SZABIST
UNIVERSITY
Hyderabad Campus

Discover Yourself







PROSPECTUS
2026-27

We just Don’t Work Hard

We Work Smart

SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY

THE VISION

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

THE MISSION

SZABIST is committed to produce highly qualified professionals to:

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

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SHAHEED ZULFIKAR ALI BHUTTO



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

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

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

SHAHEED MOHTARMA BENAZIR BHUTTO



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

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

Reconciliation: Islam, Democracy and the West, 2008.

CHANCELLOR'S MESSAGE



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

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

To achieve the mission of our founding Chancellor Shaheed Mohtarma Benazir Bhutto of providing opportunity for high quality tertiary education and research to the youth of Pakistan, SZABIST University has a presence in Karachi, Islamabad, Larkana, Hyderabad, Gharo and an overseas campus in Dubai, UAE.

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

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

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

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

The motto of SZABIST University 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 University.

Dr. Azra Fazal Pechuho
Chancellor
SZABIST University

Dr. Azra Fazal Pechuho
Chancellor
SZABIST University

PRESIDENT &
VICE PRESIDENT'S (ACADEMICS) MESSAGE



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

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

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

SZABIST University has five campuses in different cities of Pakistan (Karachi, Islamabad, Larkana, Hyderabad & Gharo). We offer programs ranging from BS to PhD, in diversified disciplines such as Computer Science, Artificial Intelligence, Management Sciences, Social Sciences, Media Sciences, Education, Mechatronic Engineering, Biosciences, Biotechnology, Public Health & LLB (International Program from University of London).

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

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

Prof. Dr. M. Altaf Mukati
President &
Vice President's (Academics)
SZABIST University

VICE PRESIDENT ADMINISTRATION MESSAGE



I am delighted to welcome you to SZABIST University. At SZABIST University, you will become part of a strong and supportive community that values academic excellence and diversity.

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

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

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

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

It is hoped that the Prospectus 2026 will serve as a useful guide in planning out your academic journey and that each of you have a well learning and fruitful experience here at SZABIST University.

With best wishes,

Imtiaz Kazi
Vice President Administration
SZABIST University

VICE PRESIDENT DEVELOPMENT AND FINANCE MESSAGE



Welcome to Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology (SZABIST) University – a distinguished institution founded by Shaheed Mohtarma Benazir Bhutto and thriving under the visionary leadership of our Chancellor Dr. Azra Fazal Pechuho. SZABIST stands at the forefront of higher education in Pakistan, renowned for producing graduates who are prepared to excel in a rapidly evolving global landscape.

At SZABIST, we are dedicated to nurturing not only academic excellence but also creativity, ethical values, and holistic personnel growth. Our campus, comprehensive facilities and vibrant academic community provides an ideal environment for learning, innovation and discovery.

As a SZABIST student you will have access to a wide array of services, resources and opportunities. From cutting - edge research projects and professional development programs to seminars, workshops, and cultural festivals - every aspect of campus life is designed to enrich your educational experience and prepare you for success.

We encourage you to get involved, make the most of your time here, and take advantage of everything SZABIST has to offer. By actively participating in academics and extracurricular activities, you will develop the knowledge, skills and confidence needed to become a leader in your chosen field- whether in Pakistan or abroad.

We look forward to welcoming you to the SZABIST family and supporting you and your journey to a bright and fulfilling future.

Your future begins here. Discover your potential at the SZABIST University.

Nasreen Haque
Vice President (Development and Finance)
SZABIST University

INTRODUCTION

SZABIST University is proud to offer quality education in the areas that are crucial for Pakistan's socioeconomic development. It was established as a Degree Awarding Institute (DAI) in the year 1995 through the Legislative Act of Sindh Assembly and chartered as University by Sindh Assembly through Sindh Act No. XIX of 2023. It is ranked as one of the most reputed universities by the Higher Education Commission (HEC) of Pakistan and the Chartered Inspection and Evaluation Committee (CIEC).

SZABIST University comprises six campuses located in Karachi, Hyderabad, Larkana, Islamabad, Dubai (UAE), and Gharo with a diverse student population of approximately 20,000. Collectively, approximately 39,000 talented graduates have been proudly awarded degrees by all campuses of SZABIST University. Our alumni are sought by national and multinational organizations and hold key positions in several reputable firms. All programs of SZABIST University are conducted under strict compliance of the relevant regulatory bodies such as NBEAC, NCEAC, NACTE, PEC and KHDA Dubai (UAE).

The university offers undergraduate, graduate and post graduate degrees in 5 different disciplines: Faculty of Management Sciences, Faculty of Computing and Engineering Sciences, Faculty of Media Sciences, Faculty of Education and Social Sciences, and Faculty of Life Sciences. Additionally, SZABIST University offers LLB program, CertHE (Law), and BABS program as external programs in affiliation with University of London and Coventry University, UK, respectively. Moreover, through multiple student societies and extra-curricular activities the University instills leadership skills, teamwork, ethical and societal values in students.

Understanding the situation of the country, SZABIST University has always encouraged deserving candidates to pursue quality education through need-based financial scholarship irrespective of their race, ethnicity, and gender. Employees of SZABIST University also enjoy educational benefits that enrich their work experience.

Further, SZABIST University is a registered member of the following international and national associations: The Association to Advance Collegiate Schools of Business (AACSB), Singapore; The Chartered Institute of Logistics and Transport (CILT), UK; Association of Chartered Certified Accountants (ACCA); Management Association of Pakistan (MAP), Karachi; Marketing Association of Pakistan (MAP), Karachi; and the Organization of Pakistani Entrepreneurs of North America (OPEN). Furthermore, SZABIST University has signed MoUs and MoAs with various reputable and distinguished organizations and institutions such as the University of London, UK; Coventry University, UK; IRD Pakistan; Sindh Teacher Education Development Authority (STEDA); Arts Council of Pakistan Karachi; National Commission for Human Rights; Marketing Now; and Meezan Bank.

In alignment with its social responsibility objectives, SZABIST University has also collaborated with several social and healthcare organizations including NOWPDP; Sindh Integrated Emergency and Health Services; The Hunar Foundation (THF); Pathfinder; Health Services Academy; Indus Hospital and Health Network; and Afzaal Memorial Thalassemia Foundation (AMTF). SZABIST University Hyderabad Campus is situated in the prime location of Thandi Sarak, State Life Building, Ground, 2nd, 3rd, 4th & 8th floor.

INTRODUCTION

















PROGRAMS & CURRICULA

DEGREES OFFERED

All five campuses of SZABIST offer various degree programs in different disciplines so please refer to page 59 for details.

Bachelor of Business Administration (BBA)

SZABIST University offers a four-year (eight semesters) BBA degree program of 146 credit hours. This is SZABIST University's flagship Business Program. For the BBA program, students are required to complete 43 courses and 03 credit hours Business Project, a 02 credit hours Community Service Project and 03 credit hours Graded Internship and a Program Relevant Certification. Students will also take 6 Program Elective courses from Management and HR, Marketing, Finance, Business Analytics, Media and Communication or Supply Chain Management. The maximum time limit for degree completion is six years, offering flexibility to learners. The BBA program is accredited by ACCA, National Business Education Accreditation Council (NBEAC) and is also affiliated with the Chartered Financial Analyst (CFA) Institute and CIMA.

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

SZABIST University offers a four-year (eight semesters) Bachelor of Science in Accounting and Finance (BS A&F) degree program of 146 credit hours. Students are required to complete 42 courses, a 03 credit hours Capstone Project, a 02 credit hours Community Service Project, and 03 credit hours Graded Internship and a Program Relevant Certification to obtain the BS A&F degree. The maximum time limit to complete the degree program is six years, offering flexibility to learners. The students will also take 6 Elective courses and have the option to take:

· **Finance as Major and Accounting as Minor /**
· **Accounting as Major and Finance as Minor**

Graduates of BS A&F program will get exemptions in 9 papers from both Institute of Chartered Accountants of Pakistan (ICAP) and Association of Chartered Certified Accountants (ACCA), UK. The BS A&F program is accredited by National Business Education Accreditation Council (NBEAC) and is also affiliated with the Chartered Financial Analyst (CFA) Institute and CIMA.

Bachelor of Science in Computer Science (BSCS)

SZABIST offers a four-year (eight semesters) BS Computer Science degree program which is accredited by the National Computing Education & Accreditation Council, (NCEAC). The program covers a wide range of courses in core Computer Science, Information Technology, and Software Engineering. The program is essentially a full-time day program consisting of 48 courses (five courses per semester), totaling 136 credit hours. The complete course plan includes 7 technical electives. These 7 technical electives provide intensive learning in the diversified areas of Computer Science and allied disciplines. Internship opportunities are provided to complete degree requirements. The maximum time limit to complete the degree program is six years.

Bachelor of Science in Software Engineering (BSSE)

SZABIST University offers a four-year (eight semesters) BS Software Engineering degree program accredited by National Computing Education & Accreditation Council, (NCEAC). The BS Software Engineering program at SZABIST is a full-time four-year degree program comprising eight semesters (five courses per semester), consists of 48 courses with a total of 136 credits hours. The degree program is designed around a set of courses pertaining to the principles of software analysis, design, architecture, development, testing, and maintenance techniques that are necessary to produce highquality software systems. Some additional courses from the disciplines of Computer Science, Mathematics, Management Science, and Humanities are part of the degree program to develop a broader knowledge base of the students. The BS Software Engineering program is offered through a trained foreign qualified faculty. The maximum duration to complete the degree is six years.

Bachelor of Science in Artificial Intelligence (BSAI)

The Bachelor of Science in Artificial Intelligence BS(AI) program is offered by the Department of Robotics and Artificial Intelligence. This comprehensive four-year program encompasses a total of 48 courses, amounting to 136 credit hours. To fulfill the degree requirements, students are provided with internship opportunities, integrating practical experience with academic learning. The BS(AI) program is structured as a full-time, daytime curriculum, meticulously designed to cover the forefront of technological advancements in fields such as Machine Learning, Deep Learning, Explainable AI, Evolutionary Computing, Computer Vision, Software Engineering, and Natural Language Processing. The program comprises of 46 credit hours of Computing Core

PROGRAMS & CURRICULA

courses, 18 credit hours of Domain Core courses, 21 credit hours of Domain Electives, 12 credit hours of Mathematics and Supporting courses, 3 credit hours of Internship course, and 36 credit hours of General Education Requirement courses. The maximum duration of the program is six years.

Bachelor of Science in International Relations (BSIR)

SZABIST University offers a four-year (eight semesters) BS degree in International Relations. To obtain a BS degree in International Relations, students are required to complete a total of 134 credit hours within 6 years. The degree consists of a total of 48 courses, an internship, and a Research Project / Capstone Project.

Bachelor of Science in Psychology (BSPSY)

To obtain BS degree in Psychology, students are required to complete a total of 143 credit hours within 6 years. The degree consists of a total of 50 courses (143 credit hours) including internship (3 Credit Hours) and a Research Project/Capstone Project (6 Credit Hours).

Masters of Business Administration (MBA)

MBA Program at SZABIST is designed to provide students with a strong foundation in modern management tools, leadership skills, entrepreneurship, and managerial and communication competencies. MBA Program is accredited by National Business Education Accreditation Council (NBEAC), an independent professional body established by Higher Education Commission (HEC).

SZABIST offers MBA Program with specializations in Marketing, Finance, Management, Human Resource Management, Supply Chain Management, Banking and Business Analytics. The maximum duration to complete MBA Program is three years.

MBA Program is open to students with a four-year bachelor's degree (16 years of education) in various disciplines, such as BSCS, BE, BBA, and others. The standard two-year MBA Program requires students to complete 65 credit hours, consisting of 21 courses (59 credit hours) and a 6-credit-hour Research Project or Thesis spread across two semesters (3+3 credit hours).

Students with undergraduate degrees in Management Sciences, Business Administration, or equivalent fields are eligible for a 27 credit-hour exemption, allowing them to complete MBA Program in 1.5 years. Additionally, all students enrolled in MBA Program are required to complete a six-week internship during the summer. All Muslim MBA students admitted in Fall 2025 and onwards will be required to complete two compulsory one-credit-hour courses on the understanding of Holy Quran as part of their degree requirements.

Master of Science in Management Sciences (MSMS)

There are two streams available for the Master of Science in Management Sciences (MSMS): coursework-based and research-based. Specialization areas include Human Resource Management, Marketing, Finance, and Business Analytics. In both streams, students are required to complete 35 credit hours. The time limit to earn an MS degree ranges from 1.5 to 3 years.

- MS By Course Work Stream: Requires 4 compulsory courses (12 credit hours), 2 general education courses (2 credit hours), and 7 program electives (21 credit hours), with no thesis.

- MS By Research Work Stream: Requires 4 compulsory courses (12 credit hours), 2 general education courses (2 credit hours), 5 program electives (15 credit hours), and 1 thesis (6 credit hours).

Muslim students must complete two 1-credit hour courses (Understanding of Holy Quran I & II), while other students take Ethics and Morality, integrated without extending program duration. As per HEC guidelines, all MS students are required to clear the GAT-General test or HAT relevant with a minimum 50% score.

Master of Science in Computer Science (MSCS)

SZABIST offers MS(CS) degree in three domains: Core Computer Science area and in two specialization tracks, i.e., Software Engineering (SE) and Networks & Security (N&S). Students are required to complete 3 focused courses in any specific domain. The program is of 2-year duration and is offered in the evening. It requires 35 credit hours to complete. Student has the option to complete MS through course work only or with

PROGRAMS & CURRICULA

research. If student opts for course work only, he/she is required to complete 11 courses of 3 credit hours each and 2 mandatory general education courses (01 credit each). Else, the student is required to complete 9 courses (27 credit hours), 2 mandatory general education courses (01 credit each) and 2 Independent Research Study (6 credit hours) OR 1 Thesis (6 credit hours). Eligibility for this program is a 4-year BS (CS) or 2-year MCS degree from a recognized institution. The candidates with a 4-year professional degree (BE, MSc, etc.) may also apply but will require to complete deficiency conversion courses (up to 12 credit hours courses to be determined in consultation with Program Manager). The programs such as BSCS, BSIT, BSSE, BSCE & BSCSE shall not require any extra courses. As per HEC guidelines, all MS students are required to clear GRE or GAT General test or HAT relevant with minimum 50% score. The maximum time limit to complete the MS degree is four years.

Doctor of Philosophy

SZABIST offers PhD degree in Management Sciences, in strict adherence to the HEC guidelines.

The admission requirement for PhD is minimum 17.5 years of education, GAT Subject 60% or above score / GRE Subject Test with minimum score of 640 and fulfilling the admission requirements of SZABIST. After admission, the student is required to complete the course work of 18 credit hours that includes five courses and one Independent Research Study. Maximum course load during semester is 9 credit hours. After course work, the student is required to pass Comprehensive Examination within two attempts. The dissertation carrying a weight of 30 credit hours is required to be completed and prior to submitting the dissertation, the student is required to publish a research paper in HEC recognized journal. The dissertation is sent for evaluation to two external evaluators in technologically advanced countries. The time limit to earn a PhD degree is from 3 to 8 years.

The PhD in Management is 56-credit hours program comprising of 7 electives (3 credit hours each) 2 general courses (01 credit hours each), 1 Independent Research Study (3 credit hours), and a Dissertation (30 credit hours).

Grading Plan

The following Letter Grade Plan is followed at SZABIST:

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



ADMISSION REQUIREMENTS

NOTE:

- All applicants will be required to appear in an entrance test and interview/group discussion held by SZABIST.
- Conversion of A-Level grades or equivalent must be 50% and above for all undergraduate programs.
- Intermediate students are required to get their SSC and HSSC certificates attested by Inter Boards Coordination Commission (IBCC).
- Equivalency from Inter Boards Coordination Commission (IBCC) is mandatory for O & A Levels/High School Diploma/IB Diploma or equivalent.
- High School Diploma or International Baccalaureate (IB) students appearing for examination from Pakistan shall have to pass Islamiat, Pakistan Studies & Urdu either with O Levels or SSC.
- Verification of last degree from Higher Education Commission of Pakistan (HEC) is mandatory for all Masters, MS, & PhD students.
- Equivalency of international degrees from Higher Education Commission of Pakistan (HEC) is mandatory for all Masters, MS, & PhD students.
- Students waiting for results can also apply.
- Admission of Foreign students are subject to clearance from the relevant Agencies/NoC from HEC.

BACHELOR DEGREE PROGRAMS

BBA/BS Programs

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

For BS Computer Science, Software Engineering and Artificial Intelligence programs, candidates who have not studied Mathematics at Intermediate/A-Levels have to pass deficiency courses of Mathematics (06 credits) in first two semesters.

MASTER DEGREE PROGRAMS

Master of Business Administration (MBA)

For admission in the MBA program, the candidate must possess a 4 years bachelor degree with minimum 2.0 CGPA or 16 years of education with minimum 50% marks from a university recognized by the HEC.

Master of Science in Management Sciences (MSMS)

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

Master of Science in Computer Science (MSCS)

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

DOCTORAL DEGREE PROGRAMS

Admission Requirements

A candidate with MS/MBA/MPhil or any other equivalent degree with minimum 17.5 years of formal education in the relevant field from HEC recognized local or foreign university may apply for direct admission in a PhD program. To apply for admission in PhD program, the candidate must have obtained minimum 60% or 3.0 CGPA, and have passed GRE Subject Test with minimum score of 640/ Equivalent/ GAT (subject) with minimum 60% score. Clearing GAT (Subjective)/ GRE/ Equivalent is mandatory for admission in PhD. Student would have to appear before admission committee for interview.

A student may be asked to complete other pre-requisite/deficiency courses/thesis before taking the required courses. The decision on number of pre-requisite courses is taken by the Admissions Committee of relevant department. For the applicants with non-relevant degrees, the candidate will be required to Pass GRE Subject/equivalent test with minimum 50% marks in the discipline of admission. He/she would also be required to take deficiency courses (Level 7) of minimum 6-9 cr. hrs. as determined by the department / admission committee. Final decision of admission will be taken by the concerned department.

