

"SILVER JUBILEE YEAR 1995 - 2020"

Prospectus 2020



SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY

THE VISION

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

THE MISSION

SZABIST is committed to produce highly qualified professionals to:

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

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SHAHEED ZULFIKAR ALI BHUTTO



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

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

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

SHAHEED MOHTARMA BENAZIR BHUTTO



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

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

Reconciliation: Islam, Democracy and the West, 2008.

CHANCELLOR'S MESSAGE



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

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

and is taught by highly qualified and competent faculty members.

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

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

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

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

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

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

Dr. Azra Fazal Pechuho Chancellor SZABIST

PRESIDENT'S MESSAGE



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

Over the past 21 years, SZABIST's national and international market reputation has been significantly enhanced. This is evident from the increased enrollment of about 11,000 students in its five campuses-Karachi, Larkana, Hyderabad, Islamabad, and Dubai (UAE).

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

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

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

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

Shahnaz Wazir Ali President SZABIST

VICE PRESIDENT'S (ACADEMICS) MESSAGE



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

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

possible due to the availability of good IT-infrastructure and due to the will and complete professionalism of its entire faculty and staff.

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

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

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

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

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

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

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

VICE PRESIDENT DEVELOPMENT & FINANCE MESSAGE



Welcome to the 2019-2020 academic year at SZABIST!

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

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

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

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

Nasreen Haque

Vice President (Development and Finance) SZABIST

HEAD OF CAMPUS' MESSAGE



I welcome you to SZABIST, Islamabad Campus, which has made great progress and has become one of the leading educational institutions of higher learning. SZABIST remains affordable for its students, hailing from socio-economically diverse cadres of society, while ensuring all standards of educational process being met effectively. Such an arrangement has shaped a classic top-notch Pakistani culture at all campuses of SZABIST, giving it an edge over other educational institutions of the sort.

In addition to excelling in academic standards, students' active participation in socio-cultural activities of high canons such as tree plantation, blood donation, youth awareness,

community service campaigns/drives/projects and the like nurture exceptional values of social importance and imbibe a high sense of social and civic responsibility among the youth. The university, energized by its distinguished faculty and strengthened by its brilliant students, now stands in the highest echelons of education in the country and strives to forge new paths for a brighter tomorrow of Pakistan.

Following a dual track of education where personality development and character building go hand in hand with academic excellence, the institute has developed an appropriate environment spearheaded by its distinguished faculty, capable management, and talented students. SZABIST family—the management, the faculty and the students, all are conscious of their coordinated role, being equal stakeholders in the entire educational process at the campus. We are also proud of our alumni who are actively operational in the corporate world, realizing the true mission of SZABIST. The laurels and the good word they bring us further our innovative plans of future expansion and improvement.

We at SZABIST have made it possible through our motto of quality education at affordable cost for all. We welcome students from varied backgrounds and faraway places like GB, AJK, Baluchistan & KPK to present a united Pakistani community of students, engaged in a ceaseless endeavour to set competitive educational standards and seek unprecedented horizons in higher education to stimulate and lead the industrial transformation of the country.

This prospectus provides you with comprehensive information about our programs. We hope that you will become part of the SZABIST student community for a fruitful, self-fulfilling, and productive stay at SZABIST.

Khusro Pervaiz Khan Head of Campus SZABIST

INTRODUCTION

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

SZABIST is nurturing the intellect of more than 12,500 enrolled students through its five campuses located in Karachi, Hyderabad, Larkana, Islamabad and Dubai. Also, up till now, degrees have been awarded to almost 16,500 graduates. Our alumni are sought by national and multinational organizations and hold key positions in several reputable firms at national and international level.

SZABIST Islamabad offers undergraduate, graduate and post graduate degrees in four diversified disciplines including: Management Sciences, Computer Sciences, Media Sciences & Social Sciences. SZABIST is proud to offer education par excellence in the fields that are crucial for Pakistan's socioeconomic development.

SZABIST is listed as one of the most reputed and highest ranked universities by HEC and Chartered Inspection and Evaluation Committee (CIEC). SZABIST Business School has been rated as "Outstanding" by CIEC and HEC, Pakistan. In addition, all the relevant programs are accredited and recognized by NCEAC. Since 2012, the SZABIST-QEC has been awarded more than 91% in the quantitative assessment by Quality Assurance Agency (QAA) HEC, Pakistan.

The Institute has signed MoUs with various reputable and distinguished organizations and institutions such as, Istanbul Medipol University, Turkey; University of London, UK; Association of Chartered Certified Accountants (ACCA), British Council, and Cisco Networking Academy.

SZABIST, Islamabad campus is housed in a purpose-built edifice located in H-8/4 Islamabad. This sector is reserved for educational institutions of the Federal Capital. Hence, it is surrounded by quality education institutions including Roots schools, OPF Boys College, Shaikh Zaid International Academy, Lahore Grammar School, Beaconhouse School, and The City School. SZABIST is just at a walking distance from the main Express Way that connects Rawalpindi and Islamabad. It shares a border with Bait-ul-Mal, Government Post Graduate Commerce College and another with Shifa International Hospital. Designed in accordance with on-site instrutions of Mohtarama Benazir Bhutto Shaheed, the campus has fulfilled her academic dreams. It is just fifteen minutes' drive from various localities of Islamabad & Rawalpindi.

DEGREES OFFERED

All programs are not offered at all campuses. Students are required to check with the local campus offering of programs or refer last page of the prospectus.

Bachelor of Business Administration (BBA)

SZABIST offers a four-year (eight semesters) BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses, 3 credit hours Business Project and 3 credit hours Community Service Project. The program includes 42 compulsory courses and 4 elective courses from Management, Marketing, Finance, and Supply Chain Management. To obtain the BBA degree, students have to complete 144 credit hours and six-week internship. The maximum time limit to complete the BBA degree is six years.

BBA Program is accredited with ACCA-UK and SZABIST's graduates are exempted from six courses of ACCA (F1, F2, F3, F5, F7 & F9).

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

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

BS (A&F) Program is accredited with ACCA-UK and the graduates from SZABIST will get an exemption from nine papers of ACCA (F1 to F9).

Bachelor of Science in Computer Science (BS CS)

SZABIST offers a four-year (eight semesters) BS Computer Science degree program, which is accredited by National Computing Education & Accreditation Council (NCEAC). The program covers a wide range of courses in core Computer Science, Information Technology and Software Engineering. The program consists of 41 courses (five courses per semester) with a total of 130 credit hours. The complete course plan includes 8 technical electives and 4 university electives. These 8 technical electives provide focused learning in different areas of computer science and related disciplines. Internship is essential to complete degree requirement. The maximum time limit to complete the BS degree is six years.

Bachelor of Science in Software Engineering (BS SE)

SZABIST offers a four year BS Software Engineering degree program comprising eight semesters. This undergraduate degree program primarily focuses on the processes, methodologies, tools and techniques of developing high quality software systems. The degree program is designed around a set of courses

pertaining to the principles of software analysis, design, architecture, development, testing and maintenance techniques that are necessary to produce high quality software systems. Some additional courses from the disciplines of Compute Science, Mathematics, Management Science and Humanities are part of the degree program to develop a broader knowledgebase of the students. The program consists of 41 courses with a total of 130 credit hours. Internship is mandatory to complete degree requirements. The maximum time limit to complete the BS degree is six years.

Bachelor of Science in Social Sciences (BS SS)

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

Bachelor of Science in Media Sciences (BSMS)

The Faculty of Media Sciences at SZABIST offers a comprehensive 4-year Bachelor of Media Science degree with majors in Film and Television production, Advertising Strategy & Design, and Journalism. To earn an undergraduate degree, students must enroll in and successfully complete a total of 135 credit hours which include 43 courses, a 6-credit hours thesis, and an internship (Forty-three courses include: 33 core courses, 7 major requirements in Film and Television production, or Advertising Strategy & Design, or Journalism and 3 open electives). The maximum time limit to complete the BS degree is six years.

Masters of Business Administration (MBA)

MBA program has been designed to impart quality professional knowledge and understanding of modern management tools, leadership, entrepreneurial skills, and managerial and communication competencies. SZABIST offers both MBA Day and Evening programs with specialization in Management, Human Resource Management, Marketing, Finance and Supply Chain Management. The maximum duration to complete MBA degree program is four years.



MBA program is intended for students having a four-year bachelor degree (e.g. BS-CS, BE, BBA etc.) or 16 years of education in different disciplines. The duration to complete this program is two years with 72 credit hours. Twenty-two courses (66 credit hours) and Research Project (6 credit hours) OR Thesis (6 credit hours) are required to complete the program. Students with BBA or equivalent qualification are exempted 36 credit hours of course work and they are required to complete remaining 36 credit hours in 1.5 years. Students are also required to undertake a six week duration of internship during summer and qualify a non-credit course 'Software Tools for Business' or an exam based on MS-Power Point & MS-Excel in lieu of the course to demonstrate proficiency in these tools. The maximum duration to complete the program is four years.

The Chartered Institute of Logistics and Transport (CILT) Certification

The Chartered Institute of logistics & Transport (CILT) is the leading professional body associated with logistics and transport, having over 33,000 members in over 100 countries worldwide. SZABIST has signed Memorandum of Understanding (MOU) with CILT. Now MBA students have the opportunity of opting for The Chartered Institute of Logistics and Transport (CILT) Certification by doing three electives: (1) Business Theory (2) Business Application (3) Supply Chain Operations. The certification fee is to be paid by students.

Executive Master of Business Administration (EMBA)

SZABIST offers a two-year EMBA degree program for executives and middle level managers striving for excellence and greater challenges in their career. The unique program is specifically designed for those executives who aim to enhance their efficiency and strategic thinking. The individuals will be able to leverage their rich work experience through our curriculum, interactive sessions, conferences, symposia and a wide corporate network. The EMBA program is spread over four semesters and consists of 66 credit hours. Twenty courses, one Business Project (3 credits hour) and one Research Project (3 credits) are required to graduate. Maximum time limit to complete the EMBA degree is four years.

Professional Master of Business Administration (PMBA)

PMBA is a one-year program spread over two semesters and consists of 33 credit hours of teaching.

Ten taught courses (30 credit hours) and a business project (3 credit hours) must be completed. Each semester is of four months duration. Candidates register for five / six

courses offered each semester to complete the degree within one year. The PMBA is equivalent to Post Graduate Diploma as per HEC guidelines. Maximum time limit to complete the PMBA degree is four years.

Master in Human Resource Management (MHRM)

The Master in Human Resource Management is designed for those who have functional responsibility to carry out the duties of an organization's human resource department seasoned human resource staff members wishing to keep current; newcomers to the field requiring newknowledge and skills; or specialists wanting to broaden their knowledge. MHRM is a one-year weekend program. The student is required to complete 33 credit hours of coursework/projects within one full calendar year. Maximum time limit to complete the MHRM degree is four years.

Master in Project Management (MPM)

The Master in Project Management (MPM) is designed to enable individuals to manage complex projects through modern project management approaches. MPM is a one-year program comprising 30 credit hours spread over two semesters. Total ten courses are required to graduate. Maximum time limit to complete the MPM degree is four years.

Master of Science in Project Management (MSPM)

SZABIST offers MS in Project Management (MSPM) program which is equivalent to MPhil. The program lays the foundation for students planning to pursue doctoral studies. This Program offers two streams for MSPM. First stream is course work based and second is research based. In course work based stream, students are required to complete 10 courses of 03 credit hours each. In research based stream, the students are required to complete 08 courses of 03 credits hours each (24 credit hours) and two independent research studies (IRS) or a Thesis (06 Credit Hours). In either stream, students are required to complete 30 credit hours in total. All MSPM Students are required to clear GRE or GAT General test or HAT relevant with minimum 50% score. The maximum time limit to complete the MSPM degree is four years.

Master of Science in Management Sciences (MSMS)

SZABIST offers MS degree with concentration in the specialized areas of Human Resource Management, Marketing and Finance. The MS program is an evening program and all classes are held during week days. There are two streams available for MS. One Stream is by Course Work and other one is by Research Work. In Course Work



Stream, the student is required to complete 10 courses of 3 credit hours each. In Research Work Stream, the student is required to complete 8 Courses and Two Independent Research Studies (IRS) OR one Thesis (six Credit Hours). In both the streams, 30 credit hours are required to be completed. 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 MSMS degree is four years.

Master of Science in Social Sciences (MS SS)

SZABIST Department of Social Sciences offers MS Social Sciences degree with specializations including Psychology, Sociology, Political Science and Economics.

It is an evening program only and consists of 10 courses and/or a Thesis/Independent Research Studies of 30 credit hours.

There are two streams available for MS. One Stream is Course Work Based Stream and other one is Research based Stream. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In the Research Based Stream, the student is required to complete 8 Courses (24 Credit Hours) and Two IRS (6 Credit Hours) OR One Thesis (6 Credit Hours). In both the streams, 30 Credit hours to be completed. 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 MSSS degree is four years.

Master of Science in Development Studies (MSDS)

The Faculty of Social Sciences offers a program of studies leading to an MS of international standard in Development Studies (equivalent to M. Phil). Development studies is a multi- and interdisciplinary field of study, that seeks to understand social, economic, political, technological and cultural aspects of societal change, particularly in developing countries. Development studies is characterized also by normative and policy concerns. It aims at contributing to possible solutions to societal problems that development or its absence may produce.

It is an evening program only and consists of 10 courses and/or a Thesis/Independent Research Studies of 30 credit hours.

There are two streams available for MS. One Stream is Course Work Based Stream and other one is Research based Stream. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In the Research Based Stream, the student is required to complete 8 Courses (24 Credit Hours) and Two IRS (6 Credit Hours) OR One Thesis (6 Credit Hours). In both the streams, 30 Credit hours to be completed. The time limit to earn an MS degree is from 1.5 to 4 years. As per HEC guidelines, all MS students are required to clear GRE or GAT General test or HAT relevant with minimum 50% score. The maximum time limit to complete the MS degree is four years.

Master of Science in Computer Science (MS CS)

SZABIST offers MS (CS) degree in three domains: Core Computer Science area and in two specialization tracks, i.e., Software Engineering (SE) and Networks and Security (N&S). Students are required to complete 4 focused courses in any specific domain.

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

Eligibility for this program is a 4-year BS (CS) or 2-year MCS degree from a recognized institution. The candidates with a 4-year professional degree (BE, MSc, etc.) may also apply but will require to complete deficiency conversion courses (up to 18 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.

Master of Science in Data Science

SZABIST offers 2 year duration MS (Data Science) degree in the evening. It requires 30 credit hours to complete. The student is required to complete 8 Courses (24 credit hours) and a Thesis (6 credit hours).

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, Islamabad campus offers PhD degree in Management Sciences & Computing in strict adherence to the HEC guidelines.

