



SZABIST
LARKANA

Discover
Yourself

PROSPECTUS

2022 - 23



SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE AND TECHNOLOGY
karachi - Islamabad - Larkana - Hyderabad - Ghara - 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.

CONTENTS

INTRODUCTION

01

Programs & Curricula
Admission Requirements
Admission Test Alternates
Transfer Policy
Financial Assistance

LIFE AT SZABIST

11

Video Conferencing
Conferences/Forums/Seminars/Guest Lectures
Professional Development Courses
Classrooms/Labs/Libraries
Research Committee (RC)
Doctoral Committee (DC)
Board of Advanced Studies and Research (BASR)
Academic Council
Office of Research Innovation and Commercialization (ORIC)
Data Center
Newsletters
ZAB FM
Student Support Services
SZABIST Student Council (SSC) & Student Societies
Executive Development Center (EDC)
Jobs and Internships
ZAB Solutions
National and International Linkages and Collaborations

FACULTY OF MANAGEMENT SCIENCES

20

Bachelor of Business Administration (BBA)
BS Accounting & Finance (BS A&F)
Master of Business Administration (MBA)
Master of Project Management (MPM)
MS Management Science (MS MS)

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

32

BS Computer Science (BS CS)

CONTENTS

BS Social Sciences (BS SS)

35

With Specialization:
BS SS - Psychology

MS Educational Leadership and Management (MS ELM)

37

ACADEMIC CALENDAR 2022-23

39

Fall 2022
Spring 2023

CAMPUS WISE PROGRAMS OFFERING

41

Programs Offering at Different Campuses of SZABIST

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, creativity and continuous learning. We prepare our students for professional careers, therefore, we offer a wide variety of programs including Management, Computer, Social and Media Sciences, Mechatronic 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 of providing opportunity for high quality tertiary education and research to the youth of Pakistan, SZABIST has a presence in Karachi, Islamabad, Larkana, Hyderabad, and an overseas campus in Dubai, UAE. We are also developing our campus at Ghoro, which will InshAllah, open in Fall 2022.

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 our students to realize and nurture their 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 students' learning experience and continuously improve the standard of education, the Institutional Research Department/Quality Enhancement Cell periodically assesses all programs to 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 campuses. A "Library Hub" is also being established to fulfill emerging research and academic requirements.

As I welcome the new students, I encourage them to strive for excellence and while they equip themselves with marketable skills, they should actively work to promote the values of a tolerant, inclusive and pluralistic society.

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 25 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 15 Bachelors, 16 Masters and 5 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 and Accreditation Councils, 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, SZABIST was awarded 94% for its Quality Enhancement processes. Quality assurance measures are rigorously applied through tools such as Program Self-Assessment Reports, feedback of relevant stakeholders, publications and fulfilling documentation 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



A great leader Mr. Nelson Mandela said: "Education is the most powerful weapon which you can use to change the world."

SZABIST has seen exponential growth in its programs, students, and physical infrastructure since its inception in 1995. This could be possible with the full support of its Management, especially of its worthy Chancellor, Dr. Azra Fazal Pechuho.

The whole purpose of education is to create "Analytical Minds". As a responsible institution, we just don't believe in classroom studies but believe in complete personality development. We, therefore, regularly conduct co-curricular and extracurricular activities through our various students' societies. We aim to prepare our students to be useful to society.

During the unfortunate COVID era, SZABIST has remained the most successful institution in the City, transforming from a physical to a virtual and hybrid system quickly to save the precious time of its students. We conducted virtual seminars and guest speeches to engage our students besides taking their regular classes to ensure our commitment to the students.

SZABIST now has six campuses in Karachi, Islamabad, Larkana, Hyderabad, Ghara, and Dubai. SZABIST is the only Pakistani institution having its campus in Dubai International Academic City since 2003, competing with the world's leading institutions. Karachi campus is the mother campus having more than 8000 students enrolled in its 40-plus academic programs in Management Sciences, Computer Science, Social Sciences, Media Science, Life Sciences, Education, Mechatronic Engineering, and Law. Our three-year LLB program is offered in collaboration with the University of London.

SZABIST programs comply with HEC recommended course plans and are accredited by regulatory bodies such as NBEAC, NCEAC, PEC, NACTE, and CIEC. The learning outcomes of the programs ensure to create critical & creative thinking, acquire problem-solving skills, and professionally handle all pedagogical tools. We are fully aware that a University without Research is like a "Body" without a "Soul"; therefore, we emphasize research activities at levels in our programs.

Finally, I thank all the newcomers for choosing SZABIST for their academic pursuits and wish them a happy stay during the entire period of their course of studies. I expect, as SZABISTian, you will show a high level of maturity through your conduct and actions.

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

VICE PRESIDENT DEVELOPMENT AND FINANCE MESSAGE



Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology initiated by Shaheed Mohtarma Benazir Bhutto and currently functioning under the able leadership of its Chancellor Dr. Azra Fazal Pechuho has emerged as a leading higher education institute that plays a vital role in producing highly qualified graduates.

Here we provide the environment, facilities, academic and professional experiences, and opportunities for research that aim at a creative, ethical, smart and holistic personality. With the commencement of the new academic year, students are encouraged to utilize the wide range of services and facilities, the events, programs, seminars, and festivals that will make their life at SZABIST interesting.

Get involved, make the most of your time and gain the experience that will make you the smart individual in demand at national and multinational firms within the country and abroad.

We are here to support you and welcome you to a fulfilling and interesting period at SZABIST.

Nasreen Haque
Vice President (Development and Finance)
SZABIST

VICE PRESIDENT'S (ADMINISTRATION) MESSAGE



I am delighted to welcome you to Shaheed Zulfikar Ali Bhutto Institute of Science and Technology. At SZABIST, you will become part of a strong and supportive community that values academic excellence and diversity.

The unfailing dedication and vision of Shaheed Mohtarma Benazir Bhutto has led SZABIST to grow into an exceptionally well established and well reputed institution. Today SZABIST has developed into a strong multidisciplinary institution with campuses in Karachi, Hyderabad, Larkana, Islamabad and Dubai.

Over the years, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST)

has excelled in the field of education and has produced some of the most well qualified and outstanding graduates.

We at SZABIST are dedicated not just to the purpose of education and learning, but also to assisting and guiding students to adjust to university life and to discover their skills and talents. We encourage students to promote a campus environment that is respectful, supportive and safe.

SZABIST is truly proud of the role students' play in the life of the institution and it is hoped that you will also play an important part.

It is hoped that the Prospectus 2022 will serve as a useful guide in planning out your academic journey and that each of you have a well learning and fruitful experience here at SZABIST.

With best wishes

Imtiaz Kazi
Vice President Administration
SZABIST

HEAD OF CAMPUS'S MESSAGE



It is indeed a matter of great pride for all of us here at SZABIST Larkana to wholeheartedly welcome you. Being located in one of the remote areas, we have been striving hard against all odds to contribute our pursuit for providing quality education to the people of interior Sindh in particular and youth of our beloved country Pakistan in general.

I wish and hope that your dreams take you to the corners of your smiles, to the highest of your hopes, to the windows of your opportunities and to the most special places your heart has ever known.

During Campus life you will experience good and hard days both, never lose the hope and commitment in pursuit of your dreams/goals.

I wish you all the best, with prayer to rise to the new heights in your career and contribute back to your society and your Alma mater.

Dr. Zahida Abro
Head of Campus
SZABIST Larkana

INTRODUCTION

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) is a chartered institute of Pakistan established through a Legislative Act of Sindh Assembly (Sindh Act No. XI of 1995). It is highly ranked, 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.

SZABIST comprises five campuses located in Karachi, Hyderabad, Larkana, Islamabad and Dubai with a current student population of over 18,000, collectively. Altogether over 24,000 talented graduates have been proudly awarded degrees by all campuses of SZABIST. Our alumni are sought by national and multinational organizations and hold key positions in several reputable firms.

SZABIST Larkana offers undergraduate, graduate degrees in 3 different disciplines: Faculty of Management Sciences, Faculty of Computing and Engineering Sciences, Faculty of Education and Social Sciences.

SZABIST is ranked as one of the most reputed university by Higher Education Commission (HEC), Pakistan and Chartered Inspection and Evaluation Committee (CIEC) Sindh, Pakistan. SZABIST Business School has been rated as "Outstanding" by HIEC and HEC, Pakistan.

The Institute has signed MoUs with various reputable and distinguished organizations and institutions such as Mehran University of Engineering Science & Technology (ZAB Campus Khairpur Mirs'), Universitas Sumatera Utara (USU) Medan-Indonesia, Khushahli Microfinance Bank Ltd. Chughtai Lab Pvt. Ltd, and Quaid-e-Awam University of Engineering Science & Technology Larkano Campus.

SZABIST Larkana Campus is situated in the prime location of City i.e. Sachal Colony, Near Bakhtawar Garden Larkana.

SZABIST is proud to offer education par excellence in the areas that are crucial for Pakistan's socio-economic development.

INTRODUCTION



PROGRAMS & CURRICULA

DEGREES OFFERED

All five campuses of SZABIST offer various degree programs in different disciplines so please refer to page 96 for details.

Bachelor of Business Administration (BBA)

SZABIST offers a four-year (eight semesters) BBA degree program of 144 credit hours. This is SZABIST's flagship program. For the BBA program, students are required to complete 46 courses and 03 credit hours Business Project & a 03 credit hours Community Service Project. The program includes 42 compulsory courses and 4 elective courses from Management, Marketing & Finance. To obtain the BBA degree, students have to complete 144 credit hours and six-week internship. Maximum time limit to complete the BBA degree is six years. BBA program is an ACCA accredited program; those who complete BBA from SZABIST, Larkana, will get an exemption in 06 out of 09 ACCA Foundation papers (F1, F2, F3, F5, F7 and F9).

