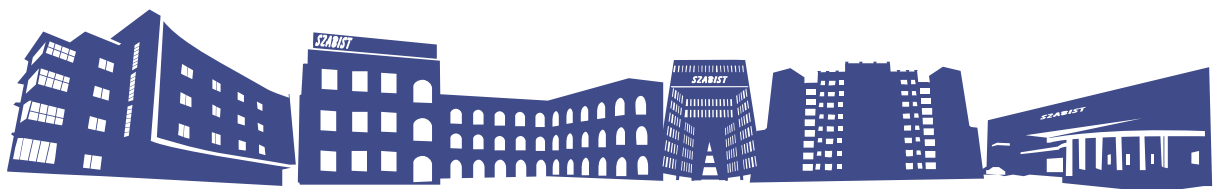CELEBRATING

S2ABI5T

YEARS

"SILVER JUBILEE YEAR
1995 - 2020"

PROSPECTUS 2020

HYDERABAD CAMPUS

We just Don't Work Hard
We Work Smart

SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY

THE VISION

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

THE MISSION

SZABIST is committed to produce highly qualified professionals to:
- Meet national and global contemporary needs;
- Conduct cutting edge research and development;
- Provide hi-tech scientific and technological expertise;
- Meet current and future socio-economic challenges;
- Meet global citizenship responsibility.

CONTENTS

SHAHEED ZULFIKAR ALI BHUTTO

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

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

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

SHAHEED MOHTARMA BENAZIR BHUTTO

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

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

Reconciliation: Islam, Democracy and the West, 2008.

CHANCELLOR'S MESSAGE

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

At SZABIST, we believe that innovative thoughts and high ideals teach the values of hard work and diligence. We prepare our students for professional careers, therefore, we offer a wide variety of humanities, science and technological programs including Management Sciences, Computer Sciences, Social Sciences, Media Sciences, Mechatronics Engineering, Biosciences, Education, Public Health and Law. The curriculum of each traditional and emerging program is approved by the Higher Education Commission (HEC), Pakistan and is taught by highly qualified and competent faculty members.

To achieve the mission of our founding Chancellor Shaheed Mohtarma Benazir Bhutto i.e. providing opportunity for high quality tertiary education and research to the youth in different areas of Pakistan, SZABIST, has a presence in Karachi, Islamabad, Larkana and Hyderabad, and an overseas campus in Dubai, UAE. We are also developing our campus at Gharo for Engineering and Applied Sciences.

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 student to realize and nurture their true and 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 student's 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 campus. A "Library Hub" is being established to fulfill emerging research and academic requirements.

As I welcome the new students, I encourage them to strive for excellence, 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 21 years, SZABIST's national and international market reputation has been significantly enhanced. This is evident from the increased enrollment of about 11,000 students in its five campuses-Karachi, Larkana, Hyderabad, Islamabad and Dubai (UAE).

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

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

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

The whole purpose of education is to create "Analytical Minds". The purpose is incomplete without significant contribution in the society. The prime slogan of SZABIST is to serve the society, not only through conventional learning but also through co-curricular and extra curricular activities.

SZABIST – while celebrating its **25th Silver Jubilee** year in 2020, which unfortunately is a year affected the world community due to COVID-19. This has caused a complete paradigm shift from the traditional face to face learning. SZABIST is one of such universities, which accepted the challenge to successfully manage itself on online education at all its campuses in Karachi, Islamabad, Larkana, Hyderabad & Dubai. This success was made possible due to the availability of good IT-infrastructure and due to the will and complete professionalism of its entire faculty and staff.

SZABIST programs under each department are in compliance with HEC recommended course plans and are accredited by respective regulatory bodies such as NBEAC, NCEAC, PEC and CIEC.

Our students, called SZABISTIANS, feel pride belonging to a community of professionals. Our strength is our ERP implemented through our own software house ZABSOLUTIONS. We utilize modern IT tools in teaching and managing all our academics and campus activities to ensure efficient working environment. We follow all prescribed quality education standards through ongoing and systematic assessments round the year. We have been continuously getting more than 90% score during the last five years by QEC/HEC.

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

The learning outcomes of the programs have been carefully designed to compel the students for critical & creative thinking, to acquire problem-solving skills and to professionally handle all pedagogical tools. We are fully aware that a University without Research is like a "Body" without "Soul"; therefore, we give high priority to all types of research activities.

Being an academician, I know the significance of providing "Counseling" to the students at every step in their academic career which helps in setting their directions as I believe "Direction" is more important than "Speed".

Finally, I welcome you once again and wish you success. Selecting SZABIST as your career-building institution, I assure you that you will be groomed and nurtured for meeting your future career challenges after completion of your academic degree program.

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

VICE PRESIDENT DEVELOPMENT AND FINANCE MESSAGE

Welcome to the 2020-2021 academic year at SZABIST!

SZABIST established by Shaheed Mohtarma Benazir Bhutto and run under the guidance of its Chancellor Dr. Azra Fazal Pechuho has emerged into a leading higher education institution that plays a pivotal role as a center of education recognized for its excellence in producing highly qualified graduates.