The admission requirement for PhD is minimum 17.5 years of education, GAT Subject 60% or above and clearing the admission requirements of SZABIST. After admission, the student is required to complete the course work of 18 credit hours within two years which 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 in maximum two attempts within first two years of registration.

The dissertation carrying a weight of 30 credit hours is required to be completed. 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 examiners in technologically advanced countries. Maximum time limit to complete a PhD degree is 8 years.

In Management Sciences, specializations include Human Resource Management, Marketing and Finance.

PhD Computing can be done in various specialized areas related to pure or applied Computer Sciences. The specializations include but not limited to Database Management Systems, Management Information Systems, Data Warehousing, Data Mining, Networking & Communication, Business Intelligence, Process Modeling, Telecommunication, Mobile Communication, Mobile Computing, Technology Management, Artificial Intelligence, Software Engineering, Agent Systems, Speech Recognition, Multimedia Systems, HCI, E-Business, Machine Vision, Image Processing and any other area which falls in the purview of computer sciences / computing.





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	
В	70 – 74	3.00	PhD Degree Requirement
B-	66 – 69	2.75	MS Degree Requirement
C+	63 – 65	2.50	Master's Degree Requirement
С	60 – 62	2.00	Undergraduate Degree Requirement
C-	55 – 59	1.50	
F	< 55	0.00	



NOTE:

All applicants will be required to appear in an entrance test and interview/group discussion held by SZABIST.

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

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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 passes)/12th Grade/Intermediate with minimum 50% marks or equivalent from a recognized institution.

For BS Computer Science/Software Engineering, candidates with mathematical background will be preferred.

Equivalency of grades for the candidates having Cambridge High School Certificate are obtained as follows:

Equivalency of Grades

A-Level Grade	Equivalent Intermediate %
A	85
В	75
С	65
D	55
E	45

MASTER DEGREE PROGRAMS

Master of Business Administration (MBA)

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

Executive Master of Business Administration (EMBA)/ Professional Master of Business Administration (PMBA)

For admission in the EMBA/PMBA program, the candidate must possess 16-year education with minimum 55% marks/ 2.5 CGPA from a university recognized by the Higher Education Commission of Pakistan (HEC) in any field of study with 3 years professional work experience at mid level/high management position (verifiable) at some well known organization. This requirement is necessary to seek admission in these programs.

Master in Human Resource Management (MHRM)

For admission in the MHRM program, the applicant must possess a minimum of 16 years of education/4-year Bachelor/Masters degree from an HEC recognized educational institute with minimum 55% marks/CGPA 2.5. Relevant work experince of minimum 2 years will also be required for admission in MHRM

Master in Project Management (MPM)

For admission in the MPM program, the applicant must possess a minimum of sixteen years of education/4-year Bachelor/Master's degree from an HEC recognized educational institute with minimum 55% marks / 2.5 CGPA.





Master of Science in Project Management (MSPM)

For admission in the MSPM program, the applicant must possess a minimum of 16 years of education/4 year Bachelor/Master degree with minimum 2.5 CGPA or minimum 55% marks from an HEC recognized university. Candidates are also required to pass GRE or GAT General/HAT relevant with minimum 50% score.

Master of Science in Management Sciences (MSMS)

For admission to MS Management Sciences candidates must possess 16 years of relevant education with minimum 55% marks/2.5 CGPA from a university recognized by HEC. The candidates with a 4-year professional degree may also apply but will require to complete deficiency conversion courses in consultation with Program Manager.

GRE or GAT (General) or HAT relevant is mandatory for MS students with minimum 50% score.

Master of Science in Computer Science (MSCS)

For admission to MS Computer Science program candidates must possess 16 years of relevant education with minimum 60% marks/2.0 CGPA from a university / institute recognized by HEC. The candidates with a 4-year professional degree (BE, MSc, etc.) may also apply but will require to complete deficiency conversion courses (upto 18 credit hours courses to be determined in consultation with Program Manager).

GRE or GAT (General) or HAT relevant is mandatory for MS students with minimum 50% score.

Master of Science in Data Science

For admission to MS (Data Science) program candidates must possess 16 years of relevant education with minimum 60% marks/2.0 CGPA from a university / Institute recognized by HEC. Students with 16 years of education in following domains are eligible to apply: Information Technology, Computer Science, Software Engineering, Computer Engineering, Electrical Engineering, Statistics, or Mathematics. The candidates with a 4-year professional degree may also apply but will require to complete deficiency conversion courses in consultation with Program Manager.

GRE or GAT (General) or HAT relevant is mandatory for MS students with minimum 50% score.

MS SS (Political Science, Economics, Psychology and Sociology)

For admission in MS SS (Political Science, Economics, Psychology & Sociology) program, candidates must possess 16 years of relevant education with minimum 2nd Division/2.0 CGPA from a university recognized by HEC.The candidates with a 4-year professional degree may also apply but will require to complete deficiency conversion courses in consultation with Program Manager.

GRE or GAT (General)/HAT relevant is mandatory for MS students with minimum 50% score.

Master of Science in Development Studies (MSDS)

For admission to MS (DS) candidates must possess 16 years of relevant education with minimum 2nd Division/2.0 CGPA from a university recognized by HEC. The candidates with a 4-year professional degree may also apply but will require to complete deficiency conversion courses in consultation with Program Manager.

GRE or GAT (General) or HAT relevant is mandatory for MS students with minimum 50% score.

DOCTORAL DEGREE PROGRAMS

Admission Requirement

A candidate with MA/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 of 3.0 CGPA, cleared the admission test and interview, and have passed GRE/ GAT (subject) with minimum 60% score.

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 non-relevant degrees, the candidate will be required to register for additional Masters level courses as pre-requisites as per the guidance provided by the Admissions Committee.

Degree Requirements

For completion of the PhD degree, the student must complete a total of 48 credit hours (18 credit hours course work and 30 credit hours dissertation) for Computing and Management Sciences. Following is the step by step procedure for PhD:

PhD Degree Milestones

- 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 progress seminar(s)
- Satisfactory reports from external examiners
- Dissertation Defense (Open Seminar)



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

Comprehensive Examination

All PhD students must pass the PhD Comprehensive Examination within two years from the date of admission as per HEC requirement. Failure to pass comprehensive examination within two years from the date of admission will result in cancellation of admission. Maximum Course Load in each semester is 9 credit hours. A student must clear the comprehensive examination in maximum two attempts. 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. The first registration in Dissertation will be of 6 credit hours in which the student will work on Proposal for Dissertation. These 6 credits will be included in 30 credit hours of dissertation. The PhD research proposal must be presented before the Evaluation Committee.

Dissertation

A student may register for 3, 6, 9 or 12 credit hours in regular semesters (Spring or Fall). However, for resgistration in 12 Credit Hours, approval from Program Manager is required. No registration is allowed in Summer. The dissertation is expected to be completed in 2 years time after the completion of 1 year course work. The time frame for PhD Degree is minimum 3 years and maximum 8 Years.

Publication Requirements

All PhD candidates are required to write at least one research paper in the area of their research and submit it for publication in a journal recognized by the HEC. This paper must be published before sending the dissertation to two foreign examiners.

Progress Seminar(s)

Before sending the dissertation to two foreign examiners belonging to technologically advanced countries, the candidate has to demonstrate his or her work in front of a panel of experts for the necessary changes if deemed necessary.

Final Defense

After receiving minimum two satisfactory evaluation reports from the foreign examiners the candidate is required to appear for PhD final defense A formal presentation of dissertation is required to be produced before Evaluation Committee in an open seminar 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	40
1400 – 1499	33.3
1300 - 1399	26.6
1200 – 1299	20
1100 – 1199	13.3

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

For Masters Programs

50% score of GMAT for Master Programs

For MS Programs

GAT (General)/GRE/HAT relevant with minimum 50%

For PhD Programs

GAT (Subject) with minimum 60% score

GAT General or HAT relevant is mandatory for MS with minimum 50% score. GAT Subject is mandatory for PhD with minimum 60 % score.

Transfer Policies

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

- 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.

MPM Course Transfer

A maximum of up to 6 credits may be considered for transfer into the Master of Project Management program.

EMBA/PMBA Course Transfer

No transfer courses are allowed into the EMBA/PMBA program at SZABIST.

MS Course Transfer

Up to 50% of total course work completed at an HEC recognized university can be allowed for transfer at SZABIST MS program.

PhD Course Transfer

Transfer of courses up to 6 credit hours from an HEC recognized university may be allowed in special cases by making a petition to the Doctoral Committee before formal acceptance into the PhD Program. The student may be required to take additional courses as recommended by the relevant program manager.

SZABIST Inter-Campus Transfer

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

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

Certificate Course Transfer

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

- Maximum 05 courses are transferable in under graduate program.
- 2/3 courses are transferable in Masters or MS program.
- Maximum 02 courses are transferable in PhD program.

The minimum letter grade of Certificate courses from SZABIST which are transferable to regular degree program within a time spam of one year are:

- Grade B and above for PhD
- Grade B- and above for MS
- Grade C+ and above for all master's programs
- Grade C and above for bachelor's programs.

Financial Assistance

SZABIST provides a wide range of financial assistance to eligible and deserving students. For instance:

- SZABIST Need-Based Scholarships
- SZABIST Merit-Based Scholarships
- Chief Minister's SZABIST Merit and Need-Based
- Scholarships
- Sindh Education Endowment Fund Scholarships
- Punjab Endowment Fund Scholarships
- Baluchistan Endowment Fund Scholarships
- USAID funded Merit and Need-Based Scholarships
- HEC-Indigenous PhD 5000 Fellowship Program
- Ihsan Trust Interest Free Loan Facility
- ACCA Accelerate Scholarships
- Ministry of Harmony and Interfaith Minority Scholarships
- Khairpur Poverty cum Merit Scholarships
- Various community-based scholarships

All scholarships cover tuition fee. However; in some cases, scholarships also cover books, boarding, transportation, monthly stipend, and admission fee.

Financial assistance is also available in the form of adjunct faculty positions to qualified and eligible PhD candidates.



FACILITIES

Video Conferencing

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

Conferences/Forums/Seminars/Guest Lectures

To increase awareness and understanding of information technology and business-related issues, many conferences, forums, seminars and guest lectures are organized regularly. These seminars and lectures are in continuation of the Institute's policy towards entrepreneurship development and networking. Seminars are conducted and attended by the leading figures from business and industry as these sessions address various business practices.

Professional Development Courses

The Institute also offers several productivity-based certificate courses as part of its continuing education program. The courses are developed jointly by the faculty, specialists and certified trainers in specific subject areas. The aim of these courses has 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 and learning of Statistical Package for Social Sciences.

Classrooms / Labs / Libraries

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

SZABIST computer laboratories are revamped with brand new labs space, furniture and latest machines with giga bite network connectivity to cater students requirements. "Campus licensing" of latest software, including development tools, and operating systems provide an unmatchable environment compared to majority of well-reputed universities of Pakistan.

SZABIST has computing facilities supported with 24x7 broadband connectivity of 128 Mbps committed bandwidth to the internet and intranet. SZABIST is Wi-Fi enabled since 2002. Students with 802.11x capable devices (such as laptops, iPads, Cellphones, etc.) can access all network resources wirelessly. SZABIST has acquired Microsoft IT academy and Oracle Academic Alliance program.

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

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



Research Committee (RC)

SZABIST places high emphasis on research and 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 quite regularly and discuss and recommends the individual cases of all such students pertaining to approval of their work, selection of supervisors, co-supervisors, examiners, evaluators (national and international), recommends research seminars and all other related activities. The DC also ensures the research work carries its value to the society and is free from any un-ethical matters. In this regard, Institutional Ethics Review Board (IERB) work under DC.

Board of Advanced Studies and Research (BASR)

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

Academic Council (AC)

It is the highest academic statutory body of the university. Its meetings are held twice a year after completion of Board of Studies (BOS) meetings, Board of Faculty (BOF) meetings and Board of Advanced Studies & Research (BASR) meetings. All the recommendations related to academic programs, introduction of new programs, changes in the existing

programs, changes in the course outlines, etc. approved by BOF are sent to Academic Council for further discussion and approval. The meeting is chaired by the President and co-chaired by the Vice President (Academics) and is participated by the members of Academic Council from all campuses of SZABIST, and as well as external members from Academia and Corporate Sectors.

Office of Research Innovation and Commercialization (ORIC)

The ORIC office at SZABIST has been established to provide end-to-end services for all matters pertaining to research & development, innovation, inventions, commercialization, patents, collaborations, arranging seminars/colloquia/symposium/conferences/workshops etc. ORIC is helping its researchers to do high quality research to help shape better future. ORIC intends to provide support to the faculty in solving real-life problems, change policies and influence practice, all to the benefit of the people of Pakistan.

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.

Quality Enhancement Cell (QEC)

Quality Enhancement Cell at SZABIST is created to foster Institutional Effectiveness (IE), to support planning, policy formation, streamlining processes, decision making and critical academic initiatives of strategic importance to the institute in all core departments. QEC activities include promoting and developing QA processes for monitoring and evaluation of programs.

Executive Development Center (EDC)

The Executive Development Center (EDC) at SZABIST Islamabad facilitates students in completing their degree requirements, professional development, and job/internship placements.

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

EDC compile students' profiles and publishes the annual Graduate Directory in order to market SZABIST graduates to credible organizations.

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



Job & Internship Placements

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

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

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

Eligibility for Internship

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

Data Center

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

Computing Resources

Computing resources of the datacentre is comprising of 11.88 TFLOPS of processing speed with high performance and reliable 50 Tera Bytes of storage capacity. The datacentre is equipped with UPS backup and 12-ton precision cooling system for reliability of datacentre and protected by FM-200 based Automatic Fire Detection and Suppression System and manual fire extinguishers. CCTV Cameras and Access Control systems are intact for effective surveillance and restricting unauthorized access to the facility.

Campus Network Infrastructure

Campus network is based on n-tier architecture which includes security, core, distribution and access layers. The backbone comprises three upper layers i.e. security, core and distribution as well as primary & backup fibre optic link connectivity for all buildings. In Data Center, redundant Chassis-based routers, core and distribution switches and firewalls with high transmission rate are commissioned, where device and link redundancy has been maintained at every level to ensure un-interrupted ICT services to users. Gigabit Access Network has also been commissioned to ensure high-speed computing at user end, where access switches of high switching capacity are installed to handle data and multimedia traffic, efficiently. Proper NMS server installed for monitor and manage the whole network, 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.

ZAB Solutions

SZABIST has its own software house which fulfills the software needs of the SZABIST. The state-of-the-art



applications that ZABSolutions has developed and evolved are successfully supporting and fueling the complete Academic Lifecyle of the SZABIST. The complete academic process of a student, right from the filling of the online admission form till the printing of the final transcript and the degree, runs on the integrated solutions developed by ZABSolutions.