Bachelor of Science in Accounting & Finance (BS A&F)

SZABIST offers a four-year (eight semesters) Bachelor of Science (Accounting & Finance) program, consisting of 46 Courses (six courses per semester) and a 6 credit hours Research Project. (to be offered over last two semester). Students have to complete 144 credit hours along with six weeks of internship to obtain the BS Accounting & Finance (BS A & F) degree. The maximum time limit to complete the degree program is six years.

Graduates of BS (A & F) program will get exemptions in nine papers of both Institute of Chartered Accountants of Pakistan (ICAP) and Association of Chartered Certified Accountants (ACCA), UK.

SZABIST also offers 2.5-year Bachelor of Science (Accounting & Finance) program exclusively for CAF qualified students of the Institute of Chartered Accountants of Pakistan (ICAP). CAF qualified students are exempted 60 credit hours (20 courses) of course work and have to complete 78 credit hours (26 courses) of course work and a 6 credit hours Research Project (to be offered over last two semesters).

Bachelor of Science in Computer Science (BS CS)

SZABIST offers a four-year (eight semesters) BS Computer Science degree program. The program covers a wide range of courses in core Computer Science, Information Technology and Software Engineering. The program is essentially a fulltime day program and consists of 41 courses (five courses per semester) with a total of 130 credit hours. The complete course plan includes 8 technical electives and 4 university electives. These 8 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 six years.

Bachelor of Science in Social Sciences (BS SS)

SZABIST offers a four-year (eight semesters) BS Social Sciences degree with majors in Psychology, Sindh Studies, Sociology, Economics, and International Relations. BS Program is essentially day program and consists of 46 courses (six courses per semester) including research project (I&II) with a total of 142 credit hours. The maximum time limit to complete the BS degree is six years.



PROGRAMS & CURRICULA

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.

SZABIST offers MBA program with specialization in Marketing, Finance, Human Resource Management. The maximum duration to complete MBA degree program is four years.

MBA program is intended for students having a four-year bachelor degree (e.g. BS-CS, BE, BBA etc.) or 16 years of education in different disciplines. The duration to complete this program is two years with 72 credit hours. Twenty-two courses (66 credit hours) and 6 credit hours of Research Project OR Thesis spread over two semesters (03+03) are required to complete the program. Students with BBA or equivalent qualification are exempted 36 credit hours of course work and they are required to complete remaining 36 credit hours in 1.5 years. Students are also required to undertake six week duration of internship during summer.

Master of Project Management (MPM)

The Master of 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 30 credit hours spread over two semesters. A total of 10 courses are required to graduate. The maximum time limit to complete the MPM degree is four years.

Master of Science in Management Sciences (MS MS)

SZABIST offers MS degree with concentration in the specialized areas of Human Resource Management, Marketing, Finance and Business Analytics. The MS program is an evening program and all classes are held during week days. There are two streams available for MS. One Stream is by Course Work and other one is by Research Work. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In Research Work Stream, the student is required to complete 8 Courses and Two IRS OR one Thesis. In both the streams, 30 credit hours are to be completed. The time limit to earn an MS degree is from 1.5 to 4 years. As per HEC guidelines, all MS students are required to clear GAT General Test or HAT relevant with minimum 50%score.



PROGRAMS & CURRICULA



Master of Science in 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 hours program. There are two streams available for MS ELM. One Stream is Course Work Based Stream and the other one is Research Based Stream. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In the Research Based Stream, the student is required to complete 8 Courses (24 Credit Hours) and Two Independent Research Study Courses (6 Credit Hours) OR One Thesis (6 Credit Hours). In both the streams, 30 credit hours are to be completed. The time limit to earn a MS degree is from 1.5 to 4 years. The program is accredited by National Accreditation Council for Teacher Education (NACTE).



The students will have the opportunity to specialize in the fields of: School Administration/ Educational Leadership, Sociology of Education, Educational Policy, Testing and Evaluation, Teacher Education, Professional Development, Guidance & Counseling, Curriculum Development, Technology Integration in Education, Early Childhood Education, Higher Education Studies, Educational Psychology and Child Development. All MS ELM students are required to clear GAT General/HAT relevant test with minimum 50% score.



PROGRAMS & CURRICULA

Grading Plan

The following Letter Grade Plan is followed at SZABIST:

Letter	Range	Grade Point	Degree Requirement
A+	90 – 100	4.00	
A	85 – 89	3.75	
A-	80 – 84	3.50	
B+	75 – 79	3.25	
B	70 – 74	3.00	PhD Degree Requirement
B-	66 – 69	2.75	MS Degree Requirement
C+	63 – 65	2.50	Master's Degree Requirement
C	60 – 62	2.00	Undergraduate Degree Requirement
C-	55 – 59	1.50	
F	< 55	0.00	



ADMISSION REQUIREMENTS

NOTE:

- All applicants will be required to appear in an entrance test and interview/group discussion held by SZABIST.
- 2 "E" grades in A-Level exam will not be entertained for accredited programs. i.e. BBA, BSCS, etc.
- Equivalency from Inter Board Committee of Chairmen (IBCC) is mandatory for O & A Levels/High School Diploma/IB Diploma or equivalent.
- High School Diploma or International Baccalaureate (IB) students appearing for examination from Pakistan shall have to pass Islamiyat, Pakistan Studies & Urdu either with O Levels or SSC.
- 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 (HIEC) is mandatory for all Masters, MS, & PhD students.
- Students waiting for results can also apply.
- Admission of Foreign students are subject to clearance from the relevant Agencies/NoC from HEC.

BACHELOR DEGREE PROGRAMS

BBA/BS (A&F)/BSCS/BSSS Programs

For admission in the BBA/BSAF/BSCS/BSSS programs, the candidate must have completed O-Levels (minimum 8 subjects including 5 compulsory subjects; English, Urdu, Maths, Islamiyat & Pakistan Studies) and A-levels (minimum 3 Subjects)/12th Grade/Intermediate with minimum 50% marks or equivalent from a recognized institution.

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



MASTERS DEGREE PROGRAMS

Master of Business Administration (MBA)

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

Master of 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 a minimum of 55% marks/2.5 CGPA.



Masters of Science in Management Sciences (MS MS)

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



ADMISSION REQUIREMENTS

Master of Science - Educational Leadership and Management (MS ELM)

For admission in MS (ELM), the candidate must possess 16-years of education in the discipline of Education or 16-years of education along with B.Ed* with minimum second division/2.0 CGPA from an HEC recognized institution.

GAT General/HAT relevant with minimum 50% score is also required.

Note: *Candidates applying with a 1-year B.Ed. Degree are required to complete 6 bridging courses of 18 credits at SZABIST



ADMISSION REQUIREMENTS



Admission Test Alternates

For Bachelors Programs

Applicants may submit a minimum 1100/1600* score of SAT 1.

The scoring of SAT 1 will be considered as follows;

SAT score	Test Marks
1500 – 1600	50
1400 – 1499	45
1300 – 1399	40
1200 – 1299	35
1100 – 1199	30

*Candidates securing 100% marks in SZABIST's admission test will be equivalent to 50.

For Masters Programs

50% score of GMAT for Master Programs.

For MS Programs

GAT (General)/GRE/HAT relevant with minimum 50% score.

GAT General or relevant HAT is mandatory for MS with minimum 50% score. GAT/GRE 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.

Candidates will be required to clear all SZABIST admission requirements.



ADMISSION REQUIREMENTS

Bachelor Course Transfer

A maximum of up to 50% credits may be considered for transfer into BS/BE programs.

MPM Course Transfer

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

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.

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

The minimum letter grade of Certificate courses from SZABIST which are transferable to regular degree program: for PhD its B and above, for MS its B- and above, for all master's program its C+ and above and for bachelor's programs its C and above.

Financial Assistance

SZABIST offers financial assistance to eligible and deserving students in the form of various SZABIST funded and external donor funded scholarships as under:

- SZABIST Merit-Based Scholarship
- SZABIST Need-Based Scholarship
- General Subsidy
- Sindh Police Shaheed Scholarship
- SZABIST Employee Children Fee Concession
- SZABIST Employee Continuing Education Scholarship
- Sindh Education Endowment Fund Scholarship
- Baluchistan Education Endowment Fund Scholarship (Partial Funded / Fully Funded)
- USAID Funded Merit and Need-Based Scholarship
- Various community-based scholarships

SZABIST also offers loan facilities as under:

- Ihsan Trust's Qarz-e-Hasna Interest Free Loan Facility
- The Citizens Foundation Financial Assistance



LIFE AT SZABIST

FACILITIES

Video Conferencing

SZABIST is the first educational institute in Pakistan that introduced multi-point interactive Video Conferencing (VC) technology in 2001. SZABIST regularly uses VC technology in interactive learning sessions among 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-based 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 for removing deficiencies, if any. These courses include Business Communication, Technical Writing, Public Speaking, Personality Grooming, Interviewing Techniques and learning of Statistical Package for the 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 with electricity backup through UPS.

SZABIST computer laboratories are regularly revamped with brand new labs space, furniture and latest machines with giga byte network connectivity to cater student's 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 295 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 and guest are welcome with their BYOD and can access all network available resources wirelessly. SZABIST has also acquired Microsoft IT academy and Oracle Academic Alliance program.

