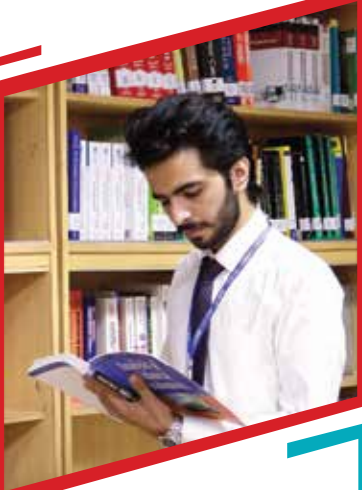




SZABIST

Discover
Yourself



PROSPECTUS 2023-24 HYDERABAD CAMPUS



Shaheed Zulfikar Ali Bhutto Institute of Science & 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.

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SHAHEED ZULFIKAR ALI BHUTTO



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

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

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

SHAHEED MOHTARMA BENAZIR BHUTTO



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

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

Reconciliation: Islam, Democracy and the West, 2008.

CHANCELLOR'S MESSAGE



I welcome you to join the Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST), one of the most prestigious higher education institutions of Pakistan.

At SZABIST, we believe that innovative thoughts and high ideals teach the values of hard work, 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 have also established our campus at Ghara, which opened 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 **"Graduate Research"** 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, Ghara 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 2023 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

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 six campuses located in Karachi, Hyderabad, Larkana, Islamabad, Dubai (UAE), and Gharo with a current student population of over 18,000, collectively. Altogether over 28,000 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.

The Institute offers undergraduate, graduate and post graduate degrees in 5 different disciplines: Faculty of Management Sciences, Faculty of Computing and Engineering Sciences, Media Sciences, Faculty of Education and Social Sciences, and Faculty of Life Sciences. In addition, SZABIST offers LLB program, CertHE (Law), and BABS program as external programs in affiliation with University of London and Coventry University, UK, respectively.

Further, SZABIST is ranked as one of the most reputed universities by Higher Education Commission (HEC), Pakistan and Chartered Inspection and Evaluation Committee (CIEC) Sindh, Pakistan. All programs of SZABIST are conducted under strict compliance of the relevant regulatory bodies such as NBEAC, NCEAC, NACTE, PEC and KHDA Dubai (UAE).

Furthermore, the Institute has signed MoUs with various reputable and distinguished organizations and institutions such as Istanbul Medipol University, Turkey; University of London, UK; ICRC, Aman Foundation and JS Bank.

SZABIST Hyderabad Campus is situated at Thandi Sarak - the jugular vein of Hyderabad, in StateLife building. Plans are underway for the construction of a purpose built campus to cater the growing educational needs of Hyderabad.

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 46 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 Program Electives courses from Management, Marketing, Finance, Business Analytics, Entrepreneurship or Supply Chain Management. 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, Hyderabad, will get an exemption in 06 out of 09 ACCA Foundation papers (F1, F2, F3, F5, F7 and F9). BBA students and alumni are exempted from all 13 courses of Chartered Institute of Management Accountants (CIMA) qualification, and are only required to pass three case studies. BBA Program has been accredited by National Business Education Accreditation Council (NBEAC) which is an independent professional council established by HEC and affiliated with Chartered Financial Analyst (CFA) Institute.

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. BSAF students are exempted from all 13 courses of Chartered Institute of Management Accountants (CIMA) qualification, and are only required to pass three case studies. Whereas, BSAF alumni will be exempted from all 13 courses and operational level case studies and will only attempt two case studies.

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 from 60 credit hours (20 course) 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 semester).

Bachelor of Science in Computer Science (BS CS)

SZABIST offers a four-year (eight semesters) BS Computer Science degree program which is accredited by National Computing Education & Accreditation Council, (NCEAC). The program covers a wide range of courses in core Computer Science, Information Technology and Software Engineering. The program is essentially a full time 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 Software Engineering (BS SE)

The BS Software Engineering program is offered through a trained foreign qualified faculty. It consists of 42 courses with a total of 130 credits hours. The maximum duration to complete the degree is six years. The core courses focus on the fundamentals of software engineering followed by a broader range of courses through which students can choose to specialize their learning. The BS Software Engineering curriculum covers all important facets of the discipline of software engineering including project management, requirements analysis, software architecture, software development, and quality assurance. Throughout the degree program, students are exposed to the theory, techniques, tools, and practicalities of software engineering.

Bachelor of Science in Artificial Intelligence (BS AI)

BSAI program is offered by the Department of Computer Science. The BSAI is a 4 year program and consists of 41 courses with a total of 130 credit hours. The Internship opportunities are provided to complete degree requirement. BSAI is a full time day program that covers the emerging dimensions of Machine Learning,

PROGRAMS & CURRICULA

Deep Learning, Explainable AI, Evolutionary Computing, Computer Vision, Software Engineering, Natural Language Processing etc. The program comprises of 39 credit hours of Core Computing course, 18 credit hours of Computer Science Core courses, 19 credit hours of General Education courses, 18 credit hours of Artificial Intelligence Core courses, and 36 credit hours of Elective courses. The maximum duration of the 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.

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. MBA Program has been accredited by National Business Education Accreditation Council (NBEAC) which is an independent professional council established by Higher Education Commission.

SZABIST offers MBA program with specialization in Marketing, Finance, Management, Human Resource Management, Supply Chain Management and Banking. 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 undergraduate degrees in Management Sciences, Business Administration, Commerce 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 a six week duration of internship during summer.

MBA (non-finance electives) students and alumni are exempted from all 13 courses of Chartered Institute of Management Accountants (CIMA) qualification, and are only required to pass three case studies. MBA students with finance electives and alumni are exempted from all 13 courses and operational-level case studies and will only attempt two case studies.

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.

Master of Science in Computer Science (MS CS)

Master of Science in Computer Science (MS CS) SZABIST offers MS (CS) degree in three domains: Core Computer Science area and in two specialization tracks, i.e., Software Engineering (SE) and Networks & Security (N&S). Students are required to complete 3 focused courses in any specific domain.

The program is of 2-year duration and is offered in the evening. It requires 33 credit hours to complete. Student has the option to complete MS through course work only or with research. If student opts for course work only, he/she is required to complete 11 courses of 3 credit hours each. Else, the student is required to complete 9 Courses (27 credit hours) and Two Independent Research Study (6 credit hours) OR One Thesis (6 credit hours).

Eligibility for this program is a 4-year BS (CS) or 2-year MCS degree from a recognized institution. The candidates with a 4-year professional degree (BE, MSc, etc.) may also apply but will require to complete deficiency conversion courses (up to 12 credit hours

PROGRAMS & CURRICULA

courses to be determined in consultation with Program Manager). The programs such as BSCS, BSIT, BSSE, BSCE & BSCSE shall not require any extra courses. As per HEC guidelines, all MS students are required to clear GRE or GAT General test or HAT relevant with minimum 50% score. The maximum time limit to complete the MS degree is four years.

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-	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.
- Conversion of A-Level grades or equivalent must be 50% and above for all undergraduate programs except Life Sciences.
- Intermediate students are required to get their SSC and HSSC certificates attested by Inter Board Committee of Chairmen (IBCC).
- 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 students.
- Equivalency of international degrees from Higher Education Commission of Pakistan (HEC) is mandatory for all Masters & MS 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 Programs

For admission in the BBA/BS 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 and Software Engineering, candidates with mathematical background will be preferred.

For BS Artificial Intelligence program Candidates with non mathematical background must have to pass deficiency courses of Mathematics (6 credit hours) in first two semesters.

MASTER 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 Science in Management Sciences (MSMS)

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.

Master of Science in Computer Science

For admission to MSCS program, candidates must possess 16 years of relevant education with minimum 50% marks/2.0 CGPA from a university recognized by HEC. GAT (General) or HAT relevant is mandatory for MS students with minimum 50% score.

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)/HAT relevant with minimum 50% score. GRE (General) with a minimum cumulative score of 310 with not less than 150 marks in Verbal section or Quantitative section of the test.

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.

Bachelor Course Transfer

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

ADMISSION REQUIREMENTS

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.

The minimum letter grade of Certificate courses from SZABIST which are transferable to regular degree program: 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
- 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



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 have 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 bite 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.

