SZABIST

PROSPECTUS
2022

HYDERABAD CAMPUS

Shaheed Zulfikar Ali Bhutto Institute of Science & Technology
Karachi - Islamabad - Larkana - Hyderabad - Gharo - 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 are also developing our campus at Gharo , which will inshAllah, open in Fall 2022.

At SZABIST, you will become part of a community that believes research is an integral part of academic excellence. We encourage participation in research and extra-curricular activities enabling our students to realize and nurture their true intellectual and professional potential.

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

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

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

The motto of SZABIST is to provide students the opportunity to experience university life in a way that helps them to discover themselves whilst focusing on their professional goals. So I wish you success in your years at SZABIST.

Dr. Azra Fazal Pechuho
Chancellor
SZABIST

PRESIDENT'S MESSAGE

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

Over the past 25 years, SZABIST's national and international market reputation has been significantly enhanced. This is evident from the increased enrollment of about 11,000 students in its five Campuses-Karachi, Larkana, Hyderabad, Islamabad and Dubai (UAE).

SZABIST, guided by the vision of its Founding Chancellor, Shaheed Mohtarma Benazir Bhutto, is today a leading higher education institution for the youth of Pakistan aspiring for a high quality, relevant education. Our diversified academic portfolio offers a range of courses in 15 Bachelors, 16 Masters and 5 Doctoral level programs in the field of Management, Computing, Social Sciences, Media, Engineering, Biosciences, Public Health, Education and Law. This prospectus provides you with comprehensive information about our programs. The Institute, in compliance with the requirements of Higher Education Commission and Accreditation Councils, has developed curricula which not only relates to prevailing market demand but also prepares students with the knowledge and skills for the future needs of Pakistan's growing economy.

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

Moreover, SZABIST was awarded 94% for its Quality Enhancement processes. Quality assurance measures are rigorously applied through tools such as Program Self-Assessment Reports, feedback of relevant stakeholders, publications and fulfilling documentation requirements of the regulatory authorities.

We hope you will become part of the SZABIST community of students and graduates and ultimately the global network of SZABIST alumni.

Shahnaz Wazir Ali
President
SZABIST

VICE PRESIDENT'S (ACADEMICS) MESSAGE

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

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

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

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

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

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

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

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

VICE PRESIDENT DEVELOPMENT AND FINANCE MESSAGE

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

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

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

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

Nasreen Haque
Vice President (Development and Finance)
SZABIST

VICE PRESIDENT'S (ADMINISTRATION) MESSAGE

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

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

Over the years, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) has excelled in the field of education and has produced some of the most well qualified and outstanding graduates.

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

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

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

With best wishes

Imtiaz Kazi
Vice President Administration
SZABIST

INTRODUCTION

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) is a chartered institute of Pakistan established through a Legislative Act of Sindh Assembly (Sindh Act No. XI of 1995). It is highly ranked, approved and recognized by the Higher Education Commission (HEC) Pakistan as a degree awarding institution. All the programs offered at SZABIST are consistent with the guidelines laid by HEC and other regulatory bodies.

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

SZABIST 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.

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). Since 2012, the SZABIST-IR/QEC has been ranked in the highest "W" Category in the yearly quantitative report by the Quality Assurance Agency (QAA) of HEC, Pakistan.

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

SZABIST Hyderabad Campus is situated at Thandi Sarak - the jugular vein of Hyderabad, in State Life 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

All five campuses of SZABIST offer various degree programs in different disciplines so please refer to page 40 for details.

Bachelor of Business Administration (BBA)

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

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

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

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

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 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.

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 BBA or equivalent qualification are exempted 36 credit hours of course work and they are required to complete remaining 36 credit hours in 1.5 years. Students are also required to undertake a six week duration of internship during summer.

PROGRAMS & CURRICULA

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 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.
- 2 "E" grades in A-Level exam will not be entertained for accredited programs. i.e. BBA, BSCS, etc.
- Equivalency from Inter Board Committee of Chairmen (IBCC) is mandatory for O & A Levels/High School Diploma/IB Diploma or equivalent.
- High School Diploma or International Baccalaureate (IB) students appearing for examination from Pakistan shall have to pass Islamiat, 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, Islamiat & 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.