Here you will be provided an academically and professionally rewarding experience that aims at ensuring harmonious development of your mind and body to enable a creative, ethical, smart and holistic personality.

As the new academic year starts you are encouraged to take advantage of the wide range of services and facilities available, the student events, programs, seminars and festivals that will make your life at SZABIST interesting. Get involved to make the most of your time and gain the experience that makes you the smart individual that can meet the future challenges.

We are here to support you in every way and welcome you to a fulfilling and interesting academic year.

Nasreen Haque
Vice President (Development and Finance)
SZABIST

VICE PRESIDENT ADMINISTRATION MESSAGE

I extend a warm welcome to you at Shaheed Zulfikar Ali Bhutto Institute of Science and Technology. 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.

The unfailing dedication and vision of Shaheed Mohtarma Benazir Bhutto has led SZABIST to grow into an exceptionally well established institution. Today SZABIST has developed into a strong multidisciplinary institution with campuses in Karachi, Hyderabad, Larkana, Islamabad and Dubai. It provides an opportunity to students to acquire quality education and establish their future in obtaining jobs at renowned national and international organizations.

We at SZABIST are dedicated to the purpose of helping students to adjust to university life and to discover their skills and talents.

SZABIST is truly proud of the role students play in the life of the institution.

It is hoped that the Prospectus 2020 will serve as a useful guide in planning out your academic journey and I hope each of you have a well learning experience here at SZABIST.

With best wishes

Prof. Dr. Arshad Saleem
Vice President Administration
SZABIST

INTRODUCTION

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) is highly ranked and fully chartered institute of Pakistan established through a Legislative Act of Sindh Assembly (Sindh Act No. XI of 1995). It is approved and recognized by the Higher Education Commission (HEC) Pakistan as a degree awarding institution. All the programs offered at SZABIST are consistent with the guidelines laid by HEC and other regulatory bodies, for example, National Business Education Accreditation Council (NBEAC), National Computing Education Accreditation Council (NCEAC), National Accreditation Council for Teacher Education (NACTE), and Pakistan Engineering Council (PEC).

SZABIST comprises five campuses located in Karachi, Hyderabad, Larkana, Islamabad and Dubai with a current student population of over 11,000. SZABIST has proudly awarded degrees to over 14,500 talented graduates. Our alumni are sought by national and multinational organizations and hold key positions in several reputable firms at national and international level.

SZABIST offers undergraduate, graduate and post graduate degrees in 6 different disciplines: Management Sciences, Computer Sciences, Media Sciences, Education & Social Sciences, Mechatronic Engineering and Life Sciences. In addition, SZABIST offers LLB program and BABS program as external programs in affiliation with University of London and Coventry University, UK respectively. In order to further diversify SZABIST's portfolio, MS and PhD programs in Educational Leadership & Management have been introduced in Fall-2015.

SZABIST is ranked as one of the most reputed university by Higher Education Commission (HEC) and Chartered Inspection and Evaluation Committee (CIEC) Sindh. All programs of SZABIST are conducted under strict compliance of the relevant regulator bodies such as NBEAC, NCEAC, NACTE, PEC and KHDA Dubai. Since 2012, the SZABIST-QEC has been awarded more than 91% in the quantitative assessment by Quality Assurance Agency (QAA) HEC, Pakistan.

The Institute has signed MoUs' with various reputable and distinguished organizations and institutions such as Istanbul Medipol University, Turkey; University of London, UK; 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 socioeconomic development.

INTRODUCTION

PROGRAMS & CURRICULA

DEGREES OFFERED

All five campuses of SZABIST offer various degree programs in different discipline please refer page 35 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, the students are required to complete 46 courses and 3 credit hours Business Project 3 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. The maximum time limit to complete the BBA degree is six years. BBA program is in the process of reaccredation from ACCA.

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 Final Project. 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.
Those who complete BS (A & F) from Szabist will get exemptions in nine papers of ACCA i.e. from F1 to F9.

Bachelor of Science in Computing Science (BSCS)

SZABIST offers a four-year (eight semesters) BS Computer Science degree program which is accredited by National Computing Education & Accreditation Council, (NCEAC). The program covers a wide range of courses in core Computer Science, Information Technology and Software Engineering. The program is essentially a day program and consists of 40 courses (five courses per semester) with a total of 130 credit hours. The complete course plan includes 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 (BSSE)

SZABIST offer a four year BS Software Engineering degree program comprising eight semesters. This undergraduate degree program primarily focuses on the processes/ methodologies, tools and techniques of quality software systems. 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 neccessary to produce high quality software systems. Some additional courses from the disciplines of Computer Science, Mathematics/ Management Sciences and Humanities are part of the degree program to develop a broader knowledge of the students. The Program Consists of 41 courses with minimum 130 credit hours. Internship is mandatory to complete as a part of the degree program. The maximum time to complete the BS Software Engineering is six years.

