



SZABIST

Dubai Campus

**Discover
Yourself**



Prospectus 2023-2024

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology
- Karachi - Islamabad - Larkana - Hyderabad - Ghara - Dubai -



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

SHAHEED ZULFIKAR ALI BHUTTO INSTITUTE OF SCIENCE & TECHNOLOGY

THE VISION

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

THE MISSION

SZABIST is committed to produce highly qualified professionals to:

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

SHAHEED ZULFIKAR ALI BHUTTO



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

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

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

SHAHEED MOHTARMA BENAZIR BHUTTO



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

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

Reconciliation: Islam, Democracy and the West, 2008.

CHANCELLOR'S MESSAGE



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

At SZABIST, we believe that innovative thoughts and high ideals teach the values of hard work, creativity and continuous learning. We prepare our students for professional careers, therefore, we offer a wide variety of programs including Management and Computer Sciences.

The curriculum of each traditional and emerging program is approved by the Higher Education Commission (HEC), Pakistan and is taught by highly qualified and competent faculty members.

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

We are also developing our campus at Ghara, which opened in Fall 2022.

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

In order to augment students' learning experience and continuously improve the standard of education, the Institutional Research Department/Quality Enhancement Cell periodically assesses all programs to enhance the quality of education being imparted.

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

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

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

Dr. Azra Fazal Pechuho

Chancellor
SZABIST

PRESIDENT'S MESSAGE



It is my pleasure to welcome prospective students to Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST), a tertiary education institute known for its high quality and broad range of undergraduate and postgraduate programs and premium learning environment.

SZABIST believes in encouraging students to discover their talent and strengths and achieve their educational, professional, and personal aspirations.

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

SZABIST, guided by the vision of its Founding Chancellor, Shaheed Mohtarma Benazir Bhutto, is today a leading higher education institution for the youth of Pakistan aspiring for a high quality, relevant education. This prospectus provides you with comprehensive information about our programs. The Institute, in compliance with the requirements of Higher Education Commission and Accreditation Councils, has developed curricula which not only relates to prevailing market demand but also prepares students with the knowledge and skills for the future needs of Pakistan's growing economy.

We are proud of our competent faculty and professionals who teach according to rigorous academic standards, evolving market requirements and provide a supportive environment for personal development. In addition to a wide spectrum of disciplines as presented in this Prospectus, SZABIST also offers exciting opportunities for co-curricular activities.

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

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

Shahnaz Wazir Ali

President
SZABIST

VICE PRESIDENT'S (ACADEMICS) MESSAGE



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

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

The whole purpose of education is to create "Analytical Minds". As a responsible institution, we just don't believe in classroom studies but believe in complete personality development.

We, therefore, regularly conduct co-curricular and extracurricular activities through our various students' societies. We aim to prepare our students to be useful to society.

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

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

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

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

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

VICE PRESIDENT DEVELOPMENT AND FINANCE MESSAGE



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

Here we provide the environment, facilities, academic and professional experiences, and opportunities for research that aim at a creative, ethical, smart and holistic personality.

With the commencement of the new academic year, students are encouraged to utilize the wide range of services and facilities, the events, programs, seminars, and festivals that will make their life at SZABIST interesting.

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

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

Nasreen Haque

Vice President (Development and Finance)
SZABIST

INTRODUCTION

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) is a highly ranked and fully chartered institute of Pakistan established through a Legislative Act of Sindh Assembly (Sindh Act No. XI of 1995). It is approved and recognized by the Higher Education Commission (HEC) Pakistan as a degree awarding institution. All the programs offered at SZABIST are consistent with the guidelines laid by HEC. SZABIST comprises of five campuses located in Karachi, Hyderabad, Larkana, Islamabad and Dubai with a current student population of over 11,000. SZABIST has proudly awarded degrees to over 14,500 talented graduates. Our alumni are sought by national and multinational organizations and hold key positions in several reputable firms at national and international level. SZABIST Dubai offers undergraduate and graduate degrees in the disciplines of Management Sciences & Computer Sciences. SZABIST is ranked as one of the most reputed university by Higher Education Commission (HEC) and Chartered Inspection and Evaluation Committee (CIEC) Sindh. SZABIST Dubai Campus has international collaboration with University of Bedfordshire for undergraduate program in Computer Science. SZABIST Dubai Campus is located in Dubai International Academic City (DIAC), the world's only Free Zone dedicated to higher education. Here, in the company of some of the finest institutions from across the globe, we aspire to achieve new heights in the pursuit of knowledge and academic excellence. SZABIST is proud to offer education par excellence in the areas that are crucial for Pakistan's socioeconomic development.