SZABIST library holds a rich collection of books, Journals, Magazines, and a large number of digital libraries and online databases. SZABIST Library has six workstations through which students can access an unlimited number of journals and magazines. This facility is further extended to registered students through the SZABIST network on demand. SZABIST library provides comfortable physical spaces and furniture with a peaceful environment. Moreover, SZABIST has its own Research Centers, i.e., the Centre of Renewable Energy Research (CRER), and Sustainable Development Research Centre (SDRC) with their own specialized library for reference and general reading.

Moreover, SZABIST has its own Research Centers, i.e., the Centre of Renewable Energy Research (CRER), and the Sustainable Development Research Centre (SDRC) with its specialized library for reference and general reading.

LIFE AT SZABIST

SZABIST established Smart Lab equipped with tremendous high speed 7th generation laptops for students. These laptops are connected with SZABIST network through Wi-Fi.

A state of the art Smart screen is also available for teacher and students. They can interact with each other in more effective and robust way.

Research Committee (RC)

SZABIST places high emphasis on research & development and devotes conscious efforts to promote research culture among faculty and students alike. In this regard, 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. Research publications produced by faculty and students are given a handsome remuneration depending on the level and merit of publications, vetted by RC. All sorts of participations in national and international conferences by the faculty & staff are approved by the RC. This may also propose a change in research policy for the university to BASR.



Office of Research Innovation and Commercialization (ORIC)

ORIC is an academic support department in Shaheed Zulfiqar Ali Bhutto Institute of Science & Technology (SZABIST) that provides comprehensive services for research innovation and commercialization. It serve as a bridge in between multiple faculties of SZABIST and produces quality research and innovative products for filing patents / trademarks / designs.

ORIC is the epicenter of all research and development activities within all campuses of SZABIST. It provide assistance to faculty members and research students in producing research article / projects, at national as well as international level and arranges periodic workshop / training / seminar / conferences.

ORIC shorten the gap between acquired knowledge and required knowledge within the organization. The complete working of ORIC evolve in coaching, counseling, recognition and feedback. The leadership of ORIC is concerned with integrity, impartiality, professionalism, partner focus, efficiency, and mutual respect.

Team ORIC is continuously engaged in providing strategic direction to all research and development initiatives produced within the territory of SZABIST, and in promoting joint research activities with other horizontal and vertical partner institutions.



LIFE AT SZABIST

ORIC strengthen the relationship with industry, government and non-government organizations for promoting entrepreneurship, technology transfer, and commercialization activities produced.

ORIC concentrate on sustainability and reliability of the research products and has a mandate to earn yearly revenue from licensing, royalties, policy advocacy and other related activities.

Moreover, ORIC also invest in capacity development of the faculty, staff and other researchers in the university. It periodically arranges exhibitions, showcasing events, industry linkages fairs, and seminars at one side while training, workshop, innovation, and commercialization seminars on other side.

WHY ORIC

In recent millennium, global knowledge economy has strengthened the need for strategic partnerships that go beyond their traditional roles as collaborators.

World-class research universities are at the forefront of pioneering such partnerships. They are intended to run longer, invest more, look beyond and sharpen the competitiveness of industries, universities and regions.

Keeping in view of these challenges, the Office of the Research, Innovation and Commercialization has been initiated at SZABIST, Karachi.

The mission of ORIC as outlined by HEC is "Transforming Pakistani universities to drive high impact innovation, applied research and entrepreneurship". The ORIC's vision is to enable and lead Pakistan's transformation to a knowledge-based economy dependent upon innovation and entrepreneurship.

The Office of Research Innovation and Commercialization is being established to link research and commercialization from SZABIST with emerging and existing firms across Pakistan and around the world.

As an umbrella, ORIC is meant to work closely with the researchers and on campus Incubators and S&T Park. The ORIC office also serves as a conduit to local, regional and federal partners to ensure research results aid the growth of Pakistan's economy.

ORIC is meant to work on commercialization of research and helping startups to incubate, grow, create new jobs, products, services, markets, carry out innovation and bring in funding. The following are the prime activities of ORIC at SZABIST:

- Managing applied research, innovation and commercialization activities within the universities through industrial collaboration;
- Intellectual Property Commercialization through documentation, evaluation, protection, marketing, licensing and royalties agreements;
- Partnership with national / foreign universities, government departments, and non-government organizations for reports, publication, contracts and consultancies;
- Participate in government programs and in securing funding for research from public and private sector;
- Organizing training, workshop, seminars, focus group discussions for maintaining academia - industry linkage as well as capacity development;
- Help final year students through startups and joint ventures.

ORIC IN 2022

ORIC SZABIST is continuously strengthening its relationship with the faculty and non-faculty members of SZABIST inwards, and with government & non-government organizations, industry and other higher educational institutions outwards.

Main purpose of this association is to develop a long term industry – academia relationship that would cadre the essential elements of the fourth wave of industrial revolution (Industry 4.0).

Industry 4.0 is the origin of a new revolution, since it integrate virtual and physical system of manufacturing and improved productivity, efficiency and quality of the product. Big Data, artificial intelligence and digital conversion of industrial processes, are essential ingredients of this wave.

ORIC has compiled its Five Year Plan with special emphasis of industry (4.0). Sustainable Competitive advantage is the only objective of this proposal which can be achieved through training & development, coaching and guiding the future scientist and researchers. This plan has also defined "Input – Throughout – Output" strategy that creates enabling environment for linking academia with the industry.

ORIC SZABIST has completed its half journey for academic session 2021-22 and achieved the target of Research Excellence through: competitive grant management, coordination & networking, policy advocacy, case studies and civic engagement events. Similarly, ORIC is promoting Innovation & Commercialization activities through: IP legislation, IP linkages, networking & coordination, and commercialization activities.

ORIC has two ready to use publication i.e. Research Funding Window (RFW) and Country Profile - Research & Innovation

LIFE AT SZABIST

Indicators (CPRII). ORIC SZABIST has also submitted research projects on Higher Education Commission (HEC) supported grants National Research Program for Universities (NRPU), Local Challenge Fund (LCF), and Technology Transfer Support Fund (TTSF).

ORIC SZABIST has a functional website and about to publish a magazine named "ORIC Nama". ORIC has also started an exclusive lecture series with the caption "نیا دور نیا کاروبار" "Naya Dour Naya Karobar". ORIC has completed the survey on Unpaid Care Workers in collaboration with Parliamentarian Commission for Human Rights (PCHR). ORIC has also conducted numerous interactive sessions with the title "ORICAmbassador". Similarly, ORIC has developed its external as well as internal Data Bank for research. ORIC is also in the middle to conduct a showcasing event "FYP Conference". Finally ORIC has completed its homework to take part in Kamyab Jawan Program announced by government.

For further information about ORIC SZABIST please visit oric.szabist.edu.pk.

Newsletters

SZABIST publishes Newsletter on regular intervals from all its campuses to update about the activities taking place at the campuses.

ZABFM

(www.zabfm.org)

ZABFM is an in-house FM broadcasting station, an initiative taken by Shaheed Zulifkar Ali Bhutto Institute of Science & Technology and it was a substantive step into the field of education. It is an honor for the nation as we are producing the talented and most efficient candidates in the form of great speakers to the nation along with the responsibility of spreading knowledge through the airwaves.

It is a streaming radio broadcast station exclusively to impart and disseminate education to the students.

The 24/7 programming schedule covers various subjects of life like, Career Counseling, Planning & Development, Education, Infotainment, Awareness, Research, Documentaries, Talk Shows, Sports, Travel, Science & Technology, Media, Culture & Society, Technology & Inventions, Info-tech and social order, etc.



LIFE AT SZABIST



SZABIST Student Council (SSC)

What is SSC?

Established in 2009, SSC has been a union of hardworking, ambitious and talented individuals across all programs of SZABIST elected under the Election Commission of SZABIST. The selection of SSC workforce is by means of an entrance test and screening process all on an annual basis to form the student government at the institute, under the supervision of Ms. Hareem Siddiqui, Student Advisor, Student Council and SZABIST Election Commission at SZABIST.

Furthermore, it acts as a parent body to its chapters in other campuses of SZABIST namely, SSC-Hyderabad Chapter, SSC-Islamabad Chapter and SSC- Larkana Chapter and SSC-Dubai Chapter.



What does SZABIST Student Council (SSC) do?

SSC aims at helping to explore the talents of all students whilst, along with playing an intermediary role between the administration/management and student body at large, working towards adding value to student life at SZABIST. Moreover, it organizes and hosts seasonal entertainment events to encourage networking among students, staff members and the faculty. Our yearly plans include Beach Trips, comedy nights, Qawali Nights and theme based events. Along with entertainment, SSC has fruitful history of organizing various Conferences, Seminars and Workshops to connect students with the industry and learn from their experiences. One of the finest illustrated events of the SCC is the LEAD (Youth Leadership Conference).



LIFE AT SZABIST

The Executive Board of SSC is the central leadership organization within the Council. The Board consists of the President (SSC), the Vice President (SSC), the Secretary General (SSC) and the Treasurer (SSC). The agenda of each year is reviewed by the Executive board for the 5 pillars attached to SSC elaborated below.

The Five Pillars of SSC

The Leadership Pillar cultivates a sense of self-awareness amongst students through the identification of core strengths, vision, aims and values to become a leader and effectively lead change, conflict resolution, team motivation and reflective thinking skills. There are two societies working under the leadership pillar.

1. SZABIST Oratory Society
2. SZABIST Law Society
3. ZABMUN

The Sports Pillar enables students to achieve excellence in sports which increases physical health of students and improves team work, coordination, cooperation, and mental health.

