**SZABIST**
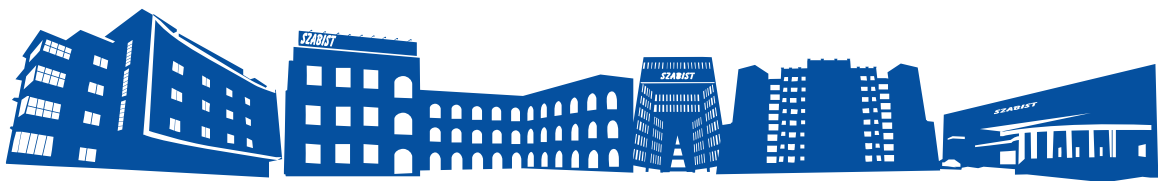
Discover
Yourself

# Prospectus
# 2017

**Shaheed Zulfikar Ali Bhutto Institute of Science & Technology**
Karachi - Islamabad - Larkana - Hyderabad - Dubai

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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# CONTENTS

# 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 institutions 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 high quality tertiary education and research to the youth in different areas of Pakistan, SZABIST, now has four campuses-Karachi, Islamabad, Larkana and Hyderabad, and an overseas campus in Dubai, UAE.

At SZABIST, you will become part of a community that believes research is an integral part of academic excellence. We encourage 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 afford-able for all of its students. In order to augment over all 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 education being imparted.

SZABIST is investing considerable resources for renovation and upgradation of its infrastructure and acquisition of additional physical facilities for its campus. A "Library Hub" is being established to fulfill emerging research and academic requirements.

As I welcome the new students, I encourage them to strive for excellence, develop freedom of thought and speech, and while they equip themselves with 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 to discover themselves whilst focusing on their professional goals. So I wish you success in your years at SZABIST.

**Dr. Azra Fazal Pechuho**
Chancellor
SZABIST

# PRESIDENT'S MESSAGE

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

Over the past 21 years, SZABIST's national and international market reputation has been significantly enhanced. This is evident from the increased enrollment of about 11,000 students in its five campuses-Karachi, Larkana, Hyderabad, Islamabad, and Dubai (UAE).

SZABIST, guided by the vision of its Founding Chancellor, Shaheed Mohtarma Benazir Bhutto, is today a leading higher education institution for the youth of Pakistan aspiring for a high quality, relevant education. Our diversified academic portfolio offers a range of courses in 8 Bachelors, 13 Masters and 4 Doctoral level programs in the field of Management, Computing, Social Sciences, Media, Engineering, Biosciences, Public Health, Education and Law. This prospectus provides you with comprehensive information about our programs. The Institute, in compliance with the requirements of Higher Education Commission, has developed curricula which not only relates to prevailing market demand but also prepares students with the knowledge and skills for the future needs of Pakistan's growing economy.

We are proud of our competent faculty and professionals who teach according to rigorous academic standards, evolving market requirements and provide a supportive environment for personal development. In addition to a wide spectrum of disciplines as presented in this Prospectus, SZABIST also offers exciting opportunities for co-curricular activities. Our Student societies organize debates, drama, sports competitions, guest speaker sessions, workshops, and build networks with the Alumni and renowned companies for assistance in job placements.

Moreover, at 94% SZABIST has one of the highest ranking Quality Enhancement Cells (QECs) amongst Pakistani universities. Quality assurance measures are rigorously applied through tools such as Program Self-Assessment Reports, feedback of relevant stakeholders, publications and fulfilling documentary requirements of the regulatory authorities.

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**
President
SZABIST

# VICE PRESIDENT'S (ACADEMICS) MESSAGE

Welcome and thank you for your interest in SZABIST, which is a 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 diversfied areas of learning, such as Management Sciences, Computer Science, Media Sciences, Biosciences, Education & Social Sciences, Mechatronic Engineering and Law. SZABIST 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.

Our students, called SZABISTIANS, feel pride belonging to 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 all our academics and campus activities to ensure efficient working environment. We follow all prescribed quality education standards through ongoing and systematic assessments round the year. We have been continuously getting more than 90% score during the last five years by QEC/HEC.

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

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 all types of research activities.

Being an academician, I know the significance of providing "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 welcome you once again and wish you success. Selecting SZABIST as your career-building institution, I assure you that you will be groomed and nurtured for meeting your future career challenges after completion of your academic degree program.

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

# VICE PRESIDENT ADMINISTRATION & FINANCE MESSAGE

Welcome to Shaheed Zulfikar Ali Bhutto Institute of Science and Technology. Here you will be provided an academically and professionally rewarding experience which will help build your character and personality.

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

We look forward in journeying with you through our highly qualified faculty and state-of-the-art facilities conducive to learning & development an exciting period where you will enjoy excellence in the respectful and caring environment of 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), National Accreditation Council for Teacher Education (NACTE), and Pakistan Engineering Council (PEC).

SZABIST comprises five campuses located in Karachi, Hyderabad, Larkana, Islamabad and Dubai with a current student population of over 11,000. SZABIST has proudly awarded degrees to over 13,000 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, Education & Social Sciences, Mechatronic Engineering and Biosciences. In addition, SZABIST offers LLB program as an external program in affiliation with University of London, UK. SZABIST also offers its BABS program as a top-up program in affiliation with leading universities of UK. In order to further diversify SZABIST's portfolio, MS and PhD programs in Educational Leadership and Management have been introduced from Fall-2015.

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, NECTE and PEC. Furthermore, the programs offered at Dubai Campus are recognized by Knowledge Human and Development Authority (KHDA) Dubai, United Arab Emirates (UAE). Since 2012, the SZABIST-QEC has been awarded more than 91% in the quantitative assessment by Quality Assurance Agency (QAA) HEC, Pakistan.

The institute has signed MoUs with various reputable and distinguished organizations and institutions such as, Istanbul Medipol University, Turkey; University of London, UK; Association of Chartered Certified Accountants (ACCA), British Council, and Cisco Networking Academy.

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 Sciences, Computer Science, Education & Social Sciences, Media Sciences, Mechatronic Engineering, 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.

# INTRODUCTION

# 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 (BBA)

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

### Bachelor of Sciences Accounting & Finance (BS A&F)

SZABIST offers a four-year (eight semesters) Bachelor of Sciences (Accounting & Finance) program, consisting of 46 Courses (six courses per semester) and a 6 credit hours Research Project. Students have to complete 144 credits to obtain the BS Accounting & Finance (BS A & F) degree along with six weeks of internship. The maximum time limit to complete the degree program is seven years. Those who complete BS (A&F) from SZABIST will get an exemption in ACCA papers F1 through F9 (except F6).

### BA (Hons) in Business Studies

SZABIST offers a three-year BA (Hons) degree in Business Studies from the Coventry University UK. Students who complete two years at SZABIST will proceed to complete the third year from Coventry University UK and earn an international degree. Students can also complete BABS degree at SZABIST by opting for the 3rd & 4th year of BABS program.

### Bachelor of Science Entrepreneurship (BSE)

SZABIST offers a four-year (eight semesters) BS Entrepreneurship degree program of 144 credit hours. For the BS in Entrepreneurship program, the students are required to complete 45 courses and 9 credit hours Capstone Project. The courses include 41 compulsory courses and 4 electives. To obtain the BS Entrepreneurship degree, students have to complete 144 credit hours and 2 apprenticeships. Maximum time limit to complete the BS in Entrepreneurship (BSE) degree is seven years.

### Bachelor of Computer Science (BS CS)

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 (BE ME)

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 i.e., World Class rating by Chartered Inspection & Evaluation Committee (CIEC) Sindh. SZABIST is pioneer University to offer 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 (BS SS)

SZABIST offers a four-year (eight semesters) BS Social Sciences degree with majors in Psychology, Sindh Studies, Anthropology, Political Science, 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

# PROGRAMS & CURRICULA

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 Bio)

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 6 credit hours research project. The maximum time limit to complete the BS degree is 7 years.

### Bachelor of Business Studies (BBS)

SZABIST offers a two-year BBS (Bachelor of Business Studies) degree program of 72 credit hours. For the BBS program, the students are required to complete 22 courses and a 6 credit hours Research Project. The courses include 19 compulsory courses and 3 electives. To obtain the BBS degree, the students have to complete 72 credit hours and a six weeks internship. The maximum time limit to complete the Bachelor of Business Studies is four years.

### Executive Master of Business Administration (EMBA)

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 consists of 66 credit hours. Twenty courses, one Business Project (3 credits hour) and one Research Project (3 credits) are required to graduate. Maximum time limit to complete the EMBA degree is five years.