MASTERS DEGREE PROGRAMS

Master of Business Administration (MBA)

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

Master of Science in Management Sciences (MS MS)

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

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)/GRE/HAT relevant with minimum 50% score.

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

Transfer Policies

Transfer into SZABIST can only be accepted for candidates who have studied or are currently studying at HEC recognized universities. Transferring credits must have a minimum letter grade of B or above (or 80% marks). The request for transfers must be made at the time of admission.

Candidates will be required to clear all SZABIST admission requirements.

Bachelor Course Transfer

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

MBA Course Transfer

- A maximum of up to 6 credits may be considered for transfer into the MBA 36 credit hours program. Research Project/Thesis is not transferable.

- A maximum of up to 36 credits may be considered for transfer into the MBA 72 credit hours program. Research Project/Thesis is not transferable.

ADMISSION REQUIREMENTS

- 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 (Partial Funded / Fully Funded)
- USAID Funded Merit and Need-Based Scholarship
- HEC-Indigenous PhD 5000 Fellowship Program
- Mitsubishi Corporation Scholarship
- Orange Tree Foundation Scholarship
- Various community-based scholarships

SZABIST also offers loan facilities as under:

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

LIFE AT SZABIST

FACILITIES

Video Conferencing

SZABIST is the first educational institute in Pakistan that introduced multi-point interactive Video Conferencing (VC) technology in 2001. SZABIST regularly uses VC technology in interactive learning sessions among Dubai, Islamabad, Larkana, Hyderabad and Karachi Campuses as well as in conducting seminars, lectures and presentations with foreign universities. Video Conferencing has been the most effective mode at SZABIST in bringing in live and interactive guest lecturers from national and international experts. Video Conferencing technology opens the door to exciting and valuable learning experiences. By allowing access to and interaction with resources that might have otherwise been too inconvenient or expensive, Video Conferencing ensures a highly enriched learning environment. By taking the lead in opening this field in educational practices, SZABIST also lead in creating the most advantageous nexus between cutting-edge technology and effective learning.

Conferences/Forums/Seminars/Guest Lectures

To increase awareness and understanding of information technology and business-related issues, many conferences, forums, seminars and guest lectures are organized regulary. 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 unmatchable environment compared to majority of well-reputed universities of Pakistan.

SZABIST has computing facilities supported with 24x7 broadband connectivity of 295 Mbps committed bandwidth to the internet and intranet. SZABIST is Wi-Fi enabled since 2002. Two new computer labs are added to the existing labs infrastructure. Students and guest are welcome with their BYOD and can access all network available resources wirelessly. SZABIST has also acquired Microsoft IT academy and Oracle Academic Alliance program.

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

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

SZABIST established Smart Lab equipped with tremendous high speed 7th generation laptops for students. These laptops are connected with SZABIST network through Wi-Fi.
A state of the art Smart screen is also available for teacher and students. They can interact with each other in more effective and robust way.

Research Committee (RC)

SZABIST places high emphasis on research & development and devotes conscious efforts to promote research culture among faculty and students alike. In this regard, a Research Committee (RC) is constituted to coordinate, record, and formalize diverse research activities across different departments and campuses to bring harmony and create an impact for national and international recognition of the university. Research publications produced by faculty and students are given a handsome remuneration depending on the level and merit of publications, vetted by RC. All sorts of participations in national and international conferences by the faculty & staff are approved by the RC. This may also propose a change in research policy for the university to BASR.

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.

LIFE AT SZABIST

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

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

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

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

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

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

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 SZABIST:

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

ORIC IN 2022
ORIC SZABIST is continuously strengthening its relationship with the faculty and non-faculty members of SZABIST inwards, and with government & non-government organizations, industry and other higher educational institutions outwards.

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

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

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

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

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

LIFE AT SZABIST

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

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

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

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

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

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

LIFE AT SZABIST

Student Support Services

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 in the realms of public speaking, sports, entrepreneurship and technology.