A dedicated Lab for Management Science program is established for research development and training purpose for students MS and PhD program this lab is equipped with tremendous high speed 12th generation computers for students.

SZABIST library holds a rich collection of books, Journals, Magazines, and a large number of digital libraries and online databases. SZABIST Library has fourteen 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.

LIFE AT SZABIST

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.

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.

SZABIST has commissioned Robotics and Artificial Intelligence lab equipped with tremendous high speed GPU laptops for students. These laptops are connected with SZABIST network through Wi-Fi and brand bend to cater students assignments and projects.

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.

Board of Advanced Studies and Research (BASR)

SZABIST has also constituted a Board of Advanced Studies and Research (BASR) which holds its meetings twice a year to discuss and approve/disapprove, the recommendations sent by Doctoral and Research Committees. This is chaired by the President of SZABIST and co-chaired by the Vice President (Academics). The board further considers and reports to the authorities on the award of research degrees, proposes by-laws and policies regarding MS/PhD programs (across all campuses) and the initiation, execution, and award of research degrees; provides approvals on appointments of supervisors for postgraduate research students and approves titles and synopses for their theses or dissertations, as recommended by DC. The decisions taken in BASR are ratified in the Academic Council.

Academic Council

Academic Council is the highest academic statutory body of SZABIST. The Council is responsible for developing and maintaining a mechanism to offer quality education across all the campuses of SZABIST. The Council, in general, takes into consideration matters related to introduction of new program, changes in existing program structure, introduction of new courses, revision in course outlines, policy framework related to entry and exit of students and policy matters pertaining to research and development. The regular agenda items are forwarded by Board of Faculty (BoF) and Board of Advanced Studies and Research (BASR). The frequency of Academic Council's Meeting is twice a year and the meeting is chaired by the President and Co-chaired by Vice President Academics of SZABIST. The members include Deans, Registrar, HoCs, HoDs and external experts from academia and industry.

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.

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

LIFE AT SZABIST

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 - 23

ORIC SZABIST secured X category (65 Marks) in HEC evaluation 2012-22, which is leading towards research intensive university and bidding global research projects and collaboration.

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 – Throughput – Output” strategy that creates enabling environment for linking academia with the industry.

ORIC SZABIST has completed its half journey for academic session 2022-23 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 published Research Funding Window (RFW) and Country Profile - Research & Innovation Indicators (CPRII) for researcher and scientists. ORIC SZABIST contesting several national and international research projects such as

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Medical Research Council United Kingdom and Higher Education Commission (HEC) supported grants Technology Development Fund (TDF) and Rapid Technology Transfer Grant (RTTG).

ORIC SZABIST has fully functional website and ranked in "X" category according to latest HEC evaluation. Recently ORIC participated in National Idea Bank Competition and won prize money in Education & Health Care Sector projects. Business Lounge is another initiative of ORIC that link newly awarded FYP students with the industry. Similarly, ORIC has developed its external as well as internal Data Bank for researchers and policymakers. Finally, ORIC is ready to organize its annual showcasing event "FYP Conference" 2022-23.

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

Data Centre

The Data Center has been designed with the Telecommunication Industry Association's (TIA-942) Tier-II international infrastructure standards including raised flooring, redundant HVAC precision units, fire detection, alarm & suppression system, precision UPS & power system, CCTV and access control system for remote monitoring. The Data Center is responsible for providing LAN & WAN connectivity, Web Services, Video Conferencing, hosting private cloud services and Server Farm (including Domain Controllers, Proxy, Email, Web, Network Management, Electronic Bulletin Board, ZABDESK ERP and many more) and other related services of all five campuses, ZABTECH and IMC.

Computing Resources

Computing resources of the data center is comprising of 20 TFLOPS of processing speed with high performance and reliable 100 Tera Bytes of storage capacity. The data center is equipped with UPS backup and 12-ton redundant precision cooling system for reliability of data center and protected by FM-200 based Automatic Fire Detection and Suppression System and manual fire extinguishers. CCTV cameras and Access Control systems are intact for effective surveillance and restricting unauthorized access to the facility.

Campus Network Infrastructure

Campus network is based on n-tier architecture which includes security, core, distribution and access layers. The backbone comprises three upper layers i.e. security, core and distribution as well as primary & backup fibre optic link connectivity for all buildings. In Data Center, redundant Chassis-based routers, core and distribution switches and firewalls with high transmission rate are commissioned, where device and link redundancy has been maintained at

every level to ensure un-interrupted ICT services to users. Gigabit Access Network has also been commissioned to ensure high-speed computing at user end, where access switches of high switching capacity are installed to handle data and multimedia traffic, efficiently. Proper NMS server installed to monitor and manage the whole network infrastructure, which can send alert on any fault, performance bottleneck and/or security issues.

Wireless Mesh Network

A secured Wi-Fi mesh network has been implemented throughout the campus. Wireless indoor and outdoor Access Points (APs) have been installed to give internet/intranet access to students, faculty and staff employs latest wireless protocol 802.11n with each AP providing a bandwidth up to 300 Mbps to the users.

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 digital is a streaming simulcast radio station exclusively to impart and disseminate education for the students around the world via www.zabfm.org and ZABFM DIGITAL (Play store). 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. 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.

Student Support Services

For more than a decade (2009-to date), the main campus of SZABIST has been fortunate to have a unique and diverse student body with a healthy record of activities and a proud history of achievements. Since 2014, with the establishment of the Department of Student Support Services a more organized and focused approach has been adopted with the aid of student advisory policies and guidelines for activities in the form of standard operating procedures and financial prudence guidelines with emphasis on paperwork

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and documentation/reports for record keeping all of which added much needed structure to student activities at the institute. The Student Advisory Office and the Executive Development Centre (EDC) work under the SSS.

In 2015, the same system was gradually introduced at other campuses of SZABIST and by now they have all had annually elected student council bodies.

The Student Support Services aim to provide students with a platform that allows them to conduct activities which work towards the development of a stronger, wiser and a more united student populace in Karachi. It works to inculcate in young minds the values of unity, tolerance, inclusion and leadership and through engagement with other campuses of SZABIST and universities across the country realize the objectives of our core areas of focus, nationally as well.

The Student Support Services has an Office of Student Advisory and the Executive Development Centre working under it.

The Office of Student Advisory

The Office of Student Advisory/Affairs provides guidance on all extra-curricular activities that take place on campus. The Student Affairs Advisor:

- Manages and supervises overall activities of Student Societies and SZABIST Student Council (SSC) at SZABIST, Hyderabad. Acts as a liaison between the SSC and the management of SZABIST.
- Ensures that SSC and its societies' activities are held in compliance with the SSC constitution, financial and administrative procedures and SZABIST management guidelines.
- Arranges student activities within and outside campus through Activities Coordinators and staff of the Department of Student Support Services.
- Counsels students regarding their behaviour and general guidance and helps them to understand their potential and ways to pursue their goals.
- Certain cases may be referred to Head of Student Support Services or Vice President (Academics)

SZABIST Student Council (SSC)

Established in 2009, the 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 rigorous process all on an annual basis to form the student government at the institute, under the supervision of the Student Affairs Advisor.

Furthermore, it acts as a parent body to its chapters in other

campuses of SZABIST namely, SSC-Karachi Chapter, SSC-Islamabad Chapter SSC- Larkana Chapter, SSC-Dubai Chapter and SSC-Gharo Chapter.

What does SZABIST Student Council (SSC) do?

The SSC has been engaged in initiating wide range of meaningful activities ranging from intellectual programs to competitive sporting events. Among the most notable is the annual **LEAD Convention**, where SSC provides a platform to the young leaders, from all universities across the city, to contemplate over the global issues that require sustainable yet immediate solutions.

To offer a vibrant and healthy students environment at SZABIST, the SSC also arranges the Annual Orientation to welcome the new students, Beach Party, Musical Concert, Mehfil-e-Mushaira, Qawwali night, Graduation Week and many more other entertaining events.