### Masters of Business Administration (MBA)

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 Manage-

ment, 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 five 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 credit hours) and Business Research Project (6 credit hours) OR Academic Research Project (6 credit hours) OR Thesis (6 credit hours). Students are also required to complete a six weeks internship to fulfill degree requirements. The maximum duration to complete MBA is five years.

### MBA (72 credit-hour program)

This program is designed for students having a four-year non-business bachelor degree (e.g. BS-CS, BE etc.) or 16 years of education in different disciplines. The duration to complete this program is 2.5 years. Twenty-two courses (66 credit hours) and Business Research Project (6 credit hours) OR Academic Research Project (6 credit hours) OR Thesis (6 credit hours) are required to complete the program. Students are also required to undertake a six weeks internship. The maximum duration to complete program is five years

### MBA Banking & Finance (36 credit-hour program)

This program is developed for students with a four-year BBA or BS (A&F) degree. The duration of the MBA (B&F) is 1.5 years. Ten MBA courses (30 credit hours), a Business Research Project (6 credit hours) OR an Academic Research Project (6 credit hours) OR Thesis (6 credit hours) are needed to graduate. Students are also required to complete a six weeks internship to fulfill degree requirements. The maximum duration to complete this degree is five years.

### Masters in Human Resource Management (MHRM)

MHRM is one year degree program consisting 33 credit hours. It is developed for professionals having four-year bachelor degree / 16 years education and interested to acquire the domain knowledge. The program can be completed in one year. Ten courses (30 credit hours) and one Industry Project (3 credit hours) are needed to graduate. The maximum duration to complete this degree is five years.

# PROGRAMS & CURRICULA

## Master in Project Management (MPM)

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

## Master of Advertising (MoA)

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 prepare 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)

MPH at SZABIST is a two-year program spread over four semesters and consists of 60 credit hours of teaching. The curriculum includes 19 courses of 3 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.

## MA Education (MA Edu)

MA Education is a 2 years degree program offered to candidates who wish to pursue teaching as their career. It is a 63 credit hour program with 16 compulsory courses (3 credit hours each), 4 electives (3 credit hours each), and an Action Research Project (3 credit hours). The candidates will have the opportunity to specialize in the fields of Teacher Education, Educational Leadership and Management or Early Childhood Education.

## Master of Science - Project Management (MSPM)

SZABIST offers MS in Project Management (MSPM) program which is equivalent to MPhil. The program laying the foundation for students planning to pursue doctoral studies, 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 more elective courses in lieu of research thesis. The maximum time limit to complete the MSPM degree is five years and minimum time to complete is 1.5 years. All MSPM Students are required to clear GRE or GAT General Test with minimum 50% score.

## Master of Science - Management Sciences (MSMS)

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 more elective courses in lieu of research thesis. The maximum time limit to complete the MS degree is 5 years and the minimum time to complete is 1.5 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 (MS CS)

SZABIST offers MS (CS) degree in three domains: Core Computer Science area and in two specialization tracks, i.e., Software Engineering (SE) and Networks and Security (N&S). 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 (MS MD)

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 IRS. Students must also pass GAT (General) with a minimum 50% score. All students must complete their degree within 5 years.

# PROGRAMS & CURRICULA

## Master of Science - Social Sciences (MS SS)

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 (MS ELM)

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 Bio)

MS Biosciences at SZABIST is a two-year program spread over four semesters and consists 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 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.

# ADMISSION REQUIREMENTS

**NOTE:**

- All applicants will be required to appear in an 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 mandatory 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.
- Equivalency of international degrees 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).

## BACHELOR 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

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.

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

### Bachelor of Business Studies (BBS)

For admission in the BBS program, the candidate must possess 14 years education with minimum 55% marks/ 2.5 CGPA from a university recognized by the Higher Education Commission (HEC).

## MASTER DEGREE PROGRAMS

### Executive MBA

For admission in the EMBA program, the candidate must possess a Bachelors degree with minimum 50% marks/ 2.5 CGPA 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 2.5 CGPA 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 2.5 CGPA or 16 years of education with 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, BS (A&F) or relevant business degree with minimum 2.5 CGPA from a university recognized by the Higher Education Commission (HEC).

### Masters in Human Resource Management (MHRM)

The applicant must possess a minimum of sixteen years of education from HEC recognized educational institute with minimum 55% marks/2.5 CGPA. Relevant work experience of minimum 2 years will also be required for admission in this program.

# ADMISSION REQUIREMENTS

### Master in Project Management (MPM)

For admission in the MPM program, the applicant must possess a minimum of sixteen years of education/4-year Bachelor/Master's degree from an HEC recognized educational institute with minimum 55% marks/ 2.5 CGPA.

### Master of Advertising (MoA)

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

### Master of Public Health (MPH)

For admissions in the MPH program, candidates must possess 16 years of education or 4 years of education after H.S.C. (Intermediate) in any field of biological sciences with minimum 50% marks/2.5 CGPA from a university recognized by HEC and/or accredited by PMDC. Applicants with MBBS, BDS, B-Pharm degrees or Masters in Biological, Social and allied sciences with minimum 50% marks/2.5 CGPA are eligible to apply. GAT General with minimum 50% score is mandatory for MPH students.

### MA Education (MA Edu)

The candidate must have 14 years of education with minimum 55% marks/2.5 CGPA from a university recognized by HEC.

### Master of Science - Project Management (MS PM)

For admission in the MSPM program, the applicant must possess a minimum of 16 years of education/ 4 year Bachelor/Master with minimum 2.5 CGPA 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 (MS ELM)

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

### Master of Science - Media Studies (MS MD)

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/2.5 CGPA from a university recognized by HEC. Candidates are also required to pass GAT General with minimum 50% score.

### Master of Science - Biosciences (MS Bio)

For admissions in the Biosciences program, candidates must possess 16 years of education in any field of life/biological sciences with minimum 50% marks/2.5 CGPA 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/2.5 CGPA 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.

# ADMISSION REQUIREMENTS

- Clearing progress seminar(s).
- Clearance from external examiners.
- Dissertation Defense (Open Seminar).

Two interdisciplinary courses can be allowed with the approval of both relevant Program Managers subject to the relevancy of courses.

## Comprehensive Examination

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

## Research Proposal

The candidate shall prepare a research proposal under the guidance of research supervisor. The first registration in Dissertation will be of 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.

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 bachelors programs, 50% score of GMAT for Master Programs, 600 score of GMAT for EMBA, GAT (General)/GRE with minimum 50% score for MS programs and GAT (subject) with minimum 60% score for all PhD programs.

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.

- 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 & MoA 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
- 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
- Khairpur Poverty cum Merit 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 securing admission.

# LIFE AT SZABIST

## FACILITIES

### Video Conferencing

SZABIST is the first educational institute in Pakistan that introduced multi-way interactive Video Conferencing (VC) technology in 2001. SZABIST regularly uses VC technology in interactive learning sessions between Dubai, Islamabad, Larkana, Hyderabad and Karachi Campuses as well as in conducting seminars, lectures 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 regulary. These seminars and lectures are in cont inuation 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 revamped with brand new labs space, furniture and latest machines with giga bite network connectivity to cater 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 24x7 broadband connectivity of 128 Mbps Committed bandwidth to the internet and intranet. SZABIST is Wi-Fi enabled since 2002. Two new computer labs are added to the existing labs infrastructure. 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

# LIFE AT SZABIST

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 high emphasis on research and development and devotes conscious efforts to promote 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 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.

## Board of Advanced Studies and Research (BASR)

SZABIST has constituted Board of Advanced Studies and Research (BASR), preordained to monitor the progress of MS and PhD students' research work. BASR is authorized to approve the recommendations and proposals given by Research Committee (RC) and Doctoral Committee (DC). 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 by-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 (EDC)

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 compile 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 in 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.

### ZAB FM 106.6
SZABIST has a full-fledged set up for broadcasting educational and infotainment programs through its in house broadcasting station tuned at 106.6 MHz 24/7 at Karachi, Islamabad and Larkana.

# LIFE AT SZABIST

## ZAB Solutions

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

Following are the objectives of SZABIST Incubator under the guidance of ZAB Solutions:

1. Provide a practical framework for knowledge and technology transfer to the students.
2. Develop the confidence and competencies for building software and technology enterprise.
3. Involve students in software research and development.
4. Provide high quality research and constancy services as a resource for companies.
5. Enhance partnerships between the Industry and the Academia.
6. Provide faculty and the students with innovative support facilities.

Many projects are currently under development at the incubator.