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 and documentation for record keeping all of which added much needed structure to student activities at the institute.

In 2015, the same system was gradually introduced at other campuses of SZABIST and by now they have all had Five annually elected student council bodies whereas the main campus has been fortunate enough to have held elections every year with a trained group of students working in the council and its subsidiary divisions and student societies. Our vision aims 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.

With the programme of student activities focusing mainly on thematic areas/pillars like Leadership, Art and Culture, Community Services and Civic Engagement, Sports and Technical/Professional, the programme aims to train students to tackle real world issues through special focus on the above mentioned in order to produce trained and rational all rounded human beings who have an appreciation for art and culture, think critically about their existential state and aim to serve society in the capacity of socially responsible leaders.

Also, all students are encouraged to partake in the wide-range of activities on offer as part of any of SZABIST's activities programs/pillars for which dedicated Activities Coordinators and Coaches reporting back to the department are hired and professionals from established organizations also involved as partners in training thus, enhancing and helping students to better utilize their skill-sets in the real world culminating in offering students a platform through which they may implement what they have learnt.

Furthermore, the projects division encourages students to develop on their ideas and with guidance and perseverance, the system facilitates and supports the initiatives, a newer approach to adding value to the system and student activities base initiated with Art & Discourse for Change, a project funded by a substantial grant. The department along with managing the SZABIST Student Council (SSC), its fifteen student societies and associated activities and student projects, coordinates with and guides SSC chapters/Student Advisors in other campuses as well.

It also works to maintain discipline at the institute in order to provide a safe and conducive environment for students. An annual Orientation are also looked after and lastly, the services of a professional clinical psychologist for all forms of personal counselling are also available for all students on campus.

SZABIST Student Council (SSC)

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

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

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

LIFE AT SZABIST

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

The Five Pillars of SSC

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

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

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

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

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

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

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

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

The Professional and Technical Pillar develops a set of professional skills which refine and improve the technical skills of mathematics, science and engineering onto different areas such as economic, environmental, social, political and sustainable development. There are total five societies under the Professional and Technical Pillar:

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

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

Executive Development Center (EDC)

The Executive Development Center (EDC) at SZABIST 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".

LIFE AT SZABIST

Job & Internship Placements

In collaboration with the industry, EDC arranges job/internship recruitment drives and management trainee programs by reputable national and multinational companies. EDC facilitates students for internships and job openings in the corporate sector throughout the year.

An annual "Career Fair" is held in the beginning of every year at the campus in which leading companies are invited to discuss their recruitment policies and procedures, their current resource requirements and future vacancies. The students receive an opportunity to interact with company representatives directly.

To bridge the gap between classroom and market, SZABIST has instituted a mandatory internship program. Apart from enabling students to get the feel of an office environment, internships expose them to potential employers for possible recruitment.

Eligibility for Internship

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

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**

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

2. **Balochistan Education Endowment Fund Scholarship, Pakistan**

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

3. Coventry University, UK

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

4. Dr. Essa Laboratory and Diagnostic Centre

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

5. 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.

6. Integration Xperts (Private) Limited, Pakistan

Under this MoU, Integration Xperts (Private) Limited and SZABIST conduct 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.

7. 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.

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

Through this MoU, SZABIST Law Department is committed to 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.

9. Mitsubishi Corporation, Japan

Mitsubishi Corporation through this MoU provides 100% scholarship to the students enrolled in the Media Science BSMS program annually.

10. 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 help each other by facilitating access to opportunities and services for persons with disabilities.

11. Orange Tree Foundation OTF, Pakistan

SZABIST have 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.

12. Sindh Police Shaheed Scholarship

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

13. Tabba Kidney Institute

SZABIST and Tabba Kidney Institute have joined hands to participate in collaborative research and in capacity building activities. Both parties plan to conduct academic research to get further insights into the areas of Urology. Students of Bachelor of Science in Public Health (BSPH) can 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.

14. 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.

15. 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 have to be completed.

