

Discover Yourself



SZABIST
UNIVERSITY
Hyderabad Campus

PROSPECTUS 2025-26



**We just Don't Work Hard
We Work Smart**

SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY

THE VISION

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

THE MISSION

SZABIST is committed to produce highly qualified professionals to:

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

CONTENTS

INTRODUCTION

01

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

LIFE AT SZABIST

09

Video Conferencing
Conferences/Forums/Seminars/Guest Lectures
Professional Development Courses
Classrooms/Labs/Libraries
Research Committee (RC)
Board of Advanced Studies and Research (BASR)
Academic Council
Office of Research Innovation and Commercialization (ORIC)
Data Center
SZABIST Student Council (SSC) & Student Societies
SZABIST Student Career Services & Alumni Relations
Jobs and Internships
ZABSolutions
National and International Linkages and Collaborations

FACULTY OF MANAGEMENT SCIENCES

21

Bachelor of Business Administration (BBA)
BS Accounting & Finance (BS A&F)
Master of Business Administration (MBA)
MS Management Sciences (MS MS)
PhD Management Sciences (PhD MS)

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

37

BS Computer Science (BS CS)
BS Software Engineering (BS SE)
BS Artificial Intelligence (BS AI)
MS Computer Science (MS CS)

FACULTY OF EDUCATION & SOCIAL SCIENCES

51

BS Social Sciences (BS SS)

ACADEMIC CALENDAR 2024-25

55

Fall 2025
Spring 2026

CAMPUS WISE PROGRAMS OFFERING

57

Programs Offering at Different Campuses of SZABIST

SHAHEED ZULFIKAR ALI BHUTTO



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

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

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

SHAHEED MOHTARMA BENAZIR BHUTTO



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

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

Reconciliation: Islam, Democracy and the West, 2008.

CHANCELLOR'S MESSAGE



I welcome you to join the Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) 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, Computer, Social and Media Sciences, Mechatronic Engineering, Biosciences, Education, Public Health and Law. The curriculum of each traditional and emerging program is approved by the Higher Education Commission (HEC), Pakistan and is taught by highly qualified and competent faculty members.

To achieve the mission of our founding Chancellor Shaheed Mohtarma Benazir Bhutto of providing opportunity for high quality tertiary education and research to the youth of Pakistan, SZABIST University has a presence in Karachi, Islamabad, Larkana, Hyderabad, Ghara 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. A "Graduate Research" is also being established to fulfill emerging research and academic requirements.

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

The motto of SZABIST 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

PRESIDENT'S MESSAGE



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

Over the past 30 years, SZABIST's national and international market reputation has been significantly enhanced. This is evident from the increased enrollment of about 19,500 students in its six Campuses-Karachi, Larkana, Hyderabad, Islamabad, Ghara and Dubai (UAE).

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

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

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

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

Shahnaz Wazir Ali
President
SZABIST University

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 & Ghara). 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
Vice President (Academics)
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

VICE PRESIDENT'S (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, Ghara 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 2025 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

INTRODUCTION

SZABIST University is proud to offer quality education in the areas that are crucial for Pakistan's socio-economic 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 19,500. Collectively, approximately 36,000 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 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 57 for details.

Bachelor of Business Administration (BBA)

SZABIST offers a four-year (eight semesters) BBA degree program of 146 credit hours (An Additional 02 Credit Hours for Muslim Students). This is SZABIST's flagship program. For the BBA program, students are required to complete 49 courses and 03 credit hours Business Project, a 02 credit hours Community Service Project and 03 credit hours Graded Internship. The students will take 4 Program Electives courses from Management, Marketing, Finance, Business Analytics, or Supply Chain Management. 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 time limit for degree completion is six years, offering flexibility to learners. The BBA program is accredited by the ACCA and the National Business Education Accreditation Council (NBEAC) and is also affiliated with the Chartered Financial Analyst (CFA) Institute.

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

SZABIST offers a 4-year (8 semesters) Bachelor of Science in Accounting & Finance (BS A&F) degree program of 146 credit hours, (additional two courses with one Credit Hour each for Muslim Students). students are required to complete 50 courses, a 3 credit hours Capstone Project, and 3 credit hours graded internship. The maximum time limit to complete the degree program is six years. Students 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 affiliated with the Chartered Financial Analyst (CFA) Institute.

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 47 courses (five courses per semester), totaling 132 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)

The BS Software Engineering program at SZABIST is a full-time four-year degree program comprising eight semesters with minimum of 130 credit hours. The degree program is designed around a set of courses pertaining to the principles of software analysis, design, architecture, development, testing, and maintenance techniques that are necessary to produce high-quality software systems. Some additional courses from the disciplines of Computer Science, Mathematics, Management Science, and Humanities are part of the degree program to develop a broader knowledge base of the students. The BS Software Engineering program is offered through a trained foreign qualified faculty. It consists of 47 courses with a total of 132 credits hours. 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 Computer Science. This comprehensive four-year program encompasses a total of 47 courses, amounting to 132 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 courses, 18 credit hours of Domain Core courses, 21 credit hours of Domain Electives, 12 credit hours of

PROGRAMS & CURRICULA

Mathematics and Supporting courses, 3 credit hours of Elective Supporting courses, and 32 credit hours of General Education Requirement courses. The maximum duration of the program is six years.

Bachelor of Science in Social Sciences (BSSS)

SZABIST offers a four-year (eight semesters) BSSS degree in Economics Sociology, Development Studies, Economics and International Relations. BS Program is essentially day program and consists of 48 courses (six courses per semester) including Internship and a Research Project (I&II) with a total of 146 credit hours. The maximum time limit to complete the BS degree is six years.

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 degree Program is four 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 72 credit hours, consisting of 22 courses (66 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 36 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)

SZABIST offers MSMS degree with concentration in the specialized areas of Human Resource Management, Marketing, Finance and Business Analytics. The MS program is an evening program and all classes are held during week days. There are two streams available for MS. One Stream is by Course Work and other one is by Research Work. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In Research Work Stream, the student is required to complete 8 Courses and Two IRS OR one Thesis. In both the streams, 30 credit hours are to be completed. Muslim students are also required to complete two 1-credit hour courses—Understanding of Holy Quran I & II – bringing the total credit hours to 32. These courses are integrated into the program structure without extending its duration. The time limit to earn an MS degree is from 1.5 to 4 years. As per HEC guidelines, all MS students are required to clear GAT General test or HAT relevant with minimum 50% score.

Master of Science in Computer Science (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 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

PROGRAMS & CURRICULA

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	



PROGRAMS & CURRICULA

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

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

For Masters Programs

50% score of GMAT for Master Programs.

For MS Programs

GAT (General)/HAT relevant with minimum 50% score.
GRE (General) with a minimum cumulative score of 300.

For PhD Programs

GAT (Subject) with minimum 60% score or SZABIST's own GAT Subject test. GRE (Subject) with minimum score of 640 would be required.

ADMISSION REQUIREMENTS

Transfer Policies

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

Bachelor Course Transfer

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

MBA Course Transfer

- A maximum of up to 6 credits may be considered for transfer into the MBA 36 credit hours program. Research Project/Thesis is not transferable.
- A maximum of up to 36 credits may be considered for transfer into the MBA 72 credit hours program. Research Project/Thesis is not transferable.
- Only relevant courses of the EMBA (SZABIST) program are transferable into the regular MBA program subject to the eligibility criteria of the MBA program at SZABIST.

MS Course Transfer

Maximum 50% of course work may be transferred which was done within the last two years from the date of admission subject to fulfilling minimum CGPA and other requirements.

PhD Course Transfer

Maximum 50% of course work may be transferred which was done within the last one year from the date of admission subject to fulfilling minimum CGPA and other requirements.

SZABIST Inter-Campus Transfer

For inter-campus transfer, the candidate must fulfill the admission requirements of the given program at the local campus as per applicable transfer policy.

All courses/grades are transferable. A transfer fee will be payable by students transferring from any other SZABIST campus.

Certificate Course Transfer

For transfer candidates from the SZABIST Certificate Programs, transferability of certificate courses is as follows:

- Maximum 05 courses are transferable in under graduate program.

- 2/3 courses are transferable in Masters program except for MS or equivalent.
- For MS, Maximum 2 Certificate Courses may be transferred which were done within the two years from the date of admission subject to fulfilling minimum CGPA and other requirements.
- For PhD, Maximum 2 Certificate Courses may be transferred which were done within the last one year from the date of admission subject to fulfilling minimum CGPA and other requirements.