INTRODUCTION



PROGRAMS & CURRICULA

DEGREES OFFERED

All five campuses of SZABIST offer various degree programs in different disciplines so please refer to page 24 for details.

Bachelor of Business Administration (BBA)

SZABIST offers a four-year (eight semesters) BBA degree program of 144 credit hours. This is SZABIST's flagship program. For the BBA program, students are required to complete 46 courses and a 03 credit hours Business Project & a 03 credit hours Community Service Project.

The program includes 42 compulsory courses and 4 electives from Finance, Management, Marketing and Entrepreneurship. To obtain the BBA degree, students have to complete 144 credit hours and six-week internship. Maximum time limit to complete the BBA degree is six years.

BBA program is an ACCA accredited program; those who complete BBA from SZABIST, will get an exemption in 06 out of 09 ACCA Foundation papers (F1, F2, F3, F5, F7 and F9). BBA Program has been accredited by National Business Education Accreditation Council (NBEAC) which is an independent professional council established by HEC and affiliated with Chartered Financial Analyst (CFA) Institute.

Bachelor of Science in Computer Science (BS CS)

SZABIST offers a four-year (eight semesters) BS Computer Science degree program which is accredited by National Computing Education & Accreditation Council, (NCEAC). The program covers a wide range of courses in core Computer Science, Information Technology and Software Engineering. The program is essentially a full time day program and consists of 41 courses (five courses per semester) with a total of 130 credit hours. Internship opportunities are provided to complete degree requirement. The maximum time limit to complete the degree program is six years.

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 careers. The distinct program is specifically designed for those executives who aim to improve 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 six semesters and consists of 66 credit hours. Twenty courses (60 credit hours), one Business Project (3 credit), and one Research Project (3 credit) are required to graduate. The maximum time limit to complete the EMBA degree is four years.

Master 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. MBA Program has been accredited by National Business Education Accreditation Council (NBEAC) which is an independent professional council established by Higher Education Commission.

SZABIST offers MBA Evening Program with specialization in Marketing, Finance, Management, Human Resource Management, Supply Chain Management, Banking and MIS. The maximum duration to complete MBA degree program is four years.

MBA program is intended for students having a four-year bachelor degree (e.g. BS-CS, BE, BBA etc.) or 16 years of education in different disciplines. The duration to complete this program is two years with 72 credit hours. Twenty-two courses (66 credit hours) and 6 credit hours of Research Project OR Thesis spread over two semesters (03+03) are required to complete the program. Students with BBA or equivalent qualification are exempted 36 credit hours of course work and they are required to complete remaining 36 credit hours in 1.5 years. Students are also required to undertake a six-week duration of internship during summer.

Master of Project Management (MPM)

The Master of Project Management (MPM) is designed to enable individuals to manage complex projects through modern project management approaches. MPM is a one-year weekend program comprising 30 credit hours spread over three semesters. A total of 10 courses are required to graduate. The maximum time limit to complete the MPM degree is four years.

Master of Science in Computer Science (MS CS)

Master of Science Computer Science offers degree in Core Computer Science at Dubai Campus. Students are required to complete required electives in Core CS. The program is of 2-year duration and is offered on the weekend. 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).

PROGRAMS & CURRICULA

Eligibility for this program is a 4-year BS (CS) or 2-year MCS degree from a recognized institution. The candidates with a 4-year professional degree (BE, MSc, etc.) may also apply but will require to complete deficiency conversion courses (up to 12 credit hours courses to be determined in consultation with Program Manager). The programs such as BSCS, BSIT, BSSE, BSCE & BSCSE shall not require any extra courses. As per HEC guidelines, all MS students are required to clear GRE or GAT General test or HAT relevant with minimum 50% score. The maximum time limit to complete the MS degree is four years.