16. University of London, UK

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

17. Getz Pharma – BIDE – SZABIST (tripartite MoU)

Getz Pharma, Baqai Institute of Diabetology & Endocrinology BIDE and SZABIST have joined hands to foster a culture of collaboration to improve healthcare

indicators in Pakistan. This collaboration shall allow experienced physicians, researchers and students at BIDE and SZABIST in scientific research to generate valuable insights into the areas of Non Communicable Diseases, particularly Diabetes. The three patrons plan to engage in activities centered on capacity building of healthcare providers.

18. Greenstar Social Marketing Pakistan Limited
Through this MoU, SZABIST and Greenstar Social Marketing have decided to work on the field of research pertaining to Family planning and child health.

FACULTY OF MANAGEMENT SCIENCES

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

MISSION
SZABIST Faculty of Management Sciences is committed to:
- Produce highly qualified business professionals to meet dynamic and challenging contemporary needs;

- Generate knowledge and expertise for business and economic solutions through research;

- Create an enabling environment for corporate and entrepreneurial outlook;

- Serve the community through student, faculty, and alumni collaboration.

FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST 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 electives from Management, Marketing or Finance. 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).

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 1113	Islamic Studies
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	Elective-I
BA 4xxx	Elective-II

Spring Semester

BA 3505	Quantitative Skills
BA 3609	Pakistan Economy
BA 4704	Management Information Systems
BA 4810	Community Service Project
BA 4xxx	Elective-III
BA 4xxx	Elective-IV

FACULTY OF MANAGEMENT SCIENCES

UNIVERSITY ELECTIVE
(To be offered by the campus as Compulsory courses)

BA 3506   Foreign Languages
BA 3519   Current Affairs
BA 3613   World Economy
BA 3614   Business Analysis and Forecasting*
BA 3619   Enterprise Management
BA 4701   Islamic Banking and Finance*
BA 4707   Marketing Research*
BA 3515   Graphic Design for Multimedia*
BA 3621   Professional Development
BA 3521   Auditing
BA 3522   Social Advocacy and Community Service
BA 3622   E-Commerce

ELECTIVES

Finance
BA 4115   Derivatives
BA 4214   Micro Finance
BA 4218   Financial Research
BA 4735   Islamic Banking and Finance*
BA 4719   Investment Banking
BA 4724   Financial Modeling
BA 4727   Dynamics of Banking
BA 4734   International Banking
BA 4752   Financial Reporting and Analysis
BA 4756   Econometrics
BA 4831   Portfolio and Investment Management
BA 4833   Security Analysis
BA 4834   Treasury and Funds Management
BA 4855   Financial Risk Analysis
BA 4867   Business Analysis and Forecasting*

Marketing
BA 4116   Supply Chain Management
BA 4125   Emerging Media
BA 4126   Trade Marketing
BA 4217   Experiential Marketing
BA 4836   Marketing Research*
BA 4721   Advertising
BA 4722   Brand Management
BA 4739   Export Marketing
BA 4815   Event Management
BA 4816   Industrial Marketing
BA 4821   Media Planning
BA 4824   Sales Management
BA 4842   Graphic Design for Multimedia*
BA 4859   Product Innovation and Design
BA 4866   Integrated Marketing Communications

BA 4762   Digital Marketing
BA 4868   Marketing Analytics

Management
BA 4116   Supply Chain Management
BA 4117   Salary and Compensation
BA 4711   Change Management
BA 4712   Industrial Relations and Labor Laws
BA 4713   Leadership and Motivation Techniques
BA 4812   Recruitment and Selection
BA 4813   Training and Development
BA 4815   Event Management
BA 4826   Talent Management
BA 4837   Performance Appraisal
BA 4844   Operations Research

*University Elective can be taken as an Elective if not offered by the Campus as a compulsory course.
All courses may not necessarily be offered every year. Alternate courses may be substituted as and when required. Full-time academic load is six courses (18 credit hours). All students are required to register for full load in the first semester.

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

FACULTY OF MANAGEMENT SCIENCES

BS Accounting & Finance

BS (A&F) is a four years (eight semesters) program and consists of 144 credit hours 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.