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

The minimum letter grade of Certificate courses from SZABIST which are transferable to regular degree program: for all master's program except for MS, C+ and above and for bachelor's programs C and above. For MS Programs: Equivalent courses with Grade Point of 2.75 (B-) and above for SZABIST Students; and 70% or above marks for external students. For PhD Programs: Equivalent courses with Grade point of 3.00 (B) and above for SZABIST Students; and 80% or above marks for external students.

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

Financial Assistance

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

- SZABIST Merit-Based Scholarship
- SZABIST Need-Based Scholarship
- General Subsidy
- Sindh Police Shaheed Scholarship
- SZABIST Employee Children Fee Concession
- SZABIST Employee Continuing Education Scholarship
- Sindh Education Endowment Fund Scholarship
- Baluchistan Education Endowment Fund Scholarship
- 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

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, Ghara, and Karachi Campuses as well as in conducting seminars, lectures and presentations with foreign universities. Video Conferencing has been the most effective mode at SZABIST in bringing in live and interactive guest lecturers from national and international experts. Video Conferencing technology opens the door to exciting and valuable learning experiences. By allowing access to and interaction with resources that might have otherwise been too inconvenient or expensive, Video Conferencing ensures a highly enriched learning environment. By taking the lead in opening this field in educational practices, SZABIST also lead in creating the most advantageous nexus between cutting-edge technology and effective learning.

Conferences/Forums/Seminars/Guest Lectures

To increase awareness and understanding of information technology and business-related issues, many conferences, forums, seminars and guest lectures are organized regularly. These seminars and lectures are in continuation of 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/Labs/Libraries

Classroom sessions at SZABIST are quite different from other professional university setups. Teachers pay individual attention to the limited number of candidates selected purely on merit. Instructors encourage participation instead of a monologue. Students utilize various visual aids for presentations and are always on alert because of the regular unannounced quizzes, assignments and the mid-term exams. All classrooms are air-conditioned and are equipped with multimedia projectors, wall mounted screens and white boards. All classrooms are equipped with computers along with broadband intranet and internet connectivity with electricity backup through UPS.

SZABIST'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 12th-generation high-performance computers designed to facilitate intensive computational tasks.

Additionally, SZABIST has inaugurated a sophisticated Smart Lab furnished with high-end 12th-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

LIFE AT SZABIST

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.

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 (CER) and the Sustainable Development Research Centre (SDRC), each with its own dedicated library for reference and 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. All sorts of participations in national and international conferences by the faculty & staff are approved by the RC. This may also propose a change in research policy for the university to BASR.

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.

Board of Advanced Studies and Research (BASR)

The objective of BASR is to facilitate and monitor Academic Research at MS and Ph.D. levels and to regulate policies related to Research Publications. The BASR discusses and approves or disapproves the recommendations forwarded by Doctoral and Research Committees across all campuses of SZABIST University. The board proposes by-laws and policies regarding MS & PhD programs and the initiation, execution, and award of research degrees. It also provides approvals on the appointments of supervisors for MS and PhD research students and endorses titles and synopses for the theses or dissertations. The decisions taken in BASR are ratified in the Academic Council.

The frequency of BASR's meetings is twice a year. BASR's meetings are chaired by the Vice President Academics and its secretary is the Registrar. The members of BASR include Deans, HoCs, HoDs and External experts from academia or industry.

Academic Council

The Academic Council is the highest academic statutory body of SZABIST University. The Council is empowered to approve or disapprove any agenda item forwarded through a due process to it. The agenda items are generally related to introduction of new program, changes in existing program structure, introduction of new courses, revision in course outlines, policy framework related to entry and exit of students and policy matters pertaining to research and development. The agenda items are first prepared at the departmental level and presented in the Board of Studies (BOS) meetings, chaired by the HODs (Head of Departments). All departments at all campuses conduct similar meetings at their respective campuses. Item approved by BOS across all campuses are forwarded to the relevant Dean, who compiles all BOS meeting's agenda and circulates the same to relevant departments under him/her.

Agenda items are thoroughly deliberated at this level. All HODs across campuses and their designated BOF members attend the BOF meetings, which are chaired by the relevant Deans. BOF meetings include some external members from academia and industries as well. The approved items from all BOF meetings are forwarded to the Registrar through Vice President (Academics). The registrar is the secretary of the Academic Council (AC), who compiles all the BOF-forwarded agenda items at one place and circulates it to all the members of the Academic Council. If the agenda items are related to Research work or research related policies, these are included for discussion in the Board of Advanced Study and Research (BASR) meetings. BASR agenda booklet also include the approved items of Doctoral Committee (DC) and Research Committee (RC).

LIFE AT SZABIST

The frequency of AC and BASR meetings is twice a year. AC meetings is chaired by the President and Co-chaired by Vice President Academics. BASR meetings are chaired by the Vice President Academics. The members of AC & BASR include Deans, Registrar, HoCs, HoDs and external experts from academia and industry.

Office of Research Innovation and Commercialization (ORIC)

ORIC is an academic support department in Shaheed Zulfiqar Ali Bhutto Institute of Science & Technology (SZABIST) that provides comprehensive services for research innovation and commercialization. It serve as a bridge in between multiple faculties of SZABIST and produces quality research Office of Research Innovation and Commercialization (ORIC).

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

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

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

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

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

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

Moreover, ORIC also invest in capacity development of the

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

WHY ORIC

In recent millennium, global knowledge economy has strengthened the need for strategic partnerships that go beyond their traditional roles as collaborators. World-class research universities are at the forefront of pioneering such partnerships. They are intended to run longer, invest more, look beyond and sharpen the competitiveness of industries, universities and regions.

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

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

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

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

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

- Managing applied research, innovation and commercialization activities within the universities through industrial collaboration;
- Intellectual Property Commercialization through documentation, evaluation, protection, marketing, licensing and royalties agreements;
- Partnership with national / foreign universities, government departments, and

LIFE AT SZABIST

- non-government organizations for reports, publication, contracts and consultancies;
- Participate in government programs and in securing funding for research from public and private sector;
 - Organizing training, workshop, seminars, focus group discussions for maintaining academia - industry linkage as well as capacity development;
 - Help final year students through startups and joint ventures.
 - Managing functions of Business Incubation Centre by empowering entrepreneurs with the mentorship, training and access to capital assistance.

ORIC IN 2024 - 25

ORIC SZABIST secured X category (64 Marks) in HEC evaluation 2023-24, which is leading towards research intensive university and bidding global research projects and collaboration.

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

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

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

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

ORIC SZABIST has completed its half journey for academic session 2023-24 and achieved the target of Research Excellence through: competitive grant management, coordination & networking, policy advocacy, case studies and civic engagement events. Similarly, ORIC is promoting Innovation &

Commercialization activities through: IP legislation, IP linkages, networking & coordination, and commercialization activities.

ORIC SZABIST contesting several national and international research projects such as IBRO Rising Star Award. Higher Education Commission (HEC) supported grants NRPU.

ORIC helped inter-departmental intellectual property claims and facilitated their submission to IPO Pakistan. It is actively engaged in industry-academia linkages and periodically invites successful businesspeople to share their success stories with the students. ORIC also hosted mentoring and collaboration activities within different departments of the university and provided its assistance to develop strategic relationships with government, donors, and the private sector. It played a pivotal role and contributed to the success of ZAB E FEST, a yearly showcasing event of the university, and provided seed money assistance to the potential FYPs.

National Grassroots ICT Research Initiative (NGIRI) ORIC-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.

In the first round of FYP funding for the current year SZABIST University received 1.084 Million rupees funding from Ignite NGIRI out of which SZABIST Karachi campus share is Rs.767,533/-

Moreover, Final Year Projects (FYPs) from SZABIST University have actively participated in various startup showcasing events hosted by universities across Pakistan, consistently demonstrating innovation and excellence. These projects have not only represented the institution with pride but have also achieved remarkable positions at competitive platforms.

A remarkable achievement of SZABIST University was witnessed in this year, when a Final Year Project from the Department of Computer Science secured second place at the prestigious All Pakistan Cyber-Security Hackathon, hosted by Ignite at PC Hotel Karachi. This national-level competition brought together the brightest minds in cybersecurity, and the SZABIST team’s outstanding performance reflects the university’s

LIFE AT SZABIST

commitment to academic excellence, innovation, and real-world impact.

SZABIST Entrepreneurial Nest (ZEN)

SZABIST Entrepreneurial Nest (a Business Incubation Centre) has been established at SZABIST University to provide A complete Startup Ecosystem with Acceleration+, operating under the Office of Research, Innovation & Commercialization (ORIC). ZEN empowers students, alumni and faculty to transform their entrepreneurial dreams into thriving startups.