Grading Plan

The following Letter Grade Plan is followed at SZABIST:

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



ADMISSION REQUIREMENTS

NOTE:

- All applicants will be required to appear in an entrance test and interview/group discussion held by SZABIST.
- 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 Islamiyat, Pakistan Studies & Urdu either with O Levels or SSC.
- Verification of last degree from Higher Education Commission of Pakistan (HEC) is mandatory for all Masters & MS students.
- Equivalency of international degrees from Higher Education Commission of Pakistan (HEC) is mandatory for all Masters & MS students.
- Students waiting for results can also apply.
- Admission of Foreign students are subject to clearance from the relevant Agencies/NoC from HEC.

BACHELOR DEGREE PROGRAMS

BBA/BS Programs

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

MASTERS DEGREE PROGRAMS

Master of Business Administration (MBA)

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

Master of Project Management (MPM)

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

Executive MBA

For admission in the EMBA program, the candidate must possess 16-year education or a 4-year bachelor degree with a minimum of 55% marks/ 2.50 CGPA from a university recognized by the Higher Education Commission (HEC) in any field of study with 3 years of professional work experience (verifiable) at some well-known organization. This requirement is necessary to seek admission in this program.

Master of Science in Computer Science

For admission to MSCS program, candidates must possess 16 years of relevant education with minimum 60% marks/2.0 CGPA from a university recognized by HEC. GAT (General) or HAT relevant is mandatory for MS students with minimum 50% score.

Admission Test Alternates

For Bachelors Programs

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

The scoring of SAT 1 will be considered as follows;

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

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

For Masters Programs

50% score of GMAT for Master Programs.

For MS Programs

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



ADMISSION REQUIREMENTS

Transfer Policies

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

Candidates will be required to clear all SZABIST admission requirements.

Bachelor Course Transfer

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

MPM Course Transfer

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

MBA Course Transfer

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

EMBA Course Transfer

A maximum of up to 33 credits may be considered for transfer into the EMBA program. Business Project and Research Project credits are not transferable.

MS Course Transfer

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

SZABIST Inter-Campus Transfer

For inter-campus transfer, the candidate must fulfill the admission requirements of the given program at the local campus as per applicable transfer policy. All courses/grades are transferable. A transfer fee will be payable by students transferring from any other SZABIST campus

Certificate Course Transfer

For transfer candidates from the SZABIST Certificate Programs, transferability of certificate courses is as follows: Maximum 05 courses are transferable in under graduate program.

2/3 courses are transferable in Masters or MS program.

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



LIFE AT SZABIST

FACILITIES

Video Conferencing

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

Student Placement Cell (SPC)

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

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

Seminars/Guest Speaker Sessions

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.

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.

Student Activities

Student campus activities are regularly organized throughout the academic year routed through the Student Advisor Office. Students also participate in the activities organized by Dubai International Academic City (DIAC) Student Hub and other universities. The Student Council at SZABIST Dubai function under the guidance of the Student Advisor's Office. SZABIST Dubai students have been always active as DIAC student reps as well.

SZABIST Dubai IEEE Student Chapter

IEEE SZABIST Student Chapter formed at Dubai Campus Computer Science Department. Quiz competitions and Innovative Idea Competitions have been organized by the Student Chapter since its formation.

Newletters

SZABIST publishes "SZAB'nings" from Karachi, "ZABNEWS" from Larkana and Islamabad and "INSIGHT" from Dubai. All previous issues of these publications and information on ongoing activities and events are available on the SZABIST website.



FACULTY OF MANAGEMENT SCIENCES



VISION

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

MISSION

SZABIST Faculty of Management Sciences is committed to:

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

FACULTY OF MANAGEMENT SCIENCES

BBA

SZABIST offers a four-year (eight semesters) BBA degree program of 144 credit hours. For the BBA program, students are required to complete 46 courses and a 03 credit hours Business Project & 03 credit hours Community Service Project. The courses include 42 compulsory courses and 4 electives from Management, Marketing, Finance, IT or Supply Chain Management. To obtain the BBA degree, students have to complete 144 credit hours and an internship. The degree needs to be completed within six years. BBA program is an ACCA accredited program; those who complete BBA from SZABIST, will get an exemption in 06 out of 09 ACCA Foundation papers (F1, F2, F3, F5, F7 and F9). BBA Program is also accredited by National Business Education Accreditation Council (NBEAC), and affiliated with Chartered Financial Analyst (CFA) Institute.