The Sports Society at SZABIST holds various activities to keep the students energetic and active. The society has a vibrant recognition for organizing ZAB Olympics as a major event which is an inter-university sports tournament.

The Arts and Culture Pillar flows creative ethos of students with intellectual and aesthetic understanding of the craft and technique of theatre arts and humanity. There are three societies under the Arts and Culture Pillar.

1. Performing Arts Society
2. Literary Society
3. Culture Society

The Community Service Pillar holds focal players in Pakistan's fight against climate change inculcating the message of sensitivity, inclusivity and equality in all activities. There are total three societies under the Community Service Pillar.

1. Lions Club
2. Rotaract Club
3. SZABIST Social Sciences Society

The Professional and Technical Pillar develops a set of professional skills which refine and improve the technical skills of mathematics, science and engineering onto different areas such as economic, environmental, social, political and

sustainable development. There are total five societies under the Professional and Technical Pillar:

1. Association for Computing Machinery
2. IEEE – SZABIST STUDENTS' BRANCH
3. Entrepreneurship Society
4. ASME
5. Biosciences Society

All student associations, clubs and student societies are formed as per a prescribed procedure working under the aegis of the SZABIST Student Council. Student Council members have rock solid history of conceptualizing and leading projects and events which work to advance the social and civic development of not only the student body but also of the community.

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, webinars, Zabtalk sessions and presentations by industry experts who share their experiences to help them understand the transition from campus to the corporate world.

EDC compiles students' profiles and publishes the annual graduate directory in order to provide SZABIST graduates to credible organizations.

EDC engages with the Alumni for relationship building, corporate networking and profile update. A body with a name SZABIST Alumni Global Association (SAGA) is there to build strong bond with alumni. The vision of SAGA is "To empower the SZABIST Alumni for exploring new avenues and expanding knowledge for continuing their journey of self-discovery".



LIFE AT SZABIST

Job & Internship Placements

In collaboration with the industry, EDC arranges job/internship 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 in the beginning of every year 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 market, SZABIST has instituted a mandatory internship program. Apart from enabling students to get the feel of an office environment, internships expose them to potential employers for possible recruitment.

Eligibility for Internship

- Masters Degree students with at least two semesters completed at SZABIST.
- Bachelors degree students with at least six semesters completed at SZABIST.
- Minimum duration of internship is six weeks.
- Preference is given to those students who are about to graduate and need an internship as a pre-requisite for their degree completion.

ZAB Solutions

SZABIST has its own software house that fulfills the software needs of the SZABIST. The state-of-the-art applications that ZAB Solutions has developed and evolved are successfully supporting and fueling the complete academic process of the SZABIST. The complete academic process flow of students from filling the online admission form to the printing of transcript and degree runs on ZAB LMS (ZAB Learning Management System).

Several educational institutions in Pakistan have shown their interest in ZAB LMS. The academic process of several institutions in Pakistan will soon be migrated onto our ZABLMS.

The ZAB Solutions incubator helps students foster their software skills. Students can access ZAB Solutions' resources and knowledge to develop their skills and competencies,

which are important to compete in the market. Following are the objectives of the incubator:

1. Provide a practical framework for knowledge and Technology transfer to the students
2. Develop the confidence and competencies for building e-firms
3. Involve students in software research and development
4. Enhance partnership between industry and academia
5. Provide faculty and the students with innovative support facilities

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. Asia-Pacific Quality Network (APQN), People's Republic of China
5. The Talloires Network, USA
6. The Chartered Institute of Logistics and Transport (CILT), UK
7. Management Association of Pakistan (MAP), Karachi
8. Marketing Association of Pakistan (MAP), Karachi
9. Human Resource Development Network (HRDN), Islamabad

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

1. Association of Chartered Certified Accountants ACCA, UK

This MoU provides exemption from ACCA papers to Bachelors of Business Administration and BS Accounting & Finance courses at SZABIST.

2. Balochistan Education Endowment Fund Scholarship, Pakistan

Under this MoU, Government of Balochistan provides fully funded scholarship to 5-6 meritorious and financially challenged students of SZABIST who are local domicile certificate holders of Balochistan. The scholarship covers the entire duration of the degree program.

LIFE AT SZABIST

3. Dr. Essa Laboratory and Diagnostic Centre

Through this collaboration, SZABIST employees can avail varying discounts on health related tests; the parties are also working together on research in the field of Bioscience technology. Dr. Essa Laboratory is providing opportunities of jobs and internships to SZABIST graduates.

4. Ihsan Trust, Meezan Bank Pakistan

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.

5. Universitas Sumatera Utara (USU), Indonesia

This MoU provides a framework for international Cooperation and establish academic linkages between two Institutions.



6. Sindh Police Shaheed Scholarship

This MoU enables children of Shaheed Police Officers of Sindh to study at SZABIST on fully funded scholarship. The MoU is applicable to the Police employees who embraced SHAHADAT while performing their duty within the jurisdiction of the Sindh province.

7. Mehran University of Engineering Science & Technology (ZA Bhutto Campus Khairpur Mir's.

The purpose is to establish strong collaboration between both parties for invigorating a long term relationship which will not only facilitate knowledge sharing but will also provide various opportunities to enhance quality education in the region.

8. Khushhali Microfinance Bank Limited.

The MoU Signed with Khushhali Microfinance Bank Ltd with the aim to extend cooperation and strengthen education and banking sector linkages, an opportunity for placement as well as Internships to our graduates and Alumni.

9. Chughtai Lab Pvt. Ltd.

SZABIST Larkana Campus has signed MoU with Chughtai Lab Pvt. Ltd. The purpose is to promote Healthcare activities, community service and to establish Academia and Health sector linkages between both Parties.

10. Quaid-e-Awam University of Engineering Science & Technology Larkano campus.

SZABIST Larkana Campus has signed MoU with QUEST Larkano campus; the purpose is to establish strong collaboration between both parties for invigorating a long term relationship which will not only facilitate knowledge sharing but will also provide various opportunities to enhance quality education in the region.

A collage of diamond-shaped photographs capturing various moments from the 16th Annual Convocation 2022 at SZABIST. The images show students in traditional Pakistani attire, graduates in blue gowns, and groups holding certificates and awards. One central image features a large group of students and faculty members standing in front of a banner that reads "SZABIST". Another image shows a group of students holding a large Pakistani flag. The collage also includes photos of students in traditional attire, graduates in blue gowns, and groups holding certificates and awards.

FACULTY OF MANAGEMENT SCIENCES



VISION

SZABIST Faculty of Management Sciences aspires to become one of the leading entities for excellence in business education, service, research and innovation.

MISSION

SZABIST Faculty of Management Sciences is committed to:

- Produce highly qualified business professionals to meet dynamic and challenging contemporary needs;
- Generate knowledge and expertise for business and economic solutions through research;
- Create an enabling environment for corporate and entrepreneurial outlook;
- Serve the community through student, faculty, and alumni collaboration.

FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST offer a four-year BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses, 3 credit hours Business Project & 3 credit hours Community Service Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing, Finance and 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 six years. BBA Program is accredited with ACCA-UK and SZABIST's graduates are exempted from six courses of ACCA (F1, F2, F3, F5, F7 & F9).

First Year

Fall Semester	Pre-Req.
BA 1108 IT in Business	
BA 1109 Personal Management and Communication	
BA 1113 Islamic Studies	
BA 1203 Management Principles	
BA 1206 Oral Communication and Presentation Skills	
BA 2307 Sociology	
Spring Semester	Pre-Req.
BA 1101 Introduction to Accounting	
BA 1102 Microeconomics	
BA 1105 English Writing Skills	BA 1206
BA 1204 Maths for Business	
BA 1213 Pakistan Studies	
BA 2312 Human Behavior	

Second Year

Fall Semester	Pre-Req.
BA 1201 Financial Accounting	BA 1101
BA 1202 Macroeconomics	BA 1102
BA 1211 Logic and Critical Thinking	BA 1105
BA 2303 Marketing Principles	BA 1203
BA 2406 Business and Electronic Communication	BA 1105
BA 3504 Organizational Behavior	BA 2312
Spring Semester	Pre-Req.
BA 2301 Introduction to Business Finance	BA 1201
BA 2311 Business Statistics	BA 1204
BA 2402 Retail Management	BA 2303
BA 2403 Business Ethics	BA 1203
BA 2411 Cost and Management Accounting	BA 1201
BA 3507 Consumer Behavior	BA 2303

Third Year

Fall Semester	Pre-Req.
BA 3501 Financial Markets and Institutions	BA 1202
BA 3508 Media Management	BA 2303
BA 3605 Statistical Inference	BA 2311
BA 4706 Development Economics	BA 1202
BA 4801 Law and Taxation	BA 1211
BA xxxx University Elective -I (Offer by Campus)	
Spring Semester	Pre-Req.
BA 3601 Financial Management	BA 2301
BA 3602 Marketing Management	BA 2303
BA 3603 Business Research Methods	BA 3605
BA 3607 Operations Management	BA 1203
BA 4804 Human Resource Management	BA 3504
BA xxxx University Elective-II (as offered by Campus)	

Fourth Year

Fall Semester	Pre-Req.
BA 3502 Entrepreneurship	BA 1203
BA 4705 Services Marketing	BA 3602
BA 4710 Business Project	BA 3603
BA 4814 Project Management	BA 3607
BA 4xxx Elective-I	
BA 4xxx Elective-II	
Spring Semester	Pre-Req.
BA 3505 Quantitative Skills	BA 1204
BA 3609 Pakistan Economy	BA 4706
BA 4704 Management Information Systems	BA 1108
BA 4810 Community Service Project	BA 3603
BA 4xxx Elective-III	
BA 4xxx Elective-IV	

FACULTY OF MANAGEMENT SCIENCES

UNIVERSITY ELECTIVE

(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 3515	Graphic Design for Multimedia*
BA 3621	Professional Development
BA 3521	Auditing
BA 3522	Social Advocacy and Community Service
BA 3622	E-Commerce

ELECTIVES

Finance

BA 4115	Derivatives
BA 4214	Micro Finance
BA 4218	Financial Research
BA 4735	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 4867	Business Analysis and Forecasting*

Marketing

BA 4116	Supply Chain Management
BA 4125	Emerging Media
BA 4126	Trade Marketing
BA 4217	Experiential Marketing
BA 4836	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

BA 4762	Digital Marketing
BA 4868	Marketing Analytics

Supply Chain Management

BA 4116	Supply Chain Management
BA 4126	Trade Marketing
BA 4211	Production Management
BA 4768	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

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

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.