Our Aim

To foster a vibrant startup ecosystem by:

- Equipping entrepreneurs with mentorship, funding, training, and workspaces
- Encouraging innovation in FinTech, Agri-Tech, Bio-Tech, EdTech, and more
- Promoting inclusive, green and export-led growth through tech innovation

Our first cohort delivered standout ventures that exemplified resilience, creativity, and impact. Their stories are a testament to ZEN's purpose — building startups that matter. Our Star Performers are HaminoX, Acebot, SurveyPay from COHORT I. More than 10 mentoring & Training Sessions concluded with industry experts and entrepreneurs.

ZEN COHORT II was launched with the aim of attracting the next wave of innovative minds. Engagements were carried out to create awareness and registrations via participation in Startup Weekend by FMS, arranging an Open House and presence at Job Fair 2024, showcasing ZEN to industry leaders and employers.

WHY ZEN

A complete Startup Ecosystem with Acceleration+

- Financial Assistance Up to PKR 200,000
- Workstation & Incubation Space
- Training and Coaching session
- Connecting with Mentors & Industry Experts
- Support in Drafting Financial Models
- Guidance & Legal Assistance
- Support in Corporate Registration & IP
- Guidance in Prototype Development
- Pitch Deck Support
- Access to funding & Grants
- Investors Outreach
- Networking Opportunities

ZEN is more than just a business incubator - it's a launchpad for our dreams. Whether you're an innovator,

researcher or visionary - there's a place for you here.

Linkages & Commercialization at SZABIST University

The Office of Research, Innovation and Commercialization (ORIC) at SZABIST University plays a vital role in bridging the gap between academia and industry. Through proactive collaborations, product innovation, and commercialization efforts, ORIC transforms cutting-edge research into scalable real-world solutions. These initiatives align with the United Nations Sustainable Development Goals (SDGs), particularly SDG 9 (Industry, Innovation and Infrastructure), SDG 12 (Responsible Consumption and Production), and SDG 17 (Partnerships for the Goals).

Innovation & Commercialization for the Year 2024–25 Top Performer at the 4th Sindh Research & Technology Showcase 2025: SZABIST led all private universities with 65 innovative projects and 16 stalls, initiating post-event commercialization discussions for high impact technologies.

Startup Recognition & Competitions

- AceBot and Next Gen CNC Machine ranked in Pakistan's Top 50 Startups at Teknofest 2024.
- Next Gen CNC Machines secured 2nd position in Industry 4.0 at IEEE Exhibition.
- HaminoX was listed among the Top 5 Agri-Startups at ICSAP 2024.
- SZABIST achieved 2nd place at the Cybersecurity Hackathon 2024 by IGNITE.

ZAB-E-FEST 2024: Innovation in Action

Over 150 inter-university projects showcased; 24 SZABIST projects received seed funding and chance for commercialization, with active mentoring by top industry leaders.

Flagship Product Innovations

HaloPLAST – A patented, biodegradable plastic alternative made from salt-tolerant plants, offering superior tensile strength and cost-efficiency. Recognized by Shell Tameer, PM Innovation Award, and more.

HaminoX – An organic bio-fertilizer produced from recycled human hair through hydrolysis, improving soil quality and supporting Pakistan's transition to circular agriculture.

AceBot – The country's first AI-powered table tennis robot, locally developed with programmable features to enhance athletic training at all skill levels.

LIFE AT SZABIST

SurveyPay – A digital platform transforming survey data collection through real-time analytics and incentivized participation, bridging researchers with reliable respondents.

Training & Enablement

ORIC hosted key seminars on IP protection, problem-solving, and innovation in tourism. A legal enablement session for incubatees improved understanding of IP, SECP procedures, and startup readiness. For further information and collaboration, contact manager.iltt@szabist.edu.pk

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

Data Centre

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

Computing Resources

Computing resources of the data center is comprising of 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

LIFE AT SZABIST

structure to student activities at the institute. The Student Advisory Office and the Executive Development Centre (EDC) work under the SSS.

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

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

The Student Support Services has an Office of Student Advisory and the 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, Karachi. 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 2015, the SSC has been a union of hardworking, ambitious and talented individuals across all programs of SZABIST elected under the Election Commission of SZABIST. The selection of SSC workforce is by means of rigorous process all on an annual basis to form the student government at the institute, under the supervision of the Student Affairs Advisor.

SSC aims at helping to explore the talents of all students whilst, along with playing an intermediary role between the administration and student body at large, working towards adding value to student life at SZABIST. Moreover, it organizes and hosts seasonal entertainment events to encourage networking among students, staff members and the faculty. Along with entertainment, has history of organizing

What does SZABIST Student Council (SSC) do?

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

To offer a vibrant and healthy student environment at SZABIST, the SSC also arranges the Ignite: Campus Connect to welcome the new students, Recreational Trips, Musical Concerts, LEARNFEST, Mental Health Awareness Series, Corporate Finesse Week, Graduation Week and many more other entertaining events.

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

Structure of SSC

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

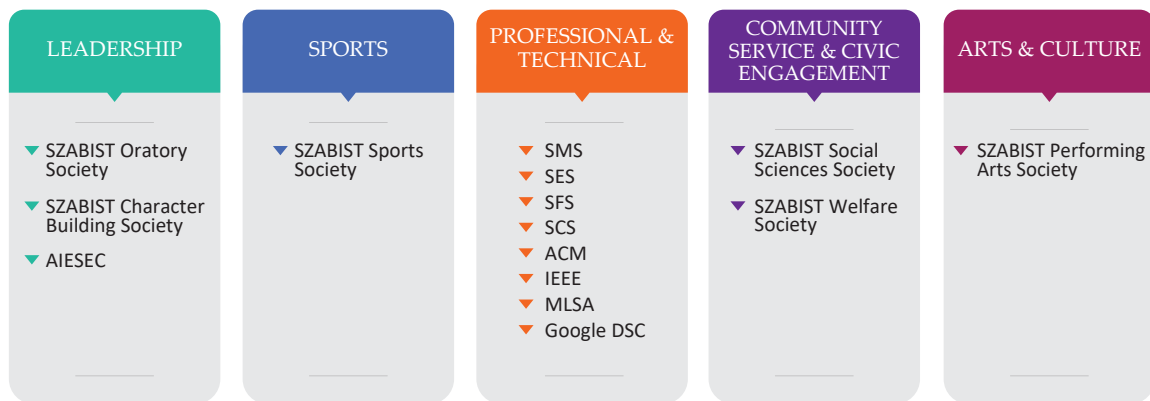
LIFE AT SZABIST

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 student society offers engaging events and programs for the

students at SZABIST. The events include Farewell Dinner and Alumni Reunions, Graduation Week, Recreational Trips, Learnfest and Mental Health Awareness Series from the Student Council. SZABIST Cricket League, Sportsfest & Interdepartmental Tournaments from the Sports Society, Ignite: Campus Connect from the Performing Arts Society, Educational Study Tours from Social Sciences Society, Startup Extravaganza from the Entrepreneurial Society and Retail Extravaganza from the Marketing Society. ZABWELFARE arranged Medical Facilitation Camps and various donation drives (food commodities, clothes and tents) for the Flood Affectees, Blood Donation Drives for Thalassemia Patients and Plantation Drives.



LIFE AT SZABIST

SZABIST Student Career Services & Alumni Relations

The office of Career Services and Alumni Relations work simultaneously to facilitate graduating students and Alumni, the core responsibility is to help graduating students and alumni to launch and build their careers as public service leaders.

SZABIST Student Career Services (SCS)

Student Career Services at SZABIST University Hyderabad campus facilitates students in completing their degree requirements, professional development, and job/internship placements.

Throughout academic tenure, the students are encouraged to attend customized trainings, personal development programs, webinars, corporate workshops, mock interviews and presentations by industry experts who share their experiences to help them understand the transition from campus to the corporate world.

The Office has developed a comprehensive and diverse program to ensure that students have a seamless transition from university life to the professional world as per their individual interests and aspirations.

Student Career Services compiles graduating students' profiles and publishes the annual graduate directory in order to provide SZABIST graduates to credible organizations.

Job & Internship Placements

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

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

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

Eligibility for Internship

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

Alumni Relations

The Alumni Relations Department at SZABIST University Hyderabad Campus plays a central role in fostering and maintaining strong connections between the university and its graduates. Committed to building a lifelong relationship with alumni, the department organizes various events, reunions, and networking opportunities to facilitate interactions among former students. Through these initiatives, the department aims to keep alumni informed about the university's developments, achievements, and ongoing projects. Additionally, the Alumni Relations Department actively seeks feedback from graduates to enhance the quality of education and services provided by SZABIST. A body with a name SZABIST Alumni Global Association (SAGA) is there to build strong bond with alumni. The vision of SAGA is "To empower the SZABIST Alumni for exploring new avenues and expanding knowledge for continuing their journey of self-discovery". By nurturing a sense of pride and belonging among alumni, the department contributes to the overall growth and reputation of the university, ensuring that graduates remain integral members of the SZABIST community long after their academic journey concludes.