Credit Hours Requirements

For completion of the PhD degree, the student must complete a total of 50 credit hours (20 credit hours course work and 30 credit hours dissertation) for Management Sciences.

PhD Degree Milestones

Following is the step by step procedure for PhD:

- Applying for admission along with Statement of Purpose

ADMISSION REQUIREMENTS

- Clearing admission requirements of HEC and SZABIST
- Completing course work with required CGPA
- Passing Comprehensive Examination
- Clearing proposal defense
- Completing dissertation
- Completing publication requirements
- Clearing Pre-Defense Seminar
- Receiving Satisfactory reports from foreign evaluators
- Clearing Open Defense

Two interdisciplinary courses can be allowed with the approval of both relevant Program Managers subject to the relevancy of courses.

Comprehensive Examination

After completion of the required course work that includes 5 courses and one IRS, all PhD students must pass the PhD Comprehensive Examination in two attempts as per HEC requirement. Failure to pass comprehensive examination in two attempts will result in cancellation of admission. Maximum Course Load allowed in each semester is nine credit hours.

After successfully passing it, the candidate will get PhD candidacy and he/she will be assigned a research supervisor.

Research Proposal

The candidate shall prepare a research proposal under the guidance of research supervisor. At the start of dissertation, the student will work on Proposal for Dissertation comprising of six credit hours. The PhD research proposal must be presented before the Panel of Examiners duly approved by DC/BASR. The Research Proposal Defense must be cleared within 1st six semesters from the date of admission. Failure to pass Research Proposal Defense within 1st six semesters from the date of admission will result in cancellation of admission.

Dissertation

A student may register for 3, 6, 9 or 12 credit hours in regular semesters (Spring or Fall). However, for registration in 12 Credit Hours, approval from Program Manager is required. Registration in 12 credit hours can be done only once throughout research phase. No registration is allowed in Summer in general, as it is not a regular semester. The time frame for completing PhD Degree is minimum three years and maximum eight years.

Publication Requirements

All PhD candidates are required to publish research paper/(s) in the area of their research as per HEC Graduate Policy-2023. The paper/(s) must be published before sending the dissertation to two foreign evaluators.

Pre-Defense Seminar(s)

Before sending the dissertation to two foreign evaluators belonging to technologically advanced countries in the relevant field, the candidate has to demonstrate his or her research work in front of a panel of experts. The candidate is required to incorporate the necessary changes as proposed by the panel of evaluators in the Pre-Defense Seminar.

External Evaluation of PhD Dissertation

The dissertation is evaluated by external evaluators as per the criteria prescribed by HEC Graduate Policy-2023. If the dissertation is sent again to the same evaluator after major revision, or if it is sent to a 3rd evaluator, the evaluation fee will be borne by the student along with all the additional charges.

Open Defense

After receiving minimum two satisfactory evaluation reports from the foreign evaluators, the candidate is required to appear for PhD open defense. A formal presentation of dissertation is required to be produced before Examination Committee in an open defense along with viva voce exam.

Admission Test Alternates

For Bachelors Programs

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

The scoring of SAT 1 will be considered as follows;

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

Undergraduate Studies Admission Test (USAT)

Applicants to Bachelor's Programs may submit a minimum USAT score of 50% in the category relevant to their intended undergraduate program. USAT scores will be converted to a 50-mark equivalent for SZABIST's admission test. For example, a 70% USAT score will be equivalent to 35
marks out of 50. USAT scores remain valid for one year from the date of result announcement.

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

ADMISSION REQUIREMENTS

For Masters Programs
50% score of GMAT for Master Programs.

For MS Programs
GAT (General)/HAT relevant with minimum 50% score.
GRE (General) with a minimum cumultive score of 300.

For PhD Programs
GAT (Subject) with minimum 60% score or SZABIST's own GAT Subject test with 70% score for Bio Sciences program. GRE (Subject) with minimum score of 640 would be required.

Transfer Policies

Transfer into SZABIST may be considered for students who have studied or are currently studying at HEC-recognized universities/ institutions, subject to fulfillment of SZABIST admission requirements and the applicable Course Transfer Policy. The course transfer request must be submitted at the time of admission.

Courses considered for transfer must have at least 70% equivalence with the corresponding SZABIST course and must meet all the conditions of course transfer policy as mentioned in the Student Handbook including minimum grade/marks requirement:

- Undergraduate: Grade B or above / 80% marks
- Master's (except MS): Grade B or above/80% marks
- MS: Grade B- or above / 70% marks
- PhD: Grade B or above / 80% marks

Course transfer shall be allowed only for students whose original date of admission to the previous institution was not more than three years prior to the date of admission to SZABIST University for Undergraduate Programs, two years for Master's and MS Programs, and one year for PhD Programs.

Bachelor Course Transfer

A maximum of 50% of the credits required for the degree may be considered for transfer into Undergraduate programs, subject to the applicable Course Transfer Policy.

MBA Course Transfer

- For the MBA 38 credit hours program, a maximum of 6 credits may be considered for transfer.
- For the MBA 65 credit hours program, a maximum of 27 credits may be considered for transfer.
- Only relevant EMBA (SZABIST) courses may be transferred to the regular MBA, subject to MBA eligibility criteria.
- Research Project/Thesis is not transferable.

MS Course Transfer

In case of re-admission after self-withdrawal, or new admission for external students, a maximum of 50% of coursework completed within the last two years may be transferred, subject to the applicable CGPA/grade and other requirements.

The minimum grade for transferable MS courses is B- or above / 70% marks. GAT General must be cleared at the time of re-admission after self-withdrawal.

Thesis, IRS, or any other research work is not transferable.

PhD Course Transfer

In case of re-admission after self-withdrawal, or new admission for external students, a maximum of 50% of coursework completed within the last one year may be transferred, subject to the applicable CGPA/grade and other requirements.
The minimum grade for transferable PhD courses is B or above / 80% marks. GAT Subject must be cleared at the time of re-admission after self-withdrawal.
Thesis, IRS, or any other research work is not transferable.

SZABIST Inter-Campus Transfer

Students seeking transfer between SZABIST campuses must fulfill the admission requirements of the relevant program at the destination campus and comply with the applicable transfer policy.

Equivalent passed courses/grades may be transferred, subject to approval by the competent authority. A prescribed transfer fee shall be payable by students transferring from another SZABIST campus.

Certificate Course Transfer

Applicants with pending results are not eligible to apply for Certificate courses. However, transfer of Certificate courses will be as follows:

- **Undergraduate:** Maximum 5 courses may be transferred.
- **Master's (except MS or equivalent):** 2–3 courses may be transferred.
- **MS:** Maximum 2 Certificate Courses completed within the last two year may be transferred.
- **PhD:** Maximum 2 Certificate Courses completed within the last one year may be transferred.

ADMISSION REQUIREMENTS

Thesis, IRS, and any other research work cannot be taken as certificate courses.

All course transfers are subject to the General Rules of Course Transfer prescribed in the Student Handbook and approval by the competent authority.

Financial Assistance

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

- SZABIST Merit-Based Scholarship
- SZABIST Need-Based Scholarship
- General Subsidy
- Sindh Police Shaheed Scholarship
- SZABIST Employee Children Fee Concession
- SZABIST Employee Continuing Education Scholarship
- Sindh Education Endowment Fund Scholarship
- Balochistan Education Endowment Fund Scholarship
- USAID Funded Merit and Need-Based Scholarship
- Various community-based scholarships

SZABIST also offers loan facilities as under:

- Ihsan Trust Interest-Free Loan Facility (Qarz-e-Hasna)
- The Citizens Foundation Financial Assistance
- EDUFI Study Now, Pay Later (Educational Loan)









LIFE AT SZABIST UNIVERSITY

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, Gharo, 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 SZABIST University 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

SZABIST University also offers several productivity- based certificate courses as part of its continuing education program. The courses are developed jointly by the faculty, specialists and certified trainers in specific subject areas. The aim of these courses have been to initiate discussion and modeling of practical problems, business opportunities and to improve understanding of current issues in Information Technology, Business and Management. These courses include topics such as e-Commerce, New Programming Languages & Tools, Business & Entrepreneurship Management, Selling Skills, Conflict Resolution, Effective Leadership, and Productivity, Quality-Related Issues, Brand Management and Digital Marketing.

In addition to business productivity courses, the institute arranges study groups, mentor workshops and courses for students for removing deficiencies, if any. These courses include Business Communication, Technical Writing, Public Speaking, Personality Grooming, Interviewing Techniques and learning of Statistical Package for the Social Sciences (SPSS).

Classrooms

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.

Labs

SZABIST's computer laboratories undergo regular modernization, featuring state-of-the-art lab spaces, sophisticated furniture, and cutting-edge computing equipment integrated with gigabit network connectivity to comprehensively fulfill student requirements. The institution's extensive "campus licensing" agreements grant access to the latest software solutions, encompassing advanced development tools and contemporary operating systems, establishing an unparalleled technological environment surpassing many esteemed universities in Pakistan.

SZABIST provides robust computing facilities supported by uninterrupted 24x7 broadband connectivity with a dedicated bandwidth of 600 Mbps for both internet and intranet access. The campus has maintained comprehensive Wi-Fi coverage since 2002, demonstrating early adoption of wireless technology. Recently, two additional computer laboratories have been incorporated into the existing infrastructure. Students and guests are encouraged to utilize their personal devices (BYOD—Bring Your Own Device) to seamlessly access all available network resources wirelessly. Furthermore, SZABIST has procured prestigious affiliations such as the Microsoft IT Academy and Oracle Academic Alliance programs.

A specialized laboratory dedicated to the Management Sciences program has been established explicitly for research, development, and advanced training of MS and PhD students. This facility is equipped with exceptionally powerful 14th-generation high-performance computers designed to facilitate intensive computational tasks.

Additionally, SZABIST has inaugurated sophisticated Three Smart Labs furnished with high-end 14th-generation laptops interconnected via secure Wi-Fi to the institutional network. A cutting-edge interactive smart screen further enhances

collaborative learning experiences between faculty and students, enabling more dynamic and effective academic interactions.

Moreover, SZABIST has commissioned a state-of-the-art Robotics and Artificial Intelligence laboratory featuring advanced GPU- powered laptops optimized for computationally demanding tasks. These laptops are connected through high-speed Wi-Fi and broadband networks, specifically designed to support students' complex assignments and innovative project work.

Library

The SZABIST University Library boasts an extensive collection of books, journals, magazines, and a wide range of digital libraries and online databases. It is equipped with 25 workstations that provide students with access to an unlimited number of journals and magazines. Additionally, this service is extended to registered students through the SZABIST University network, available on demand. The library offers comfortable physical spaces and furniture, creating a peaceful and conducive environment for study.
Furthermore, SZABIST University is home to specialized research centers, including the Centre for Renewable Energy Research (CRER) and the Sustainable Development Research Centre (SDRC), each with its own dedicated library for reference aznd general reading.

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. The RC may also propose a change in research policy for the university to BASR.

Doctoral Committee (DC)

The Doctoral Committee has a key function to monitor the progress of all MS and PhD students. The committee conducts its meetings regularly and discusses and recommends the individual cases of all such students pertaining to approval of their research work, selection of supervisors, co-supervisors, examiners, evaluators (national and foreign), provides approval for conduction of pre-defense seminars & open defense, and all other related activities. The DC also ensures the research work that carries its value to the society and is free from any un-ethical matters. In this regard, Institutional Ethical Review Board (IERB) work under the supervision of DC.

free from any un-ethical matters. In this regard, Institutional Ethical Review Board (IERB) work under the supervision of DC.

Board of Advanced Studies and Research (BASR)

The Board of Advanced Studies and Research (BASR) is a statutorybody responsible for developing and implementing policies to promote advanced studies, research, and publications. It ensures quality education and a conducive research environment at the MS and Ph.D. levels across all departments and campuses of the University. BASR provides guidance to the Doctoral and Research Committees on academic and research-related policies, reviews their decisions for approval, disapproval, amendment, or referral, and ensures compliance with HEC and other regulatory requirements.

The Board considers and resolves academic matters related to MS and Ph.D. programs, develops mechanism for appointment of supervisors, establishes standards for evaluation, and provides regulations for the award of research degrees in accordance with the guidelines of HEC. It approves research supervisors, endorses thesis and dissertation titles and synopses, and endorses panels of examiners for evaluating theses, dissertations, and other re-searchassessments. All decisions of BASR are subsequently ratified by the Academic Council.

The meeting of BASR convenes twice a year. BASR is chaired by the Vice President Academics, whereas the Registrar serves as secretary and member. Its membership includes Deans, Heads of Campuses (HoCs), Heads of Departments (HoDs), senior academicians and distinguished external experts from academia and industry.

Academic Council

The Academic Council is the highest academic statutory body of SZABIST University, mandated to ensure the provision of a conducive, well-governed, and academically rigorous environment that upholds high standards in teaching, learning, research, innovation, and institutional development, in alignment with the University's vision and mission.

The council formulates and ensures the implementation of policies, procedures, rules, and regulations governing admissions, teaching mechanism, curriculum review and revision, examinations mechanism and standards, academic records, and research and development, in compliance with the requirements of Higher Education Commission Pakistan and other relevant regulatory and accreditation bodies. It also deals with establishing new academic departments and faculties, introducing new academic programs, modifying

existing program structures, adding new courses, and revising course outlines as per the need and requirement of dynamic environment.

Agenda items are generally routed through the Board of Faculty (BoF), the Board of Advanced Studies and Research (BASR), and the Academic Core Committee for consideration by the Academic Council.

The Academic Council is chaired by the President and co-chaired by the Vice President Academics. The Registrar serves as the secretary and a member of the council. The membership of the council further comprises a nominee of the Board of Governors, Vice Presidents, Deans, Heads of Campuses, Heads of Departments, nominees of regulatory bodies, senior academicians, and distinguished external experts from academia and industry.

Academic Core Committee (ACC)

The Academic Core Committee is chaired by Vice President Academics and its secretary is the Registrar. All the Deans and Heads of Campuses are the members of the committee. The Committee aims to achieve the following objectives:

1. To deliberate on academic matters and policies across all campuses that require thorough discussion and consensus prior to their submission to the Academic Council.
2. To propose, advise, and recommend measures aimed at enhancing the effectiveness and quality of academic systems and processes.
3. To review and decide on cases of extension and the cancellation of admissions for time-barred students across all campuses and programs, excluding MS and PhD programs.

Board of Faculty (BoF)

The Board of Faculty (BoF) is a statutory academic body at the faculty level, responsible for overseeing and coordinating academic matters across campuses. Its primary function is to review the academic matters submitted by the Boards of Studies (BoS) and recommend them to the Academic Council for final decision. It reviews and deliberates on the recommendations of BoS pertaining to curriculum review and development, course contents, addition or modification of programs, faculty development, and research.

The BoF facilitates alignment of faculty programs with national and international standards, promotes research and innovation, supports faculty development, fosters inter-departmental collaboration, establishes industry linkages, and ensures compliance with the decision of Academic Council and directives of regulatory and accreditation bodies.

The BoF is chaired by the respective Dean of Faculty and the members include HoDs, Program Managers, Senior Faculty and external experts across campuses. The decisions of BoF are sent to the Academic Council for final approval.

Board of Studies (BoS)

The Board of Studies is responsible for maintaining and enhancing the academic quality of programs within a department of a faculty. It ensures that curricula remain relevant, rigorous, and aligned with national and international standards.
Its primary functions include curriculum review and development, revision of course contents, proposing new programs, modifying existing program structure, faculty development, promoting research in the faculty, and establishing industry-academia linkages at the departmental level.

The BoS is a departmental level body chaired by the respective Head of Department and the members include Program Managers, Senior Faculty and External Experts. The decision taken in BoS requires approval of Board of Faculty

Office of Research Innovation & Commercialization (ORIC)

ORIC is an academic support department at Shaheed Zulfiqar Ali Bhutto Institute of Science & Technology (SZABIST) that provides comprehensive services for research, innovation, and commercialization. It serves as a bridge between multiple faculties of SZABIST and promotes the production of quality research.

ORIC facilitates the development of innovative products for filing patents, trademarks, and designs. It is the epicenter of all research and development activities across all campuses of SZABIST. The office provides assistance to faculty members and research students in producing research articles and projects at both national and international levels, and arranges periodic workshops, training sessions, seminars, and conferences.

ORIC bridges the gap between acquired and required knowledge within the organization. Its operations revolve around coaching, counseling, recognition, and feedback. The leadership of ORIC emphasizes integrity, impartiality, professionalism, partner focus, efficiency, and mutual respect.

Team ORIC continuously provides strategic direction for research and development initiatives across SZABIST and promotes collaborative research activities with partner

institutions. It strengthens relationships with industry, government, and non-governmental organizations to promote entrepreneurship, technology transfer, and commercialization activities.

ORIC focuses on the sustainability and reliability of research outputs and has a mandate to generate annual revenue through licensing, royalties, policy advocacy, and related activities. Moreover, it invests in the capacity development of faculty, staff, and researchers by organizing exhibitions, showcasing events, industry linkage fairs, seminars, training sessions, and workshops.

WHY ORIC

In the modern knowledge economy, the need for strategic partnerships has grown significantly extending beyond traditional collaboration. Worldclass research universities are at the forefront of such partnerships, which are long-term, resourceintensive, and aimed at enhancing competitiveness. The mission of ORIC, as outlined by HEC, is: "Transforming Pakistani universities to drive highimpact innovation, applied research, and entrepreneurship." Its vision is to enable and lead Pakistan's transformation into a knowledge-based economy driven by innovation and entrepreneurship.

ORIC connects research at SZABIST with emerging and established firms across Pakistan and globally. It works closely with researchers, incubators, and Science & Technology Parks, while also serving as a conduit to local, regional, and federal partners.

ORIC supports commercialization of research and assists startups in incubation, growth, job creation, and market development. Its key activities include managing applied research, facilitating intellectual property commercialization, establishing partnerships, securing funding, organizing training, and supporting student startups.