Bachelor of Science in Social Sciences (BS SS)

SZABIST offers a four-year (eight semesters) BS Social Sciences degree with majors in Psychology, Sindh Studies, Sociology, Economics, and International Relations. BS Program is essentially day program and consists of 46 courses (six courses per semester) including research project (I&II) with a total of 144 credit hours. The maximum time limit to complete the BS degree is six years.

Master of Business Administration (MBA)

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 Research Project (6 credit hours) OR Thesis (6 credit hours) 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. The maximum duration to complete the program is four years.

PROGRAMS & CURRICULA

Master of Science in Management Sciences

SZABIST offers MS degree with concentration in the specialized areas of Human Resource Management, Marketing and Finance. 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 Stream, the student is required to complete 8 Courses and Two IRS OR one Thesis. In both the streams, 30 credit hours to be completed. The time limit to earn an MS degree is from 1.5 to 4 years. As per HEC guidelines, all MS students are required to clear GAT General test or HAT relevant with minimum 50% score.

Grading Plan

The following Letter Grade Plan is followed at SZABIST:

Letter	Range	Grade Point	Degree Requirement
A+	90 – 100	4.00	
A	85 – 89	3.75	
A-	80 – 84	3.50	
B+	75 – 79	3.25	
B	70 – 74	3.00	
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.
- Verification of last degree from Higher Education Commission of Pakistan (HEC) is mandatory for all Masters and 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.

MASTER DEGREE PROGRAMS

Master of Business Administration (MBA)

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

Master of Science in Management Sciences (MS MS)

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

Admission 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	40
1400 – 1499	33.3
1300 – 1399	26.6
1200 – 1299	20
1100 – 1199	13.3

*Candidates securing 100% marks in SZABIST's admission test will be equivalent to 40.

For Masters Programs

50% score of GMAT for Master Programs

For MS Programs

GAT (General)/GRE/HAT relevant 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.

ADMISSION REQUIREMENTS

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 within a time spam of one year are: 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 Provides a wide range of financial assistance to eligible and deserving students. For Instance:

- SZABIST Need-Based Scholarship
- SZABSIT Merit-Based Scholarship
- Chief Minister's – SZABIST Merit and Need-Based Scholarship
- Sindh Education Endowment Fund Scholarship
- USAID Funded Merit and Need-Based Scholarship
- Ihsan Trust's Qarz-e-Hasna Facility
- Sindh Police Scholarships
- ACCA Accelerate Scholarship
- Ministry of Harmony and Interfaith Minority Scholarships
- Khairpur Poverty cum Merit Scholarships
- Various community-based scholarships

All scholarships cover partial to full tuitions fees. However, in some cases, scholarships also cover books, boarding, transportation, monthly stipend and admission fee. All requests for financial assistance must be made after securing admission

LIFE AT SZABIST

FACILITIES

Video Conferencing

SZABIST is the first educational institute in Pakistan that introduced multi-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 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 revamped with brand new labs space, furniture and latest machines with giga bite network connectivity to cater students requirements. "Campus licensing" of latest software, including development tools, and operating systems provide an unmatchable environment compared to majority of well-reputed universities of Pakistan.

SZABIST has computing facilities supported with 24x7 broadband connectivity of 228 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 acquired Microsoft IT academy and Oracle Academic Alliance program.

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

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

LIFE AT SZABIST

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

It is the highest academic statutory body of the university. Its meetings are held twice a year after completion of Board of Studies (BOS) meetings, Board of Faculty (BOF) meetings and Board of Advanced Studies & Research (BASR) meetings. All the recommendations related to academic programs, introduction of new programs, changes in the existing programs, changes in the course outlines, etc. approved by BOF are sent to Academic Council for further discussion and approval. The meeting is chaired by the President and co-chaired by the Vice President (Academics) and is participated by the members of Academic Council from all campuses of SZABIST and as well as external members from Academia and Corporate Sectors.

Office of Research Innovation and Commercialization (ORIC)

The ORIC office at SZABIST has been established to provide end-to-end services for all matters pertaining to research & development, innovation, inventions, commercialization, patents, collaborations, arranging seminars/ colloquia/ symposium/ conferences/ workshops & etc.

ORIC is helping its researchers to do high quality research to help shape better future. ORIC intends to provide support to the faculty in solving real-life problems, change policies and influence practice, all to the benefit of the people of Pakistan.

ORIC welcomes opportunities to collaborate and partner with like-minded researchers, research managers and administrators, and our doors are open to postgraduate students seeking a research home where quality counts. The ORIC is trying to establish good working relationship with other higher learning institutions, industries and donor agencies especially HEC, PSF and other universities in Pakistan in the activities that can enhance entrepreneurship, academic and research excellence.

What is 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.

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

- Fund raising for research.
- Provide information to faculty about various available research grants.
- Link faculty and students with relevant industry.
- Help and guide on patent filing and licensing.
- Interface between faculty and the commercial sector.
- Work with patent counsel to assess patentability / licensing
- Evaluate markets for commercialization of inventions.
- Identify potential licensees.
- Negotiate terms of licenses.
- Assist with negotiating problematic sponsored research agreements.
- Help faculty start companies.