SSC, being a proactive student body, engages in community services to inculcate a responsible citizenship behaviour among students. In this regard, the SSC has signed MoUs with different organizations and NGOs to contribute in various noble causes. Urban Forest and The ELF (Environmental Leaders Forum) are two such MoUs where the SSC is practically engaged in environmental protection and conservation through trainings, awareness programs, fundraisers, students' projects and other healthy activities. The SSC has also joined hands with the Ismail Industries Foundation for reducing the use of plastic on campus. In collaboration with the Ismail Foundation, special bins have been placed across all campuses to collect plastic on a daily basis. Burns Centre is another organization, the SSC and Rotaract Club of Karachi Campus have vowed to work for. Under this MoU, the students of SZABIST contribute to spread awareness among masses related to managing injuries due to burns and their precautions. Further, SSC has also extended help to the countrymen whenever there is a need in times of national crisis like the flood disaster in the year 2022.

Structure of SSC

The SSC is an elected student body that is comprised of the Executive Branch (EB), Council of Common Interests (or Program Representatives), General Body and Societies Committee.

The Executive Branch of the SSC consists of elected members to serve as President, Vice President, General Secretary, Treasurer, Secretary Legal, Secretary Operations, Secretary Resource Mobilization, Secretary Media and Communication and Secretary Projects and Training.

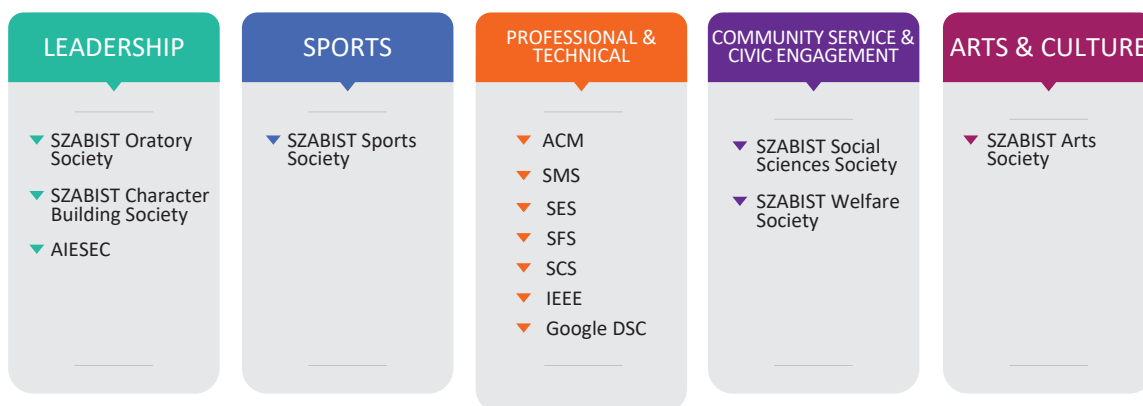
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The Five Pillars of SSC

The SSC and all its student associations and clubs fall under the purview of and are registered with, the Office of Student Advisory once they are formed. The SSC has 5 thematic pillars, under which different student societies and projects operate. Each student society offers engaging events and programs for the students at SZABIST. The events include Farewell Dinner and Alumni Reunion, Graduation Week, Recreational Trips and Learnfest from the Student Council. SZABIST Cricket League and Sportfest from the Sports Society, Educational Study Tours from Social Sciences Society, Startup Extravaganza from the Entrepreneurial Society and Retail Extravaganza from the Marketing Society. ZABWELFARE arranged Medical Facilitation Camps and various donation drives (food commodities, clothes and tents) for the Flood Affectees, Blood Donation Drives for Thalassemia Patients and Plantation Drives.



The 5 pillars and respective societies are mentioned below:



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Executive Development Center (EDC)

The Executive Development Center (EDC) at SZABIST Hyderabad 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".

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 o ce 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.



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ZABSolutions

SZABIST has its own software house that fulfills the software needs of the SZABIST. The state-of-the-art applications that ZABSolutions 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 ZABSolutions incubator help students foster their software skills. Students can access ZABSolutions' 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

The MoU will provide exemption from ACCA papers to Bachelors of Business Administration and BS Accounting & Finance courses.

2. Balochistan Education Endowment Fund Scholarship, Pakistan

Under this MoU Government of Balochistan will be providing fully funded scholarship to 5-6 meritorious and financially challenged students of SZABIST who are local domicile certificate holders of Balochistan. The scholarship will be for the complete duration of the degree program.

3. CISCO Networking Academy

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

4. Coventry University, UK

Through this MoU, SZABIST students enrolled in Bachelors of Arts in Business Studies (BABS) will be conferred Coventry University degree on completing two years of education at SZABIST and one year at Coventry University, UK.

5. Dr. Esssa Laboratory and Diagnostic Centre

SZABIST employees will avail varying discounts on health related tests, the parties will work together on research in the field of Bioscience technology. Dr. Essa Laboratory will also provide opportunities of jobs and internships to SZABIST graduates.

6. Greenstar Social Marketing Limited (GSM), Pakistan

Through this MoU SZABIST and GSM will work on the field of research pertaining to Family planning and child health.

7. 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.

8. Integration Xperts (Private) Limited, Pakistan

Integration Xperts (Private) Limited and SZABIST will do Joint Research and Development on Bio-Sciences Health Tech Solutions such as Mobile Diagnostics, Diabetes Management and Remote Health Monitoring of Infants and Old Age people.

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9. International Center for Chemical and Biological Sciences, University of Karachi, Pakistan

This MoU provides a framework for mutually beneficial cooperation between the two parties through different activities and research projects.

10. International Committee of the Red Cross (ICRC), UK

Through this MoU SZABIST Law Department will work with ICRC to promote and implement legal changes for protection of health care against violence. Both parties to collaborate for improved protection of health care workers, patients, facilities and transport through mobilization of a broad Community of Concern and advocacy.

11. Mitsubishi Corporation, Japan

Mitsubishi Corporation through this MoU would be awarding 100% scholarship three students enrolled in the Media Science BSMS program.

12. NOWPDP

NOWPDP a Disability Inclusion Initiative and SZABIST Karachi-BBA have joined hands for supporting initiatives for persons with disabilities in the province of Sindh. Both the parties will facilitate access to opportunities and services for persons with disabilities.

13. OPEN Organization of Pakistani Entrepreneurs of North America

SZABIST and OPEN Karachi Chapter will jointly establish student chapter to promote entrepreneurship and innovation among Pakistani youth by providing trainings, conducting workshops and seminars.

14. Orange Tree Foundation OTF, Pakistan

SZABIST collaborated with Orange Tree Foundation for providing scholarships for the students of SZABIST. This MoU ensures equitable opportunities of education for all the needy yet bright students. To bring them at par of mainstreaming through creating a critical mass of talented youth for the development of society.

15. Sindh Police Shaheed Scholarship

The MoU will enable children of Shaheed Police Officers of Sindh to study at SZABIST on scholarship. The MoU will be applicable to the Police employees who embraced SHAHADAT while performing their duty within the jurisdiction of the Sindh province.

16. Tabba Kidney Institute

SZABIST and Tabba Kidney Institute will participate in collaborative research and in capacity building activities. And both will conduct academic research to get further insights into the areas of Urology. Students of Bachelor of Science in Public Health (BSPH) will get the opportunity of certificate-based volunteer work in TKI. To foster increased interaction among TKI research staff, SZABIST faculty and advanced / graduate students engaged in scientific and scholarly research in areas of mutual interest.

17. The Citizen Foundation, TCF Pakistan

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

18. The Chartered Institute of Logistics and Transport (CILT), UK

SZABIST has signed a MoA with CILT for introducing certification in logistics and transport. To attain this certification, a total of three mandatory courses will have to be completed.

19. University of London, UK

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

20. CIMA

SZABIST BSAF, BBA, BABS, BSENT, EMBA, and MBA (non-finance electives) students and alumni will be exempt from all 13 courses and will only attempt three case studies. MBA students with finance electives and BS (Accounting & Finance) alumni will be exempt from all 13 courses and operational-level case studies and will only attempt two case studies. BSAF students are exempted from all 13 courses of Chartered Institute of Management Accountants (CIMA) qualification, and are only required to pass three case studies. Whereas, BSAF alumni will be exempted from all 13 courses and operational level case studies and will only attempt two case studies.