ORIC IN 2024–25

ORIC SZABIST secured X category (64 marks) in HEC evaluation 2023–24, reflecting progress toward becoming a research-intensive university. It continues strengthening internal and external partnerships aligned with Industry 4.0.

ORIC has developed a Five-Year Plan focusing on sustainable competitive advantage through training, development, and mentorship. It follows an Input–Throughput–Output strategy to link academia with industry.

ORIC has achieved milestones including effective grant management, networking, policy advocacy, and innovation promotion. It has facilitated intellectual property submissions and contributed to major events like ZAB-E-FEST.

Linkages & Commercialization

The Linkages and Commercialization Section of ORIC continued to strengthen SZABIST University's engagement with industry and innovation ecosystems through strategic collaborations, product development initiatives, and participation in national innovation showcases. By facilitating industry partnerships, investor linkages, and startup acceleration, the section played a key role in bridging the gap between academia and industry and transforming research outcomes into practical, market-driven solutions.

These initiatives directly contributed to the advancement of several United Nations Sustainable Development Goals (SDGs), including SDG 9 – Industry, Innovation and Infrastructure, SDG 12 – Responsible Consumption and Production, and SDG 17 – Partnerships for the Goals, reinforcing SZABIST's commitment to sustainable and impactful innovation. ORIC actively supported SZABIST projects at national and regional innovation platforms to promote commercialization opportunities.

Significant progress was made toward protecting intellectual property generated by SZABIST researchers and students. Innovation Highlights 2024–25 include top performance in research showcases, startup recognitions, and flagship innovations such as HaloPLAST, HaminoX, AceBot, and
SurveyPay.

A total of 14 new industrial partnerships were established to support collaborative research, internships, and startup acceleration.

ORIC conducted various seminars on IP protection, innovation, and legal frameworks, enhancing startup readiness and commercialization awareness.

IGNITE NGIRI

SZABIST University has actively participated in

the National Grassroots ICT Research Initiative (NGIRI) a program funded by IGNITE, Ministry of IT & Telecom, Government of Pakistan. The objective of this participation is to strengthening Pakistan's Innovation Value Chain by encouraging hands-on development and practical engineering experience through funded FYPs.

SZABIST Entrepreneurial Nest (ZEN)
The SZABIST Entrepreneurial Nest (ZEN), operating under the Office of Research, Innovation and Commercialization (ORIC), serves as the university's flagship business incubation center, dedicated to promoting innovation and entrepreneurship among students, alumni, and faculty. ZEN provides a comprehensive startup ecosystem with acceleration support, enabling aspiring entrepreneurs to transform their innovative ideas into sustainable business ventures.

WHY ZEN
Financial assistance up to PKR 200,000, incubation space, training, mentorship, legal support, prototype development, investor outreach, and networking opportunities. ZEN is a launchpad for innovation and entrepreneurship.

At present, the Orientation and Onboarding of Cohort 3 was conducted on March 05, 2026. A total of 11 startups were selected for Cohort 3 under ZEN's incubation program Through its continued mentorship, training, and access to industry linkages, ZEN remains committed to nurturing entrepreneurial talent and strengthening SZABIST's role in Pakistan's innovation-driven economy.

Business Plan Competition (BPC)
The Business Plan Competition (BPC) is an initiative of the SZABIST Entrepreneurial Nest (ZEN) under the Office of Research, Innovation and Commercialization (ORIC), aimed at fostering an entrepreneurial mindset among students. The competition provides a structured platform for aspiring entrepreneurs to develop, refine, and pitch innovative business ideas that address real-world challenges. Through mentorship, training, and evaluation by industry experts, the BPC enables participants to transform conceptual ideas into viable business models. The initiative not only promotes innovation and creativity within the university ecosystem but also strengthens the linkage between academia and industry.

This year, the competition is being piloted within the Department of Management Sciences, on April 24, 2025, with plans to scale it up across other departments in subsequent years as part of ORIC's broader entrepreneurship promotion strategy.

For more information:
manager.iltt@szabist.edu.pk
oric.szabist.edu.pk

Data Centre

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

Computing Resources
Computing resources of the data center is comprising of 30 TFLOPS of processing speed with high performance and reliable 100 Tera Bytes of storage capacity. The data center is equipped with UPS backup and 12-ton redundant precision cooling system for reliability of data center and protected by FM-200 based Automatic Fire Detection and Suppression System and manual fire extinguishers. CCTV cameras and Access Control systems are intact for effective surveillance and restricting unauthorized access to the facility.

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

high-speed computing at user end, where access switches of high switching capacity are installed to handle data and multimedia traffic, efficiently. Proper NMS server installed to monitor and manage the whole network infrastructure, which can send alert on any fault, performance bottleneck and/or security issues. Wireless Mesh Network A secured Wi-Fi mesh network has been implemented throughout the campus. Wireless indoor and outdoor Access Points (APs) have been installed to give internet/intranet access to students, faculty and staff employs latest wireless protocol 802.11n with each AP providing a bandwidth up to 300 Mbps to the users.

Newsletters

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

ZABFM DIGITAL

(www.zabfm.org)
ZABFM digital is a streaming simulcast radio station exclusively to impart and disseminate education for the students around the world via www.zabfm.org and ZABFM DIGITAL (Play store). An initiative taken by Shaheed Zulifkar Ali Bhutto Institute of Science & Technology and it was a substantive step into the field of education. It is an honor for the nation as we are producing the talented and most efficient candidates in the form of great speakers to the nation along with the responsibility of spreading knowledge through the airwaves. The 24/7 programming schedule covers various subjects of life like, Career Counseling, Planning & Development, Education, Infotainment, Awareness, Research, Documentaries, Talk Shows, Sports, Travel, Science & Technology, Media, Culture & Society, Technology & Inventions, Info-tech and social order, etc.

Student Support Services

For more than a decade (2009-to date), the main campus of SZABIST has been fortunate to have a unique and diverse student body with a healthy record of activities and a proud history of achievements. Since 2014, with the establishment of the Department of Student Support Services a more organized and focused approach has been adopted with the aid of student advisory policies and guidelines for activities in the form of standard operating procedures and financial prudence guidelines with emphasis on paperwork and documentation/reports for record keeping all of which added much needed structure to student activities at the institute. The Student Advisory Office and the Executive Development Centre (EDC) work under the SSS.

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

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

The Student Support Services has an Office of Student Advisory and the Student Career Services working under it.

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

The Student Affairs Advisor:

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

SZABIST Student Council (SSC)

Established in 2009, the SSC has been a union of hardworking,fefef ambitious and talented individuals across all programs of SZABIST elected under the Election Commission of SZABIST. The selection of SSC workforce is by means of rigorous process all on

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an annual basis to form the student government at the institute, under the supervision of the Student Affairs Advisor.

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

What does SZABIST Student Council (SSC) do?
The SSC has been engaged in initiating wide range of meaningful activities ranging from intellectual programs to competitive sporting events. Among the most notable is the annual dinner & alumni reunoin.

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

SSC, being a proactive student body, engages in community services to inculcate a responsible citizenship behaviour among students. In this regard, the SSC arranges Mental Health week in which series of mental health awareness seminars are being arranged.

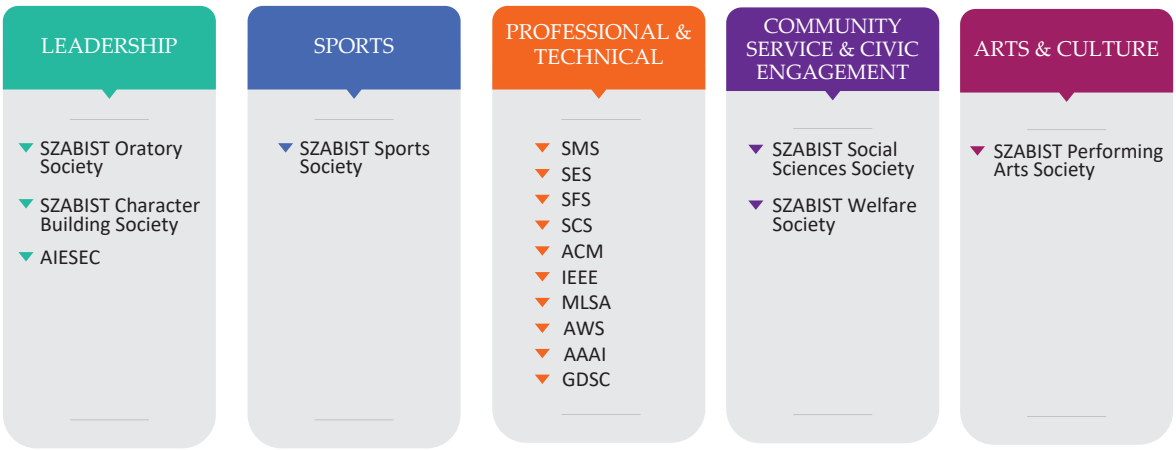
Structure of SSC
The SSC is an elected student body that is comprised of the Executive Branch (EB), Council of Common Interests (or Program Representatives), General Body and Societies Committee.

of the Executive Branch (EB), Council of Common Interests (or Program Representatives), General Body and Societies Committee.

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

The Five Pillars of SSC
The SSC and all its student associations and clubs fall under the purview of and are registered with, the Office of Student Advisory once they are formed. The SSC has 5 thematic pillars, under which different students' societies and projects operate. Each society offers engaging events and programs for the students at SZABIST. The annual events include ZAB Olympics and ZAB Premier League from the Sports Society, ZAB Theater and MAD Fest from the Performing Arts Society and ZAB DC (Declamation Contest) from the Oratory Society. The projects like 'Umeed' teaches literacy and basic education to lower staff at SZABIST, 'Nijaat' focuses on women empowerment and mental health and EPC (Environmental Protection and Conservation) creates awareness about environmental sustainability and engage students in environmentally friendly practices.

The 5 pillars and respective societies are mentioned below:



Referral to the Counselor
A student of SZABIST may be referred to the Counselor by Faculty/Staff through the concerned Program Manager, PM/HoD/Dean, Student Disciplinary Committee (SDC) or Anti- Harassment Committee (AHC) with information to Head of Student Support Services (HoSSS) and Student Affairs Advisor (SAA).

Any student of SZABIST may directly approach the Counselor by email at counselor@szabist.edu.pk

SZABIST Student Career Services

The Student Career Services (SCS) Department at SZABIST plays a pivotal role in supporting students as they transition from academia to the professional world. The department is dedicated to facilitating graduating students and equipping them with the tools, exposure, and opportunities required to build successful careers as future leaders.

Student Career Services (SCS) Department Role & Responsibilities
SCS Department at the Hyderabad campus works closely with students throughout their academic journey by offering:

- Career counseling & professional development support
- Customized training sessions and workshops
- Mock interviews and career preparation activities
- Industry engagement through guest speaker sessions and Recruitment Drives
- Access to job and internship opportunities

Throughout their academic tenure, students are encouraged to actively participate in these initiatives by industry experts who share their experiences to help them to better understand
workplace expectations and ease their transition into the corporate sector.

Graduate Development & Industry Linkages
SCS Department maintains strong collaborations with leading organizations to create meaningful career opportunities. Key initiatives include:
- **Graduate Directory:**
Compilation and publication of graduating student profiles to connect them with reputable employers.
- **Recruitment Drives & MTO Programs:**
On-campus and virtual hiring initiatives in collaboration with industry partners.
- **Career Fair:**
An annual flagship event where top employers engage directly with students, share hiring plans, and explore talent.

To align with the requirements of the Higher Education Commission of Pakistan, SZABIST University has implemented a **mandatory internship program**, ensuring students gain practical workplace exposure before graduation.

Job & Internship Placements
SCS Department actively facilitates:
- Internship placements throughout the academic year
- Job opportunities for graduating students
- Employer engagement through structured recruitment activities

These efforts ensure students gain hands-on experience and ensure their employability in competitive markets.

An annual "Career Fair" is held at the ending of every year, where leading companies are invited to discuss their recruitment policies, current resource requirements, and future vacancies. Students receive an opportunity to interact with company representatives directly. To bridge the gap between academic and industry, SZABIST University has instituted a mandatory internship program to fulfil the requirements of the Higher Education Commission of Pakistan. Internships enable students to experience an office environment and expose them to potential employers for possible recruitment.

Eligibility for Internship
- Master's Students: Minimum of 2 semesters completed
- Bachelor's Students: Minimum of 6 semesters completed
- Minimum Duration: 6weeks
- Preference: Final-year/graduating students requiring internships for degree completion as a prerequisite

Eligibility for Apprenticeship (BS Entrepreneurship Program)
Students enrolled in the BS Entrepreneurship program are required to complete a graded apprenticeship/field experience instead of an internship.
- Mandatory in 3rd or 4th year
- Must be completed with a startup or small and medium enterprise (SME)

- Requires registration of 3 credit hours on ZABDESK.

This initiative enables students to gain real-world entrepreneurial exposure and hands-on business experience.

Our Commitment
SCS is committed to bridging the gap between academia and industry by fostering meaningful partnerships and creating pathways for student success. Through continuous engagement, structured programs, and industry collaboration, we aim to ensure a seamless and impactful transition for our graduates into the professional world.

University Advancement & Alumni (DUA&A)

The Department of University Advancement & Alumni (DUA&A) at SZABIST University, Hyderabad Campus is committed to strengthen the University's financial sustainability, reputation, and stakeholder engagement through strategic external relations. By fostering meaningful connections with alumni, corporate partners, donors, and other external bodies, the department supports institutional growth and long-term development.

SZABIST University takes pride in being an active member of prestigious national and international associations, reflecting its commitment to academic excellence and global engagement. Through strategic partnerships and fundraising, DUA further strengthens SZABIST's visibility and impact in the higher education landscape.

Alumni Relations at SZABIST University, Hyderabad Campus, serves as a vital bridge between the University and its graduates, fostering lifelong connections through reunions, networking events, and professional development opportunities. The SZABIST Alumni Global Association (SAGA) empowers alumni with platforms for engagement, knowledge-sharing, and career growth.

International Collaborations
1. University of London, UK
2. Coventry University, UK
3. OIC-COMSTECH
4. Istanbul Medipol University (Istanbul, Türkiye)
5. The Association to Advance Collegiate Schools of Business (AACSB)
6. CISCO Networking Academy, USA
7. Association of Chartered Certified Accountants ACCA, UK
8. Chartered Institute of Management Accountants (CIMA)
9. The Institute of Chartered Accountants of Pakistan (ICAP)
10. Organization of Pakistani Entrepreneurs of North America (OPEN)
11. Green Team Consulting Limited (ASK FIDES) Hong Kong National Collaborations

National Collaborations
1. Pakistan Institute for Parliamentary Services (PIPS)
2. Pakistan Institute of Development Economics (PIDE) Islamabad, Pakistan
3. Pakistan Stock Exchange Limited (PSX)
4. Teach The World Foundation (TTWF)
5. Sindh Institute of Child Health and Neonatology (SICHN)
6. MoU signed with COMSTECH, Islamabad
7. Association for the Advancement of Artificial Intelligence (AAAI) Chapter Pakistan
8. MoU signed with University of Mirpurkhas, Mirpurkhas
9. MoU signed with Association of Chartered Certified Accountants (ACCA), Karachi
10. Roche Diagnostics Pakistan Limited
11. National Commission for Human Rights (NCHR) - SINDH
12. Karwan-e-Hayat (Institute for Mental Health)
13. National Clearing Company of Pakistan Limited (NCCPL)
14. National Incubation Center (NIC) Hyderabad
15. Sindh Teacher Education Development Authority (STEDA)
16. Health Services Academy (HSA), Govt. of Pakistan
17. Pathfinder International
18. IRD Pakistan (Private) Limited – Service Contract
19. Provincial Emergency Operation Centre Sindh (PEOC)
20. Sindh Integrated Emergency & Health Services (SIEHS)
21. GETZ Pharma & BIDE
22. Tabba Kidney Institute (TKI)
23. Greenstar Social Marketing Pakistan (GSM)
27. MoU signed with Sir Cowasjee Jahangir Institute of Psychiatry and Behavioral Sciences, Hyderabad

28. MoU signed with Association for the Advancement of Artificial Intelligence (AAAI)-Pakistan Chapter, Islamabad
29. Network of Organizations Working with Persons with Disabilities, Pakistan (NOWPDP)
30. Indus Hospital & Health Network (IHHN)
31. Afzaal Memorial Thalassemia Foundation (AMTF)

ZABSolutions

SZABIST has its own software house that fulfills the software needs of the SZABIST. The state-of-the-art applications that ZABSolutionss has developed and evolved are successfully supporting and fueling the complete academic process of the SZABIST. The complete academic process flow of students from filling the online admission form to the printing of transcript and degree runs on ZAB LMS (ZAB Learning Management System). Several educational institutions in Pakistan have shown their interest in ZAB LMS. The academic process of several institutions in Pakistan will soon be migrated onto our ZABLMS.

The ZABSolutions incubator help students foster their software skills. Students can access ZABSolutions' resources and knowledge to develop their skills and competencies, which are important to compete in the market. Following are the objectives of the incubator:

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

Research, Training, and Linkages (RTL)

RTL department is engaged in supporting research initiatives within the Faculty of Management Science (FMS), organizing symposiums, domestic colloquiums, and international conferences, recording faculty research data, and executing funded research projects. RTL conducts faculty training in-house through its own or external resources and develops the capacity of the faculty members for domain specific knowledge, research, and case studies by organizing or sending them to seminars, webinars, training or workshops, and conferences, and supporting them in doing any certificate courses physically or virtually. RTL offers organizational or corporate training and consultancy services by involving external experts and faculty members from any department/faculty and campus at SZABIST University. It develops mutually beneficial linkages with academia, industry-academia, professional bodies or associations, and co-organizes corporate social responsibility (CSR) campaigns and events with them.