LIFE AT SZABIST

ZABSolutions

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

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

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

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

National and International Linkages and Collaborations

SZABIST is a registered member of the following international and national associations:

1. International Association of Universities (IAU), Paris
2. The Association to Advance Collegiate School of Business (AACSB), Singapore
3. Asia-Pacific Quality Network (APQN), People's Republic of China
4. The Talloires Network, USA
5. The Chartered Institute of Logistics and Transport (CILT), UK
6. Management Association of Pakistan (MAP), Karachi
7. Marketing Association of Pakistan (MAP), Karachi

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

1. **Association of Chartered Certified Accountants ACCA, UK**

The MoU will provide exemption from ACCA papers to

Bachelors of Business Administration and BS Accounting & Finance courses.

2. Balochistan Education Endowment Fund Scholarship, Pakistan

Under this MoU Government of Balochistan will be

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

3. CISCO Networking Academy

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

4. Coventry University, UK

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

5. Greenstar Social Marketing Limited (GSM), Pakistan

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

6. Ihsan Trust, Meezan Bank Pakistan

The MoU with Ihsan Trust is aimed at provision of Qarz-e-Hasna (Interest-free Loan) facility up to 50 % of tuition fee to SZABIST students.

7. Integration Xperts (Private) Limited, Pakistan

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

8. Sindh Integrated Emergency and Health Services (SIEHS)

SIEHS and SZABIST University have joined hands to promote research, public awareness, capacity building, and student engagement in the field of emergency and health services.

9. Mitsubishi Corporation, Japan

Mitsubishi Corporation through this MoU would be Awarding scholarships to students enrolled in BSMS and BBA.

LIFE AT SZABIST

10. NOWPDP

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

11. EDUFI Financial Services Private Limited

SZABIST University has partnered with EDUFI Financial Services for education 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.

12. OPEN Organization of Pakistani Entrepreneurs of North America

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

13. Orange Tree Foundation OTF, Pakistan

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

14. Sindh Police Shaheed Scholarship

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

15. Tabbā Kidney Institute

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

16. The Citizen Foundation, TCF Pakistan

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

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

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

18. University of London, UK

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

19. CIMA

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

20. National Clearing Company of Pakistan Limited (NCCPL)

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

21. Pathfinder

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

22. Health Services Academy

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

23. Afzaal Memorial Thalassemia Foundation (AMTF)

SZABIST BABS Program will help the AMTF to conduct Blood Drives annually, for which all the resources will be

LIFE AT SZABIST

arranged by AMTF. The Blood collected through Blood Drive will be used for the treatment of Thalassemia Patients.

24. Indus Hospital & Health Network (IHHN)

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

25. The Hunar Foundation (THF)

An understanding is developed with The Hunar Foundation (THF) to be a CSR Partner for the BS Entrepreneurship Program. SZABIST BS Entrepreneurship Program students will facilitate THF in raising funds through fund-raising activities. THF may assign capstone projects to SZABIST Faculty of Management Science students in the areas of marketing, policy matters, research, and any other area. THF will participate in Job Fairs and Recruitment Drives of SZABIST.

26. GETZ Pharma & BIDE

GETZ Pharma, BIDE, and SZABIST joined hands to foster a culture of collaboration to improve healthcare indicators in Pakistan. It will allow experienced physicians, researchers, and students at BIDE and SZABIST in scientific research to generate valuable insights into the areas of NDCs, particularly Diabetes. The three patrons will also engage in activities centered on the capacity building of healthcare providers.

27. FPCCI

FPCCI will effectively and professionally support SZABIST in its efforts to establish academic and research systems for addressing the challenges of national industry in terms of existing, emerging and future technologies.

28. Social, Entrepreneurship, and Equity Development (SEED) Ventures

Seed Ventures and SZABIST University will collaborate to conduct an entrepreneurship program aimed at fostering entrepreneurial skills and innovation.





FACULTY OF MANAGEMENT SCIENCES

VISION

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

MISSION

SZABIST Faculty of Management Sciences is committed to:

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



FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST offers a four-year (eight semesters) BBA degree program of 146 credit hours (An Additional 02 Credit Hours for Muslim Students). This is SZABIST's flagship program. For the BBA program, students are required to complete 49 courses and 03 credit hours Business Project, a 02 credit hours Community Service Project and 03 credit hours Graded Internship. The students will take 4 Program Electives courses from Management, Marketing, Finance, Business Analytics, IT or Supply Chain Management. 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 time limit for degree completion is six years, offering flexibility to learners. The BBA program is accredited by the ACCA and the National Business Education Accreditation Council (NBEAC) and is also affiliated with the Chartered Financial Analyst (CFA) Institute.

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 1122	Islamic Studies / Humanities***	2, 0	2	-
	BA 2313	Sociology***	2, 0	2	-
	BA 1215	Ideology and Constitution of Pakistan***	2, 0	2	-
	BA 1120	Understanding of Holy Quran-I (1,0)	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 1206
	BA 1204	Maths for Business	3, 0	3	-
	BA 2403	Business Ethics	3, 0	3	BA 1203
	BA 2312	Human Behavior	3, 0	3	-
			18		
Second Year					
Fall Semester					
	BA 1201	Financial Accounting	3, 0	3	BA 1101
	BA 1211	Logic and Critical Thinking	3, 0	3	BA 1105
	BA 3504	Organizational Behavior	3, 0	3	BA 2312
	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		

FACULTY OF MANAGEMENT SCIENCES

Spring Semester				
BA 2311	Business Statistics	3, 0	3	BA1204
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 2415	Community Service Project***	2, 0	2	-
BA 2418	Pakistan Studies***	2, 0	2	-
BA xxxx	Understanding of Holy Quran-II	1, 0	1	-
		19		

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 3605	Statistical Inference	3, 0	3	BA 2311
BA 4706	Development Economics	3, 0	3	BA 1202
BA 2301	Introduction to Business Finance	3, 0	3	BA 1201
BA xxxx	University Elective (as offered by Campus)	3, 0	3	-
		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 3605
BA 3607	Operations Management	3, 0	3	BA 1203
BA 4804	Human Resource Management	3, 0	3	BA 3504
BA 3630	Internship/Field Experience**	3, 0	3	-
		18		

Fourth Year				
Fall Semester				
BA 2402	Retail Management	3, 0	3	BA 2303
BA 3609	Pakistan Economy	3, 0	3	BA 4706
BA 4705	Services Marketing	3, 0	3	BA 3602
BA 4704	Management Information Systems	3, 0	3	BA 1108
BA 4xxx	Program Elective-I	3, 0	3	-
BA 4xxx	Program Elective-II	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 4801	Law and Taxation	3, 0	3	BA 1211
BA 4814	Project Management	3, 0	3	BA 3607
BA 4xxx	Program Elective-III	3, 0	3	-
BA 4xxx	Program Elective-IV	3, 0	3	-
		18		-
	Total Credit Hours	146		

FACULTY OF MANAGEMENT SCIENCES

UNIVERSITY ELECTIVE

(To be offered by the campus as Compulsory courses)

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

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

Program Electives

Finance

BA 4115	Derivatives
BA 4214	Micro Finance
BA 4218	Financial Research
BA 4735	Islamic Banking and Finance*
BA 4719	Investment Banking
BA 4724	Financial Modeling
BA 4727	Dynamics of Banking
BA 4752	Financial Reporting and Analysis
BA 4831	Portfolio and Investment Management
BA 4833	Security Analysis
BA 4834	Treasury and Funds Management
BA 4855	Financial Risk Analysis
BA 4867	Business Analysis and Forecasting*
BA 4769	Fintech
BA 4774	Alternative Investments

Marketing

BA 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*

Supply Chain Management

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

Management

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

Information Technology

BA 4224	e-Marketing Strategies
BA 4745	Information System Audit
BA 4822	Media Production
BA 4842	Graphic Design for Multimedia*
BA 4844	Operations Research

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

FACULTY OF MANAGEMENT SCIENCES

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

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

Full time academic load is 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 6 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

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		

FACULTY OF MANAGEMENT SCIENCES

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 1214	Personal Management and Professional Development**	2,0	2	-
AF xxxx	Understanding of Holy Quran-II	1,0	1	AF 1120
		19		