21. Gaditek

SZABIST and Gaditek collaborate in strengthening the undergraduate degree programs of Management Sciences, Computer Science and Media Science by providing real life, research and development, industrial, capstone and final year projects to SZABIST students.

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22. National Clearing Company of Pakistan Limited (NCCPL)

SZABIST and NCCPL commit to organize awareness sessions, recruit talented students and explore possibilities in relation to the development of Capital Market through Investor Education, Curriculum Development, and Jointly Holding of Conference/Seminar on Capital Markets.

23. Pathfinder

SZABIST and Pathfinder aim to collaborate, develop and launch innovation startups, learning hubs on ideas such as Reproductive health, Family Planning, Climate change and its Impact on women. Students of Life Sciences and Social Sciences will be working to provide solutions for the above stated issues.

24. Health Services Academy

The potential areas of collaboration between both parties are; Internships and practicum for the MSPH students, Joint/Mutual Research programs, collaboration for funded Projects, Conferences, Seminars, Certificate and diploma programs, On-the-job research training programs, and Faculty development program.

25. Afzaal Memorial Thalassemia Foundation (AMTF)

SZABIST BABS Program will help the AMTF to conduct Blood Drives annually, for which all the resources will be arranged by AMTF. The Blood collected through Blood Drive will be used for the treatment of Thalassemia Patients.

26. Indus Hospital & Health Network (IHHN)

Through this MoU SZABIST and IHHN will make joint efforts to promote initiatives that aim to foster a sense of Social Responsibility among the students.



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 students, faculty, and alums.

FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST offers a four-year (eight semesters) BBA degree program of 144 credit hours. For the BBA program, students are required to complete 46 courses and a 03 credit hours Business Project & 03 credit hours Community Service Project. The courses include 42 compulsory courses and 4 Program Electives from Management, Marketing, Finance, Business Analytics, Entrepreneurship or Supply Chain Management. To obtain the BBA degree, students have to complete 144 credit hours and an internship. The degree needs to be completed within six years. BBA program is an ACCA accredited program; those who complete BBA from SZABIST, Hyderabad, will get an exemption in 06 out of 09 ACCA Foundation papers (F1, F2, F3, F5, F7 and F9). BBA students and alumni are exempted from all 13 courses of Chartered Institute of Management Accountants (CIMA) qualification, and are only required to pass three case studies. BBA Program is also accredited by National Business Education Accreditation Council (NBEAC), and affiliated with Chartered Financial Analyst (CFA) Institute.

First Year

Fall Semester

- BA 1108 IT in Business
- BA 1109 Personal Management and Communication
- BA 1203 Management Principles
- BA 1206 Oral Communication and Presentation Skills
- BA 1119 Islamic Studies / Humanities
- BA 2307 Sociology

Spring Semester

- BA 1101 Introduction to Accounting
- BA 1102 Microeconomics
- BA 1105 English Writing Skills
- BA 1204 Maths for Business
- BA 1213 Pakistan Studies
- BA 2312 Human Behavior

Second Year

Fall Semester

- BA 1201 Financial Accounting
- BA 1211 Logic and Critical Thinking
- BA 3504 Organizational Behavior
- BA 2303 Marketing Principles
- BA 1202 Macroeconomics
- BA 2406 Business and Electronic Communication

Spring Semester

- BA 2311 Business Statistics
- BA 2411 Cost and Management Accounting
- BA 2301 Introduction to Business Finance
- BA 2402 Retail Management
- BA 2403 Business Ethics
- BA 3507 Consumer Behavior

Third Year

Fall Semester

- BA 3501 Financial Markets and Institutions
- BA 3508 Media Management
- BA 3605 Statistical Inference
- BA 4706 Development Economics
- BA 4801 Law and Taxation
- BA xxxx University Elective -I (as offered by Campus)

Spring Semester

- BA 3601 Financial Management
- BA 3602 Marketing Management
- BA 3603 Business Research Methods
- BA 3607 Operations Management
- BA 4804 Human Resource Management
- BA xxxx University Elective-II (as offered by Campus)

Fourth Year

Fall Semester

- BA 3502 Entrepreneurship
- BA 4814 Project Management
- BA 4705 Services Marketing
- BA 4710 Business Project
- BA 4xxx Program Electives-I
- BA 4xxx Program Electives-II

Spring Semester

- BA 3505 Quantitative Skills
- BA 3609 Pakistan Economy
- BA 4704 Management Information Systems
- BA 4810 Community Service Project
- BA 4xxx Program Electives-III
- BA 4xxx Program Electives-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*
BA 3523	Software Tools for Business*

Program 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 4752	Financial Reporting and Analysis
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*
BA 4769	Fintech
BA 4774	Alternative Investments

Marketing

BA-3622	E-Commerce
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 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 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 4859	Product Innovation and Design

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 4826	Talent Management
BA 4837	Performance Appraisal

Business Analytics

BA 4773	Programming for Business
BA 4871	Business Intelligence Tools and Techniques
BA 4872	Consumer Insights and Analytics
BA 4771	Block Chain for Business
BA 4772	Digital Assets
BA 4869	Social Media Analytics
BA 4873	Software Tools for Business*
BA 4867	Business Analysis and Forecasting*
BA 4868	Marketing Analytics

Entrepreneurship

BAxxx	Finance and Taxation for Entrepreneurs
BAxxx	Product Innovation and Design
BAxxx	Digital Entrepreneurship
BAxxx	Entrepreneurial Marketing
BAxxx	Family Business Management
BAxxx	Financial Venture
BAxxx	SME Management
BAxxx	Social Entrepreneurship
BAxxx	Technopreneurship

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

FACULTY OF MANAGEMENT SCIENCES

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

register for full load in the first semester.

Internship

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

BS Accounting & Finance

BS (A&F) is a four year (eight semesters) program and consists of 144 credit hours of teaching. Students are required to complete 46 courses and a 6 credit hours of final year project (to be offered over last two semester) along with six weeks of internship to graduate. The maximum duration to complete this degree program is six years. Graduates of BS (A & F) will get exemptions in nine papers of both Institute of Chartered Accountants of Pakistan (ICAP) and Association of Chartered Certified Accountants (ACCA), UK. BSAF students are exempted from all 13 courses of Chartered Institute of Management Accountants (CIMA) qualification, and are only required to pass three case studies. Whereas, BSAF alumni will be exempted from all 13 courses and operational level case studies and will only attempt two case studies.

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 from 60 credit hours (20 course) of course work and have to complete 78 credit hours (26 courses) of course work and a 6 credit hours Final Project (to be offered over last two semester).

First Year

Fall Semester

- AF 1101 Business Mathematics*
- AF 1102 Computer Concepts and Applications*
- AF 1104 Introduction to Financial Accounting*
- AF 1105 Pakistan Studies
- AF 2409 English Comprehension & Oral Communication*.
- AF 1205 Islamic Studies/Humanities

Spring Semester

- AF 2301 Business and Technical English Writing*
- AF 1211 Business Management*
- AF 1201 Advanced Financial Accounting*
- AF 2303 Introduction to Psychology
- AF 2304 Introduction to Sociology
- AF 2405 Principles of Microeconomics*

Second Year

Fall Semester

- AF 1202 Calculus for Business Studies
- AF 1212 Essentials of Marketing
- AF 2302 Cost Accounting*
- AF 2305 Organizational Behavior*
- AF 3505 Principles of Macroeconomics*
- AF 4703 Introduction to Business Finance*

Spring Semester

- AF 1109 Personal Management and Professional Development
- AF 2401 Management Accounting
- AF 3501 Accounting and Financial Information Systems
- AF 2408 Business Analysis and Forecasting
- AF 2404 Money and Banking
- AF 2406 Statistics and Probability*

FACULTY OF MANAGEMENT SCIENCES

Third Year

Fall Semester

AF 3607	Corporate Accounting*
AF 3511	Auditing -I*
AF 3506	Statistical Inference
AF 3507	Financial Institutes and Markets
AF 3606	Taxation*
AF 3608	Islamic Banking and Finance

Spring Semester

AF 3611	Auditing-II*
AF 3503	Business Ethics
AF 3605	Financial Reporting*
AF 4701	Business and Labor Law*
AF 4702	Financial Management
AF 3609	Business Research Methodologies

*Exempt courses for CAF qualified students of Institute of Chartered Accountants of Pakistan (ICAP).