ORIC in 2020

ORIC is moving ahead with high aim to enhance research productivity across disciplines at SZABIST. For the year 2020 ORIC lines up various plans & strategies to strengthen research culture at SZABIST. It maintains the highest standards of research of both students and faculty. The ORIC has positively set the pace to match up to the challenges in the field of research and commercialization.

The ORIC Office is looking forward to improve the Human Resource Development Program and explore funding for establishment of Research Labs at SZABIST in its various departments. Special emphases will be given to strengthen international linkages in near future particularly with foreign universities based on joint research proposals for international funding. ORIC will be arranging regular scientific seminars, colloquia, symposium etc. to promote the culture of interaction and sharing of scientific knowledge with researchers around the world.

ORIC will work hard in promoting entrepreneurship, technology-transfer and commercialization activities that energize and support the local and national economy and promoting and enhancing crosscutting and multi-disciplinary research initiatives. Learn more about SZABIST ORIC at oric.szabist.edu.pk.

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

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

EDC engages with the Alumni for relationship building, corporate networking and profile update. Its latest initiative is the launch of SZABIST Alumni Global Association (SAGA).

Job & Internship Placements

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

An annual "Career Fair" is held 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.

LIFE AT SZABIST

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 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 and ZABTECH.

Computing Resources

Computing resources of the datacentre is comprising of 15 TFLOPS of processing speed with high performance and reliable 90 Tera Bytes of storage capacity. The datacentre is equipped with UPS backup and 12-ton precision cooling system for reliability of datacentre 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.

ZABSolutions

SZABIST has its own software house which 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 lifecyle of the SZABIST. The complete academic process of a student, right from the filling of the online admission form till the printing of the final transcript and the degree, runs on the integrated solutions developed by ZABSolutions.

Several educational institutions in Pakistan have shown their interest in ZABSolutions products. Academic lifecycle of several institutions will soon be migrated to the integrated paperless campus solutions developed by ZABSolutions.

The ZABSolutions incubator helps computer science students to foster their software skills. Students can access ZABSolutions resources and knowledge to develop 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

LIFE AT SZABIST

SZABIST Student Council (SSC)

The SZABIST Student Council (SSC) since its inception in 2009 has been a body of hardworking, ambitious and talented individuals who are elected under the supervision of the Election Commission of SZABIST with members of its work force also selected by means of an entrance test and screening process all on an annual basis to form the student government at the institute. For almost a decade, the philosophy of the student council has been one in congruence with the values espoused in the ideology of SZABIST, those of leadership, art & creativity and tolerance and scientific thought along with serving the community through social work.

Trained to stand by the principles of labour, knowledge and integrity the SSC membership cutting across all degree programs of the institute aims at helping to explore the talents of all students whilst also playing an intermediary role between the administration/management and student body at large, working towards adding value to student life at SZABIST.

At SZABIST, students are offered a range of activities under the pillars of Leadership, Sports, Community Service, Art and Culture and Technical and the institute is fortunate to have a unique and diverse student body one that boasts a proud history of achievements in the realms of public speaking, sports, entrepreneurship, music and theatre.
All student associations, clubs and student societies placed under the above mentioned thematic pillars are formed as per a prescribed procedure and work under the aegis of the SZABIST Student Council to conduct a wide range of activities to do with sports, entrepreneurship, performing arts like theatre and music, photography, culture, literature, public speaking, science and technology, engineering and computing, model United Nations, social welfare, leadership workshops and field trips

SSC also hosts entertainment events, produces seasonal SSC merchandise (such as shirts, mugs, banners, or any other promotional material) at times, and guides fellow students in addressing issues related to their campus life acting as a forum that becomes the voice of the student body of the institute. Furthermore, it acts as a parent body to its chapters in other campuses of SZABIST namely, SSC-Hyderabad Chapter, SSC-Islamabad Chapter and SSC-Larkana Chapter and SSC-Dubai Chapter.

The SSC and all its student associations and clubs, fall under the purview of and are registered with the Office of Student Advisory once they are formed. To ensure that democratic norms are adhered to, every year proper elections are held for the various offices of these student societies under the supervision of Student Council/Student Advisor/SZABIST Election Commission.

The following clubs/societies are currently active on Campus:

The following clubs/societies are currently active on Campus:

ACM	Association of Computing Machinery (SZABIST Hyderabad, ACM Chapter)
AIESEC	Student Exchange Program Facilitation
IEEE-SSB	Institute of Electrical and Electronics Engineers-SZABIST Student Branch
SES	SZABIST Entrepreneurial Society
SOS	SZABIST Oratory Society
SDS	SZABIST Debating Society
SSSS	SZABIST Social Sciences Society
SSS	SZABIST Sports Society
ZABLITS	SZABIST Literary Society
SMS	SZABIST Marketing Society
SWS	SZABIST Welfare Society
SFS	SZABIST Finance Society
ZABPAS	SZABIST Performing Arts Society

LIFE AT SZABIST

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. Project Management Institute Karachi Pakistan Chapter

This MoU is aimed at creating a mutually beneficial partnership to promote project management awareness in the community, and to initiate and enhance collaboration between academia and industry to nourish young professionals as well as create and implement best project management practices.

