxx   Elective-IV
SS 5xxx   Elective-V

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
SS 5327   Development Economics &
           Sustainability

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

FACULTY OF EDUCATION & SOCIAL SCIENCES

PhD Social Sciences

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 Core Courses* (6 credit hours)
- 3 Elective (9 credit hours)
- 1 Independent Research Study (3 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 6218	Independent Research Study
SS 5xxx	Elective-II
SS 5xxx	Elective-III

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
SS 6112	Development Economics & Sustainability

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 EDUCATION & SOCIAL SCIENCES

DEPARTMENT OF EDUCATION

The Department of Education at SZABIST is committed to improve the quality of education in Pakistan. The institute prepares its students for leadership roles in the field of education to meet the challenges of fast-changing global world, without losing sight of the local context. The emphasis is on fostering a critical awareness about educational issues, the socio-politics of educational policies, curricular and pedagogical decisions and teacher education/faculty development problems. This is achieved through interactive teaching, intensive courses and rigorous research-based assignments and practicum.

Program

The Educational Leadership and Management programs at the Department of Education are designed to meet national and international standards of educational study and research. They are in conformity with the HEC guidelines and cater 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 & SOCIAL SCIENCES

MS Educational Leadership and Management

The MS in Educational Leadership and Management is a 1.5 - 2 years program. It is a 30 credit hour program with 6 courses (3 credit hours each), 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 Information 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 5133	Change Management in Education
ELM 5134	Educational Policy and Politics
ELM 5xxx	Performance Management and Professional Development
ELM 5xxx	School Evaluation and Monitoring
ELM 5131	Teacher Education
ELM 5xxx	Research Philosophy
ELM 5xxx	Testing, Assessment and Evaluation
ELM 5xxx	Finance and Resource Management
ELM 5xxx	Organizational Development

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 support students in finding a suitable place for their internship.

FACULTY OF EDUCATION & SOCIAL SCIENCES

PhD Educational Leadership and Management

The PhD in Educational Leadership and Management program at the Department 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 Information 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 6123	Change Management in Education
ELM 6124	Educational Policy and Politics
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 are required 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.
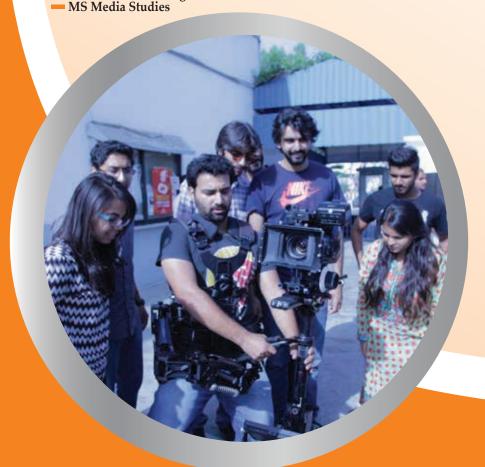
FACULTY OF
MEDIA SCIENCES

FACULTY 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 Faculty 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**

FACULTY OF MEDIA SCIENCES

The Faculty 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
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

FACULTY OF MEDIA SCIENCES

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 4888   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 makes every effort to subsidize these costs in order to minimize financial impact on students.

Students enrolled full time are required to take at least 5 courses in each semester. Students unable to enroll full time should consult the Head of Department and the Program Manager to discuss any accommodation they might need.

All first semester students are required to register for 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 Faculty 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.

FACULTY OF MEDIA SCIENCES

The Faculty 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 Faculty 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 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

Second Year

Fall Semester

MD 5xxx   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 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 health 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 biology, biochemistry and biotechnology.