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

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

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

ZABFM 106.6

ZABFM 106.6 is an in house FM broadcasting station, is an initiative by Shaheed Zulifkar Ali Bhutto Institute of Science & Technology and it was a very 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 education, awareness, skill & aesthetic approach through the airwaves.

ZABFM 106.6 is the first educational radio with the allotted frequency 106.6 MHz by Pakistan Electronic Media Regulatory Authority (PEMRA) since 20th December 2011 a Islamabad.

It is a non-commercial radio broadcast station, exclusively to impart and disseminate education to the students. The

24/7 programming schedule covers various subjects of life like, career counseling, planning and development, education, infotainment, awareness, research, documentaries, talk shows, sports, travel, science & technology, media, culture & society, technology & inventions, Info tech and social order etc.

Newsletters

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

SZABIST Student Council (SSC)

The SZABIST Student Council (SSC) since its inception in 2015 has been a body of hardworking, ambitious and talented individuals who are elected under the supervision of the Election Commission of SZABIST with members of its work force also selected by means of an entrance test and screening process all on an annual basis to form the student government at the institute. For almost a decade, the philosophy of the student council has been one in congruence with the values espoused in the ideology of SZABIST, those of leadership, art & creativity and tolerance and scientific thought along with serving the community through social work.

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

At SZABIST, students are offered a range of activities under the pillars of Leadership, Sports, Community Services, Art and Culture and Technical and the institute is fortunate to have a diverse student body, one that boasts a proud history of achievements in the realms of public speaking, sports, entrepreneurship, music and theatre.

All student associations, clubs and student societies are placed under the above mentioned thematic pillars, formed as per a prescribed procedure and work under the aegis of the SZABIST Student Council to conduct a wide range of activities to do with sports, entrepreneurship, performingarts like theatre and music, photography, culture, literature, public speaking, science and technology, engineering and computing, model United Nations, social welfare, leadership workshops and field trips.

SSC also hosts entertainment events, produces seasonal SSC merchandise (such as shirts, mugs, banners, or any other promotional material) at times, and guides fellow students in addressing issues related to their campus life acting as a forum that becomes the voice of the student body of the institute.

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

The following club/societies are currently active on Campus:

ACM	Association of Computing Machinery
	(SZABIST Islamabad, ACM Chapter)
AIESEC	Student Exchange Program Facilitation
SCS	SZABIST Culture Society
SES	SZABIST Entrepreneurial Society
SOS	SZABIST Oratory Society
SSSS	SZABIST Social Science Society
SSS	SZABIST Sports Society
ZABLITS	SZABIST Literary Society
ZABMUN	Zulfiqar Ali Bhutto Model United Nations
CURTAINS	SZABIST Performing Arts Society
SWS	SZABIST Welfare Society
SBS	SZABIST Business Club
SAC	SZABIST Adventure Club
SIS	Student Initiative Society
ZTS	ZAB TECH Society
SDS	SZABIST Debating Society
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National & International Linkages & Collaborations

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

- International Association of Universities (IAU), Paris
- Association of Commonwealth Universities (ACU), London
- 3. The Association to Advance Collegiate School of Business (AACSB), Singapore
- 4. Federation of the Universities of Islamic World (FUIW), Rabat
- 5. Asia University Federation (AUF), Seoul
- 6. Asia-Pacific Quality Network (APQN), People's Republic of China

- Association of Quality Assurance Agencies of the Islamic World (AQAAIW), Malaysia
- 8. The Talloires Network, USA
- 9. Management Association of Pakistan (MAP), Karachi
- 10. Marketing Association of Pakistan (MAP), Karachi
- 11. Human Resource Development Network (HRDN), Islamabad

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

1. IS Bank Limited

JS Bank would extend financing to the students and alumni of SZABIST to establish/expand their respective business through the Prime Minister's Youth Business Loan (PMYBL) Scheme.

2. 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.

3. Pakistan Centre for Philanthropy (PCP)

SZBIST signed MOU with PCP on March 27th, 2019 to promote collaboration for academic research and to showcase Pakistani nonprofits through various means including video documentation; to allow the parties to plan educational and training activities of mutual interest. It also aims to provide internship opportunities at PCP to graduate students of SZABIST.

4. Pak-China International Education System(PCIES)

This MoU is aimed at offering Chinese Language course to SZABIST students.

5. ASER — Alliance Pakistan (AAP)

This MoU will enable SZABIST to access insights on disability, technology use, gender parity, parental education etc. A technical-advocacy alliance for benchmarking and assessment of data sets for research and development.

6. Adamjee Life Assurance Company Limited

Adamjee Insurance customers who are students of SZABIST Bachelor programs will enjoy discounts through their Loyalty Card Program.



7. Higher Education Commission (HEC)

SZBIST signed MOU with HEC on January 15th, 2019 for establishing EDUTV of HEC with studio departments of five universities including SZABIST. SZABIST and HEC ensured continued cooperation on agreed scope of cooperation.

8. Microsoft IT Academy

SZABIST has acquired Microsoft IT Academy program with collaboration of HEC. Students of SZABIST get free training of Computer Science, and IT Infrastructure.

9. The Citizen Foundation

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

10. EDUCAST (Pvt.) Limited

Under this Agreement SZABIST and EDUCAST will work towards developing projects through funding from Local and International Donors to establish Innovative services for using information and communication technology in development of robotics for education and Training.

11. Istanbul Medipol University, Turkey

This MoU will present numerous opportunities to SZABIST for initiating mutually-rewarding R&D projects, and student & faculty exchange programs.

12. Searle Company Limited

Searle through this MoU aims to recruit SZABIST graduates in an one-year rotational intensive management trainee program. The program will prepare students to gain entry in the job market with the required practical and vocational skills.

13. Association of Chartered Certified Accountants

Under this MoU, SZABIST has acquired 9 courses exemption (F1-F9) for its BS A&F program. This facility is provided by ACCA Global for all SZABIST Campuses. Moreover, the students appearing in professional modules for getting ACCA qualification will be able to get fee discount from ACCA Global.

14. SZABIST and RCCI

SZABIST signed an MOU with Rawalpindi Chamber of Commerce Industry on July 23, 2009. The scope of MOU is aimed at increasing interaction with industry, fostering research & development activities, and providing internship opportunities to SZABIST students

15. SZABIST and ICCI

SZABIST signed an MOU with Islamabad Chamber of

Commerce Industry in April , 2018. The scope of MOU is aimed at increasing interaction with industry, fostering research & development activities, and providing internship opportunities to SZABIST students.

16. National Testing Services (NTS)

As per the MoU, SZABIST MS and PhD students can benefit from NTS Need-Based Scholarships on qualifying NTS General Assessment Test.

17. National ICT R&D Fund

According to this partnership, eligible and deserving students enrolled in ICT-related programs will be provided scholarship covering 100% tuition fee and stipend for lodging, books, transportation, and food.

18. SZABIST and PMI

SZABIST, Islamabad took a giant step forward on June 3rd, 2016 towards enhancing the Project Management program by signing an MoU with Project Management Institute Islamabad Chapter Pakistan (PMI-IPC) for promoting cooperation in exchange of information, joint research and development of academic programs concerning Project Management, and also exchange of experts and researchers. The strategic partnership is expected to be a way forward in bridging the gap between industry and academia.

19. Organization of Pakistani Entrepreneurs of North America (OPEN)

The MoU pertains to jointly establishing a student chapter of OPEN at SZABIST, namely 'OPEN SZABIST Karachi Student Chapter' to promote the spirit of entrepreneurship among Pakistani youth through personality assessment, seminars, work-shops, individual mentoring sessions by qualified professionals, and other related activities.

20. University of London, UK

SZABIST is a registered center of University of London for providing coaching and preparing the students to appear in the LLB exams conducted by University of London through British Council.

21. CISCO Networking Academy

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













Every effort has been made to design an academic program at SZABIST which conforms to the standards of internationally recognized universities and caters to the needs of businesses and industry.

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 Mangement 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 alumni collaboration.

BBA

SZABIST offer a four-year BBA degree program of 144 credit hours. For the BBA program, the students are required to complete 46 courses, 3 credit hours Business Project & 3 credit hours Community Service Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing, Finance and Supply Chain Management. To obtain the BBA degree, the students have to complete 144 credit hours and an internship. The degree needs to be completed within six years. BBA Program is accredited with ACCA-UK and SZABIST's graduates are exempted from six courses of ACCA (F1, F2, F3, F5, F7 & F9).

First Year

Fall Semester Pre-Reg.

BA 1108	IT in Business	
BA 1109	Personal Management and Communication	
BA 1113	Islamic Studies	
BA 1203	Management Principles	
BA 1206	Oral Communication and Presentation Skills	
BA 2307	Sociology	

Spring Semester

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

Third Year

Pre-Req. Fall Semester Pre-Req.

BA 3501	Financial Markets and Institutions	BA 1202
BA 3502	Entrepreneurship	BA 1203
BA 3508	Media Management	BA 2303
BA 3605	Statistical Inference	BA 2311
BA 4706	Development Economics	BA 1202
BA 4801	Law and Taxation	BA 1211

Spring Semester

BA 3601	Financial Management	BA 2301
BA 3602	Marketing Management	BA 2303
BA 3603	Business Research Methods	BA 3605
BA 3607	Operations Management	BA 1203
	Human Resource Management	BA 3504
BA xxxx	University Elective-I (as offered by Campus)	

Second Year

Fall Semester

BA 1201	Financial Accounting	BA 1101
BA 1202	Macroeconomics	BA 1102
BA 1211	Logic and Critical Thinking	BA 1105
BA 2303	Marketing Principles	BA 1203
	Business and Electronic Communication	BA 1206
BA 3504	Organizational Behavior	BA 2312

Spring Semester

-	_		
BA	2301	Introduction to Business Finance	BA 1201
BA	2311	Business Statistics	BA 1204
BA	2402	Retail Management	BA 2303
ВА	2403	Business Ethics	BA 1203
BA	2411	Cost and Management Accounting	BA 1201
ВА	3507	Consumer Behavior	BA 2303

Fourth Year

Fall Semester

BA 4705	Services Marketing	BA 3602
BA 4710	Business Project	BA 3603
1		BA 3607
BA 4xxx	Elective-I	
BA 4xxx	Elective-II	
BA xxxx	University Elective-II	
	(as offered by Campus)	

Spring Semester

BA 3505	Quantitative Skills	BA 1204
BA 3609	Pakistan Economy	BA 4706
BA 4704	Management Information Systems	BA 1108
BA 4810	Community Service Project	BA 3603
BA 4xxx	Elective-III	
BA 4xxx	Elective-IV	



University Electives*(To be offered by the campus as Compulsory courses)

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

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

BA 4867 Business Analysis and Forecasting*

BA 4xxx SAP Financial Accounting Module

Marketir	ng
BA 4116	Supply Chain Management
BA 4125	Emerging Media
BA 4126	Trade Marketing
BA 4217	Experiential Marketing
BA 4707	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 4xxx	SAP Sales and Distribution Module

Supply Chain Management

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BA 4116	Supply Chain Management
BA 4126	Trade Marketing
BA 4211	Production Management
BA 4702	Total Quality Management
BA 4739	Export Marketing
BA 4742	Customer Relationship Management
BA 4764	Dynamics of Logistics and Distribution
BA 4766	Purchase Management
BA 4824	Sales Management
BA 4844	Operations Research
BA 4859	Product Innovation and Design
BA 4xxx	SAP Procurement Module

Management			
BA 4116	Supply Chain Management		
BA 4126	Trade Marketing		
BA 4211	Production Management		
BA 4702	Total Quality Management		
BA 4739	Export Marketing		
BA 4742	Customer Relationship Management		
BA 4764	Dynamics of Logistics and Distribution		
BA 4766	Purchase Management		
BA 4824	Sales Management		
BA 4844	Operations Research		
BA 4859	Product Innovation and Design		
BA 4xxx	Psychological Contract in Organizations		
BA 4xxx	SAP Human Capital Module		

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

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.

Full-time academic load is 18 credit hours. All students are required to register for full load in the first semester.

INTERNSHIP

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

BS-Accounting & Finance

BS (A&F) is a four years (eight semesters) program and consists of 144 credit hours. Students are required to complete 46 courses and a 6 credit hours of final year project along with six weeks of internship to graduate. BS (A&F) Program is accredited with ACCA-UK and the graduates from SZABIST will get an exemption from nine papers of ACCA (F1 to F9).

First Year

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

Spring Semester

AF 1103	English Comprehension	AF 1203
AF 1201	Advanced Financial Accounting	AF 1104
AF 1207	Business Management and Ethics	
AF 2303	Introduction to Psychology	
AF 2304	Introduction to Sociology	
	Principles of Microeconomics	

Second Year

Fall Semester		Pre-Req.
AF 1202 Cald	culus for Business Studies	AF 1101
AF 1206 Prin	nciples of Marketing	
AF 2302 Cos	t Accounting	AF 1201
AF 2305 Org	anizational Behavior	AF 1207
AF 3505 Prin	nciples of Macroeconomics	AF 2405
AF 4703 Intr	oduction to Business Finance	

Spring Semester

AF 2301	Business and Technical English Writing	AF 1103
AF 2401	Management Accounting	AF 2302
AF 2402	Management Information Systems	
	Money and Banking	AF 3505
AF 2406	Statistics and Porbability	
AF 3501	Accounting and Financial Information Systems	

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.

Full-time academic load is 18 credit hours. All students are required to register for full load in the first semester.

Third Year

Fall Semester		Pre-Req.
AF 3511	Auditing-I	
AF 3506	Statistical Inference	AF 2406
AF 3507	Financial Institutes and Markets	AF 2404
AF 3606	Taxation	
AF 3607	Corporate Accounting	AF 2401
AF 3608	Islamic Banking and Finance	

Spring Semester

AF 2403	Marketing Management	AF 1206
AF 3605	Financial Reporting	AF 3607
AF 3609	Business Research Methodologies	AF 3506
AF 3611	Auditing-II	AF 3502
AF 4701	Business and Labor Law	
AF 4702	Financial Management	AF 4703

Fourth Year

Fall Semester	Pre-Req.
AF 1204 Introduction to Human Resource	AF 2305
Management	
AF 3603 e-Commerce	
AF 4707 Company Law	
AF 4801 Corporate Finance	AF 4702
AF xxxx Finance Elective-I	
AF xxxx Accounting Elective-I	

Spring Semester

AF 2306	Pakistan Economic Policy	AF 3505
AF 3504	Entrepreneurship and Small	
	Business Management	
AF 4808	Final Project	
AF xxxx	Accounting Elective-II	
AF xxxx	Finance Elective-II	

INTERNSHIP

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



ELECTIVES

Accounting

AF 4721 Advance Audit and Assurance AF 4722 Advance Performance Management AF 4723 Forensic Accounting

AF 4821 Public Sector Accounting

AF 4822 Strategic Business Reporting

Finance

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 4823 Financial Risk Analysis

AF 4824 Financing of SME

AF 4825 International Finance

AF 4826 Quantitative Data Analysis

MBA

For students with 4-year non-business degree/16-years of education, the duration of the MBA program is 2 years. Twenty-two courses (66 credits) and Research Project (6 credits) or Thesis (6 credit hours) are needed to graduate. Students are also required to complete a six-week internship and qualify a non-credit course 'Software Tools for Business' or an exam based on MS-Power Point & MS-Excel in lieu of the course. The maximum duration to complete this degree is 4 years.