2. BEEF

BEEF will be proving full funded scholarship to 5-6 meritorious and financially challenged students of SZABIST who are local domicile certificate holders of Balochistan. The scholarship will be for the complete duration of the degree program and it will be available for the Fall 2019 entrants and onwards.

3. Integration Xperts (Private) Limited

Integration Xperts (Private) Limited and SZABIST will do Joint Research and Development on Bio-Sciences.

4. Family Educational Services Foundation

FESF will provide a social internship opportunity to 70 students of SZABIST through the 'Champions of

Change' program. The social internship program will consist of training and mentoring sessions, guidance in developing/implementing a social action project/campaign in the campus or the community with a focus on developing tolerance, acceptance, diversity and social inclusion.

5. DAI Pakistan Pvt Ltd

Collaboration for the implementation of projects for the wider higher education sector engagement on promoting peace in SZABIST under the Azm-e-Pakistan program by fostering knowledge on countering violent extremism through research and peace building practices.

6. Mitsubishi Corporation

Mitsubishi Corporation through this MoU would be awarding scholarship to two students enrolled in the BBA program.

7. Gul Ahmed Textiles Mills

Under this MoU, Gul Ahmed Textiles Mills will provide trees to SZABIST, whereas, SZABIST would ensure effective plantation and maintenance of trees. The Campaign was officially started by planting trees at SZABIST Karachi Campus.

8. Planning and Development Department, Research and Training Wing, Government of Sindh

This collaboration will facilitate exchange of experts and resource persons to speak at SZABIST and in the P&DD. The objective of this collaboration is to work towards strengthening the monitoring and evaluation capacity of P&DD, developing results based framework and benefit incidence analysis studies.

9. Coventry University

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

10. 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.

LIFE AT SZABIST

11. The Citizen Foundation

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

12. JS Bank Limited

JS Bank would extend financing to the students and alumni of SZABIST and alumni to establish/expand their respective business through Business Loan Scheme.

13. Istanbul Medipol University

This MoU will present numerous opportunities to SZABIST for initiating mutually-rewarding R&D projects, and student & faculty exchange programs. On August 30, 2018 an appendix was signed between the parties. Through this appendix, Istanbul Medipol University would give out Scholarships to five undergraduate program students and ten MS/PhD Program students.

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

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

15. Sindh Judicial Academy

SZABIST Rule of Law Center and Sindh Judicial Academy agree to cooperate for capacity building of judges, lawyers, salis notified by High Court of Sindh in mechanism of alternative dispute resolution.

16. ASER – Alliance Pakistan (AAP)

This is a technical-advocacy alliance for benchmarking, and assessment of data sets for research and development.

17. CISCO Networking Academy

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

18. Ihsan Trust

The MoU with Ihsan Trust is aimed at provision of Qarz-e-Hasna (Interest-free Loan) facility up to 100 % of tuition fee to SZABIST students.

19. University of London

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

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, the students are required to complete 46 courses and a 3 credit hours Business Project & 3 credit hours Community Service Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing or Finance. To obtain the BBA degree, the students have to complete 144 credit hours and an internship. The degree needs to be completed within six years. BBA program is in the process of reaccredation from ACCA.

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

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

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 along with six weeks of internship to graduate. Students completing BS (A & F) will get exemptions in nine papers of ACCA i.e. from F1 to F9. The maximum duration to complete this degree program is six years.

First Year

Fall Semester

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

Spring Semester

AF 1103	English Comprehension
AF 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 1204	Introduction to HRM
AF 4xxx	Accounting Elective-I
AF 4707	Company Law
AF 4801	Corporate Finance
AF 4xxx	Finance Elective-I
AF 3603	e-Commerce

Spring Semester

AF 2306	Pakistan Economic Policy
AF 3504	Entrepreneurship and Small Business Management
AF 4xxx	Accounting Elective-II
AF 4808	Final Project
AF 4xxx	Finance Elective-II

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

FACULTY OF MANAGEMENT SCIENCES

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

MBA Program

For students with 4-year undergraduate degree/16-years of education, the duration of the MBA program is 2 years. Twenty-two courses (66 credits) and Research Project (6 credits) or Thesis (6 credit hours) are needed to graduate. Students are also required to complete a six-week internship. The maximum duration to complete this degree 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 5203	Strategic Marketing
BA 5xxx	Elective-I
BA 5508	Research Project-I (3 Credits) or
BA 5507	Thesis-I (3 Credits)

Spring Semester

BA 5104	Strategic Management
BA 5208	Strategic Finance
BA 5xxx	Elective-II
BA 5xxx	Elective-III
BA 5xxx	Elective-IV

BA 5608	Research Project - II (3 Credits)
BA 5607	or Thesis-II (3 Credits)

* Exempt 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. Minimum duration of degree for such students will be 1.5-year with 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

FACULTY OF MANAGEMENT SCIENCES

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.