The Protection Against Harassment at Workplace

The Protection Against Harassment at Workplace Committee at SZABIST University, Hyderabad Campus is a properly established and active body that works to ensure a safe, respectful, and inclusive environment for all. In accordance with the HEC Policy on Protection Against Harassment in Higher Education Institutions, the Committee helps prevent harassment, creates awareness, and provides a clear and fair system for reporting and handling complaints. The University follows a strict zero-tolerance policy against all forms of harassment and continuously promotes respect, dignity, and ethical behavior through awareness activities and support systems for students, faculty, and staff.

External Relations and Financial Assistance (ERFA)

The External Relations and Financial Assistance (ERFA) Department at SZABIST University plays a vital role in ensuring educational accessibility through diverse financial support initiatives. ERFA actively builds partnerships with esteemed organizations, donor agencies, and institutions to create academic opportunities for students and strengthen SZABIST Universities global linkages. The department administers a wide range of SZABIST-funded and donor-funded scholarships, interest-free loans, and financial aid programs to support deserving and talented students. Through its dual focus on external relations and student financial assistance, ERFA serves as a bridge between SZABIST University and the wider

LIFE AT SZABIST UNIVERSITY

corporate and social community empowering students to pursue their education without financial barriers and positioning SZABIST University as a globally connected and socially responsible university.

National & International Donor Collaboration

1. Ihsan Trust
SZABIST University has partnered with Ihsan Trust to provide interest-free financial assistance to deserving students through Qarz-e-Hasna (Interest Free Loan). This initiative enables students to pursue their education without financial burden, ensuring accessibility and academic continuity.

2. Orange Tree Foundation (OTF)
SZABIST University has collaborated with the Orange Tree Foundation to award scholarships to deserving students. This MoU fuels academic excellence by empowering talented youth to overcome financial hurdles and excel in their studies.

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

4. The Citizen Foundation (TCF)
As part of social responsibility, SZABIST University and TCF have collaborated to facilitate TCF students with admission application fee waivers, and scholarship opportunities to study in any of the undergraduate degree programs at SZABIST University.

5. EDUFI Financial Services Private Limited
SZABIST University has partnered with EDUFI Financial Services for eduction financing through the "Study Now, Pay Later" model. Through this MoU, eligible students and their families gain seamless access to flexible, affordable loans, empowering them to pursue their academic dreams without financial constraints.

6. Sindh Insurance
SZABIST University has collaborated with Sindh Insurance to award scholarships to deserving students at SZABIST University.

7. Narayan Jagannath Vidya School Management Board (NJVSMB)
As part of social responsibility, SZABIST University and NJVSMB have collaborated to facilitate NJV students with scholarship opportunities to study in any of the undergraduate degree programs at SZABIST University.

8.THE Soorty Foundation Through its NSS Scholarship Program
SZABIST University has partnered with The Soorty Foundation through its NSS Scholarship Program to provide financial assistance to eligible students, this MoU supports academic excellence by enabling talented and deserving students to overcome financial barriers and pursue their educational goals."





FACULTY OF MANAGEMENT SCIENCES

VISION

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

MISSION

SZABIST Faculty of Management Sciences is committed to:

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

AACSB Business Education Alliance Member

FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST's flagship four-year BBA program spans eight semesters (maximum six years) and requires 146 credit hours across 49 courses. The curriculum combines core business studies with four specialized electives, a Business Project, a Community Service Project, and a Graded Internship, alongside two compulsory Quranic understanding courses for Muslim students admitted from Fall 2025 onward. Additionally, the degree holds NBEAC accreditation, ACCA recognition, and CFA Institute affiliation.

BBA (BACHELOR OF BUSINESS ADMINISTRATION) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
First Year					
		Fall Semester			
	BA 1108	IT in Business	3,0	3	-
	BA 1109	Personal Management and Communication	3,0	3	-
	BA 1203	Management Principles	3,0	3	-
	BA 1206	Oral Communication and Presentation Skills	3,0	3	-
	BA 1119	Islamic Studies / Humanities***	2,0	2	-
	BA 2307	Sociology***	2,0	2	-
	BA 1215	Ideology and Constitution of Pakistan***	2,0	2	-
	BA 1120	Understanding of Holy Quran -I	1,0	1	-
			19		
		Spring Semester			
	BA 1101	Introduction to Accounting	3,0	3	-
	BA 1102	Microeconomics	3,0	3	-
	BA 1105	English Writing Skills	3,0	3	-
	BA 1204	Maths for Business	3,0	3	-
	BA 2403	Business Ethics	3,0	3	-
	BA 2312	Human Behavior	3,0	3	-
	BA 1220	Understanding of Holy Quran -II/ BA 1219 Ethics and Morality (2,0)	1,0	0	BA 1120
			19		
Second Year					
		Fall Semester			
	BA 1201	Financial Accounting	3,0	3	BA 1101
	BA 1211	Logic and Critical Thinking	3,0	3	-
	BA 3504	Organizational Behavior	3,0	3	BA 1203
	BA 2303	Marketing Principles	3,0	3	BA 1203
	BA 1202	Macroeconomics	3,0	3	BA 1102
	BA 2406	Business and Electronic Communication	3,0	3	BA 1105
			18		

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		Spring Semester			
	BA XXX	AI and Digital Transformation	3,0	3	-
	BA 2411	Cost and Management Accounting	3,0	3	BA 1201
	BA xxxx	Natural Science Elective (as offered by Campus)	3,0	3	-
	BA 3502	Entrepreneurship	3,0	3	BA 1203
	BA 2413	Consumer Behavior***	2,0	2	BA 2303
	BA 4810	Community Service Project***	2,0	2	-
	BA 1213	Pakistan Studies***	2,0	2	-
			18		

		Third Year			
		Fall Semester			
	BA 3501	Financial Markets and Institutions	3,0	3	BA 1202
	BA 3508	Media Management	3,0	3	BA 2303
	BA 2407	Probability and Statistical Inference	3,0	3	BA 1204
	BA 4801	Law and Taxation	3,0	3	BA 1203
	BA 2301	Introduction to Business Finance	3,0	3	BA 1201
	BA 3607	Operations Management	3,0	3	BA 1203
			18		

		Spring Semester			
	BA 3601	Financial Management	3,0	3	BA 2301
	BA 3602	Marketing Management	3,0	3	BA 2303
	BA 3603	Business Research Methods	3,0	3	BA 2407
	BA 3614	Business Analysis and Forecasting	3,0	3	BA 2407
	BA 4804	Human Resource Management	3,0	3	BA 1203
	BA xxxx	Internship/Field Experience**	3,0	3	-
			18		

		Fourth Year			
		Fall Semester			
	BA xxxx	University Elective (as offered by Campus)	3,0	3	-
	BA xxxx	Program Relevant Certification	3,0	3	-
	BA 4705	Services Marketing	3,0	3	BA 3602
	BA 4xxx	Program Elective-I	3,0	3	-
	BA 4xxx	Program Elective-II	3,0	3	-
	BA 4xxx	Program Elective-III	3,0	3	-
			18		

		Spring Semester			
	BA 3505	Quantitative Skills	3,0	3	BA 1204
	BA 4710	Business Project	3,0	3	BA 3603
	BA 4814	Project Management	3,0	3	BA 1203
	BA 4xxx	Program Elective-IV	3,0	3	-
	BA 4xxx	Program Elective-V	3,0	3	-
	BA 4xxx	Program Elective-VI	3,0	3	-
			18		
		Total Credit Hours	**146**		

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

BA 3506 Foreign Languages
BA 3519 Current Affairs
BA 3613 World Economy
BA 3614 Business Analysis and Forecasting
BA 3619 Enterprise Management
BA 4701 Islamic Banking and Finance
BA 4707 Marketing Research
BA 3515 Graphic Design for Multimedia
BA 3621 Professional Development
BA 3521 Auditing
BA 3522 Social Advocacy and Community Service
BA 3622 e-Commerce
BA 3523 Software Tools for Business
BA 3513 Fundamentals of Artificial Intelligence
BA 3512 Cooperative Societies (3,0)
BA 3514 Sustainability and Technology
BA 3609 Pakistan Economy

Natural Science Electives
(To be offered by the campus as Compulsory courses)

BA 3623 Agricultural Science
BA 3624 Ecology
BA 3625 Environmental Science
BA 3626 Theory of Science
BA 3514 Sustainability and Technology

Program Electives
Finance
BA 4115 Derivatives
BA 4214 Micro Finance
BA 4218 Financial Research
BA 4735 Islamic Banking and Finance
BA 4719 Investment Banking
BA 4724 Financial Modeling
BA 4727 Dynamics of Banking
BA 4752 Financial Reporting and Analysis
BA 4831 Portfolio and Investment Management
BA 4833 Security Analysis
BA 4834 Treasury and Funds Management
BA 4855 Financial Risk Analysis
BA 4867 Business Analysis and Forecasting
BA 4769 Fintech
BA 4774 Alternative Investments
BA 4771 Block Chain for Business
BA 4772 Digital Assets
BA 4740 Corporate Governance

Marketing
BA 4116 Supply Chain Management
BA 4125 Emerging Media
BA 4126 Trade Marketing
BA 4217 Experiential Marketing
BA 4836 Marketing Research
BA 4721 Advertising
BA 4722 Brand Management
BA 4739 Export Marketing
BA 4815 Event Management
BA 4816 Industrial Marketing
BA 4821 Media Planning
BA 4824 Sales Management
BA 4842 Graphic Design for Multimedia
BA 4859 Product Innovation and Design
BA 4866 Integrated Marketing Communications
BA 4762 Digital Marketing
BA 4868 Marketing Analytics
BA 4874 e-Commerce
BA 4830 Retail Management
BA 4869 Social Media Analytics
BA 4872 Consumer Insights and Analytics
BA 4876 Content Production for Digital Platforms

Supply Chain Management
BA 4116 Supply Chain Management
BA 4126 Trade Marketing
BA 4768 Total Quality Management
BA 4739 Export Marketing
BA 4742 Customer Relationship Management
BA 4764 Dynamics of Logistics and Distribution
BA 4824 Sales Management
BA 4859 Product Innovation and Design
BA 4830 Retail Management

Management & HR
BA 4117 Salary and Compensation
BA 4711 Change Management
BA 4712 Industrial Relations and Labor Laws
BA 4713 Leadership and Motivation Techniques
BA 4812 Recruitment and Selection
BA 4813 Training and Development
BA 4826 Talent Management
BA 4837 Performance Appraisal
BA 4768 Total Quality Management
BA 4777 Sustainability and Technology
BA 4877 HR Metrics and Dashboarding
BA 4867 Business Analysis and Forecasting
BA 4740 Corporate Governance

Media and Communications
BA 4125 Emerging Media
BA 4127 Experiential Marketing
BA 4721 Advertising
BA 4821 Media Planning
BA 4842 Graphic Design for Multimedia
BA 4866 Integrated Marketing Communications

BA 4822 Media Production
BA 4869 Social Media Analytics
BA 4876 Content Production for Digital Platform

Business Analytics
BA 4773 Programming for Business
BA 4871 Business Intelligence Tools and Techniques
BA 4872 Consumer Insights and Analytics
BA 4771 Block Chain for Business
BA 4772 Digital Assets
BA 4869 Social Media Analytics
BA 4873 Software Tools for Business
BA 4867 Business Analysis and Forecasting
BA 4868 Marketing Analytics
BA 4877 HR Metrics and Dashboarding

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

Full time academic load is 18 credits hours. All students are required to register for full load in the first semester.
*All Muslim undergraduate students admitted in Fall 2025 and onwards will be required to complete two compulsory one-credit-hour courses on the Understanding of Holy Quran as part of their degree requirements. The courses BA 1120: Understanding of Holy Quran–I and BA 1220: Understanding of Holy Quran–II must be completed by the summer of the second year

****Internship/Field Experience**
The students will be required to complete a graded internship of minimum 6 weeks in 6th semester or in summers after the 6th semester or program relevant field experience of minimum 06 months duration to qualify for the degree.

***Courses are of 02 credit hours.

BS Accounting & Finance

BS A&F is a 4-year (8 semesters) program and consists of 146 credit hours (Additional two courses with one Credit Hour each for Muslim Students). Students are required to complete 50 courses, 3 credit hours Capstone Project, and 3 credit hours graded internship to graduate. All Muslim undergraduate students admitted in Fall 2025 and onwards will be required to complete two compulsory one-credit- hour courses on the understanding of Holy Quran as part of their degree requirements The maximum duration to complete this degree program is years. Graduates of BS A&F will get exemptions in nine papers of both Institute of Chartered Accountants of Pakistan (ICAP) and Association of Chartered Certified Accountants (ACCA), UK.
Students of BS A&F 4 year have the option to take:

- Finance as Major and Accounting as Minor /
- Accounting as Major and Finance as Minor

Bachelor of Science in Accounting & Finance (BS A&F) 4-Year Program Courses

BS (ACCOUNTING & FINANCE) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
		First Year			
		Fall Semester			
	AF 1101	Business Mathematics*	3,0	3	-
	AF 1102	Computer Concepts and Applications*	3,0	3	-
	AF 1104	Introduction to Financial Accounting*	3,0	3	-
	AF 1108	Ideology and Constitution of Pakistan**	2,0	2	-
	AF 1109	English Comprehension & Oral Communication*	3,0	3	-
	AF 1111	Islamic Studies/Humanities**	2,0	2	-
	AF 1112	Sociology**	2,0	2	-
	AF 1120	Understanding of Holy Quran-I	1,0	1	-
			19		

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		Spring Semester			
	AF 1201	Advanced Financial Accounting*	3,0	3	AF 1104
	AF 1211	Business Management*	3,0	3	-
	AF 2301	Business and Technical English Writing*	3,0	3	AF 1109
	AF 2405	Principles of Microeconomics*	3,0	3	-
	AF 1213	Human Behavior**	2,0	2	-
	AF 1209	Pakistan Studies**	2,0	2	-
	AF xxxx	Community Service Project	2,0	2	-
	AF 1220	Understanding of Holy Quran-II/Ethics and Morality	1,0	1	-
			19		

		Second Year			
		Fall Semester			
	AF 3503	Business Ethics	3,0	3	-
	AF 1212	Essentials of Marketing	3,0	3	-
	AF xxxx	Cost & Management Accounting	3,0	3	AF 1201
	AF 2305	Organizational Behavior	3,0	3	-
	AF 3505	Principles of Macroeconomics*	3,0	3	AF 2405
	AF 4703	Introduction to Business Finance*	3,0	3	AF 1201
			18		

		Spring Semester			
	AF 3501	Accounting and Financial Information Systems	3,0	3	AF 1201
	AF 3507	Financial Institutes and Markets	3,0	3	AF 3505
	AF xxxx	Probability and Statistical Inference	3,0	3	AF 1101
	AF xxxx	Natural Science Elective (as offered by Campus)	3,0	3	-
	AF 2411	Entrepreneurship	3,0	3	AF 1211
	AF 1214	Personal Management and Professional Development	3,0	3	-
			18		

		Third Year			
		Fall Semester			
	AF 4806	Human Resource Management	3,0	3	AF 4806
	AF 4702	Financial Management	3,0	3	AF 4703
	AF 3511	Auditing -I*	3,0	3	AF 1201
	AF 3606	Taxation*	3,0	3	-
	AF 3607	Corporate Accounting*	3,0	3	AF 1201
	AF 3608	Islamic Banking and Finance	3,0	3	AF 2404
			18		

		Spring Semester			
	AF 2408	Business Analysis and Forecasting	3,0	3	AF xxxx (Prob. & Stats)
	AF 3605	Financial Reporting*	3,0	3	AF 3607
	AF 3611	Auditing-II*	3,0	3	AF 3511
	AF 4812	Internship/Field Experience****	3,0	3	-
	AF 4xxx	Finance / Accounting Elective — I	3,0	3	See Electives
	AF 4xxx	Finance / Accounting Elective — II	3,0	3	See Electives
			18		

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Fourth Year					
Fall Semester					
	AF 3609	Business Research Methodologies	3,0	3	AF xxxx (Prob. & Stats)
	AF 4701	Business and Labor Law*	3,0	3	-
	AF xxxx	Program Relevant Certification	3,0	3	-
	AF xxxx	Digital Transformation and AI in Business	3,0	3	AF 4702
	AF 4xxx	Finance/Accounting Elective-III	3,0	3	See Electives
	AF 4xxx	Finance/Accounting Elective-IV	3,0	3	See Electives
			18		
Spring Semester					
	AF XXXX	Digital Marketing and E-commerce	3,0	3	-
	AF 4707	Company Law*	3,0	3	-
	AF 4801	Corporate Finance	3,0	3	AF 4702
	AF 4712	Capstone Project	3,0	3	AF 3609
	AF 4xxx	Finance/Accounting Elective-V	3,0	3	-
	AF 4xxx	Finance/Accounting Elective-VI	3,0	3	-
			18		
		Total Credit Hours	**146**		

Minor and Major courses for BSAF-4 year programs

Accounting Minor Courses

AF 2307 Cost & Management Accounting*
AF 3606 Taxation*
AF 3607 Corporate Accounting*
AF 3605 Financial Reporting*

Finance Minor Courses

AF 4703 Introduction to Business Finance*
AF 4801 Corporate Finance
AF 3608 Islamic Banking and Finance
AF 4702 Financial Management

*Exempt courses for CAF qualified students of Institute of Chartered Accountants of Pakistan (ICAP).
** 2 Credit Hours courses
*** Proposed Natural Science Electives are:

AF 1116 Agricultural Science
AF 1117 Ecology
AF 1118 Environmental science
AF 1119 Theory of Science

**** **Internship/Field Experience:** The BSAF 4-Year students will be required to complete a graded internship of minimum 6 weeks in 6th semester or in summers after the 6th semester and BSAF-2.5 Year students will be required to complete a graded internship of minimum 6 weeks in 4th semester or in summers after the 4th semester or program relevant field experience of minimum 06 months duration as per HEC Undergraduate Policy 2023 to qualify for the degree.