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 135 credit hours of teaching, 43 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 1101   Cell Biology
BIO 1111   English for General Purposes
BIO 1107   Fundamental Mathematics
BIO 1113   Microbiology-I
BIO 1109   Chemistry

Spring Semester

BIO 1213   Microbiology-II
BIO 2301   Biochemistry-I
BIO 1211   English for Academic Purposes
BIO 1214   Sociology
BIO 1208   Statistics
BIO 1212   Islamic studies/Ethics & Pakistan Studies

Second Year

Fall Semester

BIO 1206   Physiology-I
BIO 2411   English for Professional Purposes
BIO 2401   Biochemistry-II
BIO 1104   Introduction to Computing
BIO 3504   Immunology

Spring Semester

BIO 2305   Physiology-II
BIO 2404   Lab Management
BIO 4803   Molecular Biology

BIO 2409   Humanities
BIO 3503   Genetics

Third Year

Fall Semester

BIO 2406   Genetic Engineering
BIO 3507   Biotechnology-I
BIO 2405   Hematology
BIO 4801   Bioethics
BIO 3505   Pharmacology-I
BIO 2306   Psychology

Spring Semester

BIO 2407   Basic Endocrinology
BIO 3607   Biotechnology-II
BIO 3601   Agriculture Science
BIO 2304   Nutrition and Dietetics
BIO 3605   Pharmacology-II
BIO 4703   Research Methodology

Fourth Year

Fall Semester

BIO 4804   Research Report
BIO 2309   Animal and Plant Tissue Culture
BIO 2402   Bioinformatics
BIO 4xxx   Elective-I
BIO 4xxx   Elective-II

FACULTY OF BIOSCIENCES

Spring Semester
BIO 2403   Environmental Science
BIO 4802   Biophysics
BIO 4701   Business Management
BIO 3509   Epidemiology
BIO 4xxx   Elective-III
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 of 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 or 2 Independent Research Studies (IRS) of 3 credit hours each. 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 5303   Medical Ethics
MPH 5304   Medical Genetics
MPH 5305   Medicine and Law
MPH 5409   Thesis

Spring Semester
MPH 5302   Health promotion
MPH 5306   Maternal and Child Health
MPH 5401   Health Policy
MPH 5402   International Health
MPH 5403   PPP and NGO Management

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

INTERNATIONAL PROGRAMS

Bachelor of Law (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.

Bachelor of Arts in Business Studies (BA Hons)
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

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 with minimum 2nd division (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.
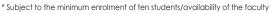
INTERNATIONAL PROGRAMS

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
Property 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
Administrative Law

 * Subject to the minimum enrolment of ten students/availability of the faculty

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

INTERNATIONAL PROGRAMS

Bachelor of Arts in Business Studies (BA Hons)

Admission Requirements

The candidate must have completed O-Levels (minimum 8 passes) and A-levels (minimum 3-passes)/12th Grade/Intermediate with minimum 50% marks or equivalent from a recognized institution.

Equivalency from Inter Board Committee of Chairmen, (IBCC) is required for O & A Levels/High School Diploma/IB Diploma or equivalent.

First Semester

BA 1101	Introduction to Accounting
BA 1102	Microeconomics
BA 1103	Introduction to Computers
BA 1104	Personal Management
BA 1206	Oral Communication and Presentation Skills
BA 1204	Math for Business

Second Semester

BA 1201	Financial Accounting
BA 1202	Macroeconomics
BA 1203	Management Principles
BA 1105	English Writing Skills
BA 2305	Statistics and Mathematics for Business
BA 3604	Computer Programming for Managers

Third Semester (Summer)

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

Fourth Semester

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 2016-17 (Karachi Campus)

ACADEMIC CALENDAR 2016-17 (Karachi Campus)

FALL 2016

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	
September 14, 2016	IS Thesis Advisors Meeting
January 14, 2017	Independent Research Study Presentations for MS/PhD students
January 28, 2017	Comprehensive Exam

Classes commencing date

Classes will commence on September 05, 2016 at Karachi, Larkana & Hyderabad Campuses.

ACADEMIC CALENDAR 2016-17 (Karachi Campus)

SPRING 2017

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	
February 11, 2017	New Faculty Meeting /Orientation
August 13, 2017	Independent Research Study Presentations for MS/PhD students
August 26, 2017	Comprehensive Exam

Classes commencing date

Classes will commence on February 06, 2017 at Karachi Campus.
Classes will commence on January 23, 2017 at Hyderabad & Larkana Campuses.

PROGRAMS AVAILABILITY AT DIFFERENT CAMPUSES OF SZABIST (FALL 2016)

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 of 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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