FACULTY OF MANAGEMENT SCIENCES

BS-Accounting & Finance

BS (A&F) is a four years (eight semesters) program and consists of 144 credit hours. Students are required to complete 46 courses and a 6 credit hours of final year project along with six weeks of internship to graduate. BS (A&F) Program is accredited with ACCA-UK and the graduates from SZABIST will get an exemption from nine papers of ACCA (F1 to F9). The maximum duration to complete this degree program is 6 years.

First Year

Fall Semester	Pre-Req.
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 1201 Advanced Financial Accounting	AF 1104
AF 1207 Business Management and Ethics	
AF 2303 Introduction to Psychology	
AF 2304 Introduction to Sociology	
AF 2405 Principles of Microeconomics	

Second Year

Fall Semester	Pre-Req.
AF 1202 Calculus for Business Studies	AF 1101
AF 1206 Principles of Marketing	
AF 2302 Cost Accounting	AF 1201
AF 2305 Organizational Behavior	AF 2303
AF 3505 Principles of Macroeconomics	AF 2405
AF 4703 Introduction to Business Finance	AF 1201

Spring Semester

AF 2301 Business and Technical English Writing	AF 1103 AF 1203
AF 2401 Management Accounting	AF 2302
AF 2402 Management Information Systems	AF 1102
AF 2404 Money and Banking	AF 3505
AF 2406 Statistics and Probability	AF 1101
AF 3501 Accounting and Financial Information Systems	AF 1201

All courses may not be offered in every semester. Elective courses may vary from time to time. Alternative courses may be substituted as and when required.

Full-time academic load is 18 credit hours. All students are required to register for full load in the first semester.

Third Year

Fall Semester	Pre-Req.
AF 3511 Auditing-I	AF 1201
AF 3506 Statistical Inference	AF 2406
AF 3507 Financial Institutes and Markets	
AF 3606 Taxation	
AF 3607 Corporate Accounting	AF 1104 AF 1201
AF 3608 Islamic Banking and Finance	

Spring Semester

AF 2403 Marketing Management	AF 1206
AF 3605 Financial Reporting	AF 3607
AF 3609 Business Research Methodologies	AF 3506
AF 3611 Auditing-II	AF 3511
AF 4701 Business and Labor Law	
AF 4702 Financial Management	AF 4703

Fourth Year

Fall Semester	Pre-Req.
AF 3603 e-Commerce	
AF 4707 Company Law	
AF 4801 Corporate Finance	AF 4702
AF xxxx Finance Elective-I	
AF xxxx Accounting Elective-I	

Spring Semester

AF 1204 Introduction to Human Resource Management	AF 2305
AF 2306 Pakistan Economic Policy	AF 3505
AF 3504 Entrepreneurship and Small Business Management	AF 1207 AF 4703
AF 4808 Final Project	AF 3609
AF xxxx Accounting Elective-II	
AF xxxx Finance Elective-II	

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.

FACULTY OF MANAGEMENT SCIENCES

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.

ELECTIVES

Accounting

- AF 4722 Advanced Performance Management
- AF 4721 Advanced Audit and Assurance
- AF 4822 Strategic Business Reporting

- AF 4723 Forensic Accounting
- AF 4821 Public Sector Accounting

Finance

- AF 4725 Analysis of Investment and Management of Portfolios
- AF 4825 International Finance
- AF 4824 Financing of SME
- AF 4823 Financial Risk Analysis
- AF 4826 Quantitative Data Analysis
- AF 4724 Advanced Financial Management
- AF 4727 Dynamics of Banking
- AF 4728 Financial Modeling
- AF 4726 Behavioral Finance
- AF 4827 Business Analysis and Forecasting

Courses are subject to change.

FACULTY OF MANAGEMENT SCIENCES



FACULTY OF MANAGEMENT SCIENCES

MBA

For students with 4-year non-business degree/16-years of education, the duration of the MBA program is 2 years. Twenty-two courses (66 credits) and Research Project (6 credits) or Thesis (6 credit hours) are needed to graduate. Students are also required to complete a six-week internship and qualify a non-credit course 'Software Tools for Business' or an exam based on MS-Power Point & MS-Excel in lieu of the course. The maximum duration to complete this degree is 4 years.

First Year

Fall Semester	Pre-Req.
BA 5106 Marketing Management*	
BA 5301 Financial Accounting*	
BA 5302 Microeconomics*	
BA 5418 Managerial Communication*	
BA 5419 Business Management and Ethics*	
BA 5502 Quantitative Tools for Managers	

Spring Semester	Pre-Req.
BA 5205 Human Resource Management*	BA 5419
BA 5401 Introduction to Business Finance*	BA 5301
BA 5402 Macroeconomics*	BA 5302
BA 5405 Statistical Inference*	BA 5502
BA 5411 Cost and Management Accounting*	BA 5301
BA 5501 Applied Research Methods	

A student may take Research Project or Thesis.

*Exempt courses for BBA and Equivalent degree holders

All courses may not be offered in every semester.

Alternative courses may be substituted as and when required.

Second Year

Fall Semester	Pre-Req.
BA 5105 Financial Management*	BA 5401
BA 5203 Strategic Marketing	BA 5106
BA 5308 International Business	
BA 5601 Strategic HRM	BA 5205
BA 5508 Research Project-I (3 Credits) OR	BA 5501
BA 5507 Thesis-I (3 Credits)	
BA 5xxx Elective-I	

Spring Semester	Pre-Req.
BA 5104 Strategic Management	BA 5106, BA 5205 BA 5105
BA 5208 Strategic Finance	BA 5105
BA 5608 Research Project-II (3 Credits) OR	BA 5508 Or
BA 5607 Thesis-II (3 Credits)	BA 5507
BA 5xxx Elective-II	
BA 5xxx Elective-III	
BA 5xxx Elective-IV	

FACULTY OF MANAGEMENT SCIENCES

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 5138 Econometrics
BA 5139 Financial Risk Analysis
BA 5151 International Finance
BA 5155 Mergers and Acquisitions
BA 5179 Commodity Pricing
BA 5187 Business Analysis and Forecasting
BA 5229 Financial Modeling
BA 5232 Portfolio and Investment Management
BA 5254 Fundamentals of Financial Engineering
BA 5262 Behavioral Finance
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
BA 5454 Real Estate Investments and Finance

Banking

BA 5137 International Banking
BA 5175 Banking Operations
BA 5184 Financial Product Regulations
BA 5231 Islamic Banking and Finance
BA 5235 Treasury and Funds Management
BA 5244 Investment Banking
BA 5273 Prudential Regulations
BA 5278 Banking Crises and Management

Human Resource Management

BA 5114 Leadership and Motivation Techniques
BA 5118 Compensation Management
BA 5117 Performance Appraisal
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 5185 Leadership Development
BA 5193 HR Operations and Business Partnering
BA 5196 Conflict Resolution
BA 5215 Recruitment and Selection
BA 5216 Training and Development
BA 5239 HR Policy Development
BA 5251 Human Resource Development
BA 5285 Performance Management

BA 5292 HR Analytics
BA 5297 Human Capital Development and Analytics
BA 5335 Human Resource Audit
BA 5332 Contemporary Issues in Human Resource Management
BA 5435 Human Resource Management and Technology
BA 5452 Psychological Contract in Organizations

Management

BA 5111 Business Process Re-engineering
BA 5112 Change Management
BA 5113 Industrial Management and Labor Relations
BA 5116 Industrial Relations and Labor Laws
BA 5136 Business Strategy and Policy
BA 5152 Event Management
BA 5172 Entrepreneurial Business Strategy
BA 5213 Project Management
BA 5295 Crisis Management
BA 5334 Corporate Sustainability
BA 5242 Lean Six Sigma Manufacturing
BA 5434 Hospitality and Tourism Management
BA 5333 Business Theory
BA 5433 Business Application

MIS

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
BA 5225 Personal Selling

FACULTY OF MANAGEMENT SCIENCES

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 5438 Marketing Practices in Pakistan
 BA 5331 Marketing Analytics
 BA 5339 Packaging for Brands
 BA 5337 Retail Strategy and Structure
 BA 5437 Retail Supply Chain Management
 BA 5436 Retail Operation
 BA 5336 Retail Buying and Merchandising
 BA 5451 Strategic Entrepreneurship
 BA 5355 Marketing Strategies for Emerging
 Economies

Supply Chain Management (SCM)

BA 5191 Advance Manufacturing and
 TPM in SCM
 BA 5194 Supply Chain Finance
 BA 5214 Supply Chain Management
 BA 5263 Dynamics of Logistics and Distribution
 BA 5265 Operational Planning in Supply Chain
 BA 5266 Strategic Procurement in SCM
 BA 5287 Execution and Control of
 Operations in SCM
 BA 5291 Detailed Scheduling and
 Planning in SCM
 BA 5142 Materials Management
 BA 5338 Shipping in SCM
 BA 5432 Green Supply Chain Management
 BA 5431 Supply Chain Operations
 BA 5449 Strategic Warehouse Management
 BA 5439 Green Logistics

Non-Credit Hours Course

BA 5110 Software Tools for Business

Internship

All MBA students are required to complete a 6-week 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.