Accounting Major

AF 4721 Advanced Audit and Assurance
AF 4722 Advanced Performance Management
AF 4723 Forensic Accounting
AF 4732 Tax Crime and Fraud Investigation
AF 4735 Accounting for Islamic Finance
AF 4821 Public Sector Accounting
AF 4822 Strategic Business Reporting
AF 4831 Forensic Analytics
AF 4835 Advanced Taxation
AF 4736 Sustainability Accounting and Reporting

Finance Major

AF 4725 Analysis of Investment and Management of Portfolios
AF 4726 Behavioral Finance
AF 4728 Financial Modeling
AF 4729 Financial Econometrics
AF 4733 Alternative Investments
AF 4734 Financial Derivatives
AF 4823 Financial Risk Analysis
AF 4825 International Finance
AF 4828 Treasury and Funds Management
AF 4829 Fintech
AF 4832 Financial Data Analytics

AF 4833 Investment Banking
AF 4834 Islamic Insurance-Takaful
AF 4737 Marketing of Financial Services
AF 4836 Corporate Governance

All Muslim undergraduate students admitted in Fall 2025 and onwards will be required to complete two compulsory one-credit-hour courses on the Understanding of Holy Quran as part of their degree requirements. The courses AF 1120 Understanding of Holy Quran–I and AF 1220 Understanding of Holy Quran–II must be completed by the summer of the second year.

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 the first semester.

Accounting Major
AF 4721 Advanced Audit and Assurance
AF 4722 Advanced Performance Management
AF 4723 Forensic Accounting
AF 4732 Tax Crime and Fraud Investigation
AF 4735 Accounting for Islamic Finance
AF 4821 Public Sector Accounting
AF 4822 Strategic Business Reporting
AF 4831 Forensic Analytics
AF 4835 Advanced Taxation
AF 4736 Sustainability Accounting and Reporting

Finance Major
AF 4725 Analysis of Investment and Management of Portfolios
AF 4726 Behavioral Finance
AF 4728 Financial Modeling
AF 4729 Financial Econometrics
AF 4733 Alternative Investments
AF 4734 Financial Derivatives
AF 4823 Financial Risk Analysis
AF 4825 International Finance
AF 4828 Treasury and Funds Management
AF 4829 Fintech
AF 4832 Financial Data Analytics
AF 4833 Investment Banking
AF 4834 Islamic Insurance-Takaful
AF 4737 Marketing of Financial Services
AF 4836 Corporate Governance

All Muslim undergraduate students admitted in Fall 2025 and onwards will be required to complete two compulsory one-credit-hour courses on the Understanding of Holy Quran as part of their degree requirements. The courses AF 1120 Understanding of Holy Quran–I and AF 1220 Understanding of Holy Quran–II must be completed by the summer of the second year.

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 the first semester.

MBA Program

For students with 4-year undergraduate degree/16-years of education, the minimum duration of the MBA program is 2 years. Twenty-two courses (66 credit hours) and 6 credit hours of Research Project OR Thesis spread over two semesters (3+3) are required to complete the program. All Muslim MBA students admitted in Fall 2025 and onwards will be required to complete two compulsory one-credit-hour courses on the understanding of Holy Quran as part of their degree requirements. Students are also required to complete a six-week internship. The maximum duration to complete MBA program is 4 years. MBA Program is also accredited by National Business Education Accreditation Council (NBEAC). MBA program is offered on weekdays.

MBA (MASTER OF BUSINESS ADMINISTRATION) 2 YEAR COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
		First Year			
		Fall Semester			
	BA 5322	Financial Accounting for Managers *	3,0	3	-
	BA 5323	Management and Organizational Behavior*	3,0	3	-
	BA 5321	Business Statistics and Analytics*	3,0	3	-
	BA 5102	Managerial Economics *	3,0	3	-
	BA 5106	Marketing Management*	3,0	3	-
	BA 5210	Understanding of Holy Quran - I	1,0	1	-
			16		

		Spring Semester			
	BA 5242	Macroeconomics and Global Business Environment *	3,0	3	-
	BA 5422	Finance for Managers	3,0	3	BA 5322
	BA 5411	Cost and Management Accounting	3,0	3	BA 5322
	BA 5523	Human Capital Management	3,0	1	BA 5323
	BA 5501	Applied Research Methods	3,0	3	BA 5321
	BA 5310	Understanding of Holy Quran - II	1,0	3	BA 5210
			16		
		Second Year			
		Fall Semester			
	BA 5203	Strategic Marketing	3,0	3	BA 5106
	BA 5601	Strategic HRM	3,0	3	BA 5523
	BA 5208	Strategic Finance	3,0	3	BA 5xxx
	BA 5xxx	Program Elective-I	3,0	3	-
	BA 5xxx	Program Elective-II	3,0	3	-
	BA 5508/ BA 5507	Research Project-I (3 Credits) Or Thesis-I (3 Credits)	3,0	3	BA 5501
			18		
		Spring Semester			
	BA 5505	Data Driven Decision Making	3,0	3	-
	BA 5504	Corporate Strategy	3,0	3	BA 5xxx / BA 5xxx
	BA 5xxx	Program Elective-III	3,0	3	-
	BA 5xxx	Program Elective-IV	3,0	3	-
	BA 5608/ BA 5607	Research Project - II (3 Credits) OR Thesis-II (3 Credits)	3,0	3	BA 5501
			15		
		Total Credit Hours	**65**		

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

MBA (MASTER OF BUSINESS ADMINISTRATION) 1.5 YEAR COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
		First Year			
		Fall Semester			
	BA 53501	Applied Research Methods	3,0	3	-
	BA 5203	Strategic Marketing	3,0	3	-
	BA 5601	Strategic HRM	3,0	3	-
	BA 5208	Strategic Finance	3,0	3	-
	BA 5210	Understanding of Holy Quran - I	1,0	1	-
			13		

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		Spring Semester			
	BA 5505	Data Driven Decision Making	3,0	3	-
	BA xxxx	Program Elective-I	3,0	3	BA 5xxx / BA 5xxx
	BA xxxx	Program Elective-II	3,0	3	-
	BA 5508 / BA 5507	Research Project-I (03 CH) OR Thesis-I	3,0	3	BA 5501
	BA 5310	Understanding of Holy Quran - II	1,0	1	BA 5210
			13		

		Second Year			
		Fall Semester			
	BA xxxx	Corporate Strategy	3,0	3	-
	BA 5xxx	Program Elective-III	3,0	3	-
	BA 5xxx	Program Elective-IV	3,0	3	-
	BA 5608/ BA 5607	Research Project - II (3 Credits) OR Thesis-II (3 Credits)	3,0	3	BA 5501
			12		
		Total Credit Hours	**38**		

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.

Student may take any of Level-5 electives from the Faculty of Management Sciences except Project Management Electives, subject to the prior approval of the Program Manager.
Starting Fall 2025, all Muslim MBA students must complete two compulsory one-credit-hour courses BA 5210 Understanding of Quran-I and BA 5310 Understanding of Quran II as part of their degree requirements.

Non-Muslim students are required to complete a two-credit-hour course "BA 5220 Ethics and Morality".

These courses will be scheduled by the department and included in the official Semester Schedule before each relevant semester begins.

PROGRAM ELECTIVES

Finance

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 5262 Behavioral Finance
BA 5294 Venture Capital and Private Equity
BA 5298 Financial Reporting and Analysis
BA 5454 Real Estate Investments and Finance
BA 5349 FinTech
BA 5459 Islamic Capital and Money Markets
BA 5363 Risk Management in Islamic Finance
BA 5360 Accounting and Reporting Standards in Islamic Finance
BA 5361 Analytics for Banking

Banking

BA 5284 Theory and Practice of Lending
BA 5137 International Banking
BA 5175 Banking Operations
BA 5184 Financial Product Regulations
BA 5235 Treasury and Funds Management
BA 5244 Investment Banking
BA 5273 Prudential Regulations
BA 5278 Banking Crises and Management
BA 5358 Applied Islamic Banking and Finance

Human Resource Management

BA 5114 Leadership and Motivation Techniques
BA 5118 Compensation Management
BA 5159 Salary and Compensation
BA 5164 Human Resources Information Systems
BA 5165 Job Analysis and Design
BA 5167 Talent Management and Succession Planning

BA 5185 Leadership Development
BA 5193 HR Operations and Business Partnering
BA 5196 Conflict Resolution
BA 5215 Recruitment and Selection
BA 5216 Training and Development
BA 5239 HR Policy Development
BA 5251 Human Resource Development
BA 5285 Performance Management
BA 5292 HR Analytics
BA 5297 Human Capital Development and Analytics
BA 5335 Human Resource Audit
BA 5332 Contemporary Issues in Human Resource Management
BA 5435 Human Resource Management and Technology
BA 5452 Psychological Contract in Organizations
BA 5456 Leadership in Practice
BA 5462 HRM and Sentiment Analysis

Management
BA 5111 Business Process Re-engineering
BA 5112 Change Management
BA 5116 Industrial Relations and Labor Laws
BA 5136 Business Strategy and Policy
BA 5172 Entrepreneurial Business Strategy
BA 5213 Project Management
BA 5295 Crisis Management
BA 5334 Corporate Sustainability
BA 5242 Lean Six Sigma Manufacturing
BA 5434 Hospitality and Tourism Management
BA 5333 Business Theory
BA 5433 Business Application
BA 5362 Entrepreneurship Management
BA 5461 Analytical Tools in Business
BA 5460 AI in Business

MIS
BA 5156 e-Commerce Strategies and Management
BA 5163 Enterprise Resource Planning
BA 5169 Technology Management and Innovation
BA 5181 Business Intelligence and Data Warehousing
BA 5241 e-Commerce

Business Analytics
BA 5455 Business Data Visualization
BA 5181 Business Intelligence and Data Warehousing
BA 5236 Data Analytics for Business
BA 5458 Business Intelligence Tools for Managers
BA 5359 Digital Analytics and Consumer Insights
BA 5461 Analytical Tools in Business
BA 5361 Analytics for Banking

Marketing
BA 5121 Advertising
BA 5122 Brand Management
BA 5123 Consumer Behavior
BA 5124 Customer Relationship Management
BA 5129 Services Marketing
BA 5182 Trade Marketing
BA 5463 Pricing Strategies
BA 5186 Social Marketing
BA 5217 Industrial Marketing
BA 5224 Media Planning and Management
BA 5226 Pharmaceutical Marketing
BA 5227 Sales Management
BA 5228 Retail Management
BA 5246 Public Relations
BA 5256 Integrated Marketing Communications
BA 5259 Emerging Media
BA 5264 Interactive Global and Regional Marketing
BA 5269 Marketing Intelligence
BA 5281 Digital Marketing
BA 5293 New Product Development Process and Innovation
BA 5198 Experiential and Content Marketing
BA 5438 Marketing Practices in Pakistan
BA 5331 Marketing Analytics
BA 5339 Packaging for Brands
BA 5337 Retail Strategy and Structure
BA 5437 Retail Supply Chain Management
BA 5436 Retail Operations
BA 5336 Retail Buying and Merchandising
BA 5451 Strategic Entrepreneurship
BA 5355 Marketing Strategies for Emerging Economies
BA 5364 Sustainability Marketing

Supply Chain Management (SCM)
BA 5457 Advanced Manufacturing and TPM in SCM
BA 5194 Supply Chain Finance
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 5142 Materials Management
BA 5432 Green Supply Chain Management
BA 5431 Supply Chain Operations
BA 5449 Strategic Warehouse Management
BA 5439 Green Logistics
BA 5237 Demand Planning and Forecasting in Supply Chain
BA 5144 Distribution and Supply Chain Network Design

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BA 5356 International Trade Procedures and Practices
BA 5143 Digital Supply Chain

Non-Credit Hours Course

BA 5110 Software Tools for Business

Internship

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

Master of Science in Management Sciences (MSMS)

There are two streams available for the Master of Science in Management Sciences (MSMS): coursework-based and research-based. Specialization areas include Human Resource Management, Marketing, Finance, and Business Analytics. In both streams, students are required to complete 35 credit hours. The time limit to earn an MS degree ranges from 1.5 to 3 years.

1. MS By Course Work Stream

The Scheme of Study is as follows:

- Four Compulsory Courses (12 Credit hours)
- Two general education courses (2 Credit hours)
- Seven Program Electives (21 Credit hours)
- No Thesis

Compulsory Courses

MS 7101 Applied Research Design and Methods
MS 7201 Strategic Finance
MS7102 Contemporary Business Strategy in the Digital Era
MS 7202 Philosophy of Management

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

- Finance
- Marketing
- Human Resource Management
- Business Analytics

First Year

Fall Semester

MS 7101 Applied Research Design and Methods
MS 7102 Contemporary Business Strategy in the Digital Era
MS 7xxx Elective I
MS 7xxx Elective II
MS 7105 Understanding of Holy Quran-I* (For Muslim students only)

Spring Semester

MS 7201 Strategic Finance
MS 7202 Philosophy of Management
MS 7xxx Program Elective III
MS 7xxx Program Elective IV
MS 7205 Understanding of Holy Quran-II * (Muslim students only)

Second Year

Fall Semester

MS 7xxx Program Elective V
MS 7xxx Program Elective VI / IRS I
MS 7xxx Program Elective VII / IRS II

2. MS By Research Work Stream

The Scheme of Study is as follows:

- Four Compulsory Courses (12 Credit hours)
- Two general education courses (2 Credit hours)
- Five Program Electives (15 Credit hours)
- One Thesis (6 Credit hours)

Compulsory Courses

MS 7101 Applied Research Design and Methods
MS 7201 Strategic Finance
MS7102 Contemporary Business Strategy in the Digital Era
MS 7202 Philosophy of Management

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

- Finance
- Marketing
- Human Resource Management
- Business Analytics

First Year

Fall Semester

MS 7101 Applied Research Design and Methods
MS 7102 Contemporary Business Strategy in

FACULTY OF MANAGEMENT SCIENCES

	the Digital Era
MS 7xxx	Program Elective I
MS 7xxx	Program Elective II
MS 7105	Understanding of Holy Quran-I* (For Muslim students only)

Spring Semester

MS 7201	Strategic Finance
MS 7202	Philosophy of Management
MS 7xxx	Program Elective III
MS 7xxx	Program Elective IV /Thesis (Part-I)
MS 7205	Understanding of Holy Quran - II* (For Muslim students only)

Second Year

Fall Semester

MS 7xxx Program Elective V
MS 7xxx Thesis (Part-II)

Spring Semester

MS 7xxx Thesis (Part-II) (if any left)

*For other students "MS 7206 Ethics and Morality" will be offered.

PROGRAM ELECTIVES

Program electives may be selected from the following specialization areas, subject to course offering each semester. Elective lists are indicative and may be updated periodically.

Finance

MS 7321	Applied Econometrics
MS 7322	Behavioral Finance
MS 7323	Business Finance and Decision Making
MS 7324	Capital Asset Pricing Model
MS 7325	Corporate Finance
MS 7326	Corporate Finance Planning and Decisions
MS 7327	Derivatives and Financial Risk
MS 7328	Econometrics
MS 7329	Empirical Asset Pricing
MS 7330	Financial Markets
MS 7331	Financial Time Series
MS 7332	Fintech / Data Science for Finance
MS 7333	Islamic Banking and Finance
MS 7334	Managerial Economics
MS 7335	Mathematical Modeling in Finance
MS 7336	Modern Financial Applications
MS 7337	Operations and Mathematical Modeling
MS 7338	Risk Management
MS 7339	Seminars in Finance

Marketing

MS 7521	Advertising Research
MS 7522	Behavioral Marketing
MS 7523	Customer Relations Management
MS 7524	Digital Marketing and Social Media
MS 7525	Distribution and Channel Management
MS 7526	Global Marketing Strategies
MS 7527	Market Strategy and Forecasting
MS 7528	Marketing Metrics
MS 7529	Retailing and Analytics
MS 7530	Seminars in Marketing
MS 7531	Strategic Brand Management
MS 7532	Strategic Entrepreneurial Marketing
MS 7533	Strategic Social Marketing

Human Resource Management

MS 7421	Change Management
MS 7422	Corporate Governance
MS 7423	Creative Leadership
MS 7623	Decision Support System
MS 7624	Disaster Management (GIS)
MS 7424	Global Corporate Strategy
MS 7425	Global Governance and Development
MS 7626	HR Analytics
MS 7426	International Business Management
MS 7427	Issues in Strategic Management
MS 7428	Leadership and Motivation Techniques
MS 76282	Management Models
MS 7429	Negotiations and Conflict Resolution
MS 7430	NGO Management
MS 7431	Organizational Development
MS 7432	Organizational Strategies and Effectiveness
MS 7629	Performance Management
MS 7433	Public Administration and Governance
MS 7434	Seminars in HRM
MS 7435	System Thinking and Organizational Learning

Business Analytics

MS 7621	Advanced Warehouse, Stores and Material Management
MS 7622	Data Mining Finance
MS 7623	Decision Support System
MS 7624	Disaster Management (GIS)
MS 7625	Distribution Networks
MS 7626	Green Supply Chain Management
MS 7627	HR Analytics
MS 7628	Management Models
MS 7629	Performance Management
MS 7630	Strategies for Managing Supply Chain
MS 7631	Tools for Data Analytics

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

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

Maximum course load for a semester is 5 courses (13 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.

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PhD Eligibility of MS Graduates
Students with an MS degree without thesis can also apply for PhD. Preference is given to thesis graduates. Course-based MS students may be required to undertake research work before or during the early PhD stages (HEC).