## 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), Malaysia
8. The Talloires Network, USA

9. Management Association of Pakistan (MAP), Karachi
10. Marketing Association of Pakistan (MAP), Karachi
11. 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. Coventry University**
Under the agreement, Coventry University 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.

**2. The Citizen Foundation**
As part of social responsibility, SZABIST and TCF have collaborated to facilitate TCF students with admission fee waiver, and scholarship opportunities to study in any of SZABIST degree programs.

**3. Emirates**
This MoU allows SZABIST students, faculty & staff to benefit from 5% & 10% discounts on booking a flight with Emirates Airlines to specified destinations.

**4. EDUCAST (Pvt.) Limited**
Under this Agreement SZABIST and EDUCAST will work towards developing projects through funding from Local and International Donors to establish Innovative services for using information and communication technology in development of robotics for education and Training.

**5. Istanbul Medipol University**
This MoU will present numerous opportunities to SZABIST for initiating mutually-rewarding R&D projects, and student & faculty exchange programs.

**6. Searle Company Limited**
Searle through this MoU aims to recruit SZABIST

# LIFE AT SZABIST

graduates in an one-year rotational intensive management trainee program. The program will prepare students to gain entry in the job market with the required practical and vocational skills.

**7.  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

**8.  Sindh Police**
This MoU is aimed at providing complete tuition fee waiver to the children of Shaheed police officers who successfully secure admission in SZABIST.

**9.  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.

**10.  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.

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

**12.  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.

**13.  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.

**14.  Organization of Pakistani Entrepreneurs of North America (OPEN)**
The MoU pertains to jointly establishing a student

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

**15.  University of London**
SZABIST is a registered center of University of London for giving tuitions for its LLB program.

**16.  CISCO Networking Academy**
SZABIST Karachi Campus is an authorized CISCO Network Academy to conduct IT-essentials, CCNA routing & switching, and CCNA security certifications.

**17.  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.

**18.  Project Management Institute Islamabad Chapter**
The objective of this agreement is to promote project management awareness and collaborate with academia to nurture young professionals as well as project management practices.

# 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, MIS 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.

## Vision

SZABIST Management Science Department aspires to become one of the leading business schools in the country for excellence in education and service, distinction in research and innovation.

## Mission

SZABIST Business School is committed to:

- Produce highly qualified business professionals to meet dynamic and challenging contemporary needs.
- Create scientific knowledge and expertise for business and economic solutions.
- Build sustainable environment for corporate and entrepreneurial mindset .
- Serve the community through student, faculty, and alumni collaboration.

# 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 3506 | Foreign Languages |
| BA 3519 | Current Affairs |
| BA 3613 | World Economy |
| BA 3614 | Business Analysis and Forecasting* |
| BA 3619 | Enterprise Management |
| BA 4701 | Islamic Banking and Finance* |
| BA 4707 | Marketing Research* |
| BA 4842 | Graphic Design for Multimedia* |
| BA 4827 | Professional Development |

**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 |
| BA 4866 | Integrated Marketing Communications |

**Supply Chain Management**

| | |
|---|---|
| BA 4116 | Supply Chain Management |
| BA 4126 | Trade Marketing |
| BA 4211 | Production Management |
| BA 4702 | Total Quality Management |
| BA 4739 | Export Marketing |
| BA 4742 | Customer Relationship Management |
| BA 4764 | Dynamics of Logistics and Distribution |
| BA 4824 | Sales Management |
| BA 4844 | Operations Research |
| BA 4859 | Product Innovation and Design |
| BA 4766 | Purchase Management |

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

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

**Research Project (BA 4807) 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.

# FACULTY OF MANAGEMENT SCIENCES

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

**Internship**

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

## BS (ACCOUNTING & FINANCE)

BS (A&F) is a four years (eight semesters) program and consists of 144 credit hours of teaching. Students are required to complete 46 courses and a 6 credit hours of final year project along with six weeks of internship to graduate. Students completing BS (A&F) will get an exemption in ACCA modules F1, through F9, except F6. The maximum duration to complete this program is seven years.

### First Year

**Fall Semester**

| | |
|---|---|
| AF 1101 | Business Mathematics |
| AF 1102 | Computer Concepts and Applications |
| AF 1104 | Introduction to Financial Accounting |
| AF 1105 | Pakistan Studies |
| AF 1203 | Communication Skills |
| AF 1205 | Islamic Studies/Humanities |

**Spring Semester**

| | |
|---|---|
| AF 1103 | English Comprehension |
| AF 1106 | Principles of Management |
| AF 1201 | Advanced Financial Accounting |
| AF 2303 | Introduction to Psychology |
| AF 2304 | Introduction to Sociology |
| AF 2405 | Principles of Microeconomics |

### Second Year

**Fall Semester**

| | |
|---|---|
| AF 1202 | Calculus for Business Studies |
| AF 1206 | Principles of Marketing |
| AF 2302 | Cost Accounting |
| AF 3503 | Business Ethics |
| AF 3505 | Principles of Macroeconomics |
| AF 4703 | Introduction to Business Finance |

**Spring Semester**

| | |
|---|---|
| AF 2301 | Business and Technical English Writing |
| AF 2305 | Organizational Behavior |
| AF 2401 | Management Accounting |
| AF 2402 | Management Information Systems |
| AF 2404 | Money and Banking |
| AF 2406 | Statistics and Probability |

### Third Year

**Fall Semester**

| | |
|---|---|
| AF 3501 | Accounting and Financial Information Systems |
| AF 3502 | Auditing |
| AF 3506 | Statistical Inference |
| AF 3603 | e-Commerce |
| AF 3606 | Taxation |
| AF 3608 | Islamic Banking and Finance |

**Spring Semester**

| | |
|---|---|
| AF 1204 | Introduction to Human Resource Management |
| AF 2403 | Marketing Management |
| AF 3607 | Corporate Accounting |
| AF 4701 | Business and Labor Law |
| AF 4702 | Financial Management |
| AF 3609 | Business Research Methodologies |

### Fourth Year

**Fall Semester**

| | |
|---|---|
| AF 4708 | Financial Risk Management |
| AF 4704 | Islamic Financial System |
| AF 4707 | Company Law |
| AF 4801 | Corporate Finance |
| AF 4804 | Investment Analysis and Portfolio Management |
| AF 4805 | Management of Financial Institutions |

**Spring Semester**

| | |
|---|---|
| AF 2306 | Pakistan Economic Policy |
| AF 3504 | Entrepreneurship and Small Business Management |
| AF 3605 | Financial Reporting |

# FACULTY OF MANAGEMENT SCIENCES

AF 4808    Final Project
AF 4803    International Financial Management

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

### Internship

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

## BABS

SZABIST offers a 3 year BA (Hons) degree in Business Studies from the Coventry University. Students who complete two years at SZABIST will proceed ahead to complete the third year from Coventry University and earn an international degree.

Students can also complete the BABS degree at SZABIST by opting for the 3rd and 4th year of BABS program. Those who opt for this continuation program will then stay in this program and will not be allowed to transfer to any other program. The maximum duration to complete this degree is seven years.

### 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.

### First Year

**Fall 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    Maths for Business

**Spring 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 2312    Human Behavior

**Summer Semester**
BA 2301    Introduction to Business Finance
BA 2302    Graphic Design in Multimedia Presentations

### Second Year

**Fall 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

**Spring 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

### Third Year

**Fall 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
BA 1207    Introduction to Logic

**Spring 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

# FACULTY OF MANAGEMENT SCIENCES

## Fourth Year

### Fall 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

### Spring Semester
BA 4807   Research Project
BA 4827   Professional Development
BA 4814   Project Management
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.

## BS Entrepreneurship

SZABIST offers a four-year (eight semesters) BS Entrepreneurship degree program of 144 credit
hours. For the BS Entrepreneurship program, the students are required to complete 45 courses and
a 9 credit hours Capstone Project. The courses include 41 compulsory courses and 4 electives. To
obtain the BS Entrepreneurship degree, students have to complete 144 credit hours and 2 apprenticeships.
Maximum time limit to complete the BS Entrepreneurship degree is seven years.