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.

PROGRAM 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
AF 4831	Forensic Analytics
AF 4732	Tax Crime and Fraud Investigation
AF 4735	Accounting for Islamic Finance

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

Fourth Year

Fall Semester

AF 4xxx	Accounting Elective-I
AF 4707	Company Law*
AF 4801	Corporate Finance
AF 4xxx	Finance Elective-I
AF 4709	Final Project-I
AF 4711	e-Commerce and Management Information System

Spring Semester

AF 1204	Introduction to HRM
AF 2306	Pakistan Economic Policy
AF 3504	Entrepreneurship and Small Business Management
AF 4xxx	Accounting Elective-II
AF 4809	Final Project-II
AF 4xxx	Finance Elective-II

AF 4727	Dynamics of Banking
AF 4728	Financial Modeling
AF 4726	Behavioral Finance
AF 4828	Treasury and Funds Management
AF 4829	Fintech
AF 4832	Financial Data Analytics
AF 4729	Financial Econometrics
AF 4733	Alternative Investments
AF 4734	Financial Derivatives
AF 4833	Investment Banking
AF 4731	Fraud and Risk Management in Financial Institutions
AF 4834	Islamic Insurance-Takaful

Courses are subject to change.

Internship

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

FACULTY OF MANAGEMENT SCIENCES

MBA Program

For students with 4-year undergraduate degree/16-years of education, the minimum duration of the MBA program is 2 years. Twenty-two courses (66 credit hours) and 6 credit hours of Research Project OR Thesis spread over two semesters (3+3) are required to complete the program. Students are also required to complete a six-week internship. The maximum duration to complete MBA program is 4 years. MBA Program is also accredited by National Business Education Accreditation Council (NBÉAC).

MBA (non-finance electives) students and alumni are exempted from all 13 courses of Chartered Institute of Management Accountants (CIMA) qualification, and are only required to pass three case studies. MBA students with finance electives and alumni are exempted from all 13 courses and operational-level case studies and will only attempt two case studies.

First Year

Fall Semester

BA 5301 Financial Accounting*
BA 5419 Business Management and Ethics*
BA 5418 Managerial Communication*
BA 5502 Quantitative Tools for Managers*
BA 5302 Microeconomics*
BA 5106 Marketing Management*

Spring Semester

BA 5402 Macroeconomics*
BA 5205 Human Resources Management*
BA 5411 Cost and Management Accounting*
BA 5401 Introduction to Business Finance*
BA 5405 Statistical Inference*
BA 5501 Applied Research Methods

Second Year

Fall Semester

BA 5308 International Business
BA 5601 Strategic HRM
BA 5105 Financial Management*
BA 5203 Strategic Marketing
BA 5xxx Program Elective-I
BA 5508 Research Project-I (3 Credits) OR
BA 5507 Thesis-I (3 Credits)

Spring Semester

BA 5104 Strategic Management
BA 5208 Strategic Finance
BA 5xxx Program Elective-II
BA 5xxx Program Elective-III
BA 5xxx Program Elective-IV
BA 5608 Research Project - II (3 Credits)
BA 5607 OR Thesis-II (3 Credits)

* Exempted courses for BBA and Equivalent degree holders.

The students with 4-year BBA/BABS/BS (Accounting & Finance)/BS (Entrepreneurship) or equivalent degree are exempted 36 credit hours of course work. The minimum duration of degree for such students will be 1.5-year with the following program structure:

First Year

Fall Semester

BA 5104 Strategic Management
BA 5501 Applied Research Methods
BA 5203 Strategic Marketing
BA 5208 Strategic Finance

Spring Semester

BA 5601 Strategic HRM
BA 5xxx Program Elective-I
BA 5xxx Program Elective-II
BA 5508 Research Project-I (3 Credits) Or
BA 5507 Thesis-I (3 Credits)

Second Year

Fall Semester

BA 5308 International Business
BA 5xxx Program Elective-III
BA 5xxx Program Elective-IV
BA 5608 Research Project-II (3 Credits) Or
BA 5607 Thesis-II (3 Credits)

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

FACULTY OF MANAGEMENT SCIENCES

*A student may take either Research Project or Thesis.

PROGRAM ELECTIVES

Finance

BA 5357 Advanced 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
BA 5349 FinTech
BA 5358 Applied Islamic Banking and Finance
BA 5459 Islamic Capital and Money Markets

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 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
BA 5456 Leadership in Practice

Management

BA 5111 Business Process Re-engineering
BA 5112 Change Management
BA 5116 Industrial Relations and Labor Laws
BA 5136 Business Strategy and Policy
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

Marketing

BA 5121 Advertising
BA 5122 Brand Management
BA 5123 Consumer Behavior
BA 5124 Customer Relationship Management
BA 5129 Services Marketing
BA 5182 Trade Marketing
BA 5186 Social Marketing
BA 5217 Industrial Marketing
BA 5224 Media Planning and Management
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 5293 New Product Development Process and Innovation

FACULTY OF MANAGEMENT SCIENCES

BA 5198 Experiential and Content Marketing
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 5457 Advanced 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
BA 5237 Demand Planning and Forecasting in Supply Chain
BA 5144 Distribution and Supply Chain Network Design
BA 5356 International Trade Procedures and Practices
BA 5143 Digital Supply Chain

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.

Business Analytics

BA 5455 Business Data Visualization
BA 5181 Business Intelligence and Data Warehousing
BA 5236 Data Analytics for Business
BA 5458 Business Intelligence Tools for Managers
BA 5359 Digital Analytics & Consumer Insights



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 are 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 Program Electives
- No IRS or Thesis

Compulsory Courses

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

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

- Finance
- Marketing
- Human Resource Management
- Business Analytics

First Year

Fall Semester

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	Program Elective I
MS 5xxx	Program Elective II

Second Year

Fall Semester

MS 5xxx	Program Elective III
MS 5xxx	Program Elective IV

2. MS By Research Work Stream

The Scheme of Study is as follows:

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

Compulsory Courses

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

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

- Finance
- Marketing
- Human Resource Management
- Business Analytics

First Year

Fall Semester

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	Program Elective I
MS 5xxx	Program Elective II

Second Year

Fall Semester

MS 5xxx	IRS I and IRS II OR
MS 5xxx	Thesis (Part I)

Spring Semester

MS 5xxx	Thesis (Part II) If Any
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FACULTY OF MANAGEMENT SCIENCES

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

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

Program 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 both at undergraduate and graduate 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 programs being offered at the Department of Computing are accredited by National Computing Education Accreditation Council (NCEAC), Pakistan.

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. BSCS Program is accredited by NCEAC. 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	CSC 1103
	CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	1	CSCL 1103
	CSC 2101	Communication and Presentation Skills	3, 0	3	CSC 1102
	CSC 2103	Digital Logic Design	3, 0	3	CSC 1107
	CSCL 2103	Lab: Digital Logic Design	0, 1	1	CSCL 1107
	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	CSC 1208
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1	CSCL 1208
	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	CSC 2102
	CSCL 2203	Lab: Database Systems	0, 1	1	CSCL 2102
	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 2102
	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
	CSCL 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	
	CSCL 3205	Lab: Computer Networks and Data Communications	0, 1	1	
	CSC 4101	Artificial Intelligence	3, 0	3	CSC1201
	CSCL 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
CSC 4724	User Interface Design
CSC 4725	Introduction to Development and Operations
CSC 4726	Systems and Network Administration
CSC 4727	Hybrid Mobile Application Development
CSC 4827	Software Quality Engineering and Testing

UNIVERSITY ELECTIVES

Each campus may offer university electives as per convenience and availability of resources. The Electives being offered at Hyderabad 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

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
CSC 2126	Software Construction and Development

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 COMPUTING AND ENGINEERING SCIENCES

BS SOFTWARE ENGINEERING

The BS Software Engineering program at SZABIST is a full-time four year degree program comprising eight semesters with minimum of 130 credit hours. The degree program is designed around a set of courses pertaining to the principles of software analysis, design, architecture, development, testing, and maintenance techniques that are necessary to produce high-quality software systems. Some additional courses from the disciplines of Computer Science, Mathematics, Management Science, and Humanities are part of the degree program to develop a broader knowledge base of the students.