PhD Management Science

For PhD Program, students are required to complete 50 credit hours. Five courses of 3 credit hours each, one Independent Research Study of 3 credit hours and one dissertation of 30 credit hours are required. In addition to it, 2 general education courses (1 credit hour each) are mandatory for Muslim students and 2 credit hours of Ethics and Morality for other students, as per HEC requirement. Following are the important points for PhD in Management Sciences:

- There are two compulsory courses in PhD i.e. Advanced Research Methods and Techniques and Advanced Quantitative Tools for Research.
- In addition, Muslim students must also complete two 1-credit hour courses – Understanding of Holy Quran I & II, and Ethics and Morality (2 credit hours) for other students bringing the total course credit hours to 20 for those students. These courses are integrated into the program without extending its duration.
- Students cannot register in IRS before completing all compulsory courses.
- Candidate may be given prerequisite/deficiency courses or thesis which will be decided by the Interview Board at the time of admission.
- Prerequisite Courses are non-credit courses.
- The student will not be allowed to register in Compulsory Courses before completing prerequisite courses/ thesis if any.
- Dissertation of 30 credit hours is Compulsory.
- Registration in Dissertation is allowed after passing Comprehensive Examination, GAT- Subject Test and maintaining minimum CGPA requirement.
- All the requirements of HEC must be fulfilled which include the following:
  - Passing GAT Subject with minimum 60%.
  - Maintaining minimum CGPA requirement for each course and for entire program.
  - Passing Comprehensive examination to establish the PhD candidacy (maximum 2 attempts allowed).
  - Publishing Research Paper (s) from the thesis in the journals as per HEC policy, before the completion of 30 Credit Hours Dissertation.
- Program Elective courses to be selected from the specialized area of Marketing, Finance and Human Resource Management.
- Maximum course load for each semester is 10 credit hours.
- Time duration for PhD is Minimum 3 years and Maximum 8 years.
- • All general guidelines mentioned in DOCTORAL DEGREE PROGRAMS and PhD Guidelines (available on SZABIST University website) are applicable to PhD-Management Science.

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First Year

Fall Semester

MS 8101 Advanced Research Methods and Techniques
MS 8102 Advanced Quantitative Tools for Research
MS 8xxx Program Elective I
MS 8105 Understanding of Holy Quran-I* (For Muslim students only)

Spring Semester

MS 8xxx Program Elective II
MS 8xxx Program Elective III
MS 8xxx Independent Research Study
MS 8205 Understanding of Holy Quran - II* (For Muslim students only)

Second Year

Fall Semester

MS 8xxx Dissertation (Proposal)

Spring Semester

MS 8xxx Dissertation

Third Year

Fall Semester

MS 8xxx Dissertation

Spring Semester

MS 8xxx Dissertation

*** for other students "Ethics and Morality" will be offered**

PROGRAM ELECTIVES

Finance

MS 8321 Applied Econometrics
MS 8322 Behavioral Finance
MS 8323 Business Finance and Decision Making
MS 8324 Capital Asset Pricing Model
MS 8325 Corporate Finance
MS 8326 Corporate Finance Planning and Decision
MS 8327 Derivatives and Financial Risk
MS 8328 Econometrics
MS 8329 Empirical Asset Pricing
MS 8330 Financial Markets
MS 8331 Financial Time Series
MS 8332 Islamic Banking and Finance
MS 8333 Managerial Economics
MS 8334 Mathematical Modeling in Finance
MS 8335 Modern Financial Applications
MS 8336 Operations and Mathematical Modeling
MS 8337 Seminars in Finance
MS 8338 Strategic Finance

Marketing

MS 8521 Advance Marketing Strategy
MS 8522 Advertising Research
MS 8523 Behavioral Marketing
MS 8524 Distribution and Channel Management
MS 8525 Global Marketing Strategies
MS 8526 Marketing Metrics
MS 8527 Seminars in Marketing
MS 8528 Strategic Brand Management
MS 8529 Strategic Entrepreneurial Marketing
MS 8530 Strategic Marketing Decisions
MS 8531 Strategic Social Marketing

Human Resource Management

MS 8421 Applied Strategic Management
MS 8422 Change Management
MS 8423 Corporate Governance
MS 8424 Creative Leadership
MS 8425 Global Corporate Strategy
MS 8426 Global Governance and Development
MS 8427 International Business Management
MS 8428 Issues in Strategic Management
MS 8429 Leadership and Motivation Techniques
MS 8430 Negotiations and Conflict Resolution
MS 8431 NGO Management
MS 8432 Organizational Development
MS 8433 Organizational Strategies and Effectiveness
MS 8434 Public Administration and Governance
MS 8435 Seminars in HRM
MS 8436 Strategic Human Resource Development
MS 8437 Strategic Management
MS 8438 System Thinking and Organizational Learning

Program Elective courses may vary from time to time. Offerings of courses in every semester may vary; alternative courses may be substituted as and when required.

Course registration is subject to course offering as per Zabdesk each semester. The above course plan is tentative for basic understanding. Students can register in any number of offered course/s but not exceeding 3 courses (9 credit hours) per semester. One extra course can be allowed depending on the approval of program manager. Summer is not a regular semester and no fresh registration is offered during Summer. A student can take maximum two interdisciplinary elective courses from other department's Ph.D program with the prior approval of respective program managers.

FACULTY OF MANAGEMENT SCIENCES





FACULTY OF COMPUTING AND ENGINEERING SCIENCES

DEPARTMENT OF COMPUTING

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

PROGRAMS

The Department of Computing at SZABIST offers degree programs at both the undergraduate and graduate levels. All programs offered by the Department of Computing are fully aligned with the guidelines of the Higher Education Commission and meet national and global industrial needs. The programs offered at the Department of Computing are accredited by the National Computing Education Accreditation Council (NCEAC), Pakistan.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS Computer Science

SZABIST offers a four-year (eight semesters) BS Computer Science degree program accredited by the National Computing Education & Accreditation Council (NCEAC). The program encompasses a broad range of courses in core Computer Science, Information Technology, and Software Engineering. The program is a full-time day program consisting of 48 courses (five/six courses per semester), totaling 136 credit hours. The complete course plan includes 7 technical electives. These 7 technical electives provide intensive learning in wide areas of Computer Science and allied disciplines. Internship opportunities are provided to complete degree requirements. The maximum time limit to complete the degree program is six years.

Mission Statement

To deliver a comprehensive and rigorous education in Computer Science, equipping students with the scientific knowledge, technological skills, and professional competencies necessary to excel in their careers and contribute meaningfully to the ongoing transformation of both local and global communities.

Program Objectives:

PO1: Graduates will be equipped with the skills to solve complex computing problems, design and implement solutions. (GA1- GA5)

PO2: Graduates will communicate technical concepts effectively and work responsibly as individuals and as members of multidisciplinary teams across diverse professional settings. (GA6– GA7, GA9).

PO3: Graduates will responsibly consider the societal, legal, and ethical impacts of computing, act with professionalism and integrity, and embrace lifelong learning to grow and adapt in their careers. (GA 8 – GA 10).

Graduate Attributes

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

GA-1 Academic Education: Completion of an accredited program of study designed to prepare graduates as computing professionals.
GA-2 Knowledge for Solving Computing Problems: Apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
GA-3 Problem Analysis: Identify and solve complex computing problems, reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.
GA-4 Design/Development of Solutions: Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs.
GA-5 Modern Tool Usage: Create, select, or adapt and then apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
GA-6 Individual and Teamwork: Function effectively as an individual and as a member or leader of a team in multidisciplinary settings.
GA-7 Communication: Communicate effectively with the computing community about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
GA-8 Computing Professionalism and Society: Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.
GA-9 Ethics: Understand and commit to professional ethics, responsibilities, and norms of professional computing practice.
GA-10 Life-long Learning: Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS (Computer Science) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
First Year					
		Fall Semester			
	CSC 1101	Calculus and Analytical Geometry	3, 0	3	
	CSC 1102	English Composition and Comprehension	3, 0	3	
	CSC 1103	Fundamentals of Programming	3, 0	3	
	CSCL 1103	Lab: Fundamentals of Programming	0, 1	1	
	CSC 1108	Introduction to Computer Science	2, 0	2	
	CSCL 1108	Lab: Introduction to Computer Science	0, 1	1	
	CSC 1107	Applied Physics	2, 0	2	
	CSCL 1107	Lab: Applied Physics	0, 1	1	
			16		
		Spring Semester			
	CSC 1208	Object Oriented Programming Techniques	3, 0	3	CSC 1103, CSCL 1103
	CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	1	CSC 1103, CSCL 1103
	CSC 1206	Probability and Statistics	3, 0	3	
	CSC 1207	Digital Logic Design	2, 0	2	
	CSCL 1207	Lab: Digital Logic Design	0, 1	1	
	CSC 1209	Islamic Studies/ Humanities	2, 0	2	
	CSC 1109	Pakistan Studies	2, 0	2	
	CSC 3115	Understanding of Holy Quran-I	1, 0	1	(For Muslims)
			18/17		
Second Year					
		Fall Semester			
	CSC 2102	Data Structures and Algorithms	3, 0	3	CSC 1208, CSCL 1208
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1	CSC 1208, CSCL 1208
	CSC 1202	Multivariate Calculus	3, 0	3	CSC 1101
	CSC 1201	Discrete Mathematical Structures	3, 0	3	
	CSC 3105	Computer Organization and Assembly Language	2, 0	2	CSC 1207, CSCL 1207
	CSCL 3105	Lab: Computer Organization and Assembly Language	0, 1	1	CSC 1207, CSCL 1207
	CSC 3106	HCI & Computer Graphics	2, 0	2	
	CSCL 3106	Lab: HCI & Computer Graphics	0, 1	1	
	CSC 3215 CSC 2110	Understanding of Holy Quran-II (For Muslims)/ Ethics and Morality (For Non-Muslims)	1,0 2,0	1 2	
			17/18		
		Spring Semester			
	CSC 2203	Database Systems	3, 0	3	
	CSCL 2203	Lab: Database Systems	0, 1	1	
	CSC 2204	Finite Automata Theory and Formal Languages	3, 0	3	
	CSC 2206	Linear Algebra	3, 0	3	CSC 1101
	CSC 3202	Design and Analysis of Algorithms	3, 0	3	CSC 2102, CSCL 2102
	CSC 3101	Computer Architecture	3, 0	3	CSC 3105, CSCL 3105
	CSC 1211	Ideology and Constitution of Pakistan	2, 0	2	
			18		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Third Year

Fall Semester

	CSC 3107	Operating Systems	2, 0	2	CSC 2102, CSCL 2102
	CSCL 3107	Lab: Operating Systems	0, 1	1	CSC 2102, CSCL 2102
	CSC 3201	Compiler Construction	3, 0	3	CSC 2204
	CSC 3109	Software Engineering	3, 0	3	
	CSC 3108	Advance Database Management Systems	2, 0	2	CSC 2203, CSCL 2203
	CSCL 3108	Lab: Advance Database Management Systems	0, 1	1	CSC 2203, CSCL 2203
	CSC 3110	Community Service	2, 0	2	
	CSC 3111	Entrepreneurship	2, 0	2	
			16		

Spring Semester

	CSC 1205	Technical and Business Writing	3, 0	3	
	CSC 3209	Computer Networks	2, 0	2	
	CSCL 3209	Lab: Computer Networks	0, 1	1	
	CSC 3206	Artificial Intelligence	2, 0	2	
	CSCL 3206	Lab: Artificial Intelligence	0, 1	1	
	CSC xxxx	CS Elective-1	3, 0	3	
	CSC xxxx	CS Elective-2	3, 0	3	
	CSC xxxx	University Elective-1	2, 0	2	
			17		

Forth Year

Fall Semester

	CSC 4105	Final Year Project-I	0, 3	3	
	CSC xxxx	CS Elective-3	3, 0	3	
	CSC xxxx	CS Elective-4	3, 0	3	
	CSC xxxx	University Elective-2	2, 0	2	
	CSC 4201	Information Security	3, 0	3	
	CSC 4109	Professional Practices	2, 0	2	
			16		

Spring Semester

	CSC 4205	Final Year Project-II	0, 3	3	CSC 4105
	CSC 4106	Parallel and Distributed Computing	3, 0	3	CSC 3107, CSCL 3107
	CSC xxxx	CS Elective-5	3, 0	3	
	CSC xxxx	CS Elective-6	3, 0	3	
	CSC xxxx	CS Elective-7	3, 0	3	
			15		
	CSC xxxx	Internship*	3		

Total Credit Hours **136**

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

- Students must complete a 3 credit-hour internship (minimum 150 working hours), anytime after the 4th semester.
- Students must complete a professional certification, which may be counted in place of one elective course (3,0), subject to the approval of the Program Manager.
- Two mathematics deficiency courses will be offered to students with limited mathematical backgrounds, as identified by the PM/HOD.

CSC 1110 Algebraic Foundations and Applications in Computing
CSC 1111 Differential and Integral Calculus in Computing

CS ELECTIVES

CSC 4703 Applied Data Mining
CSC 4706 Digital Image Processing
CSC 4708 Enterprise Resource Planning
CSC 4712 IT Innovations
CSC 4714 Network Security and Encryption
CSC 4716 Switching and Routing
CSC 4717 Web Technologies-I
CSC 4719 Game Development
CSC 4721 Introduction to Cloud Computing
CSC 4722 Introduction to Blockchain Technology
CSC 4723 Blockchain and Smart Contract Development
CSC 4802 Android Application Development
CSC 4803 Auditing Information Systems
CSC 4805 Data and Network Security
CSC 4808 Ethical Hacking
CSC 4814 Software Project Management
CSC 4816 Technopreneurship
CSC 4817 Web Technologies-II
CSC 4823 Interaction Design
CSC 4824 Embedded Systems
CSC 4825 Computer Graphics
CSC 4826 Introduction to Data Sciences
CSC 4724 User Interface Design
CSC 4725 Introduction to Development and Operations
CSC 4726 Systems and Network Administration
CSC 4827 Software Quality Engineering and Testing
CSC 4727 Hybrid Mobile Application Development
CSC 4728 No Code Programming
CSC 4828 Algorithmic Trading
CSC xxxx Graph Theory
CSC xxxx Natural Language Processing

UNIVERSITY ELECTIVES (2,0)

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 4901 Business and Technology Ethics
CSC 4902 Design and Creativity
CSC 4905 Introduction to Accounting
CSC 4907 Organizational Behavior
CSC 4903 Foreign Languages
CSC 4904 History of Scientific Ideas
CSC 4906 Management Principles
CSC 4909 Research Report
CSC 4910 Sociology
CSC xxxx Psychology

DISTRIBUTION OF CREDIT HOURS

Areas	Cr. Hrs.	Courses
Computing Core	46	14
Domain Core	18	6
Domain Elective	21	7
Mathematics and Supporting Courses	12	4
Elective Supporting Courses	2	1
General Education Requirement	34	15
Internship	3	1
Total	136	48

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 BS Software Engineering program at SZABIST is a full-time four-year degree program comprising eight semesters with minimum of 136 credit hours. The degree program is designed around a set of courses pertaining to the principles of software analysis, design, architecture, development, testing, and maintenance techniques that are necessary to produce high-quality software systems. Some additional courses from the disciplines of Computer Science, Mathematics, Management Science, and Humanities are part of the degree program to develop a broader knowledge base of the students.

The BS Software Engineering program is offered through a trained foreign qualified faculty. It consists of 48 courses with a total of 136 credits hours. The maximum duration to complete the degree is six years.

Program Objectives

PO 1: Graduates will demonstrate strong analytical and problem-solving skills to identify, model, design, implement, and evaluate software-based solutions using modern engineering principles, processes, and tools. [GA1, GA2, GA3, GA4, GA5]

PO 2: Graduates will exhibit the ability to communicate effectively, work collaboratively in multidisciplinary teams, and demonstrate leadership in software development environments. [GA6, GA7]

PO 3: Graduates will practice ethical and responsible behavior as software engineering professionals, understand societal and legal impacts of software systems, and engage in continuous learning to adapt to emerging technologies. [GA8, GA9, GA10].