## First Year

### Fall Semester
EN 1103   Introduction to Accounting
EN 1105   Islamiat and Pakistan Studies
          /Humanities
EN 1102   Computer Applications in Business
EN 1104   Introduction to Human Behavior
EN 1101   Business Mathematics and Calculus
EN 1106   Oral and Written Communication

### Spring Semester
EN 1203   Introduction to Sociology
EN 1201   Accounting for Business Operations
EN 1205   Microeconomics
EN 1202   Business and Electronic
          Communication
EN 1206   Personal Management
EN 1204   Management Principles

## Second Year

### Fall Semester
EN 2303   Macroeconomics
EN 2302   Logic and Critical Thinking
EN 2301   Introduction to Business Finance
EN 2305   Marketing Principles
EN 2304   Managerial Statistics
EN 2306   Organizational Behavior

### Spring Semester
EN 2405   Media Management
EN 2404   Introduction to Entrepreneurship

EN 2401   Business and Labour Laws
EN 2403   Consumer Behavior
EN 2406   Operations Management
EN 2402   Business Ethics

## Third Year

### Fall Semester
EN 3502   Business Plan Development
EN 3501   Business Analysis and Forecasting
EN 3503   Entrepreneurial Marketing
EN 3504   Finance and Taxation for Entrepreneurs
EN 3506   Sustainability and Technology
EN 3505   Marketing Research

### Spring Semester
EN 3609   Capstone Project-I
EN 3603   Launching a Venture
EN 3602   Human Resource Management
EN 3605   Product Innovation and Design
EN 3601   Analysis of Pakistani Industries
EN 3604   Logistics and Supply Chain Management

## Fourth Year

### Fall Semester
EN 4709  Capstone Project-II
EN 4701  Issues in Pakistan's Economy
EN 4702  Financing a Venture
EN 4703  Emerging Media
EN 4xxx  Elective-I
EN 4xxx  Elective-II

# FACULTY OF MANAGEMENT SCIENCES

**Spring Semester**
EN 4809    Capstone Project-III
EN 4801    Business Policy and Design
EN 4802    Innovative Business Models
EN 4803    SME Management
EN 4xxx    Elective-III
EN 4xxx    Elective-IV

**Electives**
EN 4xxx    Mergers and Acquisition
EN 4xxx    Legal Framework for Entrepreneurs
EN 4xxx    Trade and Retail Management
EN 4xxx    Export Marketing
EN 4xxx    Services Marketing
EN 4xxx    Business Development
EN 4xxx    Social Entrepreneurship
EN 4xxx    Technopreneurship
EN 4xxx    Intrapreneurship
EN 4xxx    Agribusiness Management
EN 4xxx    Family Business Management
EN 4xxx    Women Entrepreneurship and
                 Leadership

EN 4xxx    Crisis Management
EN 4xxx    Managing and Growing a Business
EN 4xxx    Creativity and Business
EN 4xxx    Applied Game Theory
EN 4xxx    Executive Leadership

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

**Apprenticeship**
It will be mandatory for students to have two 6-week apprenticeships with two different entrepreneurs working in their area of interest. During apprenticeship students will have an insider's look at the various businesses and be mentored by some of the most successful entrepreneurs to supplement their curriculum learning.

## Bachelor of Business Studies

SZABIST offers a two year BBS (Bachelor of Business Studies) degree program of 72 credit hours. For the BBS program, the students are required to complete 22 courses and a 6 credit hours Research Project. The courses include 19 compulsory courses and 3 electives. To obtain the BBS degree, the students have to complete 72 credit hours and an internship. The degree needs to be completed within four years.

### First Year

**Fall Semester**
BST 1103    English Writing Skills
BST 1104    Financial Accounting
BST 1101    Business Management and Ethics
BST 1106    Personal Management
BST 1105    Microeconomics
BST 1102    Computer Orientation & Packages

**Spring Semester**
BST 1204    Macroeconomics
BST 1205    Marketing Principles
BST 1201    Business Communication
BST 1206    Statistics and Mathematics
                 for Business
BST 1203    Introduction to Business Finance
BST 1202    Cost Accounting

### Second Year

**Fall Semester**
BST 2301    Business Research Methods
BST 2303    Human Resource Management
BST 2306    Statistical Inference
BST 2302    Financial Management
BST 2305    Marketing Management
BST 2304    Management Information Systems

**Spring Semester**
BST 2409    Research Project (6 credit hours)
BST 2401    Law and Taxation
BST 2xxx Elective-I
BST 2xxx Elective-II
BST 2xxx Elective-III

**ELECTIVES**
BST 2xxx Organizational Behavior
BST 2xxx Project Management

# FACULTY OF MANAGEMENT SCIENCES

BST 2xxx  Consumer Behavior
BST 2xxx  Entrepreneurship
BST 2xxx  Supply Chain Management
BST 2xxx  Retail Management
BST 2xxx  Financial Markets and Institutions
BST 2xxx  Service Marketing
BST 2xxx  Operations Management

BST 2xxx  Marketing Research
BST 2xxx  Dynamics of Banking
BST 2xxx  Salary and Compensation
BST 2xxx  Training and Development
BST 2xxx  Performance Appraisal
BST 2xxx  Recruitment and Selection

## Executive Master of Business Administration

The EMBA is a 2-year program spread over six semesters and consists of 66 credit hours of teaching. Twenty courses (60 credit hours), one Business Project (3 credits) and one 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 444     Ethics and Corporate Governance

**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

**Spring Semester**
BE 419     Strategic Management
BE 443     Entrepreneurship and
           Family Businesses
BE 445     Managerial Accounting and Control
BE 4xx     Elective-II
BE 4xx     Elective-III

**Summer Semester**
BE 448     Research Project
BE 449     Operations and Supply Chain
           Management

### ELECTIVES

**Marketing**
BE 432     Services Marketing
BE 436     Retail Management
BE 472     Media Planning and Management
BE 473     Advertising
BE 474     Brand Management
BE 484     Consumer Behavior
BE 491     Customer Relationship Management
BE xxx     Integrated Marketing Communications
BE xxx     Digital Marketing
BE xxx     Emerging Media
BE xxx     Experiential and Content Marketing
BE xxx     Export Marketing
BA xxx     Global Marketing

**Finance**
BE 424     International Banking and Finance
BE 481     Corporate Finance
BE 482     Islamic Banking and Finance
BE 483     Analysis of Financial Statements
BE 487     Portfolio and Investment Management
BE 488     Project Evaluation
BE xxx     Banking Operations
BE 409     Financial Modeling
BE 487     Portfolio and Investment
           Management
BE 477     Treasury and Funds Management

# FACULTY OF MANAGEMENT SCIENCES

**Human Resource Management**

| | |
|---|---|
| BE 427 | Leadership and Motivational Techniques |
| BE 471 | Compensation Management |
| BE 476 | Recruitment and Selection |
| BE 485 | Performance Appraisal |
| BE 486 | Training and Development |
| BE xxx | Conflict Resolution |
| BE xxx | Crisis Management |
| BE xxx | HR Analytics |
| BE xxx | Salary and Compensation |
| BE xxx | Talent Management and Succession Planning |

**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 |
| BE xxx | Advance Manufacturing and TPM in SCM |
| BE xxx | Detailed Scheduling and Planning in SCM |
| BE xxx | Execution and Control of Operations in SCM |
| BE xxx | Supply Chain Finance |

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.

# FACULTY OF MANAGEMENT SCIENCES

## 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) Or Thesis (6 credit hours) are needed to graduate. Students are also required to complete a 6-week internship. The maximum duration to complete this degree is 5 years.

### First Year

**Fall Semester**
BA 5501    Applied Research Methods
BA 5104    Strategic Management
BA 5xxx    Elective-I
BA 5xxx    Elective-II

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

### Second Year

**Fall Semester**
BA 5308    International Business
BA 5208    Strategic Finance
BA 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 2.5-years. Twenty-two courses (66 credits) and Business Research Project (6 credits) or Academic Research Projects (6 credits) or Thesis (6 credit hours) are needed to graduate. Students are also required to complete a six-week internship. 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)

# 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 take Academic Research Project or Business Research Project or Thesis.