The BS Software Engineering program is offered through a trained foreign qualified faculty. It consists of 42 courses with a total of 130 credits hours. The maximum duration to complete the degree is six years.

BS (SOFTWARE ENGINEERING) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
First Year					
Semester -1 st					
	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	-
	CSCL 1108	Lab: Introduction to Computer Science	0, 1	1	-
	CSC 1109	Pakistan Studies	2, 0	2	-
Sub-total			18		
		Semester -2 nd			
	CSC 1208	Object Oriented Programming Techniques	3, 0	3	CSC 1103
	CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	1	CSC 1103
	CSC 2101	Communication and Presentation Skills	3, 0	3	CSC 1102
	CSC 3109	Software Engineering	3, 0	3	-
	CSC 1201	Discrete Mathematical Structures	3, 0	3	-
	CSC 1209	Islamic Studies/ Humanities	2, 0	2	-
	SEC xxxx	University Elective-I	3, 0	3	-
Sub-total			18		
Second Year					
Semester -3 rd					
	CSC 2102	Data Structures and Algorithms	3, 0	3	CSC 1208
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1	CSC 1208
	SEC 2403	Software Requirement Engineering	3, 0	3	CSC 3104
	SEC 2103	Human Computer Interaction	3, 0	3	CSC 3104
	CSC 2206	Linear Algebra	3, 0	3	
	SEC xxxx	University Elective-II	3, 0	3	
Sub-total			16		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
Semester -4 th					
	CSC 2205	Operating Systems	3, 0	3	CSC 2102
	CSCL 2205	Lab: Operating Systems	0, 1	1	CSC 2102
	CSC 2203	Database Systems	3, 0	3	CSC 2102
	CSCL 2203	Lab: Database Systems	0, 1	1	CSC 2102
	SEC 2404	Software Design and Architecture	2, 0	2	CSC 5163
	SECL 2404	Lab: Software Design and Architecture	0, 1	1	CSC 5163
	CSC 1206	Probability and Statistics	3, 0	3	
	SEC xxxx	University Elective - III	3, 0	3	
Sub-total			17		
Third Year					
Semester -5 th					
	SEC 3604	Software Construction and Development	2, 0	2	SEC XXX
	SECL 3604	Lab: Software Construction and Development	0, 1	1	SEC XXX
	CSC 3205	Computer Networks and Data Communication	3, 0	3	
	CSCL 3205	Lab: Computer Networks and Data Communication	0, 1	1	
	CSC 1205	Technical and Business Writing	3, 0	3	CSC 2101
	SEC xxxx	SE Supporting -I	3, 0	3	
	SEC xxxx	SE Supporting -II	3, 0	3	
Sub-total			16		
Semester -6 th					
	SEC 3608	Software Quality Engineering and Testing	3, 0	3	CSC 3104
	SEC 3617	Information Security	3, 0	3	
	CSC 4102	Professional Practices	3, 0	3	
	SEC 3607	Web Engineering	3, 0	3	
	SEC xxxx	SE Elective - I	3, 0	3	
	SEC 4xxx	SE Supporting - III	3, 0	3	
		Sub-total	18		
Fourth Year					
Semester -7 th					
	SEC 3603	Software Project Management	3, 0	3	CSC 3104
	SEC 3606	Software Re-Engineering	3, 0	3	SEC XXX
	SEC xxxx	SE Elective -II	3, 0	3	
	SEC xxxx	SE Elective - III	3, 0	3	
	CSC 4105	Final Year Project - I	0, 3	3	
Sub-total			15		
Semester -8 th					
	SEC xxxx	SE Elective — IV	3, 0	3	
	SEC xxxx	SE Elective — V	3, 0	3	
	CSC 4205	Final Year Project — II	0, 3	3	CSC 4105
	SEC xxxx	University Elective — IV	3, 0	3	
		Sub-total	12		
Total			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

SE Electives

SEC 4516	Artificial Intelligence
SEC 4537	Parallel and Distributed Computing
SEC 4515	Digital Image Processing
SEC 4528	Game Development
SEC 4532	Introduction to Cloud Computing
SEC 4543	Systems Programming
SEC 4544	Technopreneurship
SEC 3614	Computer Graphics
SEC 4514	Introduction to Data Science
SEC 4534	Modeling and Simulation
SEC 3612	Mobile Application Development
SEC 4521	Agent Based Software Engineering
SEC 4522	Big Data Analytics
SEC 4523	Computational Intelligence
SEC 4524	Computer Vision
SEC 4526	Design Patterns
SEC 4511	e-Commerce
SEC 4527	Formal Methods
SEC 4531	Information Systems Audit
SEC 4533	Management Information Systems
SEC 4535	Multimedia Communication
SEC 4536	Natural Language Processing
SEC 4538	Real Time Systems
SEC 4539	Semantic Web
SEC 4519	Software Engineering Economics
SEC 4542	Software Metrics
SEC 4545	Topics in Software Engineering
SEC 4518	Visual Programming
SEC 4525	Data Encryption and Security
SEC 4529	Global Software Development

SE Supporting courses

SEC 4713	Digital Logic Design
SEC 4714	Business Process Engineering
SEC 4711	Formal Methods in Software Engineering
SEC 4712	Operations Research
SEC 4715	Stochastic Processes

UNIVERSITY ELECTIVES

SEC 3309	Organizational Behavior
SEC 3307	Foreign Languages
SEC 3306	Sociology
SEC 3311	Psychology
SEC 3301	Introduction to Management
SEC 3302	Financial Accounting
SEC 3303	Human Resource Management

DISTRIBUTION OF CREDIT HOURS

Course Group		Cr. Hrs.	%
Computing	Core Courses	40	31%
	Electives	15	12%
Software Engineering	Core Courses	24	18%
	Supporting	9	7%
General Education		18	14%
University Electives		12	9%
Mathematics and Science Foundation		12	9%
Total		130	100%

Internship

The internship is scheduled 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.

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.



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS ARTIFICIAL INTELLIGENCE

The BSAI is a 4 year program and consists of 41 courses with a total of 130 credit hours. The Internship opportunities are provided to complete degree requirement. BSAI is a full time day program that covers the emerging dimensions of Machine Learning, Deep Learning, Explainable AI, Evolutionary Computing, Computer Vision, Software Engineering, Natural Language Processing etc. The program comprises of 39 credit hours of Core Computing course, 18 credit hours of Computer Science Core courses, 19 credit hours of General Education courses, 18 credit hours of Artificial Intelligence Core courses, and 36 credit hours of Elective courses. The Maximum duration of the program is six years

Mission Statements

To provide a quality education in Artificial Intelligence in order to produce scientifically, technologically, and professionally competent graduates who are adept to perform a significant role in the continuing transformation of local and global society.

Program Educational Objectives

Following are the Program Educational Objective (PEO)

PEO 1: To equip students with the necessary skills and knowledge to solve complex problems in real-world settings.

PEO 2: To produce graduates practicing in the area of Artificial Intelligence in a socially and ethically responsible way.

PEO 3: To prepare students for lifelong learning skills in Artificial Intelligence and allied disciplines.