Second Year				
Fall Semester				
AF 1202	Calculus for Business Studies	3,0	3	AF 1101
AF 1212	Essentials of Marketing	3,0	3	-
AF 2302	Cost Accounting*	3,0	3	AF 1201
AF 3501	Accounting and Financial Information Systems	3,0	3	AF 1201
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 2401	Management Accounting	3,0	3	AF 2302
AF 2404	Money and Banking	3,0	3	AF 3505
AF 2406	Statistics and Probability*	3,0	3	AF 1101
AF xxxx	Natural Science Elective***	3,0	3	-
AF 2411	Entrepreneurship	3,0	3	-
AF 3503	Business Ethics	3,0	3	AF 1211
		18		

Third Year				
Fall Semester				
AF 3506	Statistical Inference	3,0	3	AF 2406
AF 3507	Financial Institutes and Markets	3,0	3	AF 2404
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 1102
AF 3605	Financial Reporting*	3,0	3	AF 3607
AF 3609	Business Research Methodologies	3,0	3	AF 3506
AF 3611	Auditing-II*	3,0	3	AF 3511
AF 4702	Financial Management	3,0	3	AF 4703
AF 4812	Internship/Field Experience****	3,0	3	-
		18		

FACULTY OF MANAGEMENT SCIENCES

Fourth Year					
Fall Semester					
	AF 2305	Organizational Behavior*	3, 0	3	AF 2303
	AF 4701	Business and Labor Law*	3, 0	3	-
	AF 4712	Capstone Project	3, 0	3	-
	AF 4801	Corporate Finance	3, 0	3	AF 4702
	AF 4xxx	Finance/Accounting Elective-I	3, 0	3	-
	AF 4xxx	Finance/Accounting Elective-II	3, 0	3	-
			18		
Spring Semester					
	AF 4807	Marketing of Financial Services	3, 0	3	-
	AF 4707	Company Law*	3, 0	3	-
	AF 4711	e-Commerce and Management Information System	3, 0	3	AF 1102
	AF 4806	Human Resource Management	3, 0	3	-
	AF 4xxx	Finance/Accounting Elective-III	3, 0	3	-
	AF 4xxx	Finance/Accounting Elective-IV	3, 0	3	-
			18		
		Total Credit Hours	146		

Minor and Major courses for BSAF-4 year programs

Accounting Minor Courses

AF 2302	Cost Accounting*
AF 2401	Management Accounting
AF 3605	Financial Reporting*
AF 3607	Corporate Accounting*

Finance Minor Courses

AF 3606	Taxation*
AF 3608	Islamic Banking and Finance
AF 4702	Financial Management
AF 4703	Introduction to Business Finance*

PROGRAM ELECTIVES

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

Finance Major

AF 4724	Advanced Financial Management
AF 4725	Analysis of Investment and Management of Portfolios

AF 4726	Behavioral Finance
AF 4727	Dynamics of Banking
AF 4728	Financial Modeling
AF 4729	Financial Econometrics
AF 4731	Fraud and Risk Management in Financial Institutions
AF 4733	Alternative Investments
AF 4734	Financial Derivatives
AF 4823	Financial Risk Analysis
AF 4824	Financing of SME
AF 4825	International Finance
AF 4826	Quantitative Data Analysis
AF 4828	Treasury and Funds Management
AF 4829	Fintech
AF 4832	Financial Data Analytics
AF 4833	Investment Banking
AF 4834	Islamic Insurance-Takaful

Courses are subject to change.

*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

FACULTY OF MANAGEMENT SCIENCES

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.

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 5418	Managerial Communication*	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	-
			18		
Spring Semester					
	BA 5424	Macroeconomics and Global Business Environment *	3,0	3	-
	BA 5423	Human Capital Management *	3,0	3	-
	BA 5425	Operations and Supply Chain Management*	3,0	3	-
	BA 5422	Finance for Managers *	3,0	1	-
	BA 5421	Corporate Legal and Regulatory Affairs *	3,0	3	-
	BA 5501	Applied Research Methods	3,0	3	-
			18		

FACULTY OF MANAGEMENT SCIENCES

Second Year					
Fall Semester					
	BA 5411	Cost and Management Accounting*	3,0	3	BA 5301
	BA 5601	Strategic HRM	3,0	3	BA 5205
	BA 5203	Strategic Marketing	3,0	3	BA 5106
	BA 5xxx	Program Elective-I	3,0	3	-
	BA 5xxx	Program Elective-II	3,0	3	-
	BA 5210	Understanding of Holy Quran - I	1,0	3	-
	BA 5508	Research Project-I (3 Credits) Or	3,0	3	BA 5501
	BA 5507	Thesis-I (3 Credits)	3,0	3	BA 5501
			19		
Spring Semester					
	BA 5504	Corporate Strategy	3,0	3	BA 5105
	BA 5208	Strategic Finance	3,0	3	-
	BA 5505	Data Driven Decision Making	3,0	3	-
	BA 5xxx	Program Elective-III	3,0	3	-
	BA 5xxx	Program Elective-IV	3,0	3	-
	BA 5xxx	Understanding of Holy Quran - II	1,0	1	-
	BA 5608	Research Project - II (3 Credits) OR	3,0	3	BA 5508
	BA 5607	Thesis-II (3 Credits)	3,0	3	BA 5507
			19		
		Total Credit Hours	74		

* 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 5501	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	-
			12		
Spring Semester					
	BA 5505	Data Driven Decision Making	3,0	3	-
	BA 5xxx	Program Elective-I	3,0	3	-
	BA 5xxx	Program Elective-II	3,0	3	-
	BA 5210	Understanding of Holy Quran - I	1,0	1	-
	BA 5508	Research Project-I (3 Credits) Or	3,0	3	BA 5501
	BA 5507	Thesis-I (3 Credits)			BA 5501
			13		

FACULTY OF MANAGEMENT SCIENCES

Second Year					
Fall Semester					
	BA 5504	Corporate Strategy	3,0	3	-
	BA 5xxx	Program Elective-III	3,0	3	-
	BA 5xxx	Program Elective-IV	3,0	3	-
	BA 5xxx	Understanding of Holy Quran - II	1,0	1	-
	BA 5608	Research Project-II (3 Credits) Or	3,0	3	BA 5508
	BA 5607	Thesis-II (3 Credits)			BA 5507
			13		
		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 5 Understanding of Quran II as part of their degree requirements.

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

FACULTY OF MANAGEMENT SCIENCES

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

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
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.

FACULTY OF MANAGEMENT SCIENCES

Master of Science in Management Sciences

There are two streams available for Master of Science in Management Sciences. One Stream is by Course Work and other one is by Research Work. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In the Research Work Stream, the student is required to complete 8 Courses and Two IRS OR one Thesis of Six credit hours. In both the streams, 30 credit hours are to be completed. In addition, Muslim students must also complete two 1-credit hour courses – Understanding of Holy Quran I & II, bringing the total credit hours to 32 for those students. These courses are integrated into the program without extending its duration. The time limit to earn an MS degree is from 1.5 to 4 years. The detail of two streams is as follows:

1. MS By Course Work Stream

The Scheme of Study is as follows:

- Six Compulsory Courses
- Two general education courses (2 Credit hours)
- Four Program Electives
- No IRS or Thesis

Compulsory Courses

MS 5137 Research Methods and Techniques
MS 5204 Quantitative Tools for Research
MS 5132 Applied Strategic Management

MS 5104 Strategic Marketing Decisions
MS 5318 Strategic Finance
MS 5238 Strategic Human Resource Development

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

- Finance
- Marketing
- Human Resource Management
- Business Analytics

MSMS (MASTER OF SCIENCE IN MANAGEMENT SCIENCES) BY COURSE WORK STREAM

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
First Year					
Fall Semester					
	MS 5137	Research Methods and Techniques	3,0	3	-
	MS 5132	Applied Strategic Management	3,0	3	-
	MS 5238	Strategic Human Resource Development	3,0	3	-
	MS 5104	Strategic Marketing Decisions	3,0	3	-
	MS 5110	Understanding of Holy Quran - I (For Muslim students only)	1,0	1	-
			13		-
Spring Semester					
	MS 5204	Quantitative Tools for Research	3,0	3	-
	MS 5318	Strategic Finance	3,0	3	-
	MS 5210	Understanding of Holy Quran - II (For Muslim students only)	1,0	1	-
	MS 5xxx	Program Elective I	3,0	3	-
	MS 5xxx	Program Elective II	3,0	3	-
			13		-
Second Year					
Fall Semester					
	MS 5xxx	Program Elective III	3,0	3	-
	MS 5xxx	Program Elective IV	3,0	3	-
			6		
		Total Credit Hours	32		

FACULTY OF MANAGEMENT SCIENCES

2. MS By Research Work Stream

The Scheme of Study is as follows:

- Six Compulsory Courses
- Two general education courses (2 Credit hours)
- Two Program Electives
- Two IRS or Thesis

Compulsory Courses

MS 5137 Research Methods and Techniques

MS 5204 Quantitative Tools for Research

MS 5132 Applied Strategic Management

MS 5104 Strategic Marketing Decisions

MS 5318 Strategic Finance

MS 5238 Strategic Human Resource Development

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

- Finance
- Marketing
- Human Resource Management
- Business Analytics

MSMS (MASTER OF SCIENCE IN MANAGEMENT SCIENCES) BY RESEARCH WORK STREAM

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
First Year					
Fall Semester					
	MS 5137	Research Methods and Techniques	3,0	3	-
	MS 5132	Applied Strategic Management	3,0	3	-
	MS 5238	Strategic Human Resource Development	3,0	3	-
	MS 5104	Strategic Marketing Decisions	3,0	3	-
	MS 5110	Understanding of Holy Quran - I (For Muslim students only)	1,0	1	-
			13		-
Spring Semester					
	MS 5204	Quantitative Tools for Research	3,0	3	-
	MS 5318	Strategic Finance	3,0	3	-
	MS 5210	Understanding of Holy Quran - II(For Muslim students only)	1,0	1	-
	MS 5xxx	Program Elective I	3,0	3	-
	MS 5xxx	Program Elective II	3,0	3	-
			13		-
Second Year					
Fall Semester					
	MS 5xxx	IRS I	3,0	3	-
	MS 5xxx	IRS II OR	3,0	3	-
			06		
		Total Credit Hours	32		
Fall Semester					
	MS 5xxx	Thesis (Part I)	3,0	3	-
			03		-
Spring Semester					
	MS 5xxx	Thesis (Part II) If Any	3,0	3	-
			3		
		Total Credit Hours	32		

FACULTY OF MANAGEMENT SCIENCES

PROGRAM ELECTIVES

Finance

MS 5113	Financial Time Series
MS 5103	Managerial Economics
MS 5105	Econometrics
MS 5111	Derivatives and Financial Risk
MS 5115	Operations and Mathematical Modeling
MS 5134	Behavioral Finance
MS 5206	Modern Financial Applications
MS 5215	Corporate Finance
MS 5217	Corporate Finance Planning and Decisions
MS 5218	Financial Markets
MS 5237	Business Finance and Decision Making
MS 5414	Applied Econometrics
MS 5421	Capital Asset Pricing Model
MS 5425	Empirical Asset Pricing
MS 5317	Seminars in Finance
MS 5426	Mathematical Modeling in Finance
MS 5412	Islamic Banking and Finance
MS 5461	Fintech/Data Science for Finance
MS 5452	Applied Time Series Analysis and Forecasting With Software
MS 5469	Risk Management
MS 5459	Financial Modelling with Software

Marketing

MS 5301	Seminars in Marketing
MS 5422	Distribution and Channel Management
MS 5424	Strategic Brand Management
MS 5429	Marketing Metrics
MS 5431	Strategic Entrepreneurial Marketing
MS 5432	Strategic Social Marketing
MS 5428	Global Marketing Strategies
MS 5433	Advertising Research
MS 5434	Behavioral Marketing
MS 5456	Digital Marketing and Social Media
MS 5468	Retailing and Analytics
MS 5465	Market Strategy and Forecasting
MS 5453	Customer Relations Management

Human Resource Management

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

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

Business Analytics

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

Supply Chain Management

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

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

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

Maximum course load for a semester is 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.



FACULTY OF MANAGEMENT SCIENCES

PhD Management Science

For PhD Program, students are required to complete 48 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 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, 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.

PhD (MANAGEMENT SCIENCES) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
First Year					
Fall Semester					
	MS 6106	Advanced Research Methods and Techniques	3,0	3	MS 5137
	MS 6216	Advanced Quantitative Tools for Research	3,0	3	MS 5204
	MS 6xxx	Program Elective I	3,0	3	-
	MS 6110	Understanding of Holy Quran (For Muslim students only)	1,0	1	-
			10		
Spring Semester					
	MS 6xxx	Program Elective II	3,0	3	-
	MS 6xxx	Program Elective III	3,0	3	-
	MS 6xxx	Independent Research Study	3,0	3	-
	MS 6210	Understanding of Holy Quran - II (For Muslim students only)	1,0	1	-
			10		
		Total Credit Hours	20		

FACULTY OF MANAGEMENT SCIENCES

Second Year					
Fall Semester					
	MS 6xxx	Dissertation (Proposal)			
Spring Semester					
	MS 6xxx	Dissertation			
Third Year					
Fall Semester					
	MS 6xxx	Dissertation (Proposal)			
Spring Semester					
	MS 6xxx	Dissertation			

PROGRAM ELECTIVES

Finance

- MS 6411 Financial Time Series
- MS 6418 Operations and Mathematical Modeling
- MS 6429 Islamic Banking and Finance
- MS 6421 Corporate Finance Planning and Decision
- MS 6422 Derivatives and Financial Risk
- MS 6423 Managerial Economics
- MS 6325 Seminars in Finance
- MS 6425 Strategic Finance
- MS 6434 Mathematical Modeling in Finance

Marketing

- MS 6204 Strategic Marketing Decisions
- MS 6215 Seminars in Marketing
- MS 6312 Advance Marketing Strategy
- MS 6316 Distribution and Channel Management
- MS 6415 Strategic Brand Management
- MS 6431 Marketing Metrics
- MS 6432 Strategic Entrepreneurial Marketing
- MS 6433 Strategic Social Marketing
- MS 6428 Global Marketing Strategies
- MS 6326 Advertising Research
- MS 6435 Behavioral Marketing

Human Resource Management

- MS 6112 Strategic Human Resource Development
- MS 6114 NGO Management
- MS 6201 Change Management
- MS 6205 Public Administration and Governance
- MS 6211 Organizational Development

- MS 6311 Corporate Governance
- MS 6314 Global Corporate Strategy
- MS 6321 Organizational Strategies and Effectiveness
- MS 6324 Issues in Strategic Management
- MS 6412 Creative Leadership
- MS 6413 International Business Management
- MS 6414 Global Governance and Development
- MS 6416 Negotiations and Conflict Resolution
- MS 6417 Leadership and Motivation Techniques
- MS 6419 System Thinking and Organizational Learning
- MS 6427 Applied Strategic Management
- MS 6424 Strategic Management
- MS 6426 Seminars in HRM

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.

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 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 47 courses (five/six courses per semester), totaling 132 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.

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 2101	Communication and Presentation Skills	3, 0	3	CSC 1102
			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	CS Supporting-I	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 xxxx	University Elective-1	2, 0	2	
			18		
Spring Semester					
	CSC 2203	Database Systems	3, 0	3	CSC 2102, CSCL 2102
	CSCL 2203	Lab: Database Systems	0, 1	1	CSC 2102, CSCL 2102
	CSC 2204	Finite Automata Theory and Formal Languages	3, 0	3	
	CSC 2206	Linear Algebra	3, 0	3	
	CSC 3202	Design and Analysis of Algorithms	3, 0	3	CSC 2102, 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	
CSCL 3107	Lab: Operating Systems	0, 1	1	
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	1, 0	1	
CSC 3111	Entrepreneurship	2, 0	2	
CSC 3115	Understanding of Holy Quran-I	1, 0	1	
				16
Spring Semester				
CSC 1205	Technical and Business Writing	3, 0	3	CSC 1102
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 3215	Understanding of Holy Quran-II	1, 0	1	
				16
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 4107	Information Security	2, 0	2	
CSCL 4107	Lab: Information Security	0, 1	1	
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
Total Credit Hours			132	

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

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

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

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 xxxx Business and Technology Ethics
 CSC xxxx Design and Creativity
 CSC xxxx Introduction to Accounting
 CSC xxxx Organizational Behavior
 CSC xxxx Foreign Languages
 CSC xxxx History of Scientific Ideas
 CSC xxxx Management Principles
 CSC xxxx Research Report
 CSC xxxx 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	33	15
Total	132	47

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.

Internship

The internship is scheduled at the end of the third year. After completing the six-week internship, all students must submit a comprehensive report, giving details of their experience and learning.



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS SOFTWARE ENGINEERING

The BS Software Engineering program at SZABIST is a full-time four year degree program comprising eight semesters with minimum of 132 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 47 courses with a total of 132 credits hours. The maximum duration to complete the degree is six years.