## ELECTIVES

### Finance
BA 5131    Advance Financial Management
BA 5132    Analysis of Financial Statements
BA 5133    Corporate Finance
BA 5134    Derivatives
BA 5135    Financial Markets and Institutions
BA 5137    International Banking
BA 5138    Econometrics
BA 5139    Financial Risk Analysis
BA 5151    International Finance
BA 5155    Mergers and Acquisitions
BA 5175    Banking Operations
BA 5179    Commodity Pricing
BA 5184    Financial Product Regulations
BA 5187    Business Analysis and Forecasting
BA 5229    Financial Modeling
BA 5231    Islamic Banking and Finance
BA 5232    Portfolio and Investment Management
BA 5235    Treasury and Funds Management
BA 5244    Investment Banking
BA 5254    Fundamentals of Financial Engineering
BA 5262    Behavioral Finance
BA 5273    Prudential Regulations
BA 5278    Banking Crises and Management
BA 5284    Theory and Practice of Lending
BA 5192    Financial Management Policy
BA 5294    Venture Capital and Private Equity
BA 5298    Financial Reporting and Analysis

### Human Resource Management
BA 5112    Change Management
BA 5118    Compensation Management
BA 5113    Industrial Management and Labor Relations
BA 5114    Leadership and Motivation Techniques
BA 5116    Industrial Relations and Labor Laws
BA 5117    Performance Appraisal
BA 5136    Business Strategy and Policy
BA 5239    HR Policy Development
BA 5152    Event Management
BA 5159    Salary and Compensation

BA 5164    Human Resources Information Systems
BA 5165    Job Analysis and Design
BA 5167    Talent Management and Succession Planning
BA 5172    Entrepreneurial Business Strategy
BA 5185    Leadership Development
BA 5193    HR Operations and Business Partnering
BA 5295    Crisis Management
BA 5196    Conflict Resolution
BA 5213    Project Management
BA 5215    Recruitment and Selection
BA 5216    Training and Development
BA 5285    Performance Management
BA 5292    HR Analytics
BA 5297    Human Capital Development and Analytics
BA 5251    Human Resource Development
BA xxx     Human Resource Audit
BA xxx     Contemporary Issues in Human Resource Management
BA xxx     Human Resource Management and Technology
BA xxx     Corporate Sustainability
BA xxx     Lean Six Sigma Manufacturing
BA xxx     Hospitality and Tourism Management

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

### Marketing
BA 5121    Advertising
BA 5122    Brand Management
BA 5123    Consumer Behavior
BA 5124    Customer Relationship Management
BA 5126    Export Marketing
BA 5127    Global Marketing
BA 5129    Services Marketing
BA 5171    Strategic Advertising
BA 5182    Trade Marketing
BA 5186    Social Marketing
BA 5199    Integrated Brand Communication
BA 5217    Industrial Marketing
BA 5224    Media Planning and Management

# FACULTY OF MANAGEMENT SCIENCES

BA 5225  Personal Selling
BA 5226  Pharmaceutical Marketing
BA 5227  Sales Management
BA 5228  Retail Management
BA 5246  Public Relations
BA 5256  Integrated Marketing Communications
BA 5259  Emerging Media
BA 5264  Interactive Global and Regional
          Marketing
BA 5269  Marketing Intelligence
BA 5281  Digital Marketing
BA 5286  Media Marketing
BA 5293  New Product Development Process
          and Innovation
BA 5296  Rural Marketing
BA 5198  Experiential and Content Marketing
BA 5299  Media Management
BA 5141  Public Relations Management
BA 5xxx  Marketing Practices in Pakistan
BA 5xxx  Marketing Analytics

**Supply Chain Management (SCM)**
BA 5191  Advance Manufacturing and TPM in
          SCM

BA 5194  Supply Chain Finance
BA 5214  Supply Chain Management
BA 5263  Dynamics of Logistics and Distribution
BA 5265  Operational Planning in Supply Chain
BA 5266  Strategic Procurement in SCM
BA 5287  Execution and Control of Operations
          in SCM
BA 5291  Detailed Scheduling and Planning in
          SCM
BA 5xxx  Materials Management

**Internship**
All MBA students are required to complete a 6-week internship. (SZABIST has a separate internship and placement department (EDC) that supports 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.

## MBA Program (Banking & Finance)

MBA (B&F) is a 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) or Thesis (6 credit hours) 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 5273  Prudential Regulations
BA 5235  Treasury and Funds Management
BA 5xxx  Elective-I

**Spring Semester**
BA 5175  Banking Operations
BA 5xxx  Credit Analysis and Appraisal
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.

# FACULTY OF MANAGEMENT SCIENCES

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

**ELECTIVES**

| | |
|---|---|
| BA 5xxx | Asset Management |
| BA 5151 | International Finance |
| BA 5158 | Micro and SME Finance |
| BA 5223 | Marketing of Financial Services |
| BA 5229 | Financial Modeling |
| BA 5231 | Islamic Banking and Finance |
| BA 5255 | Fixed Income Securities |
| BA 5262 | Behavioral Finance |
| BA 5278 | Banking Crisis and Management |
| BA 5294 | Venture Capital and Private Equity |
| BA 5xxx | Capital Markets |
| BA 5xxx | Commercial Banking |
| BA 5xxx | Corporate Investment and Banking |
| BA 5xxx | Corporate Restructuring and Design |
| BA 5xxx | Financial Intermediations |
| BA 5xxx | Financial Planning and Budgeting |

| | |
|---|---|
| BA 5xxx | Financial Systems |
| BA 5xxx | Foreign Exchange Operations and Management |
| BA 5xxx | Banking Insurance |
| BA 5xxx | Information System Audit |
| BA 5xxx | Leasing Strategies and Regulations |
| BA 5xxx | Mergers and Acquisitions in Banking |
| BA 5xxx | Options and Derivatives |
| BA 5xxx | Project Financing |
| BA 5xxx | Theory and Policy of Modern Finance |

**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.

## Masters in Human Resource Management (MHRM)

This Program is comprise of 33 credit hours. The courses are offered in three consecutive semesters. For student with a 4-year graduation /16 years of education, MHRM is one-year evening degree program. The course plan is divided into core courses, elective courses, and a research project.

### First Year

**Fall Semester**

| | |
|---|---|
| HR 5101 | Advanced Recruitment and Selection |
| HR 5204 | Advanced Topics in Organizational Theory and Behavior |
| HR 5322 | Knowledge Management |
| HR 5xxx | Elective -1 |

**Spring Semester**

| | |
|---|---|
| HR 5102 | Advanced Rewards and Performance Management |
| HR 5201 | Advanced Training and Development |
| HR 5203 | International Human Resource Management |
| HR 5319 | Institutional Effectiveness and Global Governance in Human Resource |
| HR 5xxx | Elective 2 |

**Summer Semester**

| | |
|---|---|
| HR 5xxx | Elective 3 |
| HR 5308 | Final Project |

**Electives**

| | |
|---|---|
| HR 5311 | Advanced Topics in Organizational Behavior |
| HR 5312 | Communication Strategies at Workplace |
| HR 5313 | Continuous Professional Development |
| HR 5314 | Employee Engagement Strategies |
| HR 5315 | Employee Relation |
| HR 5316 | Ergonomics at Workplace |
| HR 5317 | Human Resource Information Management |
| HR 5318 | Innovation and Change Management |
| HR 5321 | ISOs Certification |
| HR 5323 | Learning Organization |
| HR 5324 | Organization Restructuring |
| HR 5325 | Organizational Development |
| HR 5326 | QR Strategies and Legality |
| HR 5327 | Quality Assurance Management |
| HR 5328 | Rewards and Performance Management |
| HR 5329 | Supply Chain Management |
| HR 5331 | Talent Management |

# FACULTY OF MANAGEMENT SCIENCES

HR 5332    Total Quality Management
HR 5333    Work and Organization
HR 5334    Workforce Diversity
HR 5335    Workload Balance
HR 5336    Change Management
HR 5337    Strategic Human Resource
           Management

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

### 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 one-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
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.

MPM students may switch to MSPM program before third week of first semester or after first semester, with relevant courses transferred and subject to meeting MSPM admission requirements. This option cannot be exercised in and after second semester.

# FACULTY OF MANAGEMENT SCIENCES

## 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 5xxx | Fundamentals of Project Management |
| MP 5103 | Research Methodology |
| MP 5202 | Quantitative Tools for Research |
| MP 5xxx | Advanced Project Management |

**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.

MSPM students may switch to MPM program after admissions before third week of first semester or after completion of first semester. This option; however, cannot be exercised in and after second semester.

**ELECTIVES**

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

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.

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 credit hours only).

**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.

# FACULTY OF MANAGEMENT SCIENCES

**Master of Science – Management Sciences**

The students are required to complete 8 courses and 2 Independent Research Studies (IRS) with a total of 30 credit hours OR 6 courses, 2 IRS and one Thesis with 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)

There is no specified course load for MSMS program. The courses may be offered irrespective of semester plan given in prospectus depending on student intake and campus requirement.

## First Year

**Fall Semester**

| | |
|---|---|
| MS 5137 | Research Methods and Techniques* |
| MS 5204 | Quantitative Tools for Research* |
| MS 5xxx | Elective-I |
| MS 5xxx | Elective-II |

**Spring Semester**

| | |
|---|---|
| MS 5131 | Qualitative Research Methods* |
| MS 5416 | Research Philosophy* |
| MS 5xxx | Elective-III |
| MS 5xxx | Elective-IV |

## Second Year

**Fall Semester**

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

**Thesis Option**

Students may opt for thesis in lieu of two elective courses. Thesis can be taken once all core courses, two elective courses, and two IRS are completed. Registration in thesis is allowed in two semesters with 3 credit hours per semester.