Program Learning Outcomes

To attain the educational objectives of programs, it is intended to produce the following measurable outcomes at the time of graduation. Graduates of the program will have:

- a. Ability to apply knowledge of mathematics, science, computing fundamentals and any of its specializations to solve complex problems.
- b. Ability to identify, formulate, research literature, and analyze complex problems reaching substantiated conclusions using basic principles of mathematics, natural sciences and computer science.
- c. Ability to design solutions for complex problems and design software systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- d. Ability to investigate methodically complex problems including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
- e. Ability to create, select and apply appropriate techniques, resources, and modern IT tools, including prediction and modeling, to complex activities, with an understanding of the limitations.
- f. Ability to understand the impact of professional solutions in societal and environmental contexts and apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues.
- g. Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of society and professional practice.
- h. Ability to work effectively, as an individual or in a team, on multifaceted and/or multidisciplinary settings.
- i. Ability to communicate effectively, orally as well as in writing, on complex activities with the community and with the society at large, such as being able to write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- j. Ability to demonstrate management skills and apply systems development principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.
- k. Ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS (ARTIFICIAL INTELLIGENCE) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
First Year					
Semester -1 st					
	CSC 1108	Introduction to Computer Science	2, 0	2	-
	CSCL 1108	Lab : Introduction to Computer Science	0, 1	1	-
	CSC 1103	Fundamentals of Programming	3, 0	3	-
	CSCL 1103	Lab : Fundamentals of Programming	0, 1	1	-
	CSC 1209	Islamic Studies/ Humanities	2, 0	2	-
	CSC 1109	Pakistan Studies	2, 0	2	-
	CSC 1101	Calculus and Analytical Geometry	3, 0	3	-
	CSC 1102	English Composition and Comprehension	3, 0	3	-
Sub-total			17		
Semester -2 nd					
	CSC 1208	Object Oriented Programming Techniques	3, 0	3	CSC 1103
	CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	1	-
	CSC 2103	Digital Logic Design	3, 0	3	-
	CSCL 2103	Lab: Digital Logic Design	0, 1	1	-
	CSC 2206	Linear Algebra	3, 0	3	CSC 1101
	CSC 1206	Probability and Statistics	3, 0	3	-
	CSC 2101	Communication and Presentation Skills	3, 0	3	CSC 1102
Sub-total			17		
Second Year					
Semester -3 rd					
	CSC 2102	Data Structures and Algorithms	3, 0	3	CSC 1103
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1	-
	CSC 2201	Computer Organization and Assembly Language	3, 0	3	CSC 2103
	CSCL 2201	Lab: Computer Organization and Assembly Language	0, 1	1	-
	CSC 1201	Discrete Mathematical Structures	3, 0	3	-
	CSC 4101	Artificial Intelligence	3, 0	3	CSC 1208
	CSCL 4101	Lab: Artificial Intelligence	0, 1	1	-
	CSC 2122	Differential Equations	3, 0	3	CSC 1101
Sub-total			18		
Semester -4 th					
	CSC 3205	Computer Networks and Data Communications	3, 0	3	-
	CSCL 3205	Lab: Computer Networks and Data Communications	0, 1	1	-
	CSC 2203	Database Systems	3, 0	3	-
	CSCL 2203	Lab: Database Systems	0, 1	1	-
	CSC 3202	Design and Analysis of Algorithms	3, 0	3	CSC 2102
	AIC 2401	Programming for Artificial Intelligence	2, 0	2	CSC 4101
	AICL 2401	Lab: Programming for Artificial Intelligence	0, 1	1	-
	AIC xxxx	AI Elective - 1	3, 0	3	-
Sub-total			17		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Third Year					
Semester -5 th					
	CSC 2205	Operating Systems	3, 0	3	CSC 2102
	CSCL 2205	Lab: Operating Systems	0, 1	1	-
	AIC 3501	Artificial Neural Networks	2, 0	2	AIC 2401
	AICL 3501	Lab: Artificial Neural Networks	0, 1	1	-
	AIC 3503	Machine Learning	2, 0	2	AIC 2401
	AICL 3503	Lab: Machine Learning	0, 1	1	-
	AIC 3502	Knowledge Representation and Reasoning	3, 0	3	AIC 2401
	CSC xxxx	University Elective – 1	3, 0	3	-
Sub-total				16	
Semester -6 th					
	AIC 3601	Technical and Business Writing	3, 0	3	CSC 2101
	AIC 3602	Computing Vision	2, 0	2	AIC 3501
	AICL 3602	Lab: Computing Vision	0, 1	1	-
	AIC 3603	Natural Language Processing	3, 0	3	AIC 3501
	CSC 3109	Software Engineering	3, 0	3	-
	AIC xxxx	AI Elective - 2	2, 0	3	-
	AIC xxxx	University Elective - 2	3, 0	3	-
Sub-total				18	
Fourth Year					
Semester -7 th					
	CSC 4106	Parallel and Distributed Computing	3, 0	3	CSC 1208, CSC 2205
	CSC 4102	Professional Practices	3, 0	3	-
	AIC xxxx	University Elective-3	3, 0	3	-
	AIC xxxx	AI Elective - 3	3, 0	3	-
	AIC 4707	Final Year Project-I	0, 3	3	-
Sub-total				15	
Semester -8 th					
	AIC 4807	Final Year Project-II	0, 3	3	AIC 4707
	AIC 4xxx	University Elective – 4	3, 0	3	-
	AIC 4801	Information Security	3, 0	3	-
	AIC xxxx	AI Elective - 4	3, 0	3	-
	Sub-total			12	
	Total			130	



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

AI ELECTIVES

- AIC 4701 Advanced Statistics
- AIC 4706 Theory of Automata and Formal Languages
- AIC 4802 Data Mining
- AIC 4702 Deep Learning
- AIC 4805 Speech Processing
- AIC 4804 Reinforcements Learning
- AIC 4803 Fuzzy Systems
- AIC 4703 Evolutionary Computing
- AIC 4705 Swarm Intelligence
- AIC 4801 Agent Based Modeling
- AIC 4704 Knowledge Based Systems

UNIVERSITY ELECTIVES

The Electives courses offered are as follows:

- AIC 4504 Organizational Behavior
- AIC 4605 Research Report
- AIC 4603 Management Principles
- AIC 4601 Business and Technology Ethics
- AIC 4503 Introduction to Accounting
- AIC 4602 Foreign Languages
- AIC 4502 History of Scientific Ideas
- AIC 4501 Design and Creativity
- AIC 4505 Sociology
- AIC 4604 Psychology

Mathematics & Science Foundation Courses

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

1. Calculus and Analytic Geometry
2. Linear Algebra
3. Probability and Statistics
4. Differential Equations

DISTRIBUTION OF CREDIT HOURS

I. Core Courses:

- | | |
|--|----|
| i. Computing Core Courses | 39 |
| ii. Computer Science Core Courses | 18 |
| iii. General Education Courses | 19 |
| iv. Artificial Intelligence Core Courses | 18 |

II. Elective Courses:

- | | |
|--|------------|
| i. Mathematics & Science Foundation Courses | 12 |
| ii. Artificial Intelligence Elective Courses | 12 |
| iii. Institutional Elective Courses | 12 |
| Total | 130 |

Internship

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



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

MS Computer Science

SZABIST offers MSCS degree in three domains: Core Computer Science area and in two specialization tracks; i.e., Software Engineering (SE) and Networks and Security (N&S) in order to cater to the market needs. Students have to complete 3 focused courses in any specific domain.

The program is of 2-year duration and is offered in the evening. It requires 33 credit hours to complete. Although the institutional administration emphasize and encourage students to undertake research, they can take two courses in lieu of research in specific domains. If student opts for course work only, he/she is required to complete 11 courses of 3 credit hours each. Else, the student is required to complete 9 courses (27 credit hours) and two Independent Research Studies (6 credit hours) OR one Thesis (6 credit hours).

The maximum time limit to complete the MS degree is 4 years.

Master of Science in Computer Science (In Core Computer Science)

First Year

First Semester

CSC 5105 Research Methodology
CSC 5101 Advanced Algorithms Analysis
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5202 Advanced Computer Architecture
CSC 5xxx Elective-I (from CS Stream)

Second Year

Third Semester

CSC 5xxx Thesis/Independent Research Study-I
OR Course Work (from CS-Stream)
CSC 5xxx Elective-II (from CS-Stream)
CSC 5xxx Elective-III (from CS-Stream)

Fourth Semester

CSC 5xxx Thesis/Independent Research Study-II
OR Course Work (from CS-Stream)
CSC 5xxx Elective-IV (from CS-Stream)

Master of Science in Computer Science (With Specialization in Software Engineering)

First Year

First Semester

CSC 5105 Research Methodology
CSC 5101 Advanced Algorithms Analysis
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5202 Advanced Computer Architecture
SEC 5xxx Elective-I (from SE Stream)

Second Year

Third Semester

CSC/SEC 5xxx Thesis/Independent Research
Study I OR Course Work (from CS
Stream or from SE-Stream)
SEC 5xxx Elective-II (from SE-Stream)
SEC 5xxx Elective-III (from SE-Stream)