FACULTY OF MANAGEMENT SCIENCES

Master of Project Management (MPM)

Master of Project Management is designed to provide individuals with cutting edge insights of Project Management, to manage complex projects. Through this one year degree program, students can gain actionable knowledge for real-world challenges which goes beyond traditional project management fundamentals. The classes are offered on weekdays (Monday to Friday) as well as on Weekends (Friday to Sunday). It comprises of 30 credit hours spread over two semesters. Minimum ten courses are required to graduate. The maximum time to complete the degree is 4 years.

PROGRAM OBJECTIVES

- To build proficiency in advance knowledge of project management processes group (project life cycle).
- To build, integrate and apply project management knowledge areas, tools, techniques, and contemporary best practices through project life cycle for projects' outcomes.
- To determine the strategic intent of the organization and integrate it into portfolio and project objectives and outcomes for sustainable organizational competitiveness in changing environment.
- To develop leadership skills in developing project team and managing stakeholders' relationship effectively in multi-context projects.
- To support and demonstrate ethical and professional behavior and compliance to legal and regulatory requirements relating to projects.
- To produce a comprehensive project plan in multi-context environment

PROGRAM LEARNING OUTCOMES

- Integrate and evaluate management knowledge areas, best practices, and emerging trends in making projects' related decisions through projects' life cycle in organizations.
- Build and apply enhanced competence in organizational strategic intent and integrate it into planning and governance through the project life cycle of national and international projects.
- Evaluate and apply leadership skills (emotional intelligence, communication, and interpersonal skills, team building, problem-solving negotiation, and conflict resolution) in developing engagement and building partnerships with stakeholders to create synergy in multi-context projects in a complex business environment.
- Integrate and apply appropriate tools, techniques, and project management approaches in managing projects effectively.
- Demonstrate ethical and professional behavior and compliance to legal and regulatory requirements through the project life cycle.
- Create and present a comprehensive project plan is relevant to students' professional domains.

First Year

Fall Semester

PM 5113 Principles of Project Management
PM 5112 Organizational Project Management
PM 5111 Leadership and Work Ethics
PM 5114 Project Scope and Scheduling Management
PM 5104 Cost and Financial Management for Project

Spring Semester

PM 5351 Project Risk Management
PM 5207 Software Tools for Project Management
PM 5xxx Elective-I
PM 5xxx Elective-II
PM 5208 Capstone Project Management

FACULTY OF MANAGEMENT SCIENCES

ELECTIVE

IT/Telecom

PM 5157 Agile Project Management
PM 5152 Innovation and Technology Management
PM 5159 Project Analytics
PM 5162 Telecom Project Management
PM 5158 Digital Project Management
PM 5161 Project Resource and Communication Management

GOVT/NGO

PM 5361 Government Planning and Development Management
PM 5364 Public Private Partnership Management
PM 5362 NGO Project Management
PM 5363 Project Governance, Monitoring, and Evaluation
PM 5365 Sustainable Development Projects
PM 5155 Project Program Portfolio Management

Construction/Manufacturing

PM 5259 Construction Project Management
PM 5263 Project Procurement and Contractual Management
PM 5264 Project Simulation
PM 5301 Project Quality Management
PM 5261 Blockchain Project Management
PM 5262 Construction Quality and Cost Management

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

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



FACULTY OF MANAGEMENT SCIENCES

Master of Science in Management Sciences

There are two streams available for Master of Science in Management Sciences. One Stream is by Course Work and other one is by Research Work. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In the Research Work Stream, the student is required to complete 8 Courses and Two IRS OR one Thesis of Six Credit hours. In both the streams, 30 Credit hours to be completed. The time limit to earn an MS degree is from 1.5 to 4 years. The detail of two streams is as follows:

1. MS By Course Work Stream

The Scheme of Study is as follows:

- Six Compulsory Courses
- Four Electives
- No IRS or Thesis

Compulsory Courses

MS 5104 Strategic Marketing Decisions
MS 5132 Applied Strategic Management
MS 5137 Research Methods and Techniques
MS 5204 Quantitative Tools for Research
MS 5238 Strategic Human Resource Development
MS 5318 Strategic Finance

Electives (Electives in any of following areas subject to the offering of Course)

- Finance
- Marketing
- Human Resource Management

First Year

Fall Semester	Pre-req.
MS 5137 Research Methods and Techniques	
MS 5132 Applied Strategic Management	
MS 5238 Strategic Human Resource Development	
MS 5104 Strategic Marketing Decisions	
Spring Semester	
MS 5204 Quantitative Tools for Research	
MS 5318 Strategic Finance	
MS 5xxx Elective I	
MS 5xxx Elective II	

Second Year

Fall Semester	
MS 5xxx Elective III	
MS 5xxx Elective IV	

2. MS By Research Work Stream

The Scheme of Study is as follows:

- Six Compulsory Courses
- Two Electives
- Two IRS OR Thesis

Compulsory Courses

MS 5104 Strategic Marketing Decisions
MS 5132 Applied Strategic Management
MS 5137 Research Methods and Techniques
MS 5204 Quantitative Tools for Research
MS 5238 Strategic Human Resource Development
MS 5318 Strategic Finance

Electives (Electives in any of following areas subject to the offering of Course)

- Finance
- Marketing
- Human Resource Management

First Year

Fall Semester	Pre-req.
MS 5137 Research Methods and Techniques	
MS 5132 Applied Strategic Management	
MS 5238 Strategic Human Resource Development	
MS 5104 Strategic Marketing Decisions	
Spring Semester	
MS 5204 Quantitative Tools for Research	
MS 5318 Strategic Finance	
MS 5xxx Elective I	
MS 5xxx Elective II	

Second Year

Fall Semester	
MS 5119 IRS I and IRS II Or	
MS 5219 Thesis Part I	

Spring Semester (Only for Thesis Students)

MS 5xxx Thesis (Part II) If Any	
---------------------------------	--

FACULTY OF MANAGEMENT SCIENCES

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 5317 Seminars in Finance
- MS 5426 Mathematical Modeling in Finance
- MS 5412 Islamic Banking and Finance

Marketing

- MS 5249 Advance Marketing Strategy
- MS 5301 Seminars in Marketing
- MS 5422 Distribution and Channel Management
- MS 5424 Strategic Brand Management
- MS 5429 Marketing Metrics
- MS 5431 Strategic Entrepreneurial Marketing
- MS 5432 Strategic Social Marketing
- MS 5428 Global Marketing Strategies
- MS 5433 Advertising Research
- MS 5434 Behavioral Marketing

Human Resource Management

- MS 5101 Change Management
- MS 5102 Organizational Development
- 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 5241 Public Administration and Governance
- MS 5245 System Thinking and Organizational Learning
- MS 5303 Issues in Strategic Management
- MS 5415 NGO Management
- MS 5423 Global Governance and Development
- MS 5427 Seminars in HRM

Business Analytics

- MS 5467 Tools for Data Analytics (Mandatory for Business Analytics Students)
- MS 5454 Data Mining

Finance

- MS 5461 Fintech/Data Science for Finance
- MS 5452 Applied Time Series Analysis for With Software Forecasting
- MS 5469 Risk Management
- MS 5459 Financial Modelling with Software

Marketing

- MS 5456 Digital Marketing and Social Media
- MS 5468 Retailing and Analytics
- MS 5465 Market Strategy and Forecasting
- MS 5453 Customer Relations Management

Management/HRM

- MS 5455 Decision Support System
- MS 5464 Management Models
- MS 5457 Disaster Management (GIS)
- MS 5463 HR Analytics
- MS 5466 Performance Management

Supply Chain Management

- MS 5471 Strategies for Managing Supply Chain
- MS 5451 Advanced Warehouse, Stores and Material Management
- MS 5462 Green Supply Chain Management
- MS 5458 Distribution Networks

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) OR thesis without completing six 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. A student can take maximum two interdisciplinary elective courses in SS/CS/IT/ Media/MBA program with the prior approval of respective program managers.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES



DEPARTMENT OF COMPUTING

The Department of Computing is aimed to produce **globally recognized scientific and technological experts** in the field of computing. In the recent decade the computer science has played a catalytic role for many real-world applications. This includes, but not limited to, banking, software house, education, government, commerce, security, healthcare etc. The Department of Computing at SZABIST is committed to produce quality graduated who can satisfy the **national and global contemporary scientific and technological needs**. The students are encouraged to render **cutting edge research & development** in the domain of computing to handle **socio-economic challenges**.