**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 5113 | Financial Time Series |
| MS 5103 | Managerial Economics |
| MS 5105 | Econometrics |
| MS 5111 | Derivatives and Financial Risk |
| MS 5115 | Operations and Mathematical Modeling |
| MS 5134 | Behavioral Finance |
| MS 5206 | Modern Financial Applications |
| MS 5215 | Corporate Finance |
| MS 5217 | Corporate Finance Planning and Decisions |
| MS 5218 | Financial Markets |
| MS 5237 | Business Finance and Decision Making |
| MS 5414 | Applied Econometrics |
| MS 5421 | Capital Asset Pricing Model |
| MS 5425 | Empirical Asset Pricing |
| MS 5xxx | Seminars in Finance |

**Marketing**

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

**Research**

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

**Human Resource Management**

| | |
|---|---|
| MS 5101 | Change Management |
| MS 5102 | Organizational Development |
| MS 5112 | Strategic Management |
| MS 5202 | Organizational Strategies and Effectiveness |
| MS 5203 | Global Corporate Strategy |
| MS 5205 | International Business Management |
| MS 5211 | Creative Leadership |
| MS 5216 | Corporate Governance |
| MS 5225 | Leadership and Motivation Techniques |
| MS 5229 | Negotiations and Conflict Resolution |
| MS 5238 | Strategic Human Resource Development |
| MS 5241 | Public Administration and Governance |

# FACULTY OF MANAGEMENT SCIENCES

MS 5245   System Thinking and Organizational Learning
MS 5303   Issues in Strategic Management
MS 5415   NGO Management
MS 5423   Global Governance and Development
MS 5xxx   Seminars in HRM

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), Research Philosophy (RP) and Qualitative Research Methods (QRM) are compulsory courses for MS program. Students cannot register in Independent Research Study (IRS) without completing 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 respective program managers.

## PhD (Management Science)

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 6xxx   Elective-I

**Spring Semester**
MS 6117   Advanced Qualitative Research Methods*
MS 6216   Advanced Quantitative Tools for Research*
MS 6xxx   Elective-II

### Second Year

**Fall Semester**
MS 6119   Independent Research Study-I
MS 6219   Independent Research Study-II

**Spring Semester**
MS 6xxx   Dissertation

### Third Year

**Fall Semester**
MS 6xxx   Dissertation

**Spring Semester**
MS 6xxx   Dissertation

### Fourth Year

**Fall Semester**
MS 6xxx   Dissertation

**COMPULSORY COURSES***
MS 6106   Advanced Research Methods and Techniques (ARMT)
MS 6117   Advanced Qualitative Research Methods (AQRM)
MS 6216   Advanced Quantitative Tools for Research (AQTR)
MS 6217   Advanced Research Philosophy (ARP)

# FACULTY OF MANAGEMENT SCIENCES

**ELECTIVES**

**Finance**
MS 6111   Business Finance and Decision Making
MS 6113   Applied Econometrics
MS 6202   Econometrics
MS 6315   Capital Asset Pricing Model
MS 6317   Empirical Asset Pricing
MS 6318   Financial Markets
MS 6319   Modern Financial Applications
MS 6322   Behavioral Finance
MS 6323   Corporate Finance
MS 6411   Financial Time Series
MS 6418   Operations and Mathematical Modeling
MS 6421   Corporate Finance Planning and
          Decision
MS 6422   Derivatives and Financial Risk
MS 6423   Managerial Economics
MS 6xxx    Seminars in Finance

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

**Human Resource Management**
MS 6112   Strategic Human Resource
          Development
MS 6114   NGO Management
MS 6201   Change Management
MS 6205   Public Administration and
          Governance
MS 6211   Organizational Development
MS 6311   Corporate Governance
MS 6314   Global Corporate Strategy
MS 6321   Organizational Strategies and
          Effectiveness
MS 6324   Issues in Strategic Management
MS 6412   Creative Leadership
MS 6413   International Business Management
MS 6414   Global Governance and Development
MS 6416   Negotiations and Conflict Resolution

MS 6417   Leadership and Motivation Techniques
MS 6419   System Thinking and Organizational
          Learning
MS 6424   Strategic Management
MS 6xxx    Seminars in HRM

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 3 courses (9 credit hours) per semester. One extra course can be allowed depending on the approval of program manager. 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.

# 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
CSC xxxx   Interaction Design
CSC 4719   Game Development
CSC xxxx   Introduction to Cloud Computing
CSC xxxx   Software Engineering Economics
CSC 4818   Data Science
CSC xxxx   Embedded System


**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 Research 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 Research 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 Research
           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
CSC xxxx   Operation Research
CSC xxxx   Expert System

### 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
NSC 5xxx   Wireless Sensor Networks

### 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, pre-requisite course must have been taken 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 Ph 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 an 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 Mechatronics. 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
ME xxx     Applied Thermodynamics

**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.

**Community Service Learning Course**
A non credited community service learning course (1,1) will be offered in Summer at the end of 2nd year. This course aims to impart general awareness and knowledge along with social guidance to develop students into socially active citizens.

**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, Anthropology, Political Science, 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 |

### MAJORS

**Psychology**

| | |
|---|---|
| SS 4111 | Abnormal Psychology |
| SS 4112 | Developmental Psychology |
| SS 4134 | Cognitive Psychology |

# FACULTY OF EDUCATION & SOCIAL SCIENCES

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

**Anthropology**
SS 4xxx    Cultural/Social Anthropology
SS 4xxx    Visual, Material and Museum Anthropology
SS 4xxx    Cultural Studies
SS 4xxx    Biological Anthropology
SS 4xxx    Archaeological Anthropology
SS 4xxx    Linguistic Anthropology
SS 4xxx    Cognitive and Evolutionary Anthropology
SS 4xxx    Migration and Refugee Studies
SS 4xxx    Medical and Forensic Anthropology
SS 4xxx    Business and Corporate Anthropology

# FACULTY OF EDUCATION & SOCIAL SCIENCES

SS 4xxx    Human Sciences/ Human Geography
SS 4xxx    Urbanization and Change in Complex
               Societies
SS 4xxx    Earth Sciences/ Geology/ Landscape
               and Ecology
SS 4xxx    Social Analysis and Interpretation:
               Study of Indus Valley Civilization
SS 4xxx    Social Analysis and Interpretation:
               Study of Greco-Roman Civilization
SS 4xxx    History of Art

**Political Science**
SS 4xxx    The Theory of Politics
SS 4xxx    History of Political Thought
SS 4xxx    The Practice of Politics
SS 4xxx    Political Analysis
SS 4xxx    Comparative Government; British
               Politics and Government Since 1900
SS 4xxx    Comparative Politics of Britain and
               Europe and South Asia: A colonial
               /Modern and Post-Modernist view
SS 4xxx    Politics of Asia
SS 4xxx    Politics and Gender
SS 4xxx    Social Anthropology and Politics
SS 4xxx    Politics and International Relations
SS 4xxx    Political Sociology
SS 4xxx    Political Economy/Geographies of
               Development/Development Studies
SS 4xxx    Human Geography
SS 4xxx    Conflict and Peace Building Studies

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.

# FACULTY OF EDUCATION & SOCIAL SCIENCES

## MS Social Sciences

Students are required to complete 6 courses, 2 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 5119   Independent Research Study - I
SS 5219   Independent Research Study - II
SS 5xxx   Elective-IV

### Second Year

**Fall Semester**

SS 5xxx   Thesis/2 additional courses instead of Thesis

**International Relations / Economics**

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 and Sustainability

**Sociology**

SS 5xxx   Sociology of Development
SS 5xxx   Population Dynamics
SS 5xxx   Social Statistics
SS 5xxx   Cultural Anthropology
SS 5xxx   NGO Management
SS 5xxx   Gender and Human Rights
SS 5xxx   Industrial Sociology
SS 5xxx   Law and Human Rights
SS 5xxx   Community Development and Social Mobilization

**Psychology**

SS 5xxx   Perspective in Organizational Psychology
SS 5xxx   Psychological Assessment in Organizational Psychology
SS 5xxx   Psychology of Leadership
SS 5xxx   Organizational Culture & Development
SS 5xxx   Marketing and Consumer Psychology
SS 5xxx   Organizational Conflict and Management
SS 5xxx   Assessment and Diagnosis – I
SS 5xxx   Assessment and Diagnosis – II
SS 5xxx   Psychotherapy and Counseling- I
SS 5xxx   Psychotherapy and Counseling- II
SS 5xxx   Psychophysiology and Psychopharmacology
SS 5xxx   Clinical Internship

*ARMT-I and ARMT-II are mandatory courses for all MS Programs.

