



**SZABIST**

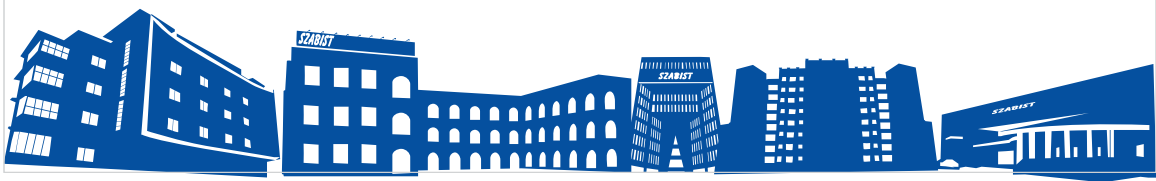
**Discover  
Yourself**

# Prospectus 2017

[www.szabist.edu.pk](http://www.szabist.edu.pk)

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

**We just Don't Work Hard  
We Work Smart**



# SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY

## THE VISION

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

## THE MISSION

SZABIST is committed to produce highly qualified professionals to:

- Meet national and global contemporary needs;
- Conduct cutting edge research and development;
- Provide hi-tech scientific and technological expertise;
- Meet current and future socio-economic challenges;
- Meet global citizenship responsibility.

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# SHAHEED ZULFIKAR ALI BHUTTO



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

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

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

# SHAHEED MOHTARMA BENAZIR BHUTTO



**June 21, 1953 - December 27, 2007**  
**Former Prime Minister of Pakistan,**  
**Founding Chancellor SZABIST**

"Technology and Communication have changed our world and are influencing a global culture. The ability to google information from anywhere in the world puts technology into the hands of even the most isolated rural communities in the developing world. The more people learn, the more they want to learn. The more they interact, the less likely they will be to fear the unknown. Just as democracy and educational exchange promote peace, the free flow of modern technology and communication promote peace."

*Reconciliation: Islam, Democracy and the West, 2008.*

# CHANCELLOR'S MESSAGE



I welcome you to join the Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST), one of the most prestigious higher education 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 affordable 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 diversified 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 Zulfiqar 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, 100, 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 Ghara (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 3<sup>rd</sup> & 4<sup>th</sup> 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).

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.

## 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) / 12<sup>th</sup> 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



# 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 regularly. These seminars and lectures are in continuation of the Institute's policy towards entrepreneurship development and networking. Seminars are conducted and attended by the leading figures from business and industry as these sessions address various business practices.

### Professional Development Courses

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

Selling Skills, Conflict Resolution, Effective Leadership, and Productivity, Quality-Related Issues, Brand Management and Digital Marketing.

In addition to business productivity courses, the institute arranges study groups, mentor workshops and courses for students who it may feel are deficient in various academic areas. These courses include Business Communication, Technical Writing, Public Speaking, Personal Grooming, Interviewing Techniques and Statistical Package for Social Sciences (SPSS).

### Classrooms/Labs/Libraries

Classroom sessions at SZABIST are quite different from other professional university setups. Teachers pay individual attention to the limited number of candidates selected purely on merit. Instructors encourage participation instead of a monologue. Students utilize various visual aids for presentations and are always on alert because of the regular unannounced quizzes, assignments and the mid-term exams. All classrooms are air-conditioned and are equipped with multimedia projectors, wall mounted screens and white boards. All classrooms are equipped with computers along with broadband intranet and internet connectivity.