Graduate Attributes

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

GA-1 Academic Education: Completion of an accredited program of study designed to prepare graduates as computing professionals.
GA-2 Knowledge for Solving Computing Problems: Apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
GA-3 Problem Analysis: Identify and solve complex computing problems reaching substantiated conclusions using undamental principles of mathematics, computing sciences, and relevant domain disciplines.
GA-4 Design/Development of Solutions: Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs.
GA-5 Modern Tool Usage: Create, select, or adapt and then apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
GA-6 Individual and Teamwork: Function effectively as an individual and as a member or leader of a team in multidisciplinary settings.
GA-7 Communication: Communicate effectively with the computing community about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
GA-8 Computing Professionalism and Society: Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.
GA-9 Ethics: Understand and commit to professional ethics, responsibilities, and norms of professional computing practice.
GA-10 Life-long Learning: Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

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 1108	Introduction to Computer Science	2, 0	2	-
	CSC L1108	Lab : Introduction to Computer Science	0, 1	1	-
	CSC 1107	Applied Physics	2, 0	2	-
	CSCL 1107	Lab: Applied Physics	0, 1	1	-
			16		
		Spring Semester			
	CSC 1208	Object Oriented Programming Techniques	3, 0	3	CSC 1103, CSCL 1103
	CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	1	CSC 1103, CSCL 1103
	CSC 1206	Probability and Statistics	3, 0	3	
	CSC 1207	Digital Logic Design	2, 0	2	
	CSCL 1207	Lab: Digital Logic Design	0, 1	1	
	CSC 1209	Islamic Studies/ Humanities	2, 0	2	
	CSC 1109	Pakistan Studies	2, 0	2	
	CSC 2101	Communication and Presentation Skills	3, 0	3	CSC 1102
	CSC 3115	Understanding of Holy Quran-I	1, 0	1	(For Muslims)
			17/18		
Second Year					
		Fall Semester			
	CSC 2102	Data Structures and Algorithms	3, 0	3	CSC 1208, CSCL 1208
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1	CSC 1208, CSCL 1208
	CSC 1201	Discrete Mathematical Structures	3, 0	3	
	CSC 2206	Linear Algebra	3, 0	3	CSC 1101
	CSC 3105	Computer Organization and Assembly Language	2, 0	2	CSC 1207, CSCL 1207
	CSCL 3105	Lab: Computer Organization and Assembly Language	0, 1	1	CSC 1207, CSCL 1207
	CSC 3109	Software Engineering	3, 0	3	
	CSC 3215	Understanding of Holy Quran-II /	1, 0	1	(For Muslims)
	CSC 2110	Ethics and Morality	2, 0	2	(For Non-Muslims)
			17/18		
		Spring Semester			
	CSC 3107	Operating Systems	2, 0	2	CSC 2102, CSCL2102
	CSCL 3107	Lab: Operating Systems	0, 1	1	CSC 2102, CSCL2102
	CSC 2203	Database Systems	3, 0	3	
	CSCL 2203	Lab: Database Systems	0, 1	1	
	SEC 2406	Software Design and Architecture	3, 0	3	
	CSC 1202	Multivariate Calculus	3, 0	3	CSC 1101
	SEC 2407	Software Requirement Engineering	2, 0	2	CSC 3109
	SECL 2407	Lab: Software Requirement Engineering	0, 1	1	CSC 3109
	CSC 1211	Ideology and Constitution of Pakistan	2, 0	2	
			18		

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Third Year					
		Fall Semester			
	SEC 3604	Software Construction and Development	2, 0	2	SEC 2406
	SECL 3604	Lab: Software Construction and Development	0, 1	1	SEC 2406
	CSC 3209	Computer Networks	2, 0	2	
	CSCL 3209	Lab: Computer Networks	0, 1	1	
	CSC 1205	Technical and Business Writing	3,0	3	
	CSC 3202	Design and Analysis of Algorithms	3, 0	3	CSC 2102, CSCL2102
	CSC 3110	Community Service	2, 0	2	
	CSC 3111	Entrepreneurship	2, 0	2	
	SEC xxxx	University Elective-1	2, 0	2	
			18		
		Spring Semester			
	SEC 3608	Software Quality Engineering and Testing	3, 0	3	SEC 3604, SECL 3604
	CSC 4201	Information Security	3, 0	3	
	CSC 4109	Professional Practices	2, 0	2	
	SEC xxxx	SE Elective-1	3, 0	3	
	SEC xxxx	SE Elective-2	3, 0	3	
	CSC 3206	Artificial Intelligence	2, 0	2	
	CSCL 3206	Lab: Artificial Intelligence	0, 1	1	
			17		

		Fourth Year			
		Fall Semester			
	CSC 4105	Final Year Project-I	0, 3	3	
	SEC 3603	Software Project Management	3, 0	3	CSC 3109
	SEC xxxx	SE Elective-3	3, 0	3	
	SEC xxxx	SE Elective-4	3, 0	3	
	CSC 4106	Parallel and Distributed Computing	3, 0	3	CSC 3107, CSCL 3107
	CSC xxxx	University Elective-1	2, 0	2	
			15		
		Spring Semester			
	CSC 4205	Final Year Project-II	0, 3	3	CSC 4105
	SEC xxxx	University Elective-2	2, 0	2	
	SEC xxxx	SE Elective-5	3, 0	3	
	SEC xxxx	SE Elective-6	3, 0	3	
	SEC xxxx	SE Elective-7	3, 0	3	
	CSC xxxx	Internship*	3, 0	3	
			14		
		Total Credit Hours	**136**		

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•*Students must complete a 3 credit-hour internship (minimum 150 working hours), anytime after the 4th semester.

•Students must complete a professional certification, which may be counted in place of one elective course (3,0), subject to the approval of the Program Manager.

•Two mathematics deficiency courses will be offered to students with limited mathematical backgrounds, as identified by the PM/HOD.

CSC 1110 Algebraic Foundations and Applications in Computing
CSC 1111 Differential and Integral Calculus in Computing

SE Electives

SEC 3612 Mobile Application Development
SEC 3614 Computer Graphics
SEC 4511 e-Commerce
SEC 4514 Introduction to Data Science
SEC 4515 Digital Image Processing
SEC 4518 Visual Programming
SEC 4519 Software Engineering Economics
SEC 4521 Agent Based Software Engineering
SEC 4522 Big Data Analytics
SEC 4524 Computer Vision
SEC 4525 Data Encryption and Security
SEC 4526 Design Patterns
SEC 4529 Global Software Development
SEC 4531 Information Systems Audit
SEC 4532 Introduction to Cloud Computing
SEC 4533 Management Information Systems
SEC 4535 Multimedia Communication
SEC 4536 Natural Language Processing
SEC 4538 Real Time Systems
SEC 4539 Semantic Web
SEC 4542 Software Metrics
SEC 4543 Systems Programming
SEC 4544 Technopreneurship
SEC 4549 User Interface Design
SEC 4547 Virtual and Augmented Reality
SEC 4546 AI in Game Developement
SEC 4548 Introduction to Developement Operations

UNIVERSITY ELECTIVES SUPPORTING (2,0.)

SEC 3401 Financial Accounting
SEC 3403 Human Resource Management
SEC 3408 Sociology
SEC 3402 Foreign Languages
SEC 3405 Management Principles
SEC 3406 Organizational Behavior
SEC 3407 Psychology

DISTRIBUTION OF CREDIT HOURS

Areas	Cr. Hrs.	Courses
Computing Core	46	14
Domain Core	18	6
Domain Elective	21	7
Mathematics and Supporting Courses	12	4
Elective Supporting Courses	2	1
General Education Requirement	34	15
Field Experience	3	1
Total	136	48

Internship

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

Bachelor of Science in Artificial Intelligence (BSAI)

The Bachelor of Science in Artificial Intelligence BS(AI) program is offered by the Department of Robotics and Artificial Intelligence. This comprehensive four-year program encompasses a total of 48 courses, amounting to 136 credit hours. To fulfill the degree requirements, students undertake internships opportunities, integrating practical experience with academic learning. The BS(AI) program is structured as a full-time, daytime curriculum, designed to cover the forefront of technological advancements in fields such as Machine Learning, Deep Learning, Explainable AI, Evolutionary Computing, Computer Vision, Software Engineering, and Natural Language Processing. The program comprises 46 credit hours of Computing Core courses, 18 credit hours of Domain Core courses, 21 credit hours of Domain Electives, 12 credit hours of Mathematics and Supporting courses, 3 credit hours of, Internship Course and 36 credit hours of General Education Requirement courses. The maximum duration of the program is six years.

Mission Statements

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

Program Educational Objectives

Following are the Program Educational Objectives (PEO)

PEO 1: To equip students with the necessary skills and knowledge to solve complex problems in real-world settings.
PEO 2: To produce graduates practicing in the area of Artificial Intelligence in a socially and ethically responsible way.
PEO 3: To prepare students for lifelong learning skills in Artificial Intelligence and allied disciplines.

Graduate Attributes

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

GA-1 Academic Education: Completion of an accredited program of study designed to prepare graduates as computing professionals.
GA-2 Knowledge for Solving Computing Problems: Apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
GA-3 Problem Analysis: Identify and solve complex computing problems reaching substantiated conclusions using undamental principles of mathematics, computing sciences, and relevant domain disciplines.
GA-4 Design/Development of Solutions: Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs.
GA-5 Modern Tool Usage: Create, select, or adapt and then apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
GA-6 Individual and Teamwork: Function effectively as an individual and as a member or leader of a team in multidisciplinary settings.
GA-7 Communication: Communicate effectively with the computing community about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
GA-8 Computing Professionalism and Society: Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.
GA-9 Ethics: Understand and commit to professional ethics, responsibilities, and norms of professional computing practice.
GA-10 Life-long Learning: Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS ARTIFICIAL INTELLIGENCE CURRICULUM

Codes	Course Title	Cr.Hrs.	Pre-Req.
	First Year		
	Semester - I		
CSC 1101	Calculus and Analytical Geometry	3, 0	-
CSC 1102	English Composition and Comprehension	3, 0	-
CSC 1103	Fundamentals of Programming	3, 0	-
CSCL 1103	Lab: Fundamentals of Programming	0, 1	-
CSC 1108	Introduction to Computer Science	2, 0	-
CSCL1108	Lab: Introduction to Computer Science	0, 1	-
CSC 1107	Applied Physics	2, 0	-
CSCL 1107	Lab: Applied Physics	0, 1	-
	Sub-total	**16**	
	Semester - II		
CSC 1208	Object Oriented Programming Techniques	3, 0	CSC 1103, CSCL 1103
CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	CSC 1103, CSCL 1103
CSC 1206	Probability and Statistics	3, 0	-
CSC 1207	Digital Logic Design	2, 0	-
CSCL 1207	Lab: Digital Logic Design	0, 1	-
CSC 1209	Islamic Studies/ Humanities	2, 0	-
CSC 1109	Pakistan Studies	2, 0	-
CSC 2101	Communication and Presentation Skills	3, 0	CSC 1102
	Sub-total	**17**	

Codes	Course Title	Cr.Hrs.	Pre-Req.
	Second Year		
	Semester - III		
CSC 2102	Data Structures and Algorithms	3,0	CSC 1208, CSCL 1208
CSCL 2102	Lab: Data Structures and Algorithms	0,1	CSC 1208, CSCL 1208
CSC 3105	Computer Organization and Assembly Language	2,0	CSC 1207, CSCL 1207
CSCL 3105	Lab: Computer Organization and Assembly Language	0,1	CSC 1207, CSCL 1207
CSC 1201	Discrete Mathematical Structures	3,0	-
CSC 3206	Artificial Intelligence	2,0	CSC 1208, CSCL 1208
CSCL 3206	Lab: Artificial Intelligence	0,1	CSC 1208, CSCL 1208
CSC 1202	Multivariate Calculus	3,0	CSC 1101
CSC 1211	Ideology and Constitution of Pakistan	2, 0	
CSC 3115	Understanding of Holy Quran-I	1,0	
	Sub-total	**19/18 For Muslims/ Non-Muslims**	
	Semester - IV		
CSC 3209	Computer Networks	2,0	-
CSCL 3209	Lab: Computer Networks	0,1	-
CSC 2203	Database Systems	3,0	
CSCL 2203	Lab: Database Systems	0,1	
CSC 3202	Design and Analysis of Algorithms	3,0	CSC 2102, CSCL 2102
AIC 2401	Programming for Artificial Intelligence	2,0	CSC 3206, CSCL 3206
AICL 2401	Lab: Programming for Artificial Intelligence	0,1	CSC 3206, CSCL 3206
CSC 2206	Linear Algebra	3,0	
AIC xxxx	AI Elective - I	3,0	
CSC 3215/ CSC 2110	Understanding of Holy Quran-II(for Muslims)/ Ethics and Morality (Non-Muslims)	0,1/0,2	
CSC xxxx	Internship	3,0	
	Sub-total	**23/24 For Muslims/ Non-Muslims**	

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Codes	Course Title	Cr.Hrs.	Pre-Req.
	Third Year		
	Semester - V		
CSC 3107	Operating Systems	2,0	CSC 2102, CSCL 2102
CSCL 3107	Lab: Operating Systems	0,1	CSC 2102, CSCL 2102
AIC 3501	Artificial Neural Networks	2,0	AIC 2401, AICL 2401
AICL 3501	Lab: Artificial Neural Networks	0,1	AIC 2401, AICL 2401
AIC 3503	Machine Learning	2,0	AIC 2401, AICL 2401
AICL 3503	Lab: Machine Learning	0,1	AIC 2401, AICL 2401
AIC 3502	Knowledge Representation and Reasoning	3,0	AIC 2401, AICL 2401
AIC xxxx	AI Elective - II	3,0	-
CSC 3111	Entrepreneurship	2,0	-
	Sub-total	**17**	

	Semester - VI		
CSC 1205	Technical and Business Writing	3,0	
AIC 3605	Computer Vision	2,0	AIC 3501, AICL 3501
AICL 3605	Lab: Computer Vision	0,1	AIC 3501, AICL 3501
AIC xxxx	University Elective - I	2,0	-
CSC 3109	Software Engineering	3,0	-
AIC xxxx	AI Elective - III	3,0	-
CSC 3110	Community Service	2,0	-
	Sub-total	**16**	

Codes	Course Title	Cr.Hrs.	Pre-Req.
	Fourth Year		
	Semester - VII		
AIC 4801	Information Security	3, 0	-
CSC 4109	Professional Practices	2, 0	-
AIC 4xxx	AI Elective - IV	3, 0	-
AIC 4xxx	AI Elective - V	3, 0	-
AIC 4707	Final Year Project - I	0, 3	-
AIC 4xxx/ AIC 4xxx	AI Elective – VI/Professional Certification	3, 0	
	Sub-total	**17**	

	Semester - VIII		
AIC 4807	Final Year Project-II	0, 3	AIC 4707
AIC 4xxx	AI Elective – VII	3, 0	-
CSC 4106	Parallel and Distributed Computing	3, 0	CSC 3107, CSCL 3107
CSC xxxx	University Elective - II	2, 0	-
	Sub-total	**11**	
	Total Credit Hours	**136**	
	Total Courses	**48**	

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Two mathematics deficiency courses will be offered to students with limited mathematical backgrounds, as identified by the relevant authorities, PM/HOD.

CSC 1110 Algebraic Foundations and Applications in Computing
CSC 1111 Differential and Integral Calculus in Computing

Domain Electives

AIC 4701 Advanced Statistics
AIC 4706 Theory of Automata and Formal Languages
AIC 4802 Data Mining
AIC 4702 Deep Learning
AIC 4805 Speech Processing
AIC 4804 Reinforcements Learning
AIC 4803 Fuzzy Systems
AIC 4703 Evolutionary Computing
AIC 4705 Swarm Intelligence
AIC 4816 Agent Based Modeling
AIC 4704 Knowledge Based Systems
AIC 4814 Numerical Computing
AIC 4712 Game Artificial Intelligence
AIC 4815 Virtual and Augmented Reality
AIC 4715 Web Programming with Django
AIC 4713 Mobile Application Development
AIC 4811 Digital Image and Video Processing
AIC 4812 Generative AI
AIC 4711 Big Data Analytics
AIC 4813 HCI and Computer Graphics
AIC 4714 Natural Language Processing
AIC 4716 Embedded Systems

University Electives (2,0)

The Electives courses offered are as follows:

AIC xxxx Business and Technology Ethics
AIC xxxx Design and Creativity
AIC xxxx Introduction to Accounting
AIC xxxx Organizational Behavior
AIC xxxx Foreign Languages
AIC xxxx History of Scientific Ideas
AIC xxxx Management Principles
AIC xxxx Research Report
AIC xxxx Sociology
AIC xxxx Psychology
AIC xxxx Financial Accounting
AIC xxxx Introduction to Marketing

Distribution of Credit Hours		
Domain	**Cr. Hrs.**	**Courses**
Computing Core	**46**	**14**
Domain Core	**18**	**6**
Domain Elective	**21**	**7**
Mathematics and Supporting Courses	**12**	**4**
Elective Supporting Courses	**3**	**1**
General Education Requirement	**36**	**16**
Field Experience/ Internship	**3**	**1**
Total	**136**	**48**



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

MS Computer Science

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

The program is of 2-year duration and is offered in the evening. It requires 35 credit hours to complete. Student has the option to complete MS through course work only or with research. If student opts for course work only, he/she is required to complete 11 courses of 3 credit hours each and 2 mandatory general education courses (01 credit each). Else, the student is required to complete 9 courses (27 credit hours), 2 mandatory general education courses (01 credit each) and 2 Independent Research Study (6 credit hours) OR 1 Thesis (6 credit hours).

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

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

First Year

First Semester

CSC 5105	Research Methodology
CSC 5101	Advanced Algorithms Analysis
CSC 5102	Theory of Computation
CSC 5110	Understanding of Holy Quran-I

Second Semester

CSC 5201	Advanced Operating Systems
CSC 5202	Advanced Computer Architecture
CSC 5xxx	Elective-I (from CS Stream)
CSC 5210	Understanding of Holy Quran-II/
CSC 5205	Ethics and Morality (Non-Muslims)

Second Year

Third Semester

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

Fourth Semester

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

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

First Year

First Semester

CSC 5105	Research Methodology
CSC 5101	Advanced Algorithms Analysis
CSC 5102	Theory of Computation
CSC 5110	Understanding of Holy Quran-I

Second Semester

CSC 5201	Advanced Operating Systems
CSC 5202	Advanced Computer Architecture
SEC 5xxx	Elective-I (from SE Stream)
CSC 5210	Understanding of Holy Quran-II/
CSC 5205	Ethics and Morality (Non-Muslims)

Second Year

Third Semester

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

Fourth Semester

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

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

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

First Year

First Semester

CSC 5105	Research Methodology
CSC 5101	Advanced Algorithms Analysis
CSC 5102	Theory of Computation
CSC 5110	Understanding of Holy Quran-I

Second Semester

CSC 5201	Advanced Operating Systems
CSC 5202	Advanced Computer Architecture
NSC 5xxx	Elective-I (from N&S Stream)
CSC 5210	Understanding of Holy Quran-II/
CSC 5205	Ethics and Morality (Non-Muslims)

Second Year

Third Semester

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

Fourth Semester

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

CS-Stream

CSC 5164	Real-Time Systems
CSC 5162	Digital Image Processing
CSC 5161	Machine Learning
CSC 5163	Data Mining
CSC 5166	Operation Research
CSC 5167	Deep Learning
CSC 5264	Expert Systems
CSC 5267	Reverse Engineering
CSC 5266	Digital Forensics and Malware Analysis
CSC 5263	Advanced Resource Sharing Architecture
CSC 5262	Computer Vision
CSC 5268	Robotics
CSC 5261	Advanced Database Design
CSC 5265	Distributed Computing
CSC 5269	Systems and Network Programming
CSC 5168	Big Data Analytics
CSC 5271	Natural Language Processing
CSC 5171	Privacy and Security for AI Systems

SE-Stream

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

N&S-Stream

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

Pre-Requisites:

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

MS (CS) (In Core Computer Science)

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

MS (CS) with SE-Specialization

Programming Fundamental
Data Structures
Operating Systems
Software Engineering

MS (CS) with N&S-Specialization

Programming Fundamental
Data Structures
Operating Systems
Data Communication and Computer Networks

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

FACULTY OF SOCIAL SCIENCES

Department of Social Sciences

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

FACULTY OF SOCIAL SCIENCES

BS (International Relations)

To obtain a BS degree in International Relations, students are required to complete a total of 134 credit hours within 6 years. The degree consists of a total of 48 courses, an internship, and a Research Project / Capstone Project.