# 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)
- 2 Elective (6 credit hours)
- 2 Independent Research Study (6 credit hours)
- 1 Thesis (30 credit hours)

### First Year

**Fall Semester**

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

**Spring Semester**

SS 6119   Independent Research Study - I
SS 6219   Independent Research Study - II
SS 5xxx   Elective-II

**Summer Semester**

SS 6x09   Dissertation

### Second Year

**Fall Semester**

SS 6x09   Dissertation

**Spring Semester**

SS 6x09   Dissertation

**International Relations / Economics**

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 6222   Political Economy in the Global Perspective
SS 6221   Law and Human Rights
SS 6112   Development Economics and Sustainability

**Sociology**

SS 6xxx   Sociology of Development
SS 6xxx   Population Dynamics
SS 6xxx   Social Statistics
SS 6xxx   Cultural Anthropology
SS 6xxx   NGO Management
SS 6xxx   Gender and Human Rights
SS 6xxx   Industrial Sociology
SS 6xxx   Law and Human Rights
SS 6xxx   Community Development and
          Social Mobilization

**Psychology**

SS 6xxx   Perspective in Organizational Psychology
SS 6xxx   Psychological Assessment in
          Organizational Psychology
SS 6xxx   Psychology of Leadership
SS 6xxx   Organizational Culture & Development
SS 6xxx   Marketing and Consumer Psychology
SS 6xxx   Organizational Conflict and Management
SS 6xxx   Assessment and Diagnosis – I
SS 6xxx   Assessment and Diagnosis – II
SS 6xxx   Psychotherapy and Counseling- I
SS 6xxx   Psychotherapy and Counseling- II
SS 6xxx   Psychophysiology and Psychopharmacology
SS 6xxx   Clinical Internship

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 Education 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 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 make informed decisions.

# FACULTY OF EDUCATION & SOCIAL SCIENCES

The MA Education is a 2 years program which aims to develop high quality educators for the 21$^{st}$ century. It is a 63 credit hour program with 16 compulsory courses (3 credit hours each), 4 electives (3 credit hours each), and an Action Research Project (3 credit hours).

The students will have the opportunity to specialize in the fields of Teacher Education, Educational Leadership and Management or Early Childhood Education

The breakup of 63 credit hours is as follows:
- Sixteen compulsory courses (48 credit hours)
- Four elective courses (12 credit hours)
- One Action Research Project (3 credit hours)

## First Year

**Fall Semester**
EDU 5103 Foundations of Education
EDU 5104 Leadership and Management in Educational Context
EDU 5105 Teacher Education
EDU 5101 Classroom Management
EDU 5102 Effective Communication in Education

**Spring Semester**
EDU 5xxx Elective –I
EDU 5203 Ethics and Professional Practices in Education
EDU 5202 Curriculum Development and Planning
EDU 5201 Critical Thinking and Reflective Practices
EDU 5204 School, Community and Teacher

## Second Year

**Fall Semester**
EDU 5xxx Elective –II
EDU 5302 Educational Psychology
EDU 5303 Research Methods and Techniques
EDU 5305 Testing and Evaluation
EDU 5304 Sociology of Education
EDU 5301 Educational Policy and Politics

**Spring Semester**
EDU 5xxx Elective –III
EDU 5xxx Elective- IV
EDU 5402 International Development in Education
EDU 5401 ICT in Education
EDU 5408 Action Research Project

**COMPULSORY COURSES**
EDU 5xxx Foundations of Education
EDU 5xxx Leadership and Management in Educational context
EDU 5xxx Teacher Education
EDU 5xxx Classroom Management
EDU 5xxx Effective Communication in Education
EDU 5xxx Ethics and Professional Practices in Education
EDU 5xxx Curriculum Development and Planning
EDU 5xxx Critical Thinking and Reflective Practices
EDU 5xxx Educational Psychology
EDU 5xxx Research Methods and Techniques
EDU 5xxx Testing and Evaluation
EDU 5xxx ICT in Education
EDU 5xxx Educational Policy and Politics
EDU 5xxx International Development in Education
EDU 5xxx School, Community and Teacher
EDU 5xxx Sociology of Education

**Research Project**
EDU 5xxx Action Research Project

**Electives**
**Teacher Education (TE)**
EDU 5xxx Affective Education
EDU 5xxx Guidance & Counselling in Education
EDU 5xxx Education for Sustainable Development
EDU 5xxx Gender and Education
EDU 5xxx Diversity and Inclusive Education
EDU 5xxx Secondary Education in Pakistan
EDU 5xxx Education in the context of Conflict

**Early Childhood Education (ECE)**
EDU 5xxx Human Development and Learning
EDU 5xxx Language and Literacy Experiences
EDU 5xxx Supportive and Safe Environment
EDU 5xxx Play and Enquiry Based Learning
EDU 5xxx Health & Nutrition in Early Childhood
EDU 5xxx Observation and Assessment in ECE
EDU 5xxx Promoting Pro-Social Behavior

**Educational Leadership and Management (ELM)**
EDU 5xxx Effective Change Management in Education
EDU 5xxx Organizational Development in Education

# FACULTY OF EDUCATION & SOCIAL SCIENCES

EDU 5xxx  Human Resource Management
EDU 5xxx  Entrepreneurship in Education
EDU 5xxx  School Monitoring and Evaluation
EDU 5xxx  Education and Human Rights
EDU 5xxx  Contemporary issues in Educational
           Planning and Policies

Please note that there will be no internship or comprehensive exam in the MA Education program.

## 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, Information Technology, School Administration, Guidance and Counseling and Curriculum Development.

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  Assessment and Evaluation in Education
ELM 5xxx  School Evaluation and Monitoring
ELM 5131  Teacher Education
ELM 5xxx  Research Philosophy
ELM 5xxx  Professional Development and
          Management in Education
ELM 5xxx  Finance and Resource Management
ELM 5132  Organizational Development

# FACULTY OF EDUCATION & SOCIAL SCIENCES

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, Information Technology, School Administration, Guidance and Counseling and Curriculum Development.

## 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 Politics in Educational Contexts |
| ELM 6123 | Change Management in Education |
| ELM 6124 | Educational Policy and Practice |
| ELM 6xxx | Assessment and Evaluation in Education |
| ELM 6xxx | School Evaluation and Monitoring |
| ELM 6121 | Teacher Education |
| ELM 6xxx | Research Philosophy |
| ELM 6xxx | Professional Development and Management in Education |
| ELM 6xxx | Finance and Resource Management |
| ELM 6122 | 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 21$^{st}$ century, media in all its forms, print, TV, radio, film, video, digital, virtual, and mobile has 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

## Bachelor of Media Science

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 |
| 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 4726    Directing I
MD 4728    Directing II
MD 4781    Sound Design
MD 4821    Cinematography
MD 4825    Screenwriting
MD 4859    Introduction to Photojournalism
MD 4872    Visual Storytelling
MD 4868    Production Practices III
MD 4724    Documentary Vision
MD 4764    Production Design
MD 4765    Basic Lighting

**Advertising Strategy & Design**
MD 4723    Advance Animation
MD 4731    Advertising Research
MD 4739    Advertising Design and Concepts
MD 4744    History of Design
MD 4754    Creative Aspect in Advertising
MD 4779    Digital Brand Communication
MD 4835    Consumer Behavior
MD 4843    Campaign Strategy
MD 4846    New Media Advertising
MD 4847    Copy writing
MD 4736    Integrated Marketing Communications
MD 4837    Media Planning

**Journalism**
MD 4757    Feature writing-I
MD 4879    Multimedia Journalism
MD 4864    Investigative Journalism and Crisis Reporting
MD 4877    The International Newsroom

**ELECTIVES**
MD 4854    Illustration
MD 4732    Typography
MD 4867    Topics in Film and Television
MD 4878    Design for Social Change
MD 4886    Game Design
MD 4883    Urdu Literature in South Asian Cinema

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 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

## Master of Advertising

The Faculty of Media Sciences at SZABIST offers an evening Master's degree program in Advertising providing students a comprehensive training through courses that prepare them to engage in various career options in the advertising industry.

To be awarded a Master of Advertising degree, students need to complete total of 36 credit hours which include 10 courses and 6-credit research project. All students must complete their degree within five years.