First Year

Fall Semester

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

Second Year

Pre-Reg. Fall Semester Pre-Req.

BA 5105	Financial Management*	BA 5401
BA 5203	Strategic Marketing	BA 5106,BA 5205
BA 5308	International Business	
BA 5601	Strategic HRM	BA 5205
BA 5508	Research Project-I (3 Credits)	BA 5501
	OR	
BA 5507	Thesis-I (3 Credits)	
BA 5xxx	Elective-I	

Spring Semester

BA 5205	Human Resource Management*	BA 5419
BA 5401	Introduction to Business Finance*	BA 5301
BA 5402	Macroeconomics*	BA 5302
BA 5405	Statistical Inference*	BA 5502
BA 5411	Cost and Management Accounting*	BA 5301
BA 5501	Applied Research Methods	

Spring Semester

BA 5104	Strategic Management	BA 5106, BA 5205
BA 5208	Strategic Finance	BA 5105
BA 5608	Research Project-II (3 Credits)	
	OR	
BA 5607	Thesis-II (3 Credits)	
BA 5xxx	Elective-II	
BA 5xxx	Elective-III	
BA 5xxx	Elective-IV	

A student may take Research Project or Thesis.

*Exempt courses for BBA and Equivalent degree holders



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

First Year

Pre-Req. Fall Semester

Second Year

Fall Semester		Pre-Req.	
	BA 5203	Strategic Marketing	
	BA 5208	Strategic Finance	
	BA 5501	Applied Research Methods	
	BA 5601	Strategic HRM	

Fall Sem	Pre-Req.	
BA 5308	International Business	
BA 5607	Thesis-II OR	D A 5501
BA 5608	Research Project-II	BA 5501
BA 5xxx	Elective-III	
BA 5xxx	Elective-IV	

Spring Semester

BA 5104	Strategic Management	
	Thesis-I OR	D A 5501
BA 5508	Research Project-I	BA 5501
BA 5xxx	Elective-I	
BA 5xxx	Elective-II	

A student may take either Research Project or Thesis.

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.





ELECTIVES

Finance	D
BA 5131 Advance Financial Management	BA 5297 Human Capital Development and Analytics
BA 5132 Analysis of Financial Statements	BA 5332 Contemporary Issues in Human Resource
BA 5133 Corporate Finance	Management
BA 5134 Derivatives	BA 5335 Human Resource Audit
BA 5135 Financial Markets and Institutions	BA 5435 Human Resource Management and
BA 5137 International Banking	Technology
BA 5138 Econometrics	BA 5352 SAP Human Capital Module
BA 5139 Financial Risk Analysis	BA 5452 Psychological Contract in Organizations
BA 5151 International Finance	
BA 5155 Mergers and Acquisitions	Management
BA 5175 Banking Operations	DA 5111 D D
BA 5179 Commodity Pricing	BA 5111 Business Process Re-engineering
BA 5184 Financial Product Regulations	BA 5112 Change Management
BA 5187 Business Analysis and Forecasting	BA 5113 Industrial Management and Labor
BA 5192 Financial Management Policy	Relations
BA 5229 Financial Modeling	BA 5116 Industrial Relations and Labor Laws
BA 5231 Islamic Banking and Finance	BA 5136 Business Strategy and Policy
BA 5232 Portfolio and Investment Management	BA 5152 Event Management
BA 5235 Treasury and Funds Management	BA 5172 Entrepreneurial Business Strategy
BA 5244 Investment Banking	BA 5213 Project Management
BA 5254 Fundamentals of Financial Engineering	BA 5242 Lean Six Sigma Manufacturing
BA 5262 Behavioral Finance	BA 5295 Crisis Management
BA 5278 Panking Crises and Management	BA 5333 Business Theory BA 5334 Corporate Sustainability
BA 5284 Theory and Practice of Londing	
BA 5284 Theory and Practice of Lending BA 5294 Venture Capital and Private Equity	BA 5433 Business Application BA 5434 Hospitality and Tourism Management
BA 5298 Financial Reporting and Analysis	DA 3434 Trospitanty and Tourish Management
BA 5351 SAP Financial Accounting Module	Marketing
DA 5551 SAI Tilialiciai Accounting Module	Marketing
Human Resource Management	BA 5121 Advertising
O	BA 5122 Brand Management
BA 5114 Leadership and Motivation Techniques	BA 5123 Consumer Behavior
BA 5117 Performance Appraisal	BA 5124 Customer Relationship Management
BA 5118 Compensation Management	BA 5126 Export Marketing
BA 5159 Salary and Compensation	BA 5127 Global Marketing
BA 5164 Human Resources Information Systems	BA 5129 Services Marketing
BA 5165 Job Analysis and Design	BA 5171 Strategic Advertising
BA 5167 Talent Management and	BA 5182 Trade Marketing
Succession Planning	BA 5186 Social Marketing
BA 5185 Leadership Development	BA 5199 Integrated Brand Communication
BA 5193 HR Operations and Business Partnering	BA 5217 Industrial Marketing
BA 5196 Conflict Resolution	BA 5224 Media Planning and Management
BA 5215 Recruitment and Selection	BA 5225 Personal Selling
BA 5216 Training and Development	BA 5226 Pharmaceutical Marketing
BA 5239 HR Policy Development	BA 5227 Sales Management
BA 5251 Human Resource Development	BA 5228 Retail Management
BA 5285 Performance Management	BA 5246 Public Relations
BA 5292 HR Analytics	BA 5256 Integrated Marketing Communications



BA 5259 Emerging Media

BA 5451 Strategic Entrepreneurship

BA 5264 Interactive Global and Regional Marketing

BA 5269 Marketing Intelligence

BA 5141 Public Relations Management

BA 5198 Experiential and Content Marketing

BA 5281 Digital Marketing

BA 5286 Media Marketing

BA 5293 New Product Development Process and Innovation

BA 5296 Rural Marketing

BA 5299 Media Management

BA 5331 Marketing Analytics

BA 5336 Retail Buying and Merchandising

BA 5337 Retail Strategy and Structure

BA 5339 Packaging for Brands

BA 5354 SAP Sales and Distribution Module

BA 5436 Retail Operation

BA 5437 Retail Supply Chain Management

BA 5438 Marketing Practices in Pakistan

Supply Chain Management (SCM)

BA 5142 Materials Management

BA 5191 Advance Manufacturing and TPM in SCM

BA 5194 Supply Chain Finance

BA 5214 Supply Chain Management

BA 5263 Dynamics of Logistics and Distribution

BA 5265 Operational Planning in Supply Chain

BA 5266 Strategic Procurement in SCM

BA 5287 Execution and Control of Operations in SCM

BA 5291 Detailed Scheduling and Planning in SCM

BA 5338 Shipping in SCM

BA 5353 SAP Procurement Module

BA 5431 Supply Chain Operations

BA 5432 Green Supply Chain Management

BA 5452 Green Logistics and Strategic Warehousing Management

Internship

All MBA students are required to complete a 6-weekinternship. Completion of internship is a degree requirement for MBA program. Students can produce their current employment record as an alternative to the internship program provided such employment experience is recognized by SZABIST. SZABIST has a separate internship and placement department (EDC) that supports students in finding a suitable opportunity for their internship.

Compulsory Course/Exam

All MBA students are required to successfully qualify a non-credit course 'Software Tools for Business' or an exam based on MS-Power Point & MS-Excel in order to qualify for degree. Students will have a choice to take the course or exam if he/she can demonstrate the required level of skills. Course and Exam will be offered each semester, where the course outline and learning objectives will be available for student's information to decide whether to take the course or apply for exam directly.









PROFESSIONAL MBA

The PMBA is a one-year program spread over two semesters and consists of 33 credit hours of teaching. Ten taught courses and a business project must be completed. Each semester is of four months' duration. The candidate registers for five/six courses offered every semester to complete the degree within one year. The PMBA is equivalent to Post Graduate Diploma as per HEC guidelines. The Maximum time limit to complete the PMBA degree is 4 years.

First Year

Fall Sem	Pre-Req	
BE 5101	Accounting for Business	
BE 5102	Business Management	
	Contemporary Marketing	
BE 5104	Managerial Communication	
BE 5105	Quantitative Analysis for Decision Making	

Spring S	Pre-Req.	
BE 5201	Applied Research Methods	BA 5105
BE 5202	Business Finance	BA 5101
BE 5204	Managerial Economics	
BE 5205	Marketing Management	BA 5103
BE 5206	Organizational Behavior	BA 5102
	Business Proiect	

Executive MBA

The EMBA is a 2-year program spread over four semesters and consists of 66 credit hours of teaching. Twenty courses (60 credit hours), one Business Project (3 credits) and one Research Project (3 credits) are needed to graduate. Maximum time limit to complete the EMBA degree is 4 years.

First Year

Fall Semester		Pre-Req.
BE 5101	Accounting for Business	
BE 5102	Business Management	
BE 5103	Contemporary Marketing	
BE 5104	Managerial Communication	
BE 5105	Quantitative Analysis for Decision Making	

Spring S	emester	Pre-Req.
BE 5201	Applied Research Methods	BE 5105
BE 5202	Business Finance	BE 5101
BE 5204	Managerial Economics	
BE 5205	Marketing Management	BE 5103
BE 5206	Organizational Behavior	BE 5102

Second Year

Fall Semester

BE 5203	Managerial Accounting	BE 5101
	and Control	
BE 5301	Financial Management	
BE 5302	Human Resource Management	BA 5206
BE 5303	Operations and Supply	BE 5102
	Chain Management	
BE 5309	Business Project	BE 5201
BE 5xxx	Elective-I (Marketing, HR,	
	Finance and Supply Chain)	

Spring Semester

BE	5401	Entrepreneurship and	BE 5102
		Family Businesses	
BE	5402	Ethics and Corporate Governance	BE 5102
BE	5403	Strategic Management	BE 5202, BE 5102, BE 5302
BE	5409	Research Project	BE 5201
BE	5xxx	Elective-II (Marketing, HR,	
		Finance and Supply Chain)	
BE	5xxx	Elective-III (Marketing,	
		HR, Finance and Supply Chain)	







ELECTIVES

Marketing

- BE 5321 Services Marketing
- BE 5322 Advertising
- BE 5323 Brand Management
- BE 5324 Consumer Behavior
- BE 5325 Customer Relationship Management
- BE 5326 Digital Marketing
- BE 5327 Emerging Media
- BE 5328 Experiential and Content Marketing
- BE 5329 Export Marketing
- BE 5331 Global Marketing
- BE 5332 Integrated Marketing Communications
- BE 5333 Media Planning and Management
- BE 5334 Retail Management
- BE 5335 SAP Sales and Distribution Module

Finance

- BE 5421 Analysis of Financial Statements
- BE 5422 Banking Operations
- BE 5423 Corporate Finance
- BE 5424 Financial Modeling
- BE 5425 International Banking and Finance
- BE 5426 Islamic Banking and Finance
- BE 5427 Portfolio and Investment Management
- BE 5428 Project Evaluation
- BE 5429 Treasury and Funds Management
- BE 5431 SAP Financial Accounting Module
- BE 5432 SAP Management Accounting Module

Human Resource Management

- BE 5521 Compensation Management
- BE 5522 Conflict Resolution
- BE 5523 Crisis Management
- BE 5524 HR Analytics
- BE 5525 Leadership and Motivational Techniques
- BE 5526 Performance Appraisal
- BE 5527 Recruitment and Selection
- BE 5528 Salary and Compensation
- BE 5529 Talent Management and Succession Planning
- BE 5531 Training and Development
- BE 5532 SAP Human Capital Module

Supply Chain Management

- BE 5621 Advance Manufacturing and TPM in SCM
- BE 5622 Detailed Scheduling and Planning in SCM
- BE 5623 Dynamics of Logistics and Distribution
- BE 5624 Execution and Control of Operations in SCM
- BE 5625 Operational Planning in Supply Chain
- BE 5627 Strategic Procurement in SCM
- BE 5629 Supply Chain Finance
- BE 5631 Supply Chain Management
- BE 5632 SAP Procurement Module
- BE 5633 SAP Production-Planning & Manufacturing Module

The University reserves the right to change its programs and policies at any time without prior notification.

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.





MHRM

The Master in Human Resource Management program is designed for those who have functional responsibility to carry out the duties of an organization's human resource department. The student is required to complete 33 credit hours of course work within one full calendar year. The maximum time period to complete the degree is four years.

Fall Semester

HR 5101	Advanced Recruitment & Selection	
HR 5102	Advanced Rewards and	
	Performance Management	
HR 5201	Advanced Training and	
	Development	
HR 5203	International Human Resource	
	Management	
HR 5319	Institutional Effectiveness & Global	
	Governanace in HR	

Spring Semester

HR 5204	Advanced Topics in Organizational	
	theory & Behavior	
HR 5308	Final Project	
HR 5322	Knowledge Management	
HR 53xx	Elective-I	
HR 53xx	Elective-II	
HR 53xx	Elective-III	

ELECTIVES

- HR 5311 Advanced Topics in Organizational Behavior
- HR 5312 Communication Strategies at Workplace
- HR 5313 Continuous Professional Development
- HR 5314 Employee Engagement Strategies
- HR 5315 Employee Retention
- HR 5316 Ergonomics at workplace
- HR 5317 Human Resource Information Management
- HR 5318 Innovation and Change Management
- HR 5321 ISOs Certification
- HR 5322 Knowledge Management
- HR 5323 Learning Organization
- HR 5324 Organization Restructuring
- HR 5325 Organizational Development
- HR 5326 QR Strategies and Legality
- HR 5327 Quality Assurance Management
- HR 5328 Rewards and Performance Management
- HR 5329 Supply Chain Management
- HR 5331 Talent Management
- HR 5332 Total Quality Management
- HR 5333 Work and Organization
- HR 5334 Workforce Diversity
- HR 5335 Workload Balance
- HR 5336 Change Management
- HR 5337 Strategic Human Resource Management

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.