PROGRAMS

The Department of Computing at SZABIST offers degree program at undergraduate level. All programs being offered in the Department of Computing are fully in-line with the guidance of Higher Education Commission and in accordance with the national and global industrial needs. The Department of Computing offers following degree program:

- Bachelors of Science in Computer Science

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS Computer Science

The program is offered through a well-trained foreign qualified faculty. It consists of 41 courses (five/six courses per semester) with a total of 130 credit hours. The maximum time to complete the degree is six 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, 0	3
	CSCL 1103	Lab : Fundamentals of Programming	0, 1	1
	CSC 1107	Applied Physics	2, 0	2
	CSCL 1107	Lab : Applied Physics	0, 1	1
	CSC 1108	Introduction to Computer Science	2, 0	2
	CSCL1108	Lab : Introduction to Computer Science	0, 1	1
	CSC 1109	Pakistan Studies	2, 0	2
			18	
Spring Semester				
	CSC 1208	Object Oriented Programming Techniques	3, 0	3
	CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	1
	CSC 2101	Communication and Presentation Skills	3, 0	3
	CSC 2103	Digital Logic Design	3, 0	3
	CSCL 2103	Lab: Digital Logic Design	0, 1	1
	CSC 1206	Probability and Statistics	3, 0	3
	CSC 1209	Islamic Studies/ Humanities	2, 0	2
			16	
Second Year				
Fall Semester				
	CSC 1201	Discrete Mathematical Structures	3, 0	3
	CSC 2102	Data Structures and Algorithms	3, 0	3
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1
	CSC 2201	Computer Organization and Assembly Language	3, 0	3
	CSCL 2201	Lab: Computer Organization and Assembly Language	0, 1	1
	CSC xxxx	University Elective-1	3, 0	3
	CSC xxxx	CS Supporting-1	3, 0	3
			17	
Spring Semester				
	CSC 2203	Database Systems	3, 0	3
	CSCL 2203	Lab: Database Systems	0, 1	1
	CSC 2204	Finite Automata Theory and Formal Languages	3, 0	3
	CSC 2206	Linear Algebra	3, 0	3
	CSC 3202	Design and Analysis of Algorithms	3, 0	3
	CSC xxxx	University Elective -2	3, 0	3
			16	

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Third Year					
Fall Semester					
	CSC 2205	Operating Systems	3, 0	3	CSC 2102
	CSC 2205	Lab: Operating Systems	0, 1	1	
	CSC 3109	Software Engineering	3, 0	3	
	CSC 3201	Compiler Construction	3, 0	3	CSC 2204
	CSC xxxx	CS Supporting -2	3, 0	3	
	CSC xxxx	CS Supporting-3	3, 0	3	
			16		
Spring Semester					
	CSC 1205	Technical and Business Writing	3,0	3	
	CSC 3205	Computer Networks and Data Communications	3, 0	3	
	CSC 3205	Lab: Computer Networks and Data Communications	0, 1	1	
	CSC 4101	Artificial Intelligence	3, 0	3	CSC1201
	CSC 4101	Lab: Artificial Intelligence	0, 1	1	
	CSC 4xxx	CS Elective-1	3, 0	3	
	CSC 4xxx	CS Elective-2	3, 0	3	
			17		
Fourth Year					
Fall Semester					
	CSC 4105	Final Year Project-I	0, 3	3	
	CSC 4106	Parallel and Distributed Computing	3, 0	3	CSC 2205
	CSC 4xxx	CS Elective-3	3, 0	3	
	CSC 4102	Professional Practices	3, 0	3	
	CSC xxxx	University Elective-3	3, 0	3	
			15		
Spring Semester					
	CSC 4201	Information Security	3, 0	3	
	CSC 4205	Final Year Project-II	0, 3	3	
	CSC 4xxx	CS Elective-4	3, 0	3	
	CSC 4xxx	CS Elective-5	3, 0	3	
	CSC xxxx	University Elective-4	3, 0	3	
			15		
			130		

**A CSC xxxx Mathematics deficiency course will be offered to those students who have limited mathematical background (if deemed necessary by relevant PM/HOD).

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

CS ELECTIVES

CSC 4802	Android Application Development
CSC 4703	Applied Data Mining
CSC 4803	Auditing Information Systems
CSC 4804	Business Process Re-engineering
CSC 4705	Control Systems
CSC 4805	Data and Network Security
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 4713	Managing Data-Center Projects
CSC 4812	Mechatronics
CSC 4813	Modeling and Simulation
CSC 4714	Network Security and Encryption
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 4823	Interaction Design
CSC 4719	Game Development
CSC 4721	Introduction to Cloud Computing
CSC 4822	Software Engineering Economics
CSC 4818	Data Sciences
CSC 4824	Embedded Systems
CSC 4825	Computer Graphics
CSC 4722	Introduction to Blockchain Technology
CSC 4723	Blockchain and Smart Contract Development

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 4606	Psychology
CSC 4605	Sociology
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

COMPUTER SCIENCE SUPPORTING COURSES

Coverage of relevant pre-requisite will be ensured while allowing any of the following courses from this category:

CSC 2122	Differential Equations
CSC 1202	Multivariate Calculus
CSC 2123	Graph Theory
CSC 2121	Theory of Programming Languages
CSC 3203	Numerical Computing

DISTRIBUTION OF CREDIT HOURS

Course Group		Cr. Hrs.	%
Computing	Core Courses	39	30%
	Supporting Areas	12	9%
	General Education	19	15%
Computer Science	Core Courses	24	18%
	Electives	15	12%
	Supporting Courses	9	7%
University Electives		12	9%
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 SOCIAL SCIENCES



Department of Social Sciences at SZABIST aims to develop both intellectual and practical skill sets for our well-rounded students so that they shall face challenges of the 21st century and translate them into opportunities while keeping in mind social, economic and sustainable requirements of the region and beyond.

FACULTY OF SOCIAL SCIENCES

Department of Social Sciences

BS Social Sciences

SZABIST offers a comprehensive four year Bachelors degree in Social Sciences with majors in Economics, Political Science/International Relations, Sociology, Psychology, and Development Studies. The degree consists of 46 courses and a Research Project. The students are required to complete a total of 144 Credit hours and an internship. The maximum time limit to complete the degree is six years.

First Year

Fall Semester	Pre-Req.
SS 1105 Microeconomics	
SS 1109 Islamiat/Ethics and Pakistan Studies	
SS 1115 Community Services	
SS 1116 English for General Purposes	
SS 1117 Computer and Web Skills	
SS 1201 Introduction to Social Sciences	

Spring Semester

SS 1155 Introduction to Political Science	
SS 1205 Macroeconomics	SS 1105
SS 2306 Psychology	
SS 2307 Sociology	
SS 2412 International Relations	
SS 1212 Islamic Studies OR	
SS 1213 Humanities* (For non-Muslim students)	

Second Year

Fall Semester	Pre-Req.
SS 2313 Introduction to Social Psychology	SS 2306
SS 2314 Study of Anthropology	
SS 2316 English for Academic Purposes	SS 1116
SS 2318 Mathematics and Statistics	
SS 2413 Philosophy	
SS 1xxx Elective-I	
SS 2319 Introduction to Indus Civilization	

Spring Semester

SS 1209 Social Policy	SS 2307
SS 2406 Gender Studies	
SS 2414 Introduction to Organizational Psychology	SS 2306
SS 2418 Statistical Inferences	SS 2318
SS 3503 Development Studies	
SS 1xxx Elective-II	

Third Year

Fall Semester	Pre-Req.
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 3509
SS 4xxx Major-IV	
SS 4xxx Major-V	
SS 4xxx Major-VI	

Fourth Year

Fall Semester	Pre-Req.
SS 2411 Environmental Studies	
SS 4707 Introduction to Health Psychology	SS 2306
SS 4709 Research Project-I	SS 1001, SS 2306, SS 2411
SS 4xxx Major-VII	
SS 4xxx Major-VIII	
SS 4xxx Major-IX	

Spring Semester

SS 2405 Enlightenment	SS 2413
SS 4804 Public Policy	SS 1209
SS 4809 Research Project-II	SS 4709
SS 4xxx Major-X	
SS 4xxx Major-XI	
SS 4xxx Major-XII	

ELECTIVES

SS 1154 Literature
SS 1157 Comparative Religion
SS 1163 Development and Politics
SS 1164 History of Ideas
SS 1165 Human Geography
SS 1254 World History
SS 1262 Mass Media
SS 1263 Culture and Media in Sindh

FACULTY OF SOCIAL SCIENCES

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
SS 4113	Environmental Psychology
SS 4297	Community 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
SS 4198	Sociology of Health

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	Economics Growth
SS 4184	Poverty and Inequality
SS 4228	History of Economic Thoughts
SS 4249	Pakistan Economy
SS 4251	Sustainable Development
SS 4155	Basic Econometrics

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



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 programs being offered at the Department of Education are designed to meet national and international standards of educational study and research. They conform with the HEC guidelines and cater to the interests of a diverse set of learners who have chosen Education to be their field of study. The programs prepare them for practical leadership roles with sound theoretical standing to make informed decisions.

FACULTY OF EDUCATION

MS Educational Leadership and Management (MS ELM)

The MS in Educational Leadership and Management is a 1.5-2 years program. It is 30 credit hours program. There are two streams available for MS. One Stream is Course Work Based Stream and other one is Research Based Stream. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In the Research Based Stream, the student is required to complete 8 Courses (24 Credit Hours) and Two IRS (6 Credit Hours) OR One Thesis (6 Credit Hours). In both the streams, 30 Credit hours must be completed. The time limit to earn a MS degree is from 1.5 to 4 years.

The students will have the opportunity to specialize in the fields of Sociology of Education, Educational Policy, Testing/Evaluation, Teacher Education, Professional Development, School Administration/Educational Leadership, Guidance & Counseling, Curriculum development, Technology Integration in Education, Early Childhood Education, Higher Education Studies, Educational Psychology and Child Development.