SZABIST computer laboratories are 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 unmatched 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:

<b>ACM</b>	Association of Computing Machinery (SZABIST Karachi, ACM Chapter)
<b>AIESEC</b>	Student Exchange Program Facilitation
<b>ASME</b>	American Society of Mechanical Engineers
<b>FSAA</b>	Friends of the Sindh Abhyas Academy
<b>IEEE-SSB</b>	Institute of Electrical and Electronics Engineers-SZABIST Student Branch
<b>KSCLC</b>	Karachi SZABIST Campus Lions Club
<b>RCoSKM</b>	Rotaract Club of SZABIST Karachi Midcity
<b>SBS</b>	SZABIST Bioscience Society
<b>SES</b>	SZABIST Entrepreneurial Society
<b>SLS</b>	SZABIST Law Society
<b>SOS</b>	SZABIST Oratory Society
<b>SSSS</b>	SZABIST Social Science Society
<b>SSS</b>	SZABIST Sports Society
<b>ZABLITS</b>	SZABIST Literary Society
<b>ZABMUN</b>	Zulfiqar Ali Bhutto Model United Nations
<b>ZABPAS</b>	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 consultancy 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 3<sup>rd</sup> and 4<sup>th</sup> 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

- 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

## 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

## 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
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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

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.

\* 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





# 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)

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

### 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

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).

### 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.

#### 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.

#### 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



# 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 5xxx Operation Research  
CSC 5xxx 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 2<sup>nd</sup> 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 8<sup>th</sup> 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

## Department of 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

## MA Education

The MA Education is a 2 years program which aims to develop high quality educators for the 21<sup>st</sup> 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

## PhD Educational Leadership and Management

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

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

The students will have the opportunity to specialize in the fields of Sociology of Education, Educational Policy, Testing/Evaluation, Teacher Education, Professional Development, 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<sup>st</sup> 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
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# 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 complete their degree within five years.

Students who successfully complete their MS degree may apply for the PhD program in the Department of Social Sciences. Students accepted into the PhD program will need to complete a doctoral dissertation within three years of enrollment and fulfill all requirements including necessary 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, pharmaceuticals, 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

## Lab Facilities

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

- 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

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)

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

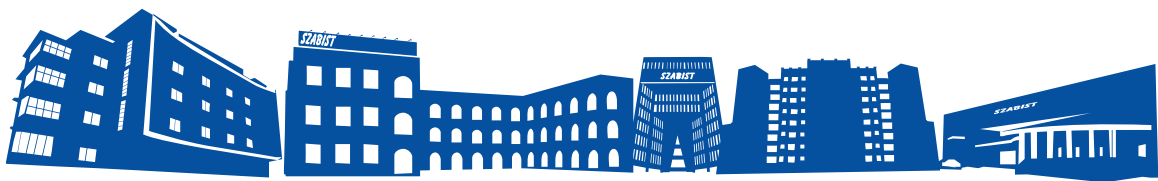
PROGRAMS	CAMPUS				
	Karachi	Islamabad	Larkana	Hyderabad	Dubai
Diploma in IT (DIT)		√			
Bachelor of Business Administration (BBA)	√	√	√	√	√
BA (Hons.) in Business Studies (BABS)	√				
BS Accounting & Finance	√	√			
Bachelor of Science Entrepreneurship	√				
BS Computer Science	√	√	√	√	√
Bachelor of 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](mailto:info@szabist.edu.pk).

[www.szabist.edu.pk](http://www.szabist.edu.pk).

[www.facebook.com/szabistofficial](https://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](mailto: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](mailto:info@lrk.szabist.edu.pk)



### **SZABIST Hyderabad Campus**

Ground, 3<sup>rd</sup> & 4<sup>th</sup> floor, State Life Building,  
Thandi Sarak, Hyderabad

Phone # 92-022-2782442-43,

Fax # 92-022-2782444

Email: [info@hyd.szabist.edu.pk](mailto:info@hyd.szabist.edu.pk)



### **SZABIST Dubai Campus**

6<sup>th</sup> Floor, Block-10, Dubai International  
Academic City, Dubai, U.A.E

Phone: +971 4 3664601, Fax: +971 4 3664607

Email: [info@szabist.ac.ae](mailto:info@szabist.ac.ae), [www.szabist.ac.ae](http://www.szabist.ac.ae)