Masters in Project Management

The Masters in Project Management is designed to enable individuals to manage complex projects of today through modern project management approaches. MPM is a 1-year program comprising of 30 credit hours spread over two semesters. Ten courses are required to graduate. The maximum time to complete the degree is 4 years. There are two intakes in a year and roadmap for each intake follows as under:

Fall Intake

Fall Semester

PM 5102 Fundamentals of Project	
Management	
PM 5104 Cost and Financial Management	
for Project Management	
PM 5105 Project Scope Management	
PM 5201 Project Scheduling, Planning and	
Time Management	
PM 5301 Project Quality Management	

Spring Semester

PM 5209 Project	
PM 5351 Project Risk Management	
PM xxxx Software Tools for Project	
Management*	
PM xxxx Elective-I	
PM xxxx Elective-II	

* Computer based training course

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.



Spring Intake

Spring Semester

1	U		
PM	5102	Fundamentals of Project	
		Management	
PM	5104	Cost and Financial Management	
		for Project Management	
PM	5105	Project Scope Management	
PM	5201	Project Scheduling, Planning and	
		Time Management	
PM	5301	Project Quality Management	

Fall Semester

PM 5209	Project	
	Project Risk Management	
PM xxxx	Software Tools for Project	
	Management*	
PM xxxx	Elective-I	
PM xxxx	Elective-II	

ELECTIVES

PM 5151 Enterprise Resource Planning

PM 5152 Innovation and Technology Management

PM 5155 Project Program Portfolio Management

PM 5156 Business Analysis for Project Managers

PM 5251 Procurement and Contract Management

PM 5252 Project Change Management

PM 5253 Project Human Resource Management

PM 5255 Project Change and Risk Management

PM 5257 Simulation for Project Management

PM 5258 Governance, Monitoring and Evaluation of Development Projects

PM 5259 Construction Project Management

PM 5303 Project Monitoring, Evaluation and

Control Management

PM 5352 Project Stakeholders Management

PM 5353 Research Methods for Project Managers

PM 5354 Leadership, Team and Communication for Project Management

PM 5355 Project Communication, Reporting & Presentation



Master of Science in Project Management

There are two academic streams available for MSPM. The students are required to complete 8 courses and 2 Independent Research Studies (IRS), or a thesis, with a total of 30 credit hours as a part of Research based stream. Alternatively, students may opt for 30 credit hours of Coursework based stream by taking only 10 courses. The breakup of 30 credit hours under each stream is as follows:

Coursework Based Stream

- Four compulsory courses (12 credit hours)
- Six elective courses (18 credit hours)

First Year

Fall Sem	ester	Pre-Req.
MP 5107	Fundamentals of Project	
	Management	
MP 5202	Quantitative Tools for Research	
MP 5xxx	Elective-I	

Spring Semester

MP 5103 Research Methodology	
MP 5105 Advanced Project Management	PM 5107
MP 5xxx Elective-II	
MP 5xxx Elective-III	

Second Year

Fall Semester

Tan Semester		
MP 5xxx Elective-IV		
MP 5xxx Elective-V		
MP 5xxx Elective-VI		

ELECTIVES

- MP 5102 Project Management Constraints
- MP 5103 Operations Research
- MP 5201 Quality Management Tools
- MP 5205 Theories of Management
- MP 5215 Human Resource Management Communication
- MP 5217 Financial Decision Analysis
- MP 5218 Software Project Management
- MP 5223 Project Scheduling, Planning and Time Management
- MP 5224 Project Scope
- MP 5226 Governance, Monitoring and Evaluation of Development Projects
- MP 5314 Project Review, Assurance and Governance
- MP 5317 Supply Chain Management
- MP 5318 Business Analysis
- MP 5322 Project Program Portfolio Management
- MP 5324 Risk Management Dynamics
- MP 5325 Project Simulation
- MP 5328 Project Risk Management

Research Based Stream

- Four compulsory courses (12 credit hours)
- Four elective courses (12 credit hours)
- Two Independent Research Studies (6 credit hours)
 OR Thesis (6 credit hours)

First Year

Fall Semester	Pre-Req.
MP 5107 Fundamentals of Project	
Management	
MP 5202 Quantitative Tools for Research	
MP 5vvv Flective-I	

Spring Semester

1 0	
MP 5103 Research Methodology	
MP 5105 Advanced Project Management	
MP 5xxx Elective-II	
MP 5xxx Elective-III	

Second Year

Fall Semester

MP 5111 Independent Research Study - I	MP 5103, 5202
MP 5211 Independent Research Study-II	MP 5103, 5202
MP 5xxx Elective-IV	

Spring Semester (Only for Thesis students)

MP 5xxx Thesis I*

Third Year

Fall Semester (Only for Thesis students)

MP 5xxx Thesis II	Thesis I
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*Thesis may be taken in place of IRS-I & IRS-II. Independent Research Study(IRS-I & II) can be opted in one semester simultaneously. However, thesis must be registered in two different semesters, for three credit hours each. Thesis can start only after 24 credit hours have been completed.

Students cannot register in Independent Research Study (IRS) or Thesis without completion of Research Methodology and Quantitative Tools for Research.



Regular course load for the program is 3+4+3 courses. Summer is not a regular semester. Therefore, courses are not offered on a regular basis in summer.

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.

MS (Project Management) Bridge Arrangement

This arrangement allows MPM graduates to enhance their academic qualification. For MPM graduates, a maximum of six courses can be transferred to MSPM program; subject to passing the courses with a minimum 2.75 grade points and on surrendering the MPM degree. Project and Software Tools for Project Management are not transferrable towards MSPM degree completion requirements for MPM graduates.

Master of Science in Management Sciences

There are two streams available for Master of Science. 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 required to be completed. The time limit to earn MS degree is from 1.5 to 4 years. The details of two streams is as follows:

1. MS By Course Work Stream

The Scheme of Study is as follows:

- Six Compulsory Courses
- Four Electives
- No IRS or Thesis

Compulsory Courses

MS 5104 Strategic Marketing Decisions

MS 5132 Applied Strategic Management

MS 5137 Research Methods and Techniques

MS 5204 Quantitative Tools for Research

MS 5238 Strategic Human Resource Development

MS 5318 Strategic Finance

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

- Finance
- Marketing
- Human Resource Management

2. MS By Research Work Stream

The Scheme of Study is as follows:

- Six Compulsory Courses
- Two Electives
- Two IRS or Thesis

Compulsory Courses

MS 5104 Strategic Marketing Decisions

MS 5132 Applied Strategic Management

MS 5137 Research Methods and Techniques

MS 5204 Quantitative Tools for Research

MS 5238 Strategic Human Resource Development

MS 5318 Strategic Finance

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

- **F**inance
- Marketing
- Human Resource Management

First Year

Fall Semester

MS 5104	Strategic Marketing Decisions	
MS 5132	Applied Strategic Management	
MS 5137	Research Methods and Techniques	
MS 5238	Strategic Human Resource	
	Development	

First Year

Fall Semester

MS 5104	Strategic Marketing Decisions	
MS 5132	Applied Strategic Management	
MS 5137	Research Methods and Techniques	
MS 5238	Strategic Human Resource	
	Development	



Spring Semester

	Quantitative Tools for Research	
MS 5318	Strategic Finance	
MS 5xxx	Elective I	
MS 5xxx	Elective II	

Second Year

Fall Semester

MS 5xxx	Elective III	
MS 5xxx	Elective IV	

ELECTIVES

Finance

MS 5103	Managerial	Franchics

MS 5105 Econometrics

MS 5111 Derivatives and Financial Risk

MS 5113 Financial Time Series

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 5317 Seminars in Finance

MS 5412 Islamic Banking and Finance

MS 5414 Applied Econometrics

MS 5421 Capital Asset Pricing Model

MS 5425 Empirical Asset Pricing

MS 5426 Mathematical Modelling in Finance

Marketing

MS 5249 Advanced Marketing Strategies

MS 5301 Seminars in Marketing

MS 5422 Distribution and Channel Management

MS 5424 Strategic Brand Management

MS 5428 Global Marketing Strategies

MS 5431 Strategic Entrenpreneurial Marketing

Human Resource Management

MS 5101 Change Management

MS 5102 Organizational Development

MS 5202 Organizational Strategies and Effectiveness

MS 5203 Global Corporate Strategy

Spring Semester

Spring semisorer		
MS 5204	Quantitative Tools for Research	
MS 5318	Strategic Finance	
MS 5xxx	Elective I	
MS 5xxx	Elective II	

Second Year

Fall Semester Pre-Req. MS 5119 Independent Research Study - I

OR

Fall Semester (Only for Thesis Students)

MS 5219 Independent Research Study - II

	MS 5137, MS 5204 MS 5416 MS 5131

Spring Semester (Only for Thesis Students)

MS 5xxx 7	Thesis (Part II)	Thesis-I

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

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.

Students can register in Independent Research Study (IRS) after completing six compulsory courses.

Students can take thesis only after completing 24 credit hours course work

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



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. 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.
- 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 PhD courses before completing prerequisite courses/thesis if any.
- Dissertation of 30 Credit Hours is Compulsory.
- Registration in Dissertation is allowed after passing Comprehensive Examination and maintaining minimum CGPA requirement.
- All the requirements of HEC pertaining to PhD must be fulfilled these are;
 - Passing GAT Subject with minimum 60% at the time of admission,
 - Maintaining minimum CGPA requirement for each course and for entire program.
 - Passing Comprehensive examination to establish the PhD candidacy (maximum 2 attempts allowed).
 - Publishing one Research Paper from the theses in W,X, and Y-category journal before the completion of 30 Credit Hours Dissertation.
- Elective Courses to be selected from the specialized area of Marketing, Finance and Human Resource Management.
- Maximum Course Load for each Semester is 9 Credit Hours.
- Time duration for PhD is Minimum 3 years and Maximum 8 years.
- All General guidelines mentioned in DOCTORAL DEGREE PROGRAMS are applicable on PhD-Management Science.

First Year

Fall Semester		Pre-Re	c
MS 6106	Advanced Research Methods		_

MS 6106	Advanced Research Methods	
	and Techniques	
MS 6216	Advanced Quantitative Tools	
	for Research	
MS 6xxx	Elective I	

Spring Semester

1 0		
MS 6xxx	Elective-II	
MS 6xxx	Elective-III	
MS 6xxx	Independent Research Study	MS 6106, MS 6216

Second Year

Fall Semester

MS 6xxx	Dissertation (Proposal in One or	
	Two Semester)	

Spring Semester

MS 6xxx	Dissertation	

Third Year

Fall Semester

IVIS 6XXX Dissertation	
Spring Semester	
MS 6xxx Dissertation	

ELECTIVES

Finance

MS 6111 Business Finance	and Decision Making
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MS 6113 Applied Econometrics

MS 6202 Econometrics

MS 6315 Capital Asset Pricing Model

MS 6317 Empirical Asset Pricing

MS 6318 Financial Markets

MS 6319 Modern Financial Applications

MS 6322 Behavioral Finance

MS 6323 Corporate Finance

MS 6325 Seminars in Finance

MS 6411 Financial Time Series

MS 6418 Operations and Mathematical Modeling

MS 6421 Corporate Finance Planning and Decision



MS 6422 Derivatives and Financial Risk

MS 6423 Managerial Economics

MS 6425 Strategic Finance

MS 6429 Islamic Banking and Finance

MS 6434 Mathematical Modeling in Finance

Marketing

MS 6204 Strategic Marketing Decisions

MS 6215 Seminars in Marketing

MS 6312 Advanced Marketing Strategy

MS 6316 Distribution and Channel Management

MS 6415 Strategic Brand Management

MS 6326 Advertising Research

MS 6428 Global Marketing Strategies

MS 6431 Marketing Metrics

MS 6432 Strategic Enterpreneurial Marketing

MS 6433 Strategic Social Marketing

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 6424 Strategic Management

MS 6426 Seminars in HRM

MS 6427 Applied Strategic Management

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.

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 in SS/CS/MBA program with the prior approval of respective program managers.









The department also offers MS Data Science, MS & PhD programs in Computer Science as well.

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

BS Computer Science

Course Title

Codes

The program is offered through a well-trained foreign qualified faculty. It consists of 41 courses (five courses per semester) with a total of 130 credit hours. BSCS Program is accredited by National Computing Education & Accreditation Council (NCEAC). The maximum time to complete the degree is six years.