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

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 Organisations

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

FACULTY OF MANAGEMENT SCIENCES

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
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

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

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

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

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

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) If Any

FACULTY OF MANAGEMENT SCIENCES

ELECTIVES

Finance

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

Marketing

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

Human Resource Management

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

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 & ENGINEERING SCIENCES

BS (Computer Science) program is offered by the Department of Computer Science which runs under the Faculty of Computing and Engineering Sciences. The department offers MS & PhD programs in Computer Science as well. The objective of the BS (Computer Science) program is to inculcate a broad-based rudimentary education in Computer Science. The students would acquire sufficient fundamental knowledge to adapt quickly to the changes that are occurring and will continue to occur during their professional careers. The program involves analysis, development and implementation of mathematical algorithms to solve computational problems, understanding computer electronics, study of operating systems, languages, compilers, data communication and networks, solving complex computing problems, designing man-to-machine interfaces, security, mobile computing and so on.

SZABIST believes in conceptual learning. It has developed an organizational network of reputable multinational and national enterprises for collaboration in Computing. SZABIST runs its own software house, which facilitates students to meet the desired objectives and learning outcomes.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS Computer Science

The program is offered through a well-trained foreign qualified faculty. It consists of 40 courses (five courses per semester) with a total of 130 credit hours. BSCS Program is accredited by NCEAC. The maximum time to complete the degree is six years.

BS (Computer Science) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
		First Year			
		Fall Semester			
	CSC 1108	Introduction to Computer Science	2, 0	2	
	CSCL 1108	Lab : Introduction to Computer Science	0, 1	1	
	CSC 1103	Fundamentals of Programming	3, 0	3	
	CSCL 1103	Lab : Fundamentals of Programming	0, 1	1	
	CSC 1102	English Composition and Comprehension	3, 0	3	
	CSC 1101	Calculus and Analytical Geometry	3, 0	3	
	CSC 1107	Applied Physics	2, 0	2	
	CSCL 1107	Lab : Applied Physics	0, 1	1	
			16		
		Spring Semester			
	CSC 2103	Digital Logic Design	3, 0	3	CSC 1107
	CSCL 2103	Lab: Digital Logic Design	0, 1	1	CSC 1107
	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 2105	Statistics and Probability	3, 0	3	
	CSC xxxx	University Elective-1	3, 0	3	
			17		
		Second Year			
		Fall Semester			
	CSC 2201	Computer Organization and Assembly Language	3, 0	3	
	CSCL 2201	Lab: Computer Organization and Assembly Language	0, 1	1	
	CSC 2102	Data Structures and Algorithms	3, 0	3	CSC 1208
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1	
	CSC 1201	Discrete Mathematical Structures	3, 0	3	
	CSC 4102	Professional Practices	3, 0	3	
	CSC xxxx	CS Supporting-1	3, 0	3	
			17		
		Spring Semester			
	CSC 3202	Design and Analysis of Algorithms	3, 0	3	CSC 2102
	CSC 2204	Finite Automata Theory and Formal Languages	3, 0	3	
	CSC 2203	Database Systems	3, 0	3	CSC 2102
	CSCL 2203	Lab: Database Systems	0, 1	1	
	CSC 2206	Linear Algebra	3, 0	3	
	CSC xxxx	University Elective-2	3, 0	3	
			16		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

	Third Year				
	Fall Semester				
CSC 3201	Compiler Construction	3, 0	3	CSC 2204	
CSC xxxx	CS Supporting-2	3, 0	3		
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 xxxx	CS Supporting-3	3, 0	3		
			16		
	Spring Semester				
CSC 4101	Artificial Intelligence	3, 0	3	CSC 1201	
CSCL 4101	Lab: Artificial Intelligence	0, 1	1		
CSC 3205	Computer Networks and Data Communications	3, 0	3		
CSCL 3205	Lab: Computer Networks and Data Communications	0, 1	1		
CSC 4xxx	CS Elective-1	3, 0	3		
CSC 4xxx	CS Elective-2	3, 0	3		
CSC 1205	Technical and Business Writing	3, 0	3		
			17		
	Fourth Year				
	Fall Semester				
CSC 4xxx	CS Elective-3	3, 0	3		
CSC 4xxx	CS Elective-4	3, 0	3		
CSC 4105	Final Year Project-I	0, 3	3		
CSC xxxx	University Elective-3	3, 0	3		
CSC 4106	Parallel and Distributed Computing	3, 0	3	CSC 2205	
			15		
	Spring Semester				
CSC 4xxx	CS Elective-5	3, 0	3		
CSC xxxx	University Elective-4	3, 0	3		
CSC 4205	Final Year Project-II	0, 3	3		
CSC 4201	Information Security	3, 0	3		
CSC 4202	Pakistan and Islamic Studies / Humanities	4, 0	4		
			16		
			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 4505	Systems Administration
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

UNIVERSITY ELECTIVES

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

CSC 4501	Business and Technology Ethics
CSC 4606	Psychology
CSC 4605	Sociology
CSC 4601	Foreign Languages
CSC 4502	Design and Creativity
CSC 4602	History of Scientific Ideas
CSC 4503	Introduction to Accounting
CSC 4603	Management Principles
CSC 4504	Organizational Behavior
CSC 4604	Research Report
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 2124	Multi-variate Calculus
CSC 2123	Graph Theory
CSC 2121	Theory of Programming Languages
CSC 2125	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.