BS (SOFTWARE ENGINEERING) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
First Year					
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
			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 1201	Discrete Mathematical Structures	3, 0	3	
	CSC 2206	Linear Algebra	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 3109	Software Engineering	3, 0	3	
	SEC xxxx	University Elective-1	2, 0	2	
			18		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Spring Semester				
CSC 3107	Operating Systems	2, 0	2	
CSCL 3107	Lab: Operating Systems	0, 1	1	
CSC 2203	Database Systems	3, 0	3	CSC 2102, CSCL2102
CSCL 2203	Lab: Database Systems	0, 1	1	CSC 2102, CSCL2102
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				

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 1102
CSC 3202	Design and Analysis of Algorithms	3, 0	3	CSC 2102, CSCL2102
CSC 3110	Community Service	1, 0	1	
CSC 3111	Entrepreneurship	2, 0	2	
CSC 3115	Understanding of Holy Quran-I	1, 0	1	
16				

Spring Semester				
SEC 3608	Software Quality Engineering and Testing	3, 0	3	SEC 3604, SECL 3604
CSC 4107	Information Security	2, 0	2	
CSC 4107	Lab: Information Security	0, 1	1	
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	
CSC 3215	Understanding of Holy Quran-II	1, 0	1	
18				

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
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	
14				
Total Credit Hours		132		

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

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 Development
SEC 4548 Introduction to Development Operations

UNIVERSITY ELECTIVES SUPPORTING (2,0.)

SEC xxxx Financial Accounting
SEC xxxx Human Resource Management
SEC xxxx Sociology
SEC xxxx Foreign Languages
SEC xxxx Management Principles
SEC xxxx Organizational Behavior
SEC 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	33	15
Total	132	47

Internship

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

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



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS Artificial Intelligence

The 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 47 courses, amounting to 132 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, Supporting Elective Courses and 32 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 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 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	
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	0,1	
Sub-total		19	
Semester - IV			
CSC 3209	Computer Networks	2,0	-
CSCL 3209	Lab: Computer Networks	0,1	-
CSC 2203	Database Systems	3,0	CSC 2102, CSCL 2102
CSCL 2203	Lab: Database Systems	0,1	CSC 2102, CSCL 2102
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	Understanding of Holy Quran-II	0,1	
Sub-total		20	

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Codes	Course Title	Cr.Hrs.	Pre-Req.
Third Year			
Semester - V			
CSC 3107	Operating Systems	2, 0	-
CSCL 3107	Lab: Operating Systems	0, 1	-
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	CSC 1102
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	1, 0	-
Sub-total		15	
Fourth Year			
Semester - VII			
CSC 4107	Information Security	2, 0	-
CSCL 4107	Lab: Information Security	0, 1	-
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 xxxx	AI Elective - VI	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		132	

The following two mathematics deficiency courses (non-credit courses) will be offered to students having limited mathematical background, as identified by the relevant PM/HOD.

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	15
Domain Core	18	5
Domain Elective	21	7
Mathematics and Supporting Courses	12	4
Elective Supporting Courses	3	1
General Education Requirement	32	15
Total	132	47



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) COURSE PLAN

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
First Year					
Fall Semester					
	CSC 5105	Research Methodology	3,0	3	-
	CSC 5101	Advanced Algorithms Analysis	3,0	3	-
	CSC 5102	Theory of Computation	3,0	3	-
	CSC 5110	Understanding of Holy Quran-I	1,0	1	
			10		
Spring Semester					
	CSC 5201	Advanced Operating Systems	3,0	3	-
	CSC 5202	Advanced Computer Architecture	3,0	3	-
	CSC 5xxx	Elective-I (from CS Stream)	3,0	3	-
	CSC 5210	Understanding of Holy Quran-II	1,0	1	
			10		
Second Year					
Fall Semester					
	CSC 5xxx	Thesis/Independent Research Study-I OR Course Work (from CS-Stream)	3,0	3	-
	CSC 5xxx	Elective-II (from CS-Stream)	3,0	3	-
	CSC 5xxx	Elective-III (from CS-Stream)	3,0	3	-
			09		
Spring Semester					
	CSC 5xxx	Thesis/Independent Research Study-II OR Course Work (from CS-Stream)	3,0	3	-
	CSC 5xxx	Elective-IV (from CS-Stream)	3,0	3	-
			06	3	-
		Total Credit Hours	35		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

MASTER OF SCIENCE IN COMPUTER SCIENCE (WITH SPECIALIZATION IN SOFTWARE ENGINEERING) COURSE PLAN

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
First Year					
Fall Semester					
	CSC 5105	Research Methodology	3,0	3	-
	CSC 5101	Advanced Algorithms Analysis	3,0	3	-
	CSC 5102	Theory of Computation	3,0	3	-
	CSC 5110	Understanding of Holy Quran-I	1,0	1	
			10		
Spring Semester					
	CSC 5201	Advanced Operating Systems	3,0	3	-
	CSC 5202	Advanced Computer Architecture	3,0	3	-
	SEC 5xxx	Elective-I (from SE Stream	3,0	3	-
	CSC 5210	Understanding of Holy Quran-II	1,0	1	
			10		
Second Year					
Fall Semester					
	CSC/SEC 5xxx	Thesis/Independent Research Study I OR Course Work (from CS Stream or from SE-Stream)	3,0	3	-
	SEC 5xxx	Elective-II (from SE-Stream)	3,0	3	-
	SEC 5xxx	Elective-III (from SE-Stream)	3,0	3	-
			09		
Spring Semester					
	CSC 5xxx	Thesis/Independent Research Study-II OR Course Work (from CS-Stream)	3,0	3	-
	CSC 5xxx	Elective-IV (from CS-Stream)	3,0	3	-
			06	3	-
		Total Credit Hours	35		

MASTER OF SCIENCE IN COMPUTER SCIENCE (WITH SPECIALIZATION IN NETWORKS & SECURITY) COURSE PLAN

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
First Year					
Fall Semester					
	CSC 5105	Research Methodology	3,0	3	-
	CSC 5101	Advanced Algorithms Analysis	3,0	3	-
	CSC 5102	Theory of Computation	3,0	3	-
	CSC 5110	Understanding of Holy Quran-I	1,0	1	
			10		
Spring Semester					
	CSC 5201	Advanced Operating Systems	3,0	3	-
	CSC 5202	Advanced Computer Architecture	3,0	3	-
	NSC 5xxx	Elective-I (from N&S Stream)	3,0	3	-
	CSC 5210	Understanding of Holy Quran-II	1,0	1	
			10		

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Second Year					
Fall Semester					
	CSC/NSC 5xxx	Thesis/Independent Research Study I OR Course Work (from CS Stream or from N&S-Stream)	3,0	3	
	NSC 5xxx	Elective-II (from N&S-Stream)	3,0	3	-
	NSC 5xxx	Elective-III (from N&S-Stream)	3,0	3	-
			09		-
Spring Semester					
	CSC/NSC 5xxx	Thesis/Independent Research Study II OR Course Work (from CS Stream or from N&S-Stream)	3,0	3	
	NSC 5xxx	Elective-IV (from N&S-Stream)	3,0	3	-
			06	3	-
		Total Credit Hours	35		-

CS-Stream

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

SE-Stream

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

N&S-Stream

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

N&S-Stream

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

Pre-Requisites:

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

MS (CS) (In Core Computer Science)

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

MS (CS) with SE-Specialization

Programming Fundamental
Data Structures
Operating Systems
Software Engineering

MS (CS) with N&S-Specialization

Programming Fundamental
Data Structures
Operating Systems
Data Communication and Computer Networks

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



FACULTY OF EDUCATION & SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

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



FACULTY OF EDUCATION & SOCIAL SCIENCES

Department of Social Sciences

BS Social Sciences

To obtain a BSSS degree in International Relations, students are required to complete a total of 146 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 SOCIAL SCIENCE (BSSS) 4-YEAR PROGRAM COURSES

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Reg.
First Year					
Fall Semester					
	SS 1117	Computer and Web Skills	3,0	3	-
	SS 1116	English for General Purposes	3,0	3	-
	SS 1104	Introduction to Community Development and Philanthropy	3,0	3	-
	SS 1201	Introduction to Social Sciences	3,0	3	-
	SS 1114	Ideology and Constitution of Pakistan	2,0	2	-
	SS 1212	Islamic Studies OR	2,0	2	-
	SS 1213	Humanities* (For non-Muslim students)			-
	SS 1120	Understanding of Holy Quran-I (Exempted for Non-Muslim Students)	1,0	1	-
			17		
Spring Semester					
	SS 1217	Introduction to Psychology	3,0	3	-
	SS 1215	Introduction to Economics	3,0	3	-
	SS 1220	Introduction to Sociology	3,0	3	-
	SS 1216	Introduction to International Relations	3,0	3	-
	SS 1214	Introduction to Development Studies	3,0	3	-
	SS 2413	Philosophy	3,0	3	-
			18		
Second Year					
Fall Semester					
	SS 2316	English for Academic Purposes	3,0	3	SS 1116
	SS 2318	Mathematics and Statistics	3,0	3	-
	SS xxxx	Major-I	3,0	3	-
	SS xxxx	Major-II	3,0	3	-
	SS xxxx	Major-III	3,0	3	-
	SS 1112	Pakistan Studies	2,0	2	-
	SS 2320	Understanding of Holy Quran-II (Exempted for Non-Muslim Students)	1,0	1	-
			18		