BS (Computer Science) COURSE PLAN/ROADMAP

Codes	Course Title Cr.Hrs.		rre-Keq.		
First Year					
	Fall Semester				
CSC 1101	Calculus and Analytical Geometry	3			
CSC 1102	Calculus and Analytical Geometry3, 03English Composition and Comprehension3, 03				
CSC 1103	Fundamentals of Programming	3, 0	3		
CSCL 1103	Lab : Fundamentals of Programming	0, 1	1		
CSC 1107	Applied Physics	2, 0	2		
CSCL 1107	Lab : Applied Physics	0, 1	1		
CSC 1108	Introduction to Computer Science	2, 0	2		
CSCL 1108	Lab : Introduction to Computer Science	0, 1	1		
	Continue Commenter		16		
CSC 1208	Spring Semester	3,0	2	CSC 1103	
CSCL 1208	Object Oriented Programming Techniques	0, 1	3	CSC 1103	
CSC 2101	Lab: Object Oriented Programming Techniques Communication and Presentation Skills	3, 0	3	CSC 1102	
CSC 2101	Digital Logic Design	3, 0	3	CSC 1102 CSC 1107	
CSCL 2103	Lab: Digital Logic Design	0, 1	1	CSC 1107	
CSC xxxx		3, 0	3	+	
CSC xxxx					
	isianne studies / Trumannes	1 4, 0	_		
			16	-	
			16		
	Second Year		16		
	Second Year Fall Semester				
CSC 1201	Second Year Fall Semester Discrete Mathematical Structures	3,0	3 3	CSC 1208	
	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms	3,0	3	CSC 1208	
CSC 1201 CSC 2102	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms	3, 0 3, 0 0, 1	3	CSC 1208	
CSC 1201 CSC 2102 CSCL 2102	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms	3,0	3 3 1	CSC 1208	
CSC 1201 CSC 2102 CSCL 2102 CSC 2201	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language	3, 0 3, 0 0, 1 3, 0	3 3 1 3	CSC 1208	
CSC 1201 CSC 2102 CSCL 2102 CSC 2201 CSCL 2201	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language	3, 0 3, 0 0, 1 3, 0 0, 1	3 3 1 3 1	CSC 1208	
CSC 1201 CSC 2102 CSCL 2102 CSC 2201 CSCL 2201 CSC xxxx	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies	3, 0 3, 0 0, 1 3, 0 0, 1 2, 0	3 3 1 3 1 2	CSC 1208	
CSC 1201 CSC 2102 CSCL 2102 CSC 2201 CSCL 2201 CSC xxxx CSC xxxx	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies University Elective-1	3, 0 3, 0 0, 1 3, 0 0, 1 2, 0 3, 0	3 3 1 3 1 2 3	CSC 1208	
CSC 1201 CSC 2102 CSCL 2102 CSC 2201 CSCL 2201 CSC xxxx CSC xxxx	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies University Elective-1	3, 0 3, 0 0, 1 3, 0 0, 1 2, 0 3, 0	3 3 1 3 1 2 3 3	CSC 1208	
CSC 1201 CSC 2102 CSCL 2102 CSC 2201 CSCL 2201 CSC xxxx CSC xxxx CSC xxxx	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies University Elective-1 CS Supporting-1 Spring Semester Database Systems	3, 0 3, 0 0, 1 3, 0 0, 1 2, 0 3, 0 3, 0	3 3 1 3 1 2 3 3	CSC 1208	
CSC 1201 CSC 2102 CSCL 2102 CSC 2201 CSCL 2201 CSC xxxx CSC xxxx CSC xxxx CSC xxxx CSC xxxx	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies University Elective-1 CS Supporting-1 Spring Semester Database Systems Lab: Database Systems	3, 0 3, 0 0, 1 3, 0 0, 1 2, 0 3, 0 3, 0	3 3 1 3 1 2 3 3 19		
CSC 1201 CSC 2102 CSCL 2102 CSC 2201 CSCL 2201 CSC xxxx CSC xxxx CSC xxxx CSC xxxx CSC zxxx CSC zxxx CSC zxxx	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies University Elective-1 CS Supporting-1 Spring Semester Database Systems Lab: Database Systems Finite Automata Theory and Formal Languages	3,0 3,0 0,1 3,0 0,1 2,0 3,0 3,0 0,1 3,0	3 3 1 3 1 2 3 3 19		
CSC 1201 CSC 2102 CSCL 2102 CSCL 2201 CSCL 2201 CSC xxxx CSC xxxx CSC xxxx CSC zxxx CSC zxxx CSC z203 CSCL 2203 CSCL 2204 CSC 2206	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies University Elective-1 CS Supporting-1 Spring Semester Database Systems Lab: Database Systems Finite Automata Theory and Formal Languages Linear Algebra	3, 0 3, 0 0, 1 3, 0 0, 1 2, 0 3, 0 3, 0 0, 1 3, 0 0, 1 3, 0	3 3 1 3 1 2 3 3 19	CSC 2102	
CSC 1201 CSC 2102 CSCL 2102 CSC 2201 CSCL 2201 CSC xxxx CSC xxxx CSC xxxx CSC xxxx CSC 2203 CSCL 2203 CSCL 2203 CSC 2204 CSC 2206 CSC 3202	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies University Elective-1 CS Supporting-1 Spring Semester Database Systems Lab: Database Systems Finite Automata Theory and Formal Languages Linear Algebra Design and Analysis of Algorithms	3, 0 3, 0 0, 1 3, 0 0, 1 2, 0 3, 0 3, 0 0, 1 3, 0 0, 1 3, 0 0, 1 3, 0	3 3 1 3 1 2 3 3 19		
CSC 1201 CSC 2102 CSCL 2102 CSCL 2201 CSCL 2201 CSC xxxx CSC xxxx CSC xxxx CSC zxxx CSC zxxx CSC z203 CSCL 2203 CSCL 2204 CSC 2206	Second Year Fall Semester Discrete Mathematical Structures Data Structures and Algorithms Lab: Data Structures and Algorithms Computer Organization and Assembly Language Lab: Computer Organization and Assembly Language Pakistan Studies University Elective-1 CS Supporting-1 Spring Semester Database Systems Lab: Database Systems Finite Automata Theory and Formal Languages Linear Algebra	3, 0 3, 0 0, 1 3, 0 0, 1 2, 0 3, 0 3, 0 0, 1 3, 0 0, 1 3, 0	3 3 1 3 1 2 3 3 19	CSC 2102	

Cr.Hrs.

Pre-Reg.

BS (Computer Science) COURSE PLAN/ROADMAP

Codes	Course Title Cr.Hrs.		lrs.	Pre-Req.
	Third Year			
	Fall Semester			
CSC 2205	Operating Systems	3,0	3	CSC 2102
CSCL 2205	Lab: Operating Systems	0, 1	1	
CSC 3109	Software Engineering	3,0	3	
CSC 3201	Compiler Construction	3,0	3	CSC 2204
CSC xxxx	CS Supporting-2	3,0	3	
CSC xxxx	CS Supporting-3	3,0	3	
			16	
	Spring Semester			
CSC 1205	Technical and Business Writing	3,0	3	
CSC 3205	Computer Networks and Data Communications	3, 0	3	
CSCL3205	Lab: Computer Networks and Data Communications	0, 1	1	
CSC 4101	Artificial Intelligence	3,0	3	CSC 1201
CSCL4101	Lab: Artificial Intelligence	0, 1	1	
CSC 4xxx	CS Elective-1	3, 0	3	
CSC 4xxx	CS Elective-2 3, 0 3			
			17	
	Fourth Year			
	Fall Semester			
CSC 4102	Professional Practices	3, 0	3	
CSC 4105	Final Year Project-I	0,3	3	
CSC 4106	Parallel and Distributed Computing	3, 0	3	CSC 2205
CSC 4xxx	CS Elective-3	3, 0	3	
CSC xxxx	University Elective-3	3, 0	3	
		·	15	
	Spring Semester			
CSC 4201	Information Security	3, 0	3	
CSC 4205	Final Year Project-II	0,3	3	CSC 4105
CSC 4xxx	CS Elective-4	3, 0	3	
CSC 4xxx	CS Elective-5	3,0	3	
CSC xxxx	University Elective-4	3,0	3	
			15	
Total			130	

ACSC xxxx Mathematics deficiency course will be offered to those students who have limited mathematical background (if deemed necessary by relevant PM/HOD).



CS ELECTIVES

CSC 4505 Systems Administration

200	by sterris i tarring traction
CSC 4703	Applied Data Mining
CSC 4706	Digital Image Processing
CSC 4708	Enterprise Resource Planning
CSC 4709	Internet Business Models
CSC 4712	IT Innovations
CSC 4714	Network Security and Encryption
CSC 4716	Switching and Routing
CSC 4717	Web Technologies-I
CSC 4718	Wireless and Mobile Technologies
CSC 4719	Game Development
CSC 4721	Introduction to Cloud Computing
CSC 4802	Android Application Developmen
CSC 4803	Auditing Information Systems
CSC 4805	Data and Network Security
CSC 4806	Digital Signal Processing
CSC 4807	Embedded Programming
CSC 4808	Ethical Hacking
CSC 4809	iOS Development
CSC 4812	Mechatronics
CSC 4813	Modeling and Simulation
CSC 4814	Software Project Management
CSC 4815	Software Engineering-II
CSC 4816	Technopreneurship
CSC 4817	Web Technologies-II
CSC 4818	Data Science
CSC 4824	Embedded Systems
CSC 4823	Interaction Design
CSC 4825	Computer Graphics
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UNIVERSITY ELECTIVES

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

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

COMPUTER SCIENCE SUPPORTING COURSES

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

CSC 2121	Theory of Programming Languages
CSC 2122	Differential Equations
CSC 2123	Graph Theory
CSC 2124	Multivariate Calculus
CSC 2125	Numerical Computing

DISTRIBUTION OF CREDIT HOURS.

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

Internship

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

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



BS Software Engineering

The current century is all about software as it has become part of almost every aspect of our daily lives. Software engineering is the application of proven scientific and engineering principles to the construction and management of software systems that not only meet their intended requirements and are costeffective but also withstand lasting value.

Software engineering is a discipline within the ambit of Computer Science concerned with the processes, methodologies, tools and techniques of developing high quality software systems. The BS Software Engineering program aims to equip students with the pertinent skills that are widely applicable, highly in demand and amply rewarded. 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 core courses focus on the fundamentals of software engineering followed by a broader range of courses through which students can choose to specialize their learning. The BS Software Engineering curriculum covers all important facets of the discipline of software engineering including: project management, requirements analysis, software architecture, software development and quality assurance. Throughout the degree program, students are exposed to the theory, techniques, tools and practicalities of software engineering.

The BS Software Engineering program is offered through a trained foreign qualified faculty. It consists of 41 courses with a total of 130 credits hours. The maximum duration to complete the degree is six years.

BS (Software Engineering) COURSE PLAN/ROADMAP

Code	Course Title Cr. Hrs.				
First Year					
	Fall Semester				
CSC 1101	Calculus and Analytical Geometry	3, 0	3		
CSC 1102	English Composition and Comprehension	3, 0	3		
CSC 1103	Fundamentals of Programming	3, 0	3		
CSCL 1103	Lab: Fundamentals of Programming	0, 1	1		
CSC 1104	Physics	3, 0	3		
CSC 1108	Introduction to Computer Science	2, 0	2		
CSCL 1108	Lab: Introduction to Computer Science	0, 1			
			16		
	Spring Semester				
CSC 1208	Object Oriented Programming Techniques		3	CSC 1103	
CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	1	CSC 1103	
CSC 2101	Communication and Presentation Skills	3, 0	3	CSC 1102	
SEC xxxx	Software Engineering	3, 0	3		
CSC 1201	Discrete Mathematical Structures	3, 0	3		
CSC xxxx	Islamic Studies / Humanities	2, 0	2		
SEC xxxx	University Elective-I	3, 0	3		
			18		
	ELEBRATING				



	Second Year			
	Fall Semester			
CSC 2102	Data Structures & Algorithms	3, 0	3	CSC 1208
CSCL 2102	Lab: Data Structures & Algorithms	0, 1	1	CSC 1208
SEC xxxx	Software Requirement Engineering	3, 0	3	Software Engineering
CSC 3102	Human Computer Interaction	3, 0	3	Software Engineering
SEC xxxx	Linear Algebra	3, 0	3	
CSC xxxx	Pakistan Studies	2, 0	2	
SEC xxxx	University Elective-II	3, 0	3	
			18	
	Spring Semester	•		
CSC 2205	Operating Systems	3, 0	3	CSC 2102
CSCL 2205	Lab: Operating Systems	0, 1	1	CSC 2102
CSC 2203	Database Systems	3, 0	3	CSC 2102
CSCL 2203	Lab: Database Systems	0, 1	1	CSC 2102
SEC xxxx	Software Design & Architecture	2, 0	2	Software Requirement Engineering
SECL xxxx	Lab: Software Design & Architecture	0, 1	1	Software Requirement Engineering
SEC xxxx	Probability and Statistics	3, 0	3	
SEC xxxx	University Elective – III	3, 0	3	
			17	
	Third Year			
	Fall Semester			
SEC xxxx	Software Construction and Development	2, 0	2	Software Design and Architecture
SECL xxxx	Lab: Software Construction and Development	0, 1	1	Software Design and Architecture
CSC 3202	Data Communication Computer Networks	3, 0	3	
CSCL 3205	Lab: Data Communication Computer Networks	0, 1	1	
CSC 1205	Technical and Business Writing	3, 0	3	CSC 2102
SEC xxxx	SE Supporting –I	3, 0	3	
SEC xxxx	SE Supporting –II	3, 0	3	
			16	
	Spring Semester	- 'I		
SEC xxxx	Software Quality Engineering	3, 0	3	Software Engineering
SEC xxxx	Information Security	3, 0	3	
CSC 4102	Professional Practice	3, 0	3	
SEC xxxx	Web Engineering	3, 0	3	
SEC 4xxx	SE Elective – I	3, 0	3	
SEC 4xxx	SE Supporting – III	3,0	3	
			18	
	Fourth Year			
	Fall Semester			
CSC 4814	Software Project Management	3, 0	3	Software Engineering
SEC xxxx	Software Re-Engineering	3, 0	3	Software Construction & Development
SEC xxxx	SE Elective –II	3, 0	3	
SEC xxxx	SE Elective – III	3, 0	3	
SEC xxxx	Final Year Project – I	0,3	3	

Spring Semester				
SEC xxxx	SE Elective – IV	3,0	3	
SEC xxxx	SE Elective – V	0,3	3	
SEC xxxx	Final Year Project – II	3,0	3	
SEC xxxx	University Elective – IV	3,0	3	
			12	

SE Electives

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

SE Supporting courses

CSC 2103	Digital Logic Design
SEC xxxx	Business Process Engineering
SEC xxxx	Formal Methods in SE
SEC xxxx	Operations Research
SEC xxxx	Stochastic Processes

SEC xxxx Global Software Development

University Elective Courses

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

ation DISTRIBUTION OF CREDIT HOURS

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

Internship

The internship is scheduled 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.





MS Computer Science

SZABIST offers MSCS degree in three domains: Core Computer Science area and in two specialization tracks, i.e. Software Engineering (SE) and Networks and Security (N&S) in order to cater the market needs. Students have to complete 4 focused courses in any specific domain.

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

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

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

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

First Year

First Semester

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

Second Semester

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

First Year

First Semester

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

Second Semester

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

Second Year

Third Semester

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

Second Year

Third Semester

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

Fourth Semester

CSC 5xxx	Thesis/Independent Research	
	Study-II OR Elective-V	
	(from CS-Stream)	
CSC 5xxx	Elective-VI (from CS Stream)	

Fourth Semester

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

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.



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

First Year

First Semester

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

Second Semester

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

Second Year

Third Semester

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

Fourth Semester

CSC/NSC	Thesis/Independent Research	
5xxx	Study-II or Elective-V	
	(from CS-Stream or N&S-Stream)	
NSC 5xxx	Elective-VI (from N&S-Stream)	

Electives

CS-Stream

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

SE-Stream

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

N&S-Stream

NSC 5161	Advanced Computer Networks
NSC 5162	Information Security
NSC 5163	Network Security
NSC 5164	Applied Cryptography
NSC 5261	Wireless Sensor Networks
NSC 5262	Advanced Data Communications
NSC 5263	Mobile Ad-hoc Networks
NSC 5264	Telecom Policies and Regulations

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)

CSC 4101	Artificial Intelligence
CSC 2204	Finite Automata Theory
CSC 2103	Digital Logic Design

MS (CS) with SE-Specialization

	r
CSC 4101	Artificial Intelligence
CSC 2204	Finite Automata Theory
CSC 2103	Digital Logic Design
CSC 3109	Software Engineering-I

MS (CS) with N&S-Specialization

CSC 3205	Data Communication and Computer
	Networks
CSC 2204	Finite Automata Theory
CSC 2103	Digital Logic Design

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



MS Data Science

The MS (Data Science) program is of 2-years duration offered in the evening. It requires 30 credit hours including 3 core courses (3x3=9) and 2 specialized data science courses (2x3=6). Thesis of 6 credit hours is mandatory.

The maximum time limit to complete the MS (Data Science) degree is 4 years.

Why Study Data Science?

The amount of data is growing so rapidly as well as it's significance in the emerging societal setups such as the pervasive Internet of Things. The way one imagines data is going to change in the coming years. Both Big Data Analytics and pervasive computing hinge on the principle axis of data analytics. MS (Data Science) program is going to be relevant in terms of job creation and artisanal smart business generation. Graduates from this program would definitely avail the

early-bird advantage.