### First Year

**Fall Semester**

MD 5162    Advertising and Marketing Research
MD 5167    Principles of Advertising
MD 5166    Ideation Techniques in Advertising
MD 5164    History of Communication and
           Advertising

**Spring Semester**

MD 5266    Advertising Management
MD 5268    Creative Advertising Campaigns

MD 5267    Advertising Strategy
MD 5xxx    Elective I

**Summer Semester**

MD 5xxx    Elective II
MD 5xxx    Elective III

### 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 MS in Media Studies, students need to complete a total of 30 credit hours which includes 8 courses and 6 credits of independent research study (IRS). All students must compete 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 coursework 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 5xxx    IRS I

**Spring Semester**

MD 5xxx    IRS 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 5311    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 foreign qualified 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

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:

- Applied Microbiology and Immunology Lab
- Animal Cell Culture Lab
- Plant Cell and Tissue Culture Lab
- Applied Biochemistry and Enzymology Lab
- Natural Product Chemistry and
- Biotransformation Lab
- Biotechnology and Molecular Biology Lab
- General Biosciences Labs
- Green House

## 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 and 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 | Agricultural Science |
| BIO 2304 | Nutrition and Dietetics |
| BIO 3605 | Pharmacology-II |
| BIO 4703 | Research Methodology |

### Fourth Year

**Fall Semester**

| | |
|---|---|
| BIO 4701 | Business Management |
| BIO 4705 | Research Report-I |
| 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 4805    Research Report-II
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
BIO 4728    Techniques in 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 19 courses of 3 credit hours each, 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 5103  Foundation of Public Health
MPH 5102  Epidemiology
MPH 5105  Statistical Reasoning in Public Health
MPH 5101  Environmental and Occupational Health
MPH 5104  Social and Behavioral Sciences

**Spring Semester**
MPH 5203  Infectious Diseases
MPH 5205  Research Methodology
MPH 5202  Health Services Administration
MPH 5201  Chronic Non Communicable Diseases
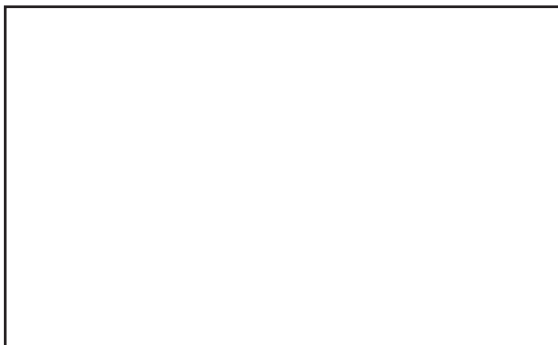MPH 5206  Applied Health Communication

### Second Year

**Fall Semester**
MPH 5306  Maternal and Child Health
MPH 5301  Demography
MPH 5204  Nutrition and Health
MPH 5307  Medical Ethics and Law
MPH 5309  Thesis-I

**Spring Semester**
MPH 5302  Health Promotion
MPH 5401  Health Policy
MPH 5403  PPP and NGO Management
MPH 5402  International Health
MPH 5409  Thesis-II

# FACULTY OF 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
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 International Programme has the same academic standard as a degree awarded to a student studying at the University of London. The main syllabus has been set and the course outlines are designed by the University of London.

**BA (Hons) in Business Studies**
SZABIST offers a 2+1 Top–up program BA (Hons) in Business Studies from the Coventry University. Student will have to complete 27 courses/81 credits and proceed ahead to Coventry University to earn an international degree.

# INTERNATIONAL PROGRAMS

**LLB**

### Entrance Requirements

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

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

**Or**

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

**Or**

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

**Or**

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

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

- Bachelor degree in any discipline (awarded by an institution acceptable to the University of London).

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

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

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

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

### Curriculum

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

# INTERNATIONAL PROGRAMS

**First Year**

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

**Second Year/Third Year**

Law of Trusts
Law of Tort
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









**UNIVERSITY OF LONDON**
INTERNATIONAL PROGRAMMES | REGISTERED CENTRE

International **LLB** Programme

# INTERNATIONAL PROGRAMS

## BA (Hons) in Business Studies

**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 xxxx | Human Behaviour |

### Third Semester (Summer)

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

### Fourth Semester

| | |
|---|---|
| BA 2303 | Marketing Principles |
| BA 2304 | Managerial Accounting |
| BA 2306 | Introduction to 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.

# ACADEMIC CALENDAR 2017-18 (Karachi Campus)

## ACADEMIC CALENDAR 2017-18 (Karachi Campus)

### FALL 2017

| 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 | |
| Sep 09, 2017 | New Faculty Meeting/Orientation |
| Sep 13, 2017 | IS Thesis Advisors Meeting |
| Dec 30, 2017 | Comprehensive Exam |
| Jan 13, 2018 | Independent Research Study Presentations for MS/PhD students |

### Classes commencing date

| | |
|------|----------|
| Karachi Campus: | September 04, 2017 |
| Hyderabad Campus | September 04, 2017 |
| Larkana Campus | September 04, 2017 |
| Islamabad Campus | September 04, 2017 |
| Dubai Campus | September 23, 2017 |

# ACADEMIC CALENDAR 2017-18 (Karachi Campus)

**SPRING 2018**

| 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 | |
| Feb 10, 2018 | New Faculty Meeting/Orientation |
| May 12, 2018 | Independent Research Study Presentations for MS/PhD students |
| May 26, 2018 | Comprehensive Exam |

**Classes commencing date**

| | |
|---|---|
| Karachi Campus: | February 06, 2018 |
| Hyderabad Campus | February 06, 2018 |
| Larkana Campus | February 05, 2018 |
| Islamabad Campus | February 05, 2018 |
| Dubai Campus | February 10, 2018 |

# PROGRAMS AVAILABILITY AT DIFFERENT CAMPUSES OF SZABIST (FALL 2017)

| PROGRAMS | CAMPUS | | | | |
|---|---|---|---|---|---|
| | Karachi | Islamabad | Larkana | Hyderabad | Dubai |
| Diploma in IT (DIT) | | √ | | | |
| Bachelor of Business Administration (BBA) | √ | √ | √ | √ | √ |
| BA (Hons.) in Business Studies (BABS) | √ | | | | |
| BS Accounting & Finance | √ | √ | | | |
| Bachelor of Science Entrepreneurship | √ | | | | |
| BS Computer Science | √ | √ | √ | √ | √ |
| Bachelor of Media Science | √ | √ | | | √ |
| BS Social Science | √ | √ | | | |
| BE Mechatronic Engineering | √ | | | | |
| BS Bioscience | √ | | | | |
| Bachelor of Law (LLB) | √ | | | | |
| Bachelor of Business Studies (BBS) | √ | | | √ | |
| 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) | √ | | | | |
| MA Education | √ | | | | |
| 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 Sociology | | √ | | | |
| 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
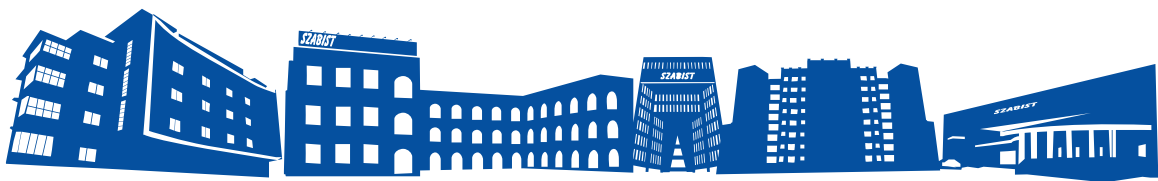
**SZABIST Karachi Campus**
90 and 100 Clifton, Karachi 75600
Phone: 92-21-111-922-478.
Email: info@szabist.edu.pk.
www.szabist.edu.pk.
www.facebook.com/szabistofficial

**SZABIST Islamabad Campus**
Street # 09, Plot # 67 Sector H-8/4,
Islamabad, Pakistan
Phone: 92-051-4863363-65
Fax: 92-051-4863367
Email: info@szabist-isb.edu.pk

**SZABIST Larkana Campus**
Sachal Colony, Larkana, Sindh, Pakistan
Phone : 92-74-4053400-3
Fax: 92-74-4044760
Email: info@lrk.szabist.edu.pk

**SZABIST Hyderabad Campus**
Ground, 3rd & 4th floor, State Life Building,
Thandi Sarak, Hyderabad
Phone # 92-022-2782442-43,
Fax # 92-022-2782444
Email: info@hyd.szabist.edu.pk

**SZABIST Dubai Campus**
6th Floor, Block-10, Dubai International
Academic City, Dubai, U.A.E
Phone: +971 4 3664601, Fax: +971 4 3664607
Email: info@szabist.ac.ae, www.szabist.ac.ae

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