FACULTY OF EDUCATION & SOCIAL SCIENCES

Spring Semester				
SS 2418	Statistical Inferences	3,0	3	SS 2318
SS 2410	Entrepreneurship	3,0	3	-
SS 2407	Ecology	3,0	3	-
SS xxxx	Major-IV	3,0	3	-
SS xxxx	Major-V	3,0	3	-
SS xxxx	Major-VI	3,0	3	-
		18		

Third Year				
Fall Semester				
SS 4702	Foreign Language	3,0	3	-
SS xxxx	Major VII	3,0	3	-
SS xxxx	Major VIII	3,0	3	-
SS xxxx	Major-IX	3,0	3	-
SS xxxx	Major-X	3,0	3	-
SS xxxx	Major-XI	3,0	3	-
		18		-

Spring Semester				
SS 3504	Research Methods	3,0	3	-
SS xxxx	Major-XII	3,0	3	-
SS xxxx	Major-XIII	3,0	3	-
SS xxxx	Major-XIV	3,0	3	-
SS xxxx	Major-XV	3,0	3	-
SS xxxx	Major-XVI	3,0	3	-
		18		

Summer Semester				
SS 3610	Internship***	3,0	3	-
		3		

Fourth Year				
Fall Semester				
SS 4709	Research Project-I/	3,0	3	SS 3504, SS 2318, SS 2418
SS 4710	Capstone Project-I			
SS xxxx	Major XVII	3,0	3	-
SS xxxx	Major XVIII	3,0	3	-
SS xxxx	Major XIX	3,0	3	-
SS xxxx	Major XX	3,0	3	-
SS xxxx	Major XXI	3,0	3	-
		18		

FACULTY OF EDUCATION & SOCIAL SCIENCES

Spring Semester					
	SS 4809	Research Project-II /	3,0	3	SS 4709
	SS 4810	Capstone Project-II			
	SS xxxx	Major XXII	3,0	3	-
	SS xxxx	Major XXIII	3,0	3	-
	SS xxxx	Major XXIV	3,0	3	-
	SS xxxx	Major-XXV	3,0	3	-
	SS xxxx	Major-XXVI	3,0	3	-
			18		
		Total Credit Hours	146		

MAJORS

Psychology

PSY 2107 Experimental Psychology
 PSY 3105 Developmental Psychology
 PSY 2106 Educational Psychology
 PSY 1204 History of Psychology
 PSY 2111 Physiological Psychology
 PSY 2304 Social Psychology
 PSY 3110 Personality Theories
 PSY 2116 Health Psychology
 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 1202 Contemporary issues in Psychology
 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 1201 Basics of Professional Ethics in Psychology
 PSY 1104 Introduction to Psychology

International Relations

SS 4222 Strategic Studies
 SS 4176 Globalization and Global Governance
 SS 4174 Central and West Asian Studies
 SS 4175 European Studies

SS 4177 Middle Eastern Studies
 SS 4179 Politics of Terrorism
 SS 4178 Muslim World
 SS 4278 Political Geography
 SS 4119 Arms Control and Disarmament
 SS 4133 Diplomacy
 SS 4400 Conflict Resolutions and Confidence Building Measures
 SS 4290 International Politics and Human Rights
 SS 4404 International Law-I
 SS 4405 International Law-II
 SS 4403 Foreign Policy of the USA
 SS 4411 Regional and International Organizations
 SS 4408 Modern Political Ideologies
 SS 4260 Foreign Policy Analysis
 SS 4218 International Political Economy
 SS 4409 Nuclear Studies and Non-Proliferation
 SS 4412 Regional Connectivity and Economic Integration
 SS 4407 International Security
 SS 4143 Comparative Politics
 SS 4413 Theories and Approaches of International Relations
 SS 4402 Evolution of State
 SS 4246 Peace Studies

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

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

Internship

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

ACADEMIC CALENDAR 2025-26 (Hyderabad Campus)

ACADEMIC CALENDAR 2025-26 (Hyderabad Campus)

FALL 2025

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 16, 2025

ACADEMIC CALENDAR 2025-26 (Hyderabad Campus)

ACADEMIC CALENDAR 2025-26 (Hyderabad Campus)

SPRING 2026

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 17, 2026

CAMPUS WISE PROGRAMS OFFERING (FALL 2025)

PROGRAMS OFFERING AT DIFFERENT CAMPUSES OF SZABIST (FALL 2025-26)

PROGRAMS	CAMPUS					
	Karachi	Islamabad	Larkana	Hyderabad	Dubai	Gharo
Bachelor of Business Administration (BBA)	✓	✓	✓	✓	✓	✓
BA (Hons.) in Business Studies (BABS)	✓					
BS Accounting & Finance (BSAF)	✓	✓	✓	✓		
BS (Accounting & Finance) 2.5 Years for ICAP/CAF Qualified	✓	✓				
BS Entrepreneurship (BS ENTRE)	✓					
BS Computer Science (BSCS)	✓	✓	✓	✓	✓	✓
BS Artificial Intelligence (BSAI)	✓	✓		✓		
BS Software Engineering (BSSE)	✓	✓	✓	✓		
Bachelor of Media Science (BMS)	✓	✓				
BS Social Sciences (BSSS)	✓	✓	✓	✓		
BS Psychology	✓	✓	✓			
BS English	✓					
BS Business Analytics	✓	✓				
BE Mechatronic Engineering (BEME)	✓					
BS Autonomous Systems and Artificial Intelligence	✓					
BS Biosciences (BS Bio)	✓					
BS Biotechnology (BS Biotech)	✓					
BS Food Science & Technology (BSFT)	✓					
BS Computational Biology	✓					
BS Nutrition and Dietetics (BSND)	✓					
BS Public Health (BSPH)	✓					
Bachelor of Law (LLB)	✓					
Certificate of Higher Education in Common Law (CertHE)	✓					
CILT (UK) Level 5 Professional Diploma in Logistic & Transport	✓	✓				
Bachelor of Education (B.Ed 1.5 Years)	✓					
Master in Business Administration (MBA)	✓	✓	✓	✓	✓	
Executive MBA (EMBA)		✓				
Masters in Project Management (MPM)	✓	✓	✓			✓
Professional MBA		✓				
Masters in Human Resource Management		✓				
Master of Advertising (MoA)	✓					
MS Public Health (MSPH)	✓					
MS Biosciences (MS Bio)	✓					
MS Biotechnology (MS Biotech)	✓					
MS Computer Science (MSCS)	✓	✓		✓		
MS (CS) with specialization in Core Computing	✓	✓		✓		
MS (CS) with specialization in Software Engineering	✓	✓		✓		
MS (CS) with specialization in Networks & Security	✓	✓		✓		
MS Cyber Security (MSCYS)	✓	✓				
Master of Media Science (MMS)	✓	✓				
MS Management Science (MSMS)	✓	✓	✓	✓		
MS (Business Analytics)		✓				
MS Developmental Studies		✓				
MS Data Sciences (MSDS)	✓	✓				
MS Educational Leadership and Management (MSELM)	✓		✓			
MS Project Management (MSPM)	✓	✓				
MS in Finance & Economics (MSFE)	✓					
MS Social Sciences (MSSS)	✓	✓				
MS (SS) with specialization in Economics	✓	✓				
MS (SS) with specialization in Psychology	✓	✓				
MS (SS) with specialization in Sociology	✓	✓				
MS (SS) with specialization in International Relations	✓	✓				
MS Clinical Psychology		✓				
MS Sociology		✓				
PhD Social Sciences (PhDSS)	✓					
PhD (SS) with specialization in Economics	✓					
PhD (SS) with specialization in Psychology	✓					
PhD (SS) with specialization in Sociology	✓					
PhD (SS) with specialization in International Relations	✓					
PhD Psychology		✓				
PhD Computing	✓	✓				
PhD Management Sciences	✓	✓	✓	✓		
PhD Biosciences	✓					
PhD Educational Leadership and Management	✓					

We just Don't Work Hard We Work Smart

Disclaimer

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

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