First Year

Fall Semester

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

Spring Semester

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

Second Year

Fall Semester

- BA 1201 Financial Accounting
- BA 1211 Logic and Critical Thinking
- BA 3504 Organizational Behavior
- BA 2303 Marketing Principles
- BA 1202 Macroeconomics
- BA 2406 Business and Electronic Communication

Spring Semester

- BA 2311 Business Statistics
- BA 2411 Cost and Management Accounting
- BA 2301 Introduction to Business Finance
- BA 2402 Retail Management
- BA 2403 Business Ethics
- BA 3507 Consumer Behavior

Third Year

Fall Semester

- BA 3501 Financial Markets and Institutions
- BA 3508 Media Management
- BA 3605 Statistical Inference
- BA 4706 Development Economics
- BA 4801 Law and Taxation
- BA xxxx University Elective -I (as offered by Campus)

Spring Semester

- BA 3601 Financial Management
- BA 3602 Marketing Management
- BA 3603 Business Research Methods
- BA 3607 Operations Management
- BA 4804 Human Resource Management
- BA xxxx University Elective-II (as offered by Campus)

Fourth Year

Fall Semester

- BA 3502 Entrepreneurship
- BA 4814 Project Management
- BA 4705 Services Marketing
- BA 4710 Business Project
- BA 4xxx Program Elective-I
- BA 4xxx Program Elective-II

Spring Semester

- BA 3505 Quantitative Skills
- BA 3613 World Economy
- BA 4704 Management Information Systems
- BA 4810 Community Service Project
- BA 4xxx Program Elective-III
- BA 4xxx Program Elective-IV

FACULTY OF MANAGEMENT SCIENCES

UNIVERSITY ELECTIVE

(To be offered by the campus as Compulsory courses)

BA 3506	Foreign Languages
BA 3519	Current Affairs
BA 3613	World Economy
BA 3614	Business Analysis and Forecasting*
BA 3619	Enterprise Management
BA 4701	Islamic Banking and Finance*
BA 4707	Marketing Research*
BA 3515	Graphic Design for Multimedia*
BA 3621	Professional Development
BA 3521	Auditing
BA 3522	Social Advocacy and Community Service
BA 3622	E-Commerce
BA 3523	Software Tools for Business*

ELECTIVES

Finance

BA 4115	Derivatives
BA 4214	Micro Finance
BA 4218	Financial Research
BA 4735	Islamic Banking and Finance*
BA 4719	Investment Banking
BA 4724	Financial Modeling
BA 4727	Dynamics of Banking
BA 4734	International Banking
BA 4752	Financial Reporting and Analysis
BA 4756	Econometrics
BA 4831	Portfolio and Investment Management
BA 4833	Security Analysis
BA 4834	Treasury and Funds Management
BA 4855	Financial Risk Analysis
BA 4867	Business Analysis and Forecasting*
BA 4769	Fintech
BA 4774	Alternative Investments

Marketing

BA 4116	Supply Chain Management
BA 4125	Emerging Media
BA 4126	Trade Marketing
BA 4217	Experiential Marketing
BA 4836	Marketing Research*
BA 4721	Advertising
BA 4722	Brand Management
BA 4739	Export Marketing
BA 4815	Event Management
BA 4816	Industrial Marketing
BA 4821	Media Planning
BA 4824	Sales Management
BA 4842	Graphic Design for Multimedia*
BA 4859	Product Innovation and Design
BA 4866	Integrated Marketing Communications
BA 4762	Digital Marketing
BA 4868	Marketing Analytics
BA 4874	E-Commerce*