SZABIST also offers 2.5-year Bachelor of Science (Accounting & Finance) program exclusively for CAF qualified students of the Institute of Chartered Accountants of Pakistan (ICAP). CAF qualified students are exempted 60 credit hours (20 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).

First Year

Fall Semester

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

Spring Semester

AF 1103	English Comprehension*
AF 1207	Business Management and Ethics*
AF 1201	Advanced Financial Accounting*
AF 2303	Introduction to Psychology
AF 2304	Introduction to Sociology
AF 2405	Principles of Microeconomics*

Second Year

Fall Semester

AF 1202	Calculus for Business Studies
AF 1206	Principles of Marketing
AF 2302	Cost Accounting*
AF 2305	Organizational Behavior*
AF 3505	Principles of Macroeconomics*
AF 4703	Introduction to Business Finance*

Spring Semester

AF 2301	Business and Technical English Writing*
AF 2401	Management Accounting
AF 3501	Accounting and Financial Information Systems
AF 2402	Management Information Systems
AF 2404	Money and Banking
AF 2406	Statistics and Probability*

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 2403	Marketing Management
AF 3605	Financial Reporting*
AF 4701	Business and Labor Law*
AF 4702	Financial Management
AF 3609	Business Research Methodologies

Fourth Year

Fall Semester

AF 4xxx	Accounting Elective-I
AF 4707	Company Law*
AF 4801	Corporate Finance
AF 4xxx	Finance Elective-I
AF 3603	e-Commerce
AF 4xxx	Final Project-I

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 4xxx	Final Project-II
AF 4xxx	Finance Elective-II

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

FACULTY OF MANAGEMENT SCIENCES

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

Internship

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

ELECTIVES

Accounting

AF 4722	Advanced Performance Management
AF 4721	Advanced Audit and Assurance
AF 4822	Strategic Business Reporting
AF 4723	Forensic Accounting
AF 4821	Public Sector Accounting

Finance

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

Courses are subject to change.

FACULTY OF MANAGEMENT SCIENCES

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 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.

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 5xxx Elective-I
BA 5xxx Elective-II
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 5203 Strategic Marketing
BA 5xxx Elective-III
BA 5xxx 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 5501 Applied Research Methods
BA 5203 Strategic Marketing
BA 5601 Strategic HRM
BA 5208 Strategic Finance

Spring Semester
BA 5104 Strategic Management
BA 5xxx Elective-I
BA 5xxx 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 Elective-III
BA 5xxx 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.

*A student may take either Research Project or Thesis.

FACULTY OF MANAGEMENT SCIENCES

ELECTIVES

Finance
BA 5131   Advance Financial Management
BA 5132   Analysis of Financial Statements
BA 5133   Corporate Finance
BA 5134   Derivatives
BA 5135   Financial Markets and Institutions
BA 5138   Econometrics
BA 5139   Financial Risk Analysis
BA 5151   International Finance
BA 5155   Mergers and Acquisitions
BA 5179   Commodity Pricing
BA 5187   Business Analysis and Forecasting
BA 5229   Financial Modeling
BA 5232   Portfolio and Investment Management
BA 5254   Fundamentals of Financial Engineering
BA 5262   Behavioral Finance
BA 5284   Theory and Practice of Lending
BA 5192   Financial Management Policy
BA 5294   Venture Capital and Private Equity
BA 5298   Financial Reporting and Analysis
BA 5454   Real Estate Investments and Finance

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

Human Resource Management
BA 5114   Leadership and Motivation Techniques
BA 5118   Compensation Management
BA 5117   Performance Appraisal
BA 5159   Salary and Compensation
BA 5164   Human Resources Information Systems
BA 5165   Job Analysis and Design
BA 5167   Talent Management and
            Succession Planning
BA 5185   Leadership Development
BA 5193   HR Operations and Business Partnering
BA 5196   Conflict Resolution
BA 5215   Recruitment and Selection
BA 5216   Training and Development
BA 5239   HR Policy Development
BA 5251   Human Resource Development
BA 5285   Performance Management