Fourth Semester

CSC/SEC 5xxx Thesis/Independent Research
Study II OR Course Work (from
CS Stream or from SE-Stream)
SEC 5xxx Elective-IV (from SE-Stream)

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Master of Science in Computer Science (With Specialization in Networks & Security)

First Year

First Semester

CSC 5105 Research Methodology
CSC 5101 Advanced Algorithms Analysis
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5202 Advanced Computer Architecture
NSC 5xxx Elective-I (from N&S Stream)

Second Year

Third Semester

CSC/NSC 5xxx Thesis/Independent Research
Study I OR Course Work (from
CS Stream or from
N&S-Stream)
NSC 5xxx Elective-II (from N&S-Stream)
NSC 5xxx Elective-III (from N&S-Stream)

Fourth Semester

CSC/NSC 5xxx Thesis/Independent Research
Study II OR Course Work (from
CS Stream or from
N&S-Stream)
NSC 5xxx Elective-IV (from N&S-Stream)

CS-Stream

CSC 5164 Real-Time Systems
CSC 5162 Digital Image Processing
CSC 5161 Machine Learning
CSC 5163 Data Mining
CSC 5166 Operation Research
CSC 5167 Deep Learning
CSC 5264 Expert Systems
CSC 5267 Reverse Engineering
CSC 5266 Digital Forensics and Malware Analysis
CSC 5263 Advanced Resource Sharing
Architecture
CSC 5262 Computer Vision
CSC 5268 Robotics
CSC 5261 Advanced Database Design
CSC 5265 Distributed Computing
CSC 5269 Systems and Network Programming
CSC 5168 Big Data Analytics
CSC 5271 Natural Language Processing

SE-Stream

SEC 5163 Software Requirement Engineering
SEC 5161 Software System Architecture
SEC 5164 Software System Quality
SEC 5162 Advanced Software Engineering
SEC 5261 Software Analysis and Testing
SEC 5263 Web Engineering
SEC 5262 Software Project Management

N&S-Stream

NSC 5161 Advanced Computer Networks
NSC 5163 Network Security
NSC 5164 Applied Cryptography
NSC 5162 Information Security
NSC 5165 Cyber Security
NSC 5261 Wireless Sensor Networks
NSC 5264 Telecom Policies and Regulations
NSC 5263 Mobile Ad-hoc Networks
NSC 5262 Advanced Data Communications
NSC 5265 Advanced Routing and Switching
NSC 5166 Advanced Ethical Hacking

Pre-Requisites:

- For any advanced course, pre-requisite course must have been taken before.
- For each track, the following courses must have been done prior to admission.

MS (CS) (In Core Computer Science)

Programming Fundamental
Data Structures
Operating Systems
Finite Automata Theory and Formal Languages

MS (CS) with SE-Specialization

Programming Fundamental
Data Structures
Operating Systems
Software Engineering

MS (CS) with N&S-Specialization

Programming Fundamental
Data Structures
Operating Systems
Data Communication and Computer Networks

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

FACULTY OF EDUCATION & SOCIAL SCIENCES



DEPARTMENT 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 EDUCATION & SOCIAL SCIENCES

Department of Social Sciences

BS Social Sciences

To obtain a BS degree in Social Sciences, students are required to complete a total of 142 credit hours within 6 years. The degree consists of a total of 46 courses and a Research Project.

First Year

Fall Semester

SS 1117	Computer and Web Skills
SS 1116	English for General Purposes
SS 1105	Microeconomics
SS 1115	Community Services
SS 1201	Introduction to Social Sciences
SS 1112	Pakistan Studies

Spring Semester

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

Second Year

Fall Semester

SS 2314	Study of Anthropology
SS 2316	English for Academic Purposes
SS 2313	Introduction to Social Psychology
SS 2318	Mathematics and Statistics
SS 2413	Philosophy
SS 2319	Introduction to Indus Civilization

Spring Semester

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

Third Year

Fall Semester

SS 2312	Culture, Art and Society
SS 3512	Foreign 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 3612	Foreign Language-II
SS 4xxx	Major-IV
SS 4xxx	Major-V
SS 4xxx	Major-VI

Fourth Year

Fall Semester

SS 2411	Environmental Studies
SS 4707	Introduction to Health Psychology
SS 4709	Research Project-I
SS 4xxx	Major-VII
SS 4xxx	Major-VIII
SS 4xxx	Major-IX

Spring Semester

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

ELECTIVES

SS 1154	Literature
SS 1165	Human Geography
SS 1157	Comparative Religion
SS 1254	World History
SS 1262	Mass Media
SS 1163	Development and Politics
SS 1263	Culture and Media in Sindh
SS 1164	History of Ideas
SS 4705	Sindh Studies
SS 1264	Introduction to Philanthropy

MAJORS

Psychology

SS 4111	Abnormal Psychology
SS 4112	Developmental Psychology
SS 4134	Cognitive Psychology
SS 4135	Educational Psychology
SS 4234	Psychodynamics
SS 4268	History of Psychology
SS 4167	Child Psychology

FACULTY OF EDUCATION & 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
SS 4130	Family and Relationship Counseling
SS 4120	Addiction Counseling

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
SS 4220	Media and Violence
SS 4230	Project Development and Management

International Relations

SS 4275	Foreign Policy and International Politics
SS 4274	Diplomacy, Conflict Resolution and Confidence Building Measures
SS 4219	Peace Research
SS 4222	Strategic Studies
SS 4176	Globalization and Global Governance
SS 4277	Modern Ideologies
SS 4174	Central and West Asian Studies
SS 4175	European Studies
SS 4177	Middle Eastern Studies
SS 4179	Politics of Terrorism
SS 4178	Muslim World
SS 4276	International Institutions
SS 4278	Political Geography
SS 4119	Arms Control and Disarmament
SS 4279	US and International Politics

Sindh Studies

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

Economics

SS 4139	Gender and Development
SS 4147	Development and Planning
SS 4181	Capabilities and Human Development
SS 4281	Fiscal and Monetary Economics
SS 4261	Mathematical Economics
SS 4183	Industrial Economics
SS 4284	Trade Economics
SS 4128	Agriculture Economics
SS 4182	Game Theory
SS 4283	Labour Economics
SS 4282	Growth
SS 4184	Poverty and Inequality
SS 4228	History of Economic Thoughts
SS 4249	Pakistan Economy
SS 4251	Sustainable Development
SS 4155	Basic Econometrics
SS 4151	Managerial Economics

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.

ACADEMIC CALENDAR 2023-24 (Hyderabad Campus)

ACADEMIC CALENDAR 2023-24 (Hyderabad Campus)

FALL 2023

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	Final Exam Week
17	Final Exam Week
	Comprehensive Exam

Classes Commencement Date

Hyderabad Campus:

21 August, 2023

ACADEMIC CALENDAR 2023-24 (Hyderabad Campus)

ACADEMIC CALENDAR 2023-24 (Hyderabad Campus)

SPRING 2024

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	Final Exam Week
17	Final Exam Week
	Comprehensive Exam

Classes Commencement Date

Hyderabad Campus:

22 January, 2024

CAMPUS WISE PROGRAMS OFFERING (FALL 2023)

PROGRAMS OFFERING AT DIFFERENT CAMPUSES OF SZABIST (FALL 2023)

PROGRAMS	CAMPUS					
	Karachi	Islamabad	Larkana	Hyderabad	Dubai	Gharo
Bachelor of Business Administration (BBA)	✓	✓	✓	✓	✓	✓
Bachelor of Business Administration (BBA 2.5 Years)			✓			✓
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 (CertHE)	✓					
CILT (UK) Level 5 Professional Diploma in Logistic & Transport	✓					
Diploma in Early Childhood Education and Development	✓					
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 in Finance & Economics	✓					
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 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 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 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, 2nd, 3rd, 4th & 8th 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 GHARO CAMPUS
 Main National Highway, Filter Plant,
 Gharo, Thatta, Tel # 0331-9224771-72-79.
 www.ghr.szabist.edu.pk /
 Email: info@ghr.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,
 WhatsApp No: +971529708745
 Fax: +971 4 3664607
 Email: info@szabist.ac.ae,
 www.szabist.ac.ae



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hyd.szabist.edu.pk

Shaheed Zulfikar Ali Bhutto Institute of Science & Technology