Program Objectives

The MS (Data Science) program has been designed to give students the option to be part of a data science endeavor that begins with the identification of business processes, determination of data provenance and ownership, understanding the ecosystem of the business decisions, skill sets and tools that shape the data, making data amenable to analytics, identifying sub-problems, recognizing the technology matrix required for problem resolution, creating incrementally-complex data-driven models and then maintaining them to ultimately leverage them for business growth.

Individual objectives include:

- To equip students to transform data into actionable insights to make complex decisions.
- To enable students to understand and analyze problems and arrive at computable solutions.
- To expose students to the set of technologies that match those solutions.
- To gain hands-on experience on data-centric tools for statistical analysis, visualization and big data applications at the same rigorous scale as in a practical data science project.
- To understand the implications of handling data in terms of data security and business ethics.

Master of Science in Data Science

First Year

First Semester

DSC 5101	Statistical and Mathematical Methods for Data Science	
DSC 5102	Tools and Techniques in Data Science	
DSC 6xxx	Elective-I	

Second Semester

	Machine Learning	
DSC xxxx	Specialization-Elective-I	
DSC xxxx	Specialization-Elective-II	

Second Year

Third Semester

DSC 5109 Thesis (Part-I)	
DSC xxxx Elective-II	

Fourth Semester

DSC xxxx	Elective-III	
DSC xxxx	Thesis (Part-II)	



Course type	No. of courses x Credits	Cumulative credits
Core Courses	3 x 3	09
Specialization Courses	2 x 3	06
Electives	3 x 3	09
Thesis (Part-I & Part-II)	2 x 3	06
Total		30

Three Core Courses	Cr.Hrs	
DSC 5101 Statistical and Mathematical Methods for Data Science	3	
DSC 5102 Tools and Techniques in Data Science	2 + 1*	
DSC 5201 Machine Learning	3	

^{* 2+1} means 2 hours of lecture + 3 hours of lab work

Specialization Courses	Cr.Hrs
DSC 5223 Deep Learning	3
DSC 5241 Natural Language Processing	3
DSC 5242 Distributed Data Processing	3
DSC 5243 Big Data Analytics	3

Electives Courses

DSC 5121	Cloud Computing	DSC xxxx	Scientific Computing in Finance
DSC 5122	Data Visualization	DSC xxxx	Social Network Analysis
DSC 5123	Pattern Recognition	DSC xxxx	Text Mining
DSC 5221	Advanced Computer Vision	DSC xxxx	Time series Analysis and Prediction
DSC 5222	Research Methodology		•
DSC xxxx	Advanced Topics in Decision Support		
	Systems		
DSC xxxx	Algorithmic Trading		may not be offered in every semester.
DSC xxxx	Bayesian Data Analysis		ses may vary from time to time. Alternative
DSC xxxx	Bioinformatics	courses may	be substituted as and when required.
DSC xxxx	Business Context Modelling		
DSC xxxx	Computational Genomics		
DSC xxxx	Data Science in Cyber Security		
DSC xxxx	Data Science with R	Deficiency	Courses
DSC xxxx	Deep Reinforcement Learning		
DSC xxxx	Graph Analytics for Big Data		Programming Fundamentals
DSC xxxx	High Performance Computing		Database Systems
DSC xxxx	Implementing Predictive Analysis	DSC xxxx	Data Structures & Algorithms
DSC xxxx	Inference & Representation		OR
DSC xxxx	IoT for Smart Cities and Smart Homes	DSC xxxx	Design & Analysis of Algorithms
DCC	Mining Massive Datasets		
DSC XXXX	William g Wassive Datasets		
DSC xxxx	ě		



PhD (Computing)

The PhD program requires students to complete 48 credit hours. Course work of 18 credits (6 courses) is needed which includes core courses, electives and Independent Research Study. Dissertation of 30 credits is also required to complete. The maximum time limit to complete the PhD degree is 8 years.

First Year

Fall Semester

CSC 6101	Research Methodology*	
CSC 6xxx	Elective-I	
CSC 6xxx	Elective-II	

Spring Semester

	Independent Research Study	
CSC 6xxx	Elective-III	
CSC 6xxx	Elective-IV	

Second Year

Fall Semester

CSC 6xxx	Dissertation	



CSC	6222	Dissertation

Third Year

Fall Semester

CSC 6yyy	Dissertation	
CSC bxxx	Dissertation	

Spring Semester

CSC 6xx	Dissertation	
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Elective courses are listed under different streams in MS Computer Science program.

Followed by successfull completion of the course work, Comprehensive Examination is required to pass in order to acquire PhD Candidacy after which research period starts. The entire research work is carried out under the supervision of the PhD supervisor which is assigned and approved as per the university procedure. The complete research work is required to be submitted in the form of a "Dissertation" after a minimum period of two years.

PhD course work credits may be implemented via selection of a particular mode of course execution (as recommended by the BASR). The course of Research Methodology is compulsory if not done in Masters.









Department of Social Sciences

BS Social Sciences

SZABIST offers a comprehensive four year Bachelors degree in Social Sciences with majors in Economics, Political Science/International Relations, Sociology, Psychology, and Development Studies. The degree consists of 46 courses and a Research Project. The students are required to complete a total of 144 Credit hours and an internship. The maximum time limit to complete the degree is six years.

First Year

Fall Semester		Pre-Req.
SS 1105	Microeconomics	
SS 1109	Islamiat/Ethics and	
	Pakistan Studies	
SS 1115	Community Services	
SS 1116	English for General Purposes	
SS 1117	Computer and Web Skills	
SS 1201	Introduction to Social Sciences	

Spring Semester

SS 1155	Introduction to Political Science	
SS 1205	Macroeconomics	SS 1105
SS 2306	Psychology	
SS 2307	Sociology	
SS 2412	International Relations	
SS 4705	Sindh Studies	

Second Year

Fall Semester

SS 2313	Introduction to Social Psychology	SS 2306
SS 2314	Study of Anthropology	
SS 2316	English for Academic Purposes	SS 1116
SS 2318	Mathematics and Statistics	
SS 2413	Philosophy	
SS 1xxx	Elective-I	

Spring Semester

SS 1209	Social Policy	SS 2307
SS 2406	Gender Studies	
SS 2414	Introduction to Organizational	SS 2306
	Psychology	
SS 2418	Statistical Inferences	SS 2318
SS 3503	Development Studies	
	Elective-II	

Third Year

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

Spring Semester

SS 3504	Research Methods	
SS 3605	International Law and	
	Human Rights	
SS 3609	Language-II	SS 3509
SS 4xxx	Major-IV	
	Major-V	
SS 4xxx	Major-VI	

Fourth Year

Fall Semester

SS 2411	Environmental Studies	
SS 4707	Introduction to Health Psychology	SS 2306
SS 4709	Research Project-I	SS 3504, SS 2318, SS 2418
SS 4xxx	Major-VII	
SS 4xxx	Major-VIII	
SS 4xxx	Major-IX	

Spring Semester

SS 2405	Enlightenment	SS 2413
SS 4804	Public Policy	SS 1209
SS 4809	Research Project-II	SS 4709
SS 4xxx	Major-X	
	Major-XI	
	Major-XII	

ELECTIVES

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



MAJORS		SS 4275 SS 4276	Foreign Policy and International Politics International Institutions
Psycholo	gy	SS 4277	Modern Ideologies
SS 4111	Abnormal Psychology	SS 4278	Political Geography
SS 4112	Developmental Psychology	SS 4279	US and International Politics
SS 4113	Environmental Psychology		
SS 4114	Personality Theories	Developr	nent Studies
SS 4134	Cognitive Psychology	SS 1163	Development and Politics
SS 4135	Educational Psychology	SS 4128	Agriculture Economics
SS 4156	Clinical Psychology	SS 4138	Corporate Social Responsibility
SS 4167	Child Psychology	SS 4139	Development and Planning
SS 4168	Experimental Psychology	SS 4139	Gender and Development
SS 4211	Psychological Testing	SS 4181	Capabilities and Human Development
SS 4234	Psychodynamics	SS 4184	Poverty and Inequality
SS 4236	Positive Psychology	SS 4238	Social Entrepreneurship
SS 4255	Counseling and Psychotherapy	SS 4251	Sustainable Development
SS 4262	Physiological Psychology	SS 4269	Civil Society
SS 4267	Forensic Psychology	SS 4276	International Institutions
SS 4268	History of Psychology	SS 4706	Development Economics
SS 4297	Community Psychology	SS 4756	Econometrics
		SS 5104	Theories of Development
Sociolog	y		
SS 4138	Corporate Social Responsibility	Economic	es
SS 4141	Mass, Media and Society	SS 4128	Agriculture Economics
SS 4169	Citizenship	SS 4139	Gender and Development
SS 4171	Class, Caste, and Ethnicity in South Asia	SS 4147	Development and Planning
SS 4172	Political Sociology	SS 4155	Basic Econometrics
SS 4196	Social Theories-I	SS 4181	Capabilities and Human Development
SS 4197	The Sociology of Religion	SS 4182	Game Theory
SS 4237	Post-Colonial State and Social Development	SS 4183	Industrial Economics
SS 4238	Social Entrepreneurship	SS 4184	Poverty and Inequality
SS 4239	Social Justice	SS 4228	History of Economic Thoughts
SS 4241	Sociology of Education	SS 4249	Pakistan Economy
SS 4242	The Sociology of Poverty	SS 4251	Sustainable Development
SS 4269	Civil Society	SS 4261	Mathematical Economics
SS 4271	Peace Movements	SS 4281	Fiscal and Monetary Economics
SS 4272	Social Change in Pakistan	SS 4282	Growth
SS 4273	Urbanization	SS 4283	Labour Economics
SS 4295	Criminology	SS 4284	Trade Economics
SS 4296	Social Theories-II		
		All cours	es may not be offered in every semester.
	Science / International Relations	Elective courses may vary from time to time. Alternative	
SS 4119	Arms Control and Disarmament	courses m	nay be substituted as and when required.
SS 4174	Central and West Asian Studies	Full time	academic load is six courses. All students
SS 4175	European Studies		
SS 4176	Globalization and Global Governance	are required to register for full load in the first sem	
SS 4177	Middle Eastern Studies	Internshi	n
SS 4178	Muslim World		nship is scheduled for summer at the end of
SS 4179	Politics of Terrorism		year. After the completion of the 6-week
SS 4219	Peace Research		p, all students are required to submit a
SS 4222	Strategic Studies		nsive report giving details of their experience
SS 4274	Diplomacy, Conflict Resolution and Confidence Building Measures	and learn	



MS SS (Political Science, Economics, Psychology and Sociology)

There are two streams available for MS SS (Political Science, Economics, Psychology and Sociology) . One Stream is Course Work Based Stream and other one is Research based Stream. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In the Research Based Stream, the student is required to complete 8 Courses (24 Credit Hours) and Two IRS (6 Credit Hours) OR One Thesis (6 Credit Hours). In both the streams, 30 Credit hours are to be completed. The time limit to earn a MS degree is from 1.5 to 4 years. The detail of two streams is as follows:

1- MS (Course Based Stream)

The scheme of study is as follows:

- 02 core courses (6 Credit Hours)
- 08 Electives (24 Credit Hours)
- No IRS or Thesis

First Year

Fall Semester

SS 5121	Advanced Research Methods and	
	Techniques-I (Qualitative)	
SS 5122	Advanced Research Methods and	
	Techniques-II (Quantitative)	
SS 5xxx	Elective-I	
SS 5xxx	Elective-II	

Spring Semester

SS	5xxx	Elective-III	
SS	5xxx	Elective-IV	
SS	5xxx	Elective-V	
SS	5xxx	Elective-VI	

Second Year

Fall Semester

SS	5xxx	Elective-VII	
SS	5xxx	Elective-VIII	

Electives (Electives in any of the following specializations)

- Political Science
- Economics
- Psychology
- Sociology

2- MS (Research Based Stream)

The scheme of study is as follows:

- 02 core courses (6 Credit Hours)
- 06 Electives (18 Credit Hours)
- 02 IRSs or Thesis (6 Credit Hours)

First Year

Fall Semester

SS 5121	Advanced Research Methods and	
	Techniques-I (Qualitative)	
SS 5122	Advanced Research Methods and	
	Techniques-II (Quantitative)	
SS 5xxx	Elective-I	
SS 5xxx	Elective-II	

Spring Semester

SS 5xx	x Elective-III	
SS 5xx	x Elective-IV	
SS 5xx	x Elective-V	
SS 5xx	x Elective-VI	

Second Year

Fall Semester Pre-Req.

	True perioderic resourcir storery 1	SS 5121, SS 5122
SS 5xxx	Independent Research Study II	SS 5121, SS 5122

OR

Fall Semester (For thesis students only)

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Spring Semester (For thesis students only)

Electives (Electives in any of the following specializations)

- Political Science
- Economics
- Psychology
- Sociology



ELECTI	VES		
	itical Science)	MS (Soc	riology)
	Politics of Geo-Economics		NGO Management
	Democratization as a Global Process		Global Governance
			Cultural Anthropology
	Political Economy in the Global Perspective		
	NGO Management Issues in Pakistan's Political and		Sustainable Development Sacred and Secular
55 3226			
CC F 20/	Constitutional History		Gender and Human Rights
	Sacred and Secular	00 0002 CC E222	Sociology of Development
	Environmental Studies		Sociology of Gender Issues
	Globalization and Developing Countries		Social Change and Development
	Intellectual Property Rights and Laws		Sociology of Migration and Urbanization
	History of Ideas	SS 5336	Community Development
	Dynamics of Security	66 -00-	and Social Mobilization
	Political Theory		Community Organizing and Development
SS 5436	Role of Great Powers and		Contemporary Sociological Thoughts
	International Relations		Gender Issues in Global Scenario
	Critical Geo-Politics		Immigration in Contemporary Perspectives
	Foreign Policy of Pakistan	SS 5342	Industrial Sociology
SS 5439	Globalization in the 21st Century:	SS 5343	Leadership in Sociology: Theory and
	Challenges and Opportunities		Practice
	Globalization: Issues and Debates	SS 5344	Population and Development:
SS 5442	History of Economic Thought in		Current Issues and Future Implications
	Contemporary Perspective	SS 5345	Population Dynamics
SS 5443	Human Rights in International Perspective		Religion and Development
		SS 5347	Rethinking Global Development: New
MS (Eco			Frameworks for Understanding Poverty,
SS 5104	Politics of Geo-Economics		Inequality and Growth in 21 Century
SS 5202	Monetary Economics	SS 5348	Social Statistics
SS 5203	Public Finance	SS 5349	Sociology of Science, Knowledge
SS 5206	Political Economy in the Global Perspective		and Technology
	Public Policy Management	SS 5351	Sociology of Sexuality
SS 5223	Financial Time Series	SS 5352	Women Studies
SS 5228	Corporate Governance	SS 5353	Foundational Sociological Perspective
	Advanced Microeconomics		Law and Human Rights
SS 5232	Advanced Macroeconomics		Globalization: Issues and Debates
SS 5233	Advanced Econometrics		
SS 5234	International Trade	MS (Psy	rchology)
SS 5235	Gender Work and Economy		Psychotherapy and Counseling-I
	Economic Growth and Development		Assessment and Diagnosis-I
	Political Economy of Pakistan		Psychophysiology and
	Globalization and Developing Countries		Psychopharmacology
	History of Ideas	SS 5411	Assessment and Diagnosis-II
	Topics in Political Economy		Psychotherapy and Counseling-II
	Development Economics and Sustainability		Perspective in Organizational Psychology
	Gender Issues in Rural Development		Cross-Cultural Psychology
	Globalization in the 21st Century:		School Psychology
	Challenges and Opportunities		Gender Psychology
SS 5442	History of Economic Thought in		Use, Construction and
	Contemporary Perspective		Interpretation of Tests
	The state of the s	SS 5461	Applications of Contemporary
			Data Analysis Tools



PROSPECTUS 2020

SS 5462 Clinical Internship

SS 5463 Community Psychology

SS 5464 Consumer Behavior

SS 5465 Environmental Psychology

SS 5466 Marketing and Consumer Psychology

SS 5467 Organizational Conflict and Management

SS 5468 Organizational Culture and Development

SS 5469 Psychological Assessment in Organizational Psychology

SS 5471 Psychology of Leadership

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

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.