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

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

Marketing
BA 5121   Advertising
BA 5122   Brand Management
BA 5123   Consumer Behavior
BA 5124   Customer Relationship Management
BA 5126   Export Marketing
BA 5127   Global Marketing
BA 5129   Services Marketing
BA 5171   Strategic Advertising
BA 5182   Trade Marketing
BA 5186   Social Marketing
BA 5199   Integrated Brand Communication
BA 5217   Industrial Marketing
BA 5224   Media Planning and Management
BA 5225   Personal Selling
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

FACULTY OF MANAGEMENT SCIENCES

BA 5286   Media Marketing
BA 5293   New Product Development
        Process and Innovation
BA 5296   Rural Marketing
BA 5198   Experiential and Content Marketing
BA 5299   Media Management
BA 5141   Public Relations Management
BA 5438   Marketing Practices in Pakistan
BA 5331   Marketing Analytics
BA 5339   Packaging for Brands
BA 5337   Retail Strategy and Structure
BA 5437   Retail Supply Chain Management
BA 5436   Retail Operation
BA 5336   Retail Buying and Merchandising
BA 5451   Strategic Entrepreneurship
BA 5355   Marketing Strategies for Emerging
        Economies

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

Non-Credit Hours Course
BA 5110   Software Tools for Business

Internship
All MBA students are required to complete a 6-week internship. Completion of internship is a degree requirement for all MBA programs. Students can produce their current employment record as an alternative to the internship program provided such employment experience is recognized by SZABIST.

FACULTY OF MANAGEMENT SCIENCES

Master of 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 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

Electives (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	Elective I
MS 5xxx	Elective II

Second Year

Fall Semester

MS 5xxx	Elective III
MS 5xxx	Elective IV

2. MS By Research Work Stream

The Scheme of Study is as follows:
- Six Compulsory Courses
- Two Electives
- Two IRS OR Thesis

Compulsory Courses

MS 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

Electives (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	Elective I
MS 5xxx	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)

FACULTY OF MANAGEMENT SCIENCES

ELECTIVES

Finance
MS 5113   Financial Time Series
MS 5103   Managerial Economics
MS 5105   Econometrics
MS 5111   Derivatives and Financial Risk
MS 5115   Operations and Mathematical Modeling
MS 5134   Behavioral Finance
MS 5206   Modern Financial Applications
MS 5215   Corporate Finance
MS 5217   Corporate Finance Planning and Decisions
MS 5218   Financial Markets
MS 5237   Business Finance and Decision Making
MS 5414   Applied Econometrics
MS 5421   Capital Asset Pricing Model
MS 5425   Empirical Asset Pricing
MS 5317   Seminars in Finance
MS 5426   Mathematical Modeling in Finance
MS 5412   Islamic Banking and Finance

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

Human Resource Management
MS 5101   Change Management
MS 5102   Organizational Development
MS 5202   Organizational Strategies and Effectiveness
MS 5203   Global Corporate Strategy
MS 5205   International Business Management
MS 5211   Creative Leadership
MS 5216   Corporate Governance
MS 5225   Leadership and Motivation Techniques
MS 5229   Negotiations and Conflict Resolution
MS 5241   Public Administration and Governance
MS 5245   System Thinking and Organizational Learning
MS 5303   Issues in Strategic Management
MS 5415   NGO Management
MS 5423   Global Governance and Development
MS 5427   Seminars in HRM

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

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

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

• **Management/HRM**
MS 5455 Decision Support System
MS 5464 Management Models
MS 5457 Disaster Management (GIS)
MS 5463 HR Analytics
MS 5466 Performance Management

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

Elective courses may vary from time to time. All courses may not necessarily be offered every year. Alternate courses may be substituted as and when required.

Students cannot register in Independent Research Study (IRS) OR thesis without completing six compulsory courses.