The breakup of 30 credit hours for Research Based Stream as follows: The breakup of 30 credit hours for Coursework Based Stream as follows:

- Two Core Courses (06 Credit Hours)
- Six elective courses (18 credit hours)
- Thesis (6 credit hours) or 2 Independent
- Research Studies (3 credit hours each)

- Two Core Courses (06 Credit Hours)
- Eight elective courses (24 credit hours)
- No IRS or Thesis

First Year		Pre-req.
ELM 5102	Advanced Research Methods and Techniques-I (Qualitative)	
ELM 5103	Advanced Research Methods and Techniques-II (Quantitative)	
ELM 5xxx	Elective-I	
ELM 5xxx	Elective-II	

Spring Semester		Pre-req.
ELM 5xxx	Elective-III	
ELM 5xxx	Elective-IV	
ELM 5xxx	Elective-V	
ELM 5xxx	Elective-VI	

Second Year

Fall Semester		Pre-req.
ELM 5xxx	Thesis I/ 2 Independent Research Studies	
Spring Semester		
ELM 5xxx	Thesis II	

Note:
Course offering may be varied as per university policy.

COMPULSORY COURSES

- ELM 5102 Advanced Research Methods and Techniques-I (Qualitative)
ELM 5103 Advanced Research Methods and Techniques-II (Quantitative)

ELECTIVES

- ELM 5131 Teacher Education
ELM 5132 Organizational Development
ELM 5133 Change Management in Education
ELM 5134 Educational Policy and Practice
ELM 5135 Assessment and Evaluation in Education
ELM 5136 Use of Technology in Education
ELM 5137 Professional Development and Management in Education
ELM 5138 School Evaluation and Monitoring
ELM 5139 Educational Leadership Theory and Practices
ELM 5231 Education in the Context of Conflict
ELM 5232 Finance and Resource Management
ELM 5233 Learning Effectiveness in Higher Education Contexts
ELM 5234 Research Philosophy
ELM 5235 Sociological Issues in Education /Access/Out comes and Quality
ELM 5236 Socio-Politics of Language Policy in Educational Contexts
ELM 5237 Advanced Educational Psychology
ELM 5238 Curriculum Development and Instructional Design

FACULTY OF EDUCATION

ELECTIVES

ELM 5235 Sociological Issues in Education /Access/Out comes and Quality
 ELM 5233 Learning Effectiveness in Higher Education Contexts
 ELM 5136 Use of Technology in Education
 ELM 5231 Education in the Context of Conflict
 ELM 5236 Socio-Politics of Language Policy in Educational Contexts
 ELM 5133 Change Management in Education
 ELM 5134 Educational Policy and Practice
 ELM 5135 Assessment and Evaluation in Education
 FIJM 5138 School Evaluation and Monitoring
 FIJM 5131 Teacher Education

FIJM 5234 Research Philosophy
 ELM 5137 Professional Development and Management in Education
 ELM 5232 Finance and Resource Management
 ELM 5132 Organizational Development
 ELM 5237 Advanced Educational Psychology
 ELM 5139 Curriculum Development and Instructional Design
 ELM 5238 Educational Leadership Theory and Practices
 ELM xxxx Globalization and Critical Perspectives in Educational Leadership

Note:

Course offering may be varied as per university policy.



ACADEMIC CALENDAR 2022-23 (Larkana Campus)

ACADEMIC CALENDAR 2022-23 (Larkana Campus)

FALL 2022

WEEK	COMMENTS
1	Course Registration
2	IS Thesis Advisors Meeting
3	
4	
5	Teaching Evaluation
6	Teaching Evaluation
7	
8	Mid-Term Exams
9	
10	
11	Last Week to Withdraw from Courses
12	
13	
14	
15	
16	Dead Week
17	Final Exam Week
18	Final Exam Week
	New Faculty Meeting/Orientation
	IS Thesis Advisors Meeting
	Comprehensive Exam
	Independent Research Study Presentations of MS/PhD students

Classes Commencement Date

Karachi Campus:	26 September, 2022
Hyderabad Campus:	22 August, 2022
Larkana Campus:	03 October, 2022
Islamabad Campus:	12 September, 2022
Dubai Campus:	03 October, 2022

ACADEMIC CALENDAR 2022-23 (Larkana Campus)

ACADEMIC CALENDAR 2022-23 (Larkana Campus)

SPRING 2023

WEEK	COMMENTS
1	Course Registration
2	
3	
4	
5	Teaching Evaluation
6	Teaching Evaluation
7	
8	Mid-Term Exams
9	
10	
11	Last Week to Withdraw from Courses
12	
13	
14	
15	
16	Dead Week
17	Final Exam Week
18	Final Exam Week
	New Faculty Meeting/Orientation
	Independent Research Study Presentations of MS/PhD students
	Comprehensive Exam

Classes Commencement Date

Karachi Campus:	13 February, 2023
Larkana Campus:	20 February, 2023
Islamabad Campus:	13 February, 2023
Dubai Campus:	27 February, 2023
Hyderabad Campus:	16 January, 2023

CAMPUS WISE PROGRAMS OFFERING (FALL 2022)

PROGRAMS OFFERING AT DIFFERENT CAMPUSES OF SZABIST (FALL 2022 - Spring 2023)

PROGRAMS	CAMPUS				
	Karachi	Islamabad	Larkana	Hyderabad	Dubai
Bachelor of Business Administration (BBA)	✓	✓	✓	✓	✓
BA (Hons.) in Business Studies (BABS)	✓				
BS Accounting & Finance	✓	✓	✓	✓	
BS (Accounting & Finance) 2.5 Years ICAP/CAF Qualified	✓				
BS Entrepreneurship	✓				
BS Computer Science	✓	✓	✓	✓	✓
BS Artificial Intelligence	✓	✓			
BS Software Engineering	✓	✓		✓	
Bachelor of Media Science	✓	✓			
BS Social Sciences	✓	✓	✓	✓	
BE Mechatronic Engineering	✓				
BS Biosciences	✓				
BS Biotechnology	✓				
BS Educational Psychology	✓				
BS Public Health	✓		✓		
Bachelor of Law (LLB)	✓				
Certificate of Higher Education in Common Law (CetHE)	✓				
CILT (UK) Level 5 Professional Diploma in Logistic & Transport	✓				
Master in Business Administration (MBA)	✓	✓	✓	✓	✓
Executive MBA	✓	✓			✓
Masters in Project Management	✓	✓	✓		✓
Professional MBA		✓			
Masters in Human Resource Management		✓			
Master of Advertising	✓				
MS Public Health (MSPH)	✓		✓		
MS Biosciences	✓				
MS Biotechnology	✓				
MS Computer Science	✓	✓		✓	✓
MS (CS) with specialization in Core Computing	✓				
MS (CS) with specialization in Software Engineering	✓	✓			✓
MS (CS) with specialization in Networks & Security	✓	✓			✓
MS Cyber Security	✓	✓			
Master of Media Science	✓	✓			
MS Management Science	✓	✓	✓	✓	
MS (Business Analytics)		✓			
MS Developmental Studies		✓			
MS Mechatronic Engineering	✓				
MS Data Sciences	✓	✓			
MS Educational Leadership and Management	✓		✓		
MS Project Management	✓	✓			
MS Social Sciences	✓	✓			
MS (SS) with specialization in Economics	✓	✓			
MS (SS) with specialization in Psychology	✓	✓			
MS (SS) with specialization in Clinical Psychology	✓	✓			
MS (SS) with specialization in Sociology	✓	✓			
MS (SS) with specialization in International Relations	✓	✓			
PhD Social Sciences	✓				
PhD (SS) with specialization in Economics	✓				
PhD (SS) with specialization in Psychology	✓				
PhD (SS) with specialization in Sociology	✓				
PhD (SS) with specialization in International Relations	✓				
PhD Computing	✓	✓			
PhD Management Sciences	✓	✓			
PhD Biosciences	✓				
PhD Educational Leadership and Management	✓				



We Just Don't Work Hard We Work Smart

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.

SZABIST KARACHI CAMPUS
 99 and 100 Clifton, Karachi 75600
 Phone: 92-21-111-922-478.
 Email: info@szabist.edu.pk.
www.szabist.edu.pk.
www.facebook.com/szabistofficial



SZABIST ISLAMABAD CAMPUS
 Street # 09, Plot # 67 Sector H-8/4,
 Islamabad, Pakistan
 Phone: 92-051-4863363-5
www.szabist-isb.edu.pk
 Email: info@szabist-isb.edu.pk



SZABIST LARKANA CAMPUS
 Sachal Colony, Larkana, Sindh,
 Pakistan
 Phone : 92-74-4752890-3
www.lrk.szabist.edu.pk
 Email: info@lrk.szabist.edu.pk



SZABIST HYDERABAD CAMPUS
 Ground, 3rd & 4th floor,
 State Life Building,
 Thandi Sarak, Hyderabad
 Phone # 92-22-2782442-43,
 Fax # 92-22-2782444
www.hyd.szabist.edu.pk
 Email: info@hyd.szabist.edu.pk



SZABIST DUBAI CAMPUS
 6th Floor, Block-10, Dubai International
 Academic City, Dubai, U.A.E
 P.O Box No: 345004,
 Phone: +97143664601,
 Fax: +971 4 3664607
 Email: info@szabist.ac.ae,
www.szabist.ac.ae



@szabistlarkanacampus



@szabistlarkanacampus



@szabistlarkanacampus



@szabistlarkanacampus



lrk.szabist.edu.pk

Shaheed Zulfikar Ali Bhutto Institute of Science & Technology