First Year

Fall Semester (1st Semester)
IR 1101 Computer and Web Skills (2,1)
IR 1102 English for General Purposes (3)
IR 1103 Ideology and Constitution of Pakistan (2)
IR 1104 Introduction to Community Development and Philanthropy (2)
IR 1105 Islamic Studies (2)*
IR 1106 Humanities (2)**
IR 1107 Understanding of Holy Quran-I (1)*
IR 2108 Introduction to International Relations (3)

Spring Semester (2nd Semester)
IR 1201 Introduction to Political Science (3)
IR 1202 Philosophy (2)
IR 1303 Fundamentals of Sociology (3)
IR 1306 Introduction to Psychology (3)
IR 1404 Introduction to Economics (3)
IR 2107 International Relations: 1648-1945 (3)

Second Year

Fall Semester (3rd Semester)
IR 2301 English for Academic Purposes (3)
IR 2302 Mathematics and Statistics (3)
IR 2305 Pakistan Studies (2)
IR 2306 Ethics and Morality (2)**
IR 2307 Understanding of Holy Quran-II (1)*
IR 2111 Theories and Approaches to International Relations (3)
IR 3104 Foreign Policy Analysis (3)
IR 3106 International Relations Since 1945 (3)

Spring Semester (4th Semester)
IR 2401 Ecology (3)
IR 2402 Entrepreneurship (2)
IR 2403 Statistical Inferences (3)
IR 2101 Comparative Politics (3)
IR 2106 International Political Economy (3)
IR 2109 Political Geography (3)

Third Year

Fall Semester (5th Semester)
IR 1402 Artificial intelligence in Social Sciences (3)
IR 2105 International Law (3)
IR 2110 Regional and International Organizations (3)
IR 3102 Conflict Resolution and Confidence Building Measures (3)
IR 3103 Diplomacy (3)
IR 3110 Strategic Studies (3)

Spring Semester (6th Semester)
IR 3601 Research Methods (3)
IR 2102 Countering Violent Extremism (3)
IR 2103 Emerging Technologies in International Relations (3)
IR 2104 Globalization and Global Governance (3)
IR 3101 Arms Control and Disarmament (3)

Summer Semester
IR 3701 Internship (3)

Fourth Year

Fall Semester (7th Semester)
IR 4805 Research Project (3) OR
IR 4806 Capstone Project (3)
IR 3107 International Security
IR 3108 Peace Studies (3)
IR 3109 Regional Connectivity and Economic Integration (3)
IR 4xxx Elective-I (3)
IR 4xxx Elective-II (3)

Spring Semester (8th Semester)
IR 4xxx Elective-III (3)
IR 4xxx Elective-IV (3)
IR 4xxx Elective-V (3)
IR 4xxx Elective-VI (3)
IR 4xxx Elective-VII (3)

*For Muslim Students
**For Non-Muslim Students

Majors
IR 2101 Comparative Politics
IR 2102 Countering Violent Extremism
IR 2103 Emerging Technologies in International Relations
IR 2104 Globalization and Global Governance
IR 2106 International Political Economy
IR 2107 International Relations: 1648-1945
IR 2108 Introduction to International Relations
IR 2109 Political Geography

FACULTY OF SOCIAL SCIENCES

IR 2110 Regional and International Organizations
IR 2111 Theories and Approaches to International Relations
IR 3101 Arms Control and Disarmament
IR 3102 Conflict Resolution and Confidence Building Measures
IR 3103 Diplomacy
IR 3104 Foreign Policy Analysis
IR 3105 International Law-II
IR 3106 International Relations Since 1945
IR 3108 Peace Studies
IR 3109 Regional Connectivity and Economic Integration
IR 3110 Strategic Studies

Electives

IR 4751 African Studies
IR 4752 Climate-Resilient Development and Adaptation Strategies
IR 4753 Critical Infrastructure and Homeland Security
IR 4754 European Studies
IR 4755 Foreign Aid: Effectiveness and Controversies
IR 4756 Geopolitical Rivalries in the Indo-Pacific Region
IR 4757 Global Politics of Climate Change
IR 4758 Great Power Rivalry in the Post-Cold War Era
IR 4759 Modern Political Ideologies
IR 4760 Nuclear Studies and Non-Proliferation
IR 4761 Politics of Terrorism
IR 4762 Regional Geopolitics of South Asia
IR 4763 Regional Studies
IR 4764 South Asian Studies
IR 4765 Terrorism Financing and Economic Impacts
IR 4766 The Political Economy of International Development
IR 4767 The Role of International Financial Institutions in Development
IR 4768 Theories of Geopolitics: Classical and Contemporary Approaches
IR 4851 Central and Western Asian Studies
IR 4852 Counterterrorism Policies and Strategies
IR 4853 Cyber Terrorism and Digital Security
IR 4854 Energy Geopolitics and Resource Wars
IR 4855 Gender and Development in Global Context
IR 4856 Geopolitics of Trans-National Transportation Corridors
IR 4857 Insurgency and Counterinsurgency: Theory and Practice
IR 4858 Middle Eastern Studies
IR 4859 North and Latin American Studies
IR 4860 Post Conflict Reconstruction and Development
IR 4861 Refugees, Migration and Development
IR 4862 Regional Geopolitics of the Middle Asia
IR 4863 State Violence and Human Rights
IR 4864 Sustainable Development Goals and Global Strategies
IR 4865 The Geopolitical Dimensions of Climate Change
IR 4866 The Role of Regional Organization in Promoting Development
IR 4867 Theories of Political Violence

Interdisciplinary Course

IR 1301 Business Ethics
IR 1302 Enlightenment
IR 1303 Fundamentals of Sociology
IR 1304 Introduction to Development Studies
IR 1305 Introduction to Programming
IR 1306 Introduction to Psychology
IR 1307 Public Policy
IR 1401 Comparative Religion
IR 1402 Artificial Intelligence in Social Sciences
IR 1403 Gender Studies
IR 1404 Introduction to Economics
IR 1405 Introduction to Indus Civilization
IR 1406 Mass, Media and Society





FACULTY OF SOCIAL SCIENCES

BS Psychology

To obtain BS degree in Psychology, students are required to complete a total of 136 credit hours within 6 years. The degree consists of a total of 49 courses (136credit hours) including internship (3 Credit Hours) and a Research Project/Capstone Project (6 Credit Hours).

First Year

Fall Semester
PSY 1102 Computer and Web Skills
PSY 1103 English for General Purposes
PSY 1107 Community Services and Philanthropy (2,0)
PSY 1108 Introduction to Social Sciences (2,0)
PSY 1105 Ideology and Constitution of Pakistan (2,0)
PSY 1104 Introduction to Psychology*
PSY 1111 Understanding of Holy Quran-I (1,0)
(Exempted for Non-Muslim Students)

Spring Semester
PSY 1205 Islamic Studies or
PSY 1206 Humanities (for Non-Muslim students) (2,0)
PSY 1213 Philosophy (2,0)
PSY 1204 History of Psychology*
PSY 1202 Contemporary Issues of Psychology*
PSY 1211 Understanding of Holy Quran-II (1,0)
(Exempted for Non-Muslim Students)
PSY 1212 Artificial intelligence in Social Sciences (3)
PSY 1215 Ethics and Morality (2)
(For Non-Muslim Students)
PSY xxxx University Elective-I/Interdisciplinary Course**

Second Year

Fall Semester
PSY 1203 English for Academic Purposes
PSY 2302 Mathematics and Statistics
PSY 2304 Social Psychology*
PSY 2303 Pakistan Studies
PSY 3110 Personality Theories*
PSY 1201 Basics of Professional Ethics in Psychology*

Spring Semester
PSY 2404 Statistical Inference
PSY 2405 Entrepreneurship (2,0)
PSY 2403 Ecology
PSY 2111 Physiological Psychology*
PSY 3116 Organizational Psychology (3,0)
PSY 2106 Educational Psychology

Third Year

Fall Semester
PSY 3502 Data Analysis
PSY 2113 Psychopathology- I*
PSY 2105 Cross Cultural Psychology*
PSY 3106 Environmental Psychology*
PSY 3108 Gender Issues in Psychology*
PSY 2107 Experimental Psychology

Spring Semester
PSY 2402 Research Methods
PSY 3113 Psychopathology-II*
PSY 2112 Psychological Testing*
PSY xxxx Program Elective-I
PSY xxxx Program Elective-II
PSY 3102 Clinical Psychology

Summer Semester
PSY 4810 Internship***

Fourth Year

Fall Semester
PSY 2104 Counseling and Psychotherapy*
PSY 2108 Forensic Psychology*
PSY xxxx Program Elective-III
PSY xxxx Program Elective-IV
PSY 2114 Sports Psychology

Spring Semester
PSY 4806 Research Project OR
PSY 4805 Capstone Project
PSY 2116 Health Psychology*
PSY xxxx Program Elective-V
PSY xxxx Program Elective-VI
PSY xxxx Program Elective-VII

*Alternate major courses can be offered from the list of major courses as per the requirement.
**Alternate University Elective / Interdisciplinary Courses can be offered as and when required.
***Internship will be effective after 3rd year of the program.

MAJORS
Psychology
PSY 2107 Experimental Psychology
PSY 3105 Developmental Psychology
PSY 2106 Educational Psychology
PSY 2111 Physiological Psychology
PSY 3110 Personality Theories
PSY 2116 Health Psychology

FACULTY OF SOCIAL SCIENCES

PSY 2112 Psychological Testing
PSY 3102 Clinical Psychology
PSY 3116 Organizational Psychology
PSY 2104 Counseling and Psychotherapy
PSY 3101 Addictive Psychology
PSY 2108 Forensic Psychology
PSY 3107 Family and Relationship Counseling
PSY 3114 Rehabilitation Psychology
PSY 3106 Environmental Psychology
PSY 2103 Community Psychology
PSY 3103 Cognitive Psychology
PSY 3112 Psychodynamic Approaches
PSY 2113 Psychopathology-I
PSY 2105 Cross cultural Psychology
PSY 2114 Sports Psychology
PSY 3113 Psychopathology-II
PSY 2115 Statistics in Psychology
PSY 2102 Clinical Internship
PSY 3111 Positive Psychology
PSY 2101 Abnormal Psychology
PSY 1104 Introduction to Psychology

PROGRAM ELECTIVES:

Organizational Psychology

PSY 4315 Marketing and Consumer Psychology
PSY 4316 Occupational Health, Safety, and Well-Being
PSY 4314 Leadership Psychology
PSY 4311 Entrepreneurship Management
PSY 4319 Workplace Psychological Assessment
PSY 4312 Human Resource Management
PSY4313 Leadership Development and Work Motivation
PSY 4318 Training and Development
PSY 4317 Organizational Behavior

Educational Psychology

PSY 4215 Theories of Educational Psychology
PSY 4211 Approaches to Learning
PSY 4212 Assessment in Educational Setting
PSY4213 Classroom Management
PSY 4214 Technology and Digital Learning

Clinical Psychology

PSY 4113 Crisis Intervention and Trauma Response: Theory and Practice
PSY 4111 Addictive Psychology
PSY 4116 Fundamentals of Psychopharmacology
PSY 4115 Fundamentals of Neuropsychology
PSY 4114 Family and relationship Counseling
PSY 4117 Psychology of Aging
PSY 4112 Clinical Psychology Approaches to Chronic Illnesses
PSY 4118 Rehabilitation Psychology

University Electives / Interdisciplinary Course:

PSY 3501 Foreign Language-1
PSY 3601 Foreign Language-II
PSY 1208 Introduction to Economics
PSY 1209 Fundamentals of Sociology
PSY 2122 Fundamentals of Development Studies
PSY 3602 International Law and Human Rights
PSY 2121 Comparative Religion
PSY 3115 Introduction to Indus Civilization
PSY 3122 Mass, Media and Society
PSY 3121 Business Ethics



ACADEMIC CALENDAR 2026-27 (Hyderabad Campus)

ACADEMIC CALENDAR 2026-27 (Hyderabad Campus)

FALL 2026

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 : August 15, 2026

ACADEMIC CALENDAR 2026-27 (Hyderabad Campus)

ACADEMIC CALENDAR 2026-27 (Hyderabad Campus)

SPRING 2027

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 : January 16, 2027

CAMPUS WISE PROGRAMS OFFERING (FALL 2026-27)

PROGRAMS OFFERING AT DIFFERENT CAMPUSES OF SZABIST (FALL 2026-27)

S.No.#	PROGRAMS	KARACHI	ISLAMABAD	LARKANA	HYDERABAD	GHARO
1	Bachelor of Business Administration (BBA)	✓	✓	✓	✓	✓
2	Bachelor of Business Administration (BBA) 2.5 Years			✓		✓
3	Bachelor of Arts in Business Studies (BABS)	✓				
4	BS Accounting & Finance (BSAF)	✓	✓	✓	✓	
5	BS (Accounting & Finance) 2.5 Years for ICAP/CAF Qualified	✓	✓			
6	BS Entrepreneurship (BS ENTRE)	✓				
7	BS Computer Science (BSCS)	✓	✓	✓	✓	✓
8	BS Artificial Intelligence (BSAI)	✓	✓		✓	
9	BS Software Engineering (BSSE)	✓	✓	✓	✓	
10	Bachelor of Media Science (BMS)	✓	✓			
11	Bachelor of Education (B.Ed 4 years)	✓				
12	BS Educaiton	✓				
13	BS (International Relations)	✓	✓		✓	
14	BS (Economics with Data Science)	✓	✓			
15	BS (Development Studies)	✓				
16	BS (Sociology)	✓	✓			
17	BS Psychology	✓	✓	✓	✓	
18	BS English	✓				
19	BS Business Analytics	✓	✓	✓		✓
20	BE Mechatronic Engineering (BEME)	✓				
21	BS Autonomous Systems and Artificial Intelligence	✓				
22	BS Biotechnology (BS Biotech)	✓				
23	BS Food Science & Technology (BSFT)	✓				
24	BS Computational Biology with Artificial Intelligence (BSBSAI)	✓				
25	BS Nutrition and Dietetics (BSND)	✓				
26	BS Public Health (BSPH)	✓				
27	Bachelor of Law (LLB)	✓				
28	Certificate of Higher Education in Common Law (CertHE)	✓				
29	CILT (UK) Level 5 Professional Diploma in Logistic & Transport		✓			
30	Bachelor of Education (B.Ed 1.5 Years)	✓				
31	Master in Business Administration (MBA)	✓	✓	✓	✓	✓
32	Executive MBA (EMBA)		✓			
33	Masters in Project Management (MPM)	✓	✓	✓		✓
34	Professional MBA		✓			
35	Masters in Human Resource Management		✓			
36	Master of Advertising (MoA)	✓				
37	MS Public Health (MSPH)	✓				
38	MS Biosciences (MS Bio)	✓				
39	MS Biotechnology (MS Biotech)	✓				
40	MS Computer Science (MSCS)	✓	✓		✓	✓
41	MS (CS) with specialization in Core Computing	✓	✓		✓	
42	MS (CS) with specialization in Software Engineering	✓	✓		✓	
43	MS (CS) with specialization in Networks & Security	✓	✓		✓	
44	MS Cyber Security (MSCYS)	✓	✓			
45	MS Media Science (MSMD)		✓			
46	MS Management Science (MSMS)	✓	✓	✓	✓	
47	MS (Business Analytics)		✓			
48	MS Developmental Studies		✓			
49	MS Data Sciences (MSDS)	✓	✓			
50	MPhil Education	✓		✓		
51	MS Project Management (MSPM)	✓	✓			
52	MS in Finance & Economics (MSFE)	✓				
53	MS Social Sciences (MSSS)	✓	✓			
54	MS (SS) with specialization in Economics	✓	✓			
55	MS (SS) with specialization in Psychology	✓				
56	MS (SS) with specialization in Sociology	✓	✓			
57	MS (SS) with specialization in International Relations	✓				
58	MS International Relations (MSIR)		✓			
59	MS Clinical Psychology		✓			
60	MS Sociology					
61	PhD Social Sciences (PhDSS)	✓				
62	PhD (SS) with specialization in Economics	✓				
63	PhD (SS) with specialization in Psychology	✓				
64	PhD (SS) with specialization in Sociology	✓				
65	PhD (SS) with specialization in International Relations	✓				
66	PhD Psychology		✓			
67	PhD Computing	✓	✓			
68	PhD Management Sciences	✓	✓	✓	✓	
69	PhD Biosciences	✓				
70	PhD Educational Leadership and Management	✓		✓		
		58	37	13	14	7

We just Don't Work Hard
We Work Smart

Disclaimer
This prospectus is only informational and should not be taken as binding on the institute. The institute, therefore, reserves the right to change any rule, regulation and guideline applicable to the program and the student whenever it is deemed appropriate or necessary, and it will be binding on all continuing and new students for all programs at all campuses.

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



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



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





SZABIST HYDERABAD CAMPUS
Ground, 2nd , 3rd , 4th & 8th floor,
State Life Building,
Thandi Sarak, Hyderabad
Phone # 92-22-2782442-43,
Fax # 92-22-2782444
www.hyd.szabist.edu.pk
Email: info@hyd.szabist.edu.pk



SZABIST GHARO CAMPUS
Main National Highway, Filter Plant,
Gharo, Thatta, Tel # 0331-9224771-72-79.
www.ghr.szabist.edu.pk/ .
Email: info@ghr.szabist.edu.pk



SZABIST DUBAI CAMPUS
6th Floor, Block-10, Dubai International
Academic City, Dubai, U.A.E
P.O Box No: 345004,
Phone: +97143664601,
WhatsApp No: +971529708745
Fax: +971 4 3664607
Email: info@szabist.ac.ae,
www.szabist.ac.ae

@SzabistHyderabadOfficial @szabisthydcampus @szabisthyderabadcampus szabisthyderabadcampus hyd.szabist.edu.pk

Shaheed Zulfikar Ali Bhutto Institute of Science & Technology University