MS Development Studies

There are two streams available for MS (Development Studies). One Stream is Course Work Based Stream and other one is Research based Stream. In Course Work Stream, the student is required to complete 10 courses of 3 credit hours each. In the Research Based Stream, the student is required to complete 8 Courses (24 Credit Hours) and Two IRS (6 Credit Hours) OR One Thesis (6 Credit Hours). In both the streams, 30 Credit hours to be completed. The time limit to earn a MS degree is from 1.5 to 4 years. The detail of two streams is as follows:

1- MS (Course Based Stream)

The scheme of study is as follows:

- 02 Core Courses (6 Credit Hours)
- 02 University Electives (6 Credit Hours)
- 06 Electives (18 Credit Hours)
- No IRS or Thesis

First Year

Fall Semester

DS 5101 Research Methodologies	
DS 5102 Statistical Methods	
DS 5xxx University Elective-I	
DS 5xxx Elective-I	

Spring Semester

DS 5xxx University Elective-II	
DS 5xxx Elective-II	
DS 5xxx Elective-III	
DS 5xxx Elective-IV	

Second Year

DS	5xxx	Elective-V	
DS	5xxx	Elective-VI	

Electives

DS 5103 The Economics of Developing Countries

DS 5211 Public Policy Managment

DS 5312 Globalization & Developing Countries

DS 5313 The Political Economy of Pakistan

DS 5315 Gender and Development

DS 5316 Right Based Approaches to Development

DS 5317 Conflict Management & Negotiation Skills

DS xxxx Sustainable Mountain Development

DS xxxx Migration & Development

2- MS (Research Based Stream)

The scheme of study is as follows:

- 02 Core Courses (6 Credit Hours)
- 02 University Electives (6 Credit Hours)
- 04 Electives (18 Credit Hours)
- 02 IRSs or Thesis (6 Credit Hours)

First Year

Fall Semester

DS 5101 Research Methodologies	
DS 5102 Statistical Methods	
DS 5xxx University Elective-I	
DS 5xxx Elective-I	

Spring Semester

DS 5xxx University Elective-II	
DS 5xxx Elective-II	
DS 5xxx Elective-III	
DS 5xxx Elective-IV	

Second Year

Fall Semester	Pre-Req.
DS 5108 Independent Research Study-I	DS 5101, DS 5102
DS 5208 Independent Research Study-II	DS 5101, DS 5102

OR

Fall Semester (For thesis students only)

	DS 5xxx Thesis (Part I)	DS 5101, DS 5102
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Spring Semester (For thesis students only)

DS 5xxx Thesis (Part II)) Thesis-I
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University Electives

DS 5104 Theories of Development DS 5105 Disasters and Development DS 5204 Sustainable Development

DS 5314 Development Management

Thesis Option

Students may opt for thesis in lieu of two IRS. Thesis can be taken once all core courses & three elective courses, are completed. Registration in thesis is allowed in two semesters with 3 credit hours per semester.

Maximum two interdisciplinary courses can be allowed with the approval of the concerned program managers. 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.



The Faculty of Media Sciences at SZABIST offers the following undergraduate degree program:

Bachelor of Sciences in Media Sciences

(Film & Television Production, Advertising Strategy & Design and Journalism)

FACULTY OF MEDIA SCIENCES

Bachelor of Science in Media Sciences

The Faculty of Media Sciences at SZABIST offers a comprehensive 4-year Bachelor of Sciences in Media Sciences degree with majors in Film and Television Production, Advertising Strategy & Design, and Journalism.

To earn an undergraduate degree, students must enroll in and successfully complete a total of 135 credit hours which include 43 courses, a 6-credit thesis, and an internship (Forty-three courses include: 33 core courses, 7 major requirements in Film and Television Production, or Advertising Strategy & Design, or Journalism and 3 open electives). The maximum time limit to complete the degree is six years.

First Year

Fall Semester	Pre-Req.
MD1106 Photography	MD 1107
MD 1107 Drawing and Perspective	
MD 1115 Introduction to Media Industries	
MD 1116 Civilization Studies-I	
MD 1122 English for General Purposes	
MD 2402 Islamiat and Pakistan	
Studies/Humanities	

Spring Semester

MD 1104 Culture, Media and Society	MD 1115, MD 1122
MD 1211 Basic Design	MD 1107
MD 1217 Introduction to Sound	MD 3601
MD 1222 English for Academic Purposes	MD 1122
MD 2321 History and Aesthetics of Film	MD 2323
MD 3601 Art of Music	

Third Year

Fall Semester

MD 1213 Creative Writing	MD 1122, MD 1118
MD 2405 Media Laws and Ethics	MD 1115, MD 1222
MD 2423 Theatre Project	MD 1119
MD 2424 Media Psychology	MD 1104, MD 1222
MD 3523 Production Practices-II	MD 1217, MD 2313, MD 2323
MD 4xxx Major-I	MD 3523

Spring Semester

MD 3506 Theories of Visual Culture	MD 1104, MD 1222
MD 3518 Animation and Motion Graphics	MD 2425, MD 2427
MD 4701 State and Nation Building	MD 1216, MD 1222
in Pakistan	MD 1222
MD 4xxx Major-II	
MD 4xxx Major-III	
MD 4xxx Major-IV	

Second Year

Fall Semester	Pre-Req.
MD 1118 Topics in Asian Literature	MD 1222
MD 1216 Civilization Studies-II	MD 1116
MD 2313 Idea Development	MD 1107
MD 2323 Production Practices-I	MD 1107
MD 2427 Design Practices-I	MD 1211
MD 3505 Principles of Journalism	MD 1122

Spring Semester

MD 1119 Play Analysis	MD 1122
MD 2318 Historty of Commercial Art	MD 1107, MD 1211
MD 2325 Media Research	MD 1104, MD 1222
MD 2425 Audiovisual Editing	MD 2323, MD 1217
MD 3525 Radio Programming	MD 1217,
and Production	MD 3601
MD 3527 Design Practices-II	MD 2427

Fourth Year

Fall Semester

MD 4714 Producing Short Narratives	MD 3523
MD 4807 Thesis I	
MD 4xxx Major-V	
MD 4xxx Major-VI	
MD 4xxx Major-VII	
MD 4xxx Elective-I	

Spring Semester

MD 4808 Thesis-II	MD 4807
MD 4xxx Elective-II	
MD 4xxx Elective-III	



FACULTY OF MEDIA SCIENCES

MAJORS	IAJORS ELECTIVES		
,		MD 4732 Typography	
Film & Te	elevision Production	MD 4774	Media Anthropology
MD 4724	Documentary Vision	MD 4776	Media Convergence and Innovation
MD 4726	Directing-I	MD 4788	
	Directing-II	MD 4792	Music Production and Design
MD 4764	Production Design	MD 4854	Illustration
MD 4765	Basic Lighting	MD 4867	Topics in Film and Television
MD 4781	Sound Design	MD 4873	Modernity in Cinema in Bengal
MD 4789	Green Screen Keying and Composition	MD 4878	Design for Social Change
	for Production VFX	MD 4883	Urdu Literature in South Asian Cinema
MD 4821	Cinematography	MD 4886	Game Design
MD 4825	Screenwriting	MD 4888	Culture and Media in Sindh
MD 4829	Screenwriting-II	MD 4892	Music Theory and Performance
MD 4868	Production Practices-III		,
MD 4872	Visual Storytelling		
MD 4889	Narrative and Social Change	All course	es may not be offered in every semester.
	O		urses may vary from time to time. Alternative
Advertisi	ng Strategy & Design		ay be substituted as and when required.
MD 4723	Advance Animation		7
MD 4731	Advertising Research	Certain file	m and video production courses may require
MD 4736	Integrated Marketing Communications		l fees for equipment rental, film purchases,
MD 4739	Advertising Design and Concepts		. The Department of Media Sciences makes
MD 4754	Creative Aspects in Advertising		t to subsidize these costs in order to minimize
MD 4779	Digital Brand Communication		mpact on students.
MD 4782	Interaction Design		•
MD 4787	Digital Design and Publishing	Students enrolled full time are required to take at least	
MD 4833	Brand Management	5 courses in each semester. Students unable to enroll	
MD 4834	Advertising in Pakistan	full time should consult the Program Manager to	
MD 4835	Consumer Behaviour		y accommodation they might need.
MD 4837	Media Planning		
MD 4843	Campaign Strategy	All first semester students are required for 6 courses.	
MD 4846	New Media Advertising		register for thesis credits in the final semester,
MD 4847	Copywriting		nust have completed minimum of 38 courses.
		Students of	on academic probation will not be allowed
Journalis	n	to register	for thesis credits.
MD 4757	Feature Writing-I	-	
MD 4783	TV Journalism	Internshi	p
MD 4793	Citizen Journalism	The Facul	ty of Media Sciences requires all students to
MD 4794	Fashion Journalism	complete	a 6-week internship at an organization of
MD 4795	Reporting of Politics and Governance	their choi	ice by the end of their third year. Upon
MD 4839	Reporting the News	completio	n of the internship, students must submit a
MD 4859	Introduction to Photojournalism	compreher	nsive summary of what they learned following
MD 4864	Investigative Journalism and	their inter	nship.
	Crisis Reporting		
MD 4877	The International Newsroom	All stude	nts are also required to work within the
MD 4879	Multimedia Journalism		nt to organize department's annual media
MD 4893	Environmental Journalism	festival in	the third year of their degree.
MD 4894	Foreign Correspondence		
MD 4805	Page Iournaliem		



MD 4895 Peace Journalism MD 4896 Sports Reporting

ACADEMIC CALENDAR 2020-21 (Islamabad Campus)

ACADAMIC CALENDAR 2020-21 (Islamabad Campus)

FALL 2020

WEEK	COMMENTS
1	Course Registration
2	
3	
4	
5	Teaching Evaluation
6	Teaching Evaluation
7	Mid-term Exam for Undergraduate students
8	Mid-term Exam for Graduate students
9	
10	
11	Last Week to Withdraw from Courses
12	
14	
15	
16	Final Exam
17	Final Exam
18	
Sep 30, 2020	Faculty Meeting/Orientation
Oct 05, 2020	Students Orientation

Classes Commencement Date

Classes will commence from Oct 5, 2020 at Islamabad Campus.



ACADEMIC CALENDAR 2020-21 (Islamabad Campus)

ACADAMIC CALENDAR 2020-21 (Islamabad Campus)

SPRING 2021

WEEK	COMMENTS
1	Course Registration
2	
3	
4	
5	Teaching Evaluation
6	Teaching Evaluation
7	Mid-term Exam for Undergraduate students
8	Mid-term Exam for Graduate students
9	
10	
11	Last Week to Withdraw from Courses
12	
13	
14	
15	
16	Final Exam
17	Final Exam
18	
Feb 17, 2021	Faculty Meeting/Orientation
Feb 22, 2021	Students Orientation

Classes Commencement Date

Classes will commence from Feb 22, 2021 at Islamabad Campus.

CAMPUS WISE PROGRAMS OFFERING (FALL 2020)

PROGRAMS OFFERING AT DIFFERENT CAMPUSES OF SZABIST (FALL 2020)

	CAMPUS				
PROGRAMS	Karachi	Islamabad	Larkana	Hyderabad	Dubai
Bachelor of Business Administration (BBA)	/	/	/	~	~
BA (Hons.) in Business Studies (BABS)	~				
BS Accounting & Finance	/	/			
BS Entrepreneurship	/				
BS Computer Science	/	/	/		
BS Software Engineering					_
BS Media Science	/	/			
BS Social Sciences	/				
BE Mechatronic Engineering	/	·			
BS Biosciences	/				
BS Biotechnology	/				+
	/				
Bachelor of Law (LLB)			<i>'</i>		
Bachelor of Business Studies (BBS)				~	
Bachelor of Education (B.Ed.)	/			4	
Master in Business Administration (MBA)	/	<i></i>	/	/	
Executive MBA	✓	/			
Masters in Project Management	/	/			~
Professional MBA		~			
MBA in Banking & Finance	~		/		
Masters in Human Resource Management		/			
Master of Advertising	/				
MA Education	/				
MS Public Health (MSPH)	/				
MS Biosciences	/				
MS Computer Science	/	/			
MS (CS) with specialization in Software Engineering	/				
MS (CS) with specialization in Networks & Security	/				
MS Cyber Security					+ -
MS Media Studies		<u> </u>			-
MS Management Science	/	/			+
MS Business Analytics	~				
MS Development Studies MS Data Science		/			
		/			
MS Educational Leadership and Management	/				
MS Project Management	/	/			
MS Mechatronic Engineering	~				
MS Social Science	/	/			
MS (SS) with specialization in International Relations	~				
MS (SS) with specialization in Political Science		/			
MS (SS) with specialization in Economics	/	/			
MS (SS) with specialization in Psychology	/	/			
MS (SS) with specialization in Sociology	/	/			
PhD International Relations	/				
PhD Economics	/				
PhD Psychology	/				+
PhD Sociology	/				
PhD Computing	/	/			+
PhD Management Sciences		-			+
PhD Educational Leadership and Management	/	· ·			
PhD Biosciences	-				+
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Disclaimei

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.



We Just Don't Work Hard We Work Smart



SZABIST



Islamabad Campus

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