Maximum course load for a semester is 4 courses (12 credit hours). Summer is not a regular semester; therefore, courses are not offered on a regular basis in summer. A student can take maximum two interdisciplinary elective courses in SS/CS/IT/ Media/MBA program with the prior approval of respective program managers.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

DEPARTMENT OF COMPUTING

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

PROGRAMS

The Department of Computing at SZABIST offers degree program 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. The Department of Computing offers following degree programs:

· Bachelors of Science in Computer Science
· Bachelors of Science in Software Engineering
· Masters of Science in Computer Science

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS Computer Science

The program is offered through a well-trained foreign qualified faculty. It consists of 41 courses (five/six courses per semester) with a total of 130 credit hours. 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

UNIVERSITY ELECTIVES

Each campus may offer university electives as per convenience and availability of resources. The Electives being offered at Karachi Campus as are as follows:

CSC 4501	Business and Technology Ethics
CSC 4606	Psychology
CSC 4605	Sociology
CSC 4601	Foreign Languages
CSC 4502	Design and Creativity
CSC 4602	History of Scientific Ideas
CSC 4503	Introduction to Accounting
CSC 4603	Management Principles
CSC 4504	Organizational Behavior
CSC 4604	Research Report
CSC 4505	Systems Administration

COMPUTER SCIENCE SUPPORTING COURSES

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

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

DISTRIBUTION OF CREDIT HOURS

Course Group		Cr. Hrs.	%
Computing	Core Courses	39	30%
	Supporting Areas	12	9%
	General Education	19	15%
Computer Science	Core Courses	24	18%
	Electives	15	12%
	Supporting Courses	9	7%
University Electives		12	9%
	Total	130	100%

Internship

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

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

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 -1ˢᵗ			
	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 -2ⁿᵈ			
	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 -3ʳᵈ			
	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 -4th			
	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 -5th			
	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 -6th			
	SEC 3605	Software Quality Engineering	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 - I3, 0	3		
	SEC 4xxx	SE Supporting - III	3, 0	3	
		Sub-total	**18**		
		Fourth Year			
		Semester -7th			
	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 -8th			
	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 4541 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 3308 Management Principles
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	39	31%
Software Engineering	Core Courses	27	18%
	Electives	15	12%
	Supporting	9	7%
General Education		19	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

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 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

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 4075	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

Sociology
SS 4269   Civil Society
SS 4271   Peace Movements
SS 4138   Corporate Social Responsibility
SS 4141   Mass, Media and Society
SS 4237   Post-Colonial State and Social Development
SS 4238   Social Entrepreneurship
SS 4239   Social Justice
SS 4241   Sociology of Education
SS 4242   The Sociology of Poverty
SS 4196   Social Theories-I
SS 4296   Social Theories-II
SS 4171   Class, Caste, and Ethnicity in South Asia
SS 4172   Political Sociology
SS 4272   Social Change in Pakistan
SS 4169   Citizenship
SS 4273   Urbanization
SS 4295   Criminology
SS 4197   The Sociology of Religion
SS 4198   Sociology of Health

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

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

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

All courses may not necessarily be offered in every year. Alternate courses may be substituted as and when required.

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

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

ACADEMIC CALENDAR 2022-23 (Hyderabad Campus)

ACADEMIC CALENDAR 2022-23 (Hyderabad Campus)

FALL 2022

WEEK	COMMENTS
1	Course Registration
2	IS Thesis Advisors Meeting
3	
4	
5	Teaching Evaluation
6	Teaching Evaluation
7	
8	Mid-Term Exams
9	
10	
11	Last Week to Withdraw from Courses
12	
13	
14	
15	
16	Final Exam Week
17	Final Exam Week
	Comprehensive Exam

Classes Commencement Date

Hyderabad Campus: 29 August, 2022

ACADEMIC CALENDAR 2022-23 (Hyderabad Campus)

SPRING 2023

WEEK	COMMENTS
1	Course Registration
2	
3	
4	
5	Teaching Evaluation
6	Teaching Evaluation
7	
8	Mid-Term Exams
9	
10	
11	Last Week to Withdraw from Courses
12	
13	
14	
15	
16	Final Exam Week
17	Final Exam Week
	Comprehensive Exam

Classes Commencement Date

Hyderabad Campus: 16 January, 2023

CAMPUS WISE PROGRAMS OFFERING (FALL 2022)

PROGRAMS OFFERING AT DIFFERENT CAMPUSES OF SZABIST (FALL 2022)

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

We just Don't Work Hard
We Work Smart

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