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

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS Software Engineering

The program is offered through a well-trained foreign qualified faculty. It consists of 41 courses with a total of 130 credit hours. BSCS Program is accredited by NCEAC. The maximum time to complete the degree is six years.

BS (Software Engineering) 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 1104	Physics	3, 0	3	
	CSC 1108	Introduction to Computer Science	2, 0	2	
	CSC 1108	Lab : Introduction to Computer Science	1, 0	1	
			16		
		Spring Semester			
	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
	SEC xxxx	Software Engineering	3, 0	3	
	CSC 1201	Discrete Mathematical Structures	3, 0	3	
	CSC xxxx	Islamic Studies/Humanities	2, 0	2	
	SEC xxxx	University Elective-I	3, 0	3	
			18		
		Second Year			
		Fall Semester			
	CSC 2102	Data Structures and Algorithms	3, 0	3	CSC 1208
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1	CSC 1208
	SEC xxxx	Software Requirement Engineering	3, 0	3	Software Engineering
	CSC 3102	Human Computer Interaction	3, 0	3	Software Engineering
	SEC xxxx	Linear Algebra	3, 0	3	
	CSC xxxx	Pakistan Studies	2, 0	2	
	SEC xxxx	University Elective-II	3, 0	3	
			18		
		Spring Semester			
	CSC 2205	Operation Systems	3, 0	3	CSC 2102
	CSCL 2205	Lab : Operation 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 xxxx	Software Design & Architecture	2, 0	2	Software Requirement Engineering
	SECL xxxx	Lab : Software Design & Architecture	0, 1	1	Software Requirement Engineering
	SEC xxxx	Probability & Statistics	3, 0	3	
	SEC xxxx	University Elective-III	3, 0	3	
			17		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

		Third Year			
		Fall Semester			
SEC xxxx	Software Construction and Development		2, 0	2	Software Design and Architecture
SECL xxxx	Lab : Software Construction and Development		0, 1	1	Software Design and Architecture
CSC 2202	Data Communications and Computer Networks		3, 0	3	
CSCL 2202	Lab : Data Communications and Computer Networks		0, 1	1	
CSC 1205	Technical and Business Writing		3, 0	3	CSC 2102
SEC xxxx	SE Supporting-I		3, 0	3	
SEC xxxx	SE Supporting-II		3,0	3	
				16	
		Spring Semester			
SEC xxxx	Software Quality Engineering		3, 0	3	Software Engineering
SEC xxxx	Information Security		3, 0	3	
CSC 4102	Professional Practices		3, 0	3	
SEC xxxx	Web Engineering		3, 0	3	
SEC 4xxx	SE Elective - I		3, 0	3	
SEC 4xxx	SE Supporting - III		3, 0	3	
				18	
		Fourth Year			
		Fall Semester			
CSC 4814	Software Project Management		3, 0	3	Software Engineering
SEC xxxx	Software Re-Engineering		3, 0	3	Software Construction & Development
SEC xxxx	SE Elective - II		3, 0	3	
SEC xxxx	SE Elective - III		3, 0	3	
SEC xxxx	Final Year Project - I		0, 3	3	
				15	
		Spring Semester			
SEC xxxx	SE Elective - IV		3, 0	3	
SEC xxxx	SE Elective - V		3, 0	3	
SEC xxxx	Final Year Project-II		0, 3	3	
SEC xxxx	University Elective - IV		3, 0	3	
				12	
				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

CSC 4101	Artificial Intelligence
CSC 4706	Digital Image Processing
CSC 4719	Game Development
CSC 4721	Introduction to Cloud Computing
CSC 4747	Systems Programming
CSC 4816	Technopreneurship
CSC 4818	Introduction to Data Science
CSC 4825	Computer Graphics
SEC 4106	Parallel and Distributed Computing
SEC 4xxx	Introduction to Modeling & Simulation
SEC 4xxx	Mobile Application Development
SEC 4xxx	Agent Based Software Engineering
SEC 4xxx	Big Data Analytics
SEC 4xxx	Computational Intelligence
SEC 4xxx	Computer Vision
SEC 4xxx	Design Patterns
SEC 4xxx	E - Commerce
SEC 4xxx	Formal Methods
SEC 4xxx	Information Systems Audit
SEC 4xxx	Management Information Systems
SEC 4xxx	Multimedia Communication
SEC 4xxx	Natural Language Processing
SEC 4xxx	Real Time Systems
SEC 4xxx	Sementic Web
SEC 4xxx	Software Engineering Economics
SEC 4xxx	Software Metrics
SEC 4xxx	Topics in Software Engineering
SEC 4xxx	Visual Programming
SEC xxxx	Data Encryption and Security
SEC xxxx	Global Software Development

UNIVERSITY ELECTIVE COURSES

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

CSC 4504	Organizational Behavior
CSC 4601	Foreign Language
CSC 4603	Management Principles
CSC 4605	Sociology
SEC 3301	Introduction to Management
SEC 3302	Financial Accounting
SEC 3303	Human Resource Management
SEC 4xxx	Psychology

SE SUPPORTING COURSES

CSC 2103	Digital Logic Design
SEC xxxx	Business Processing Engineering
SEC xxxx	Formal Methods in SE
SEC xxxx	Operations Research

SEC xxxx   Stochastic Processes

DISTRIBUTION OF CREDIT HOURS

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

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 SOCIAL SCIENCES

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

FACULTY OF SOCIAL SCIENCES

To obtain a BS degree in Social Sciences, students are required to complete a total of 144 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 1109	Islamiat/Ethics and Pakistan Studies
SS 1105	Microeconomics
SS 1115	Community Services
SS 1201	Introduction to Social Sciences

Spring Semester
SS 2306	Psychology
SS 1205	Macroeconomics
SS 2307	Sociology
SS 1155	Introduction to Political Science
SS 2412	International Relations
SS 4705	Sindh Studies

Second Year

Fall Semester
SS 2314	Study of Anthropology
SS 2316	English for Academic Purposes
SS 2313	Introduction to Social Psychology
SS 2318	Mathematics and Statistics
SS 2413	Philosophy
SS 1xxx	Elective-I

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

Third Year

Fall Semester
SS 2312	Culture, Art and Society
SS 3509	Language-I
SS 3606	Political Economy
SS 4xxx	Major-I
SS 4xxx	Major-II
SS 4xxx	Major-III

Spring Semester
SS 3504	Research Methods
SS 3605	International Law and Human Rights
SS 3609	Language-II
SS 4xxx	Major-IV
SS 4xxx	Major-V
SS 4xxx	Major-VI

Fourth Year

Fall Semester
SS 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

MAJORS

Psychology
SS 4111	Abnormal Psychology
SS 4112	Developmental Psychology

FACULTY OF SOCIAL SCIENCES

SS 4134   Cognitive Psychology
SS 4135   Educational Psychology
SS 4234   Psychodynamics
SS 4268   History of Psychology
SS 4167   Child Psychology
SS 4156   Clinical Psychology
SS 4114   Personality Theories
SS 4255   Counseling and Psychotherapy
SS 4211   Psychological Testing
SS 4236   Positive Psychology
SS 4168   Experimental Psychology
SS 4267   Forensic Psychology
SS 4262   Physiological Psychology
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

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

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

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

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 2020-21 (Hyderabad Campus)

ACADEMIC CALENDAR 2020-21 (Hyderabad Campus)

FALL 2020

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: September 14, 2020

ACADEMIC CALENDAR 2020-21 (Hyderabad Campus)

ACADEMIC CALENDAR 2020-21 (Hyderabad Campus)

SPRING 2021

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: February 01, 2021

CAMPUS WISE PROGRAMS OFFERING
(FALL 2020)

PROGRAMS OFFERING AT DIFFERENT CAMPUSES OF SZABIST (FALL 2020)

PROGRAMS	CAMPUS				
	Karachi	Islamabad	Larkana	Hyderabad	Dubai
Bachelor of Business Administration (BBA)	✓	✓	✓	✓	✓
BA (Hons.) in Business Studies (BABS)	✓				
BS Accounting & Finance	✓	✓	✓	✓	✓
BS Entrepreneurship	✓				
BS Computer Science	✓	✓	✓	✓	✓
BS Software Engineering		✓		✓	
BS Media Science	✓	✓			
BS Social Sciences	✓	✓		✓	
BE Mechatronic Engineering	✓				
BS Biosciences	✓				
BS Biotechnology	✓				
Bachelor of Law (LLB)	✓				
Certificate of Higher Education in Common Law (CertHE)	✓				
Bachelor of Education (B.Ed.)	✓				
Master in Business Administration (MBA)	✓	✓	✓	✓	✓
Executive MBA	✓	✓			✓
Masters in Project Management	✓	✓			✓
Professional MBA		✓			
Masters in Human Resource Management		✓			
Master of Advertising	✓				
MA Education	✓				
MS Public Health (MSPH)	✓				
MS Biosciences	✓				
MS Computer Science	✓	✓			✓
MS (CS) with specialization in Software Engineering	✓	✓			✓
MS (CS) with specialization in Networks & Security	✓	✓			✓
MS (Cyber Security)		✓			
MS Media Studies	✓				
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 Sociology	✓	✓			
MS (SS) with specialization in International Relations	✓				
MS (SS) with specialization in Political Science		✓			
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 Educational Leadership and Management	✓				
PhD Biosciences	✓				

We just Don't Work Hard
We Work Smart

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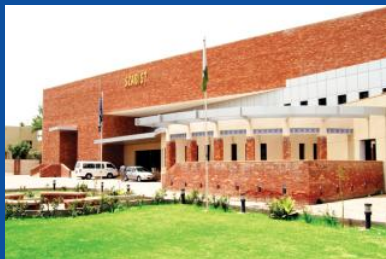www.facebook.com/szabistofficial

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