Supply Chain Management

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

Management

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

Information Technology

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

Business Analytics

BA 4773	Programming for Business
BA 4871	Business Intelligence Tools and Techniques
BA 4872	Consumer Insights and Analytics
BA 4771	Block Chain for Business
BA 4772	Digital Assets
BA 4869	Social Media Analytics
BA 4863	Software Tools for Business*
BA 4867	Business Analytics and Forecasting*
BA 4868	Marketing Analytics

Entrepreneurship

BAxxx	Finance and Taxation for Entrepreneurs
BAxxx	Product Innovation and Design
BAxxx	Digital Entrepreneurship
BAxxx	Entrepreneurial Marketing
BAxxx	Family Business Management
BAxxx	Financial Venture
BAxxx	SME Management
BAxxx	Social Entrepreneurship
BAxxx	Technopreneurship

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

FACULTY OF MANAGEMENT SCIENCES

Internship

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

Executive Master of Business Administration (EMBA)

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

First Year

Fall Semester

- 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 Semester

- BE 5201 Applied Research Methods
- BE 5202 Business Finance
- BE 5203 Managerial Accounting and Control
- BE 5204 Managerial Economics
- BE 5205 Marketing Management
- BE 5206 Organizational Behavior

Second Year

Fall Semester

- BE 5301 Financial Management
- BE 5302 Human Resource Management
- BE 5303 Operations and Supply Chain Management
- BE 5309 Business Project
- BE 5xxx Program Elective-I (Marketing, HR, Finance and Supply Chain)

Spring Semester

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

ELECTIVES

Marketing

- BE 5321 Services Marketing
- BE 5334 Retail Management
- BE 5333 Media Planning and Management
- BE 5322 Advertising
- BE 5323 Brand Management
- BE 5324 Consumer Behavior

- BE 5325 Customer Relationship Management
- BE 5332 Integrated Marketing Communications
- BE 5326 Digital Marketing
- BE 5327 Emerging Media
- BE 5328 Experiential and Content Marketing
- BE 5329 Export Marketing
- BE 5331 Global Marketing
- BE 5335 SAP Sales and Distribution Module

Finance

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

Human Resource Management

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

Supply Chain Management

- BE 5631 Supply Chain Management
- BE 5623 Dynamics of Logistics and Distribution
- BE 5626 Operational Planning in Supply Chain
- BE 5627 Strategic Procurement in SCM
- BE 5621 Advance Manufacturing and TPM in SCM
- BE 5622 Detailed Scheduling and Planning in SCM
- BE 5624 Execution and Control of Operations in SCM
- BE 5629 Supply Chain Finance

FACULTY OF MANAGEMENT SCIENCES

BE 5632 SAP Procurement Module
BE 5633 SAP Production-Planning and
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 every year. Alternate courses may be substituted as and when needed.

MBA Program

For students with 4-year undergraduate degree/16 years of education, the minimum duration of the MBA program is 2-2.5 years. Twenty-two courses (66 credit hours) and 6 credit hours of Research Project OR Thesis spread over two semesters (3+3) are required to complete the program. Students are also required to complete a six-week internship. The maximum duration to complete MBA program is 4 years. MBA Program is also accredited by National Business Education Accreditation Council (NBEAC).

MBA (non-finance electives) students and alumni are exempted from all 13 courses of Chartered Institute of Management Accountants (CIMA) qualification, and are only required to pass three case studies. MBA students with finance electives and alumni are exempted from all 13 courses and operational-level case studies and will only attempt two case studies.

First Year

Fall Semester

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

Spring Semester

BA 5402 Macroeconomics*
BA 5205 Human Resources Management*
BA 5411 Cost and Management Accounting*
BA 5401 Introduction to Business Finance*
BA 5405 Statistical Inference*
BA 5501 Applied Research Methods

Second Year

Fall Semester

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

Spring Semester

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

* Exempted courses for BBA and Equivalent degree holders

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

First Year

Fall Semester

BA 5501 Applied Research Methods
BA 5203 Strategic Marketing
BA 5601 Strategic HRM
BA 5208 Strategic Finance

Spring Semester

BA 5104 Strategic Management
BA 5xxx Program Elective-I
BA 5xxx Program Elective-II
BA 5508 Research Project-I (3 Credits) Or
BA 5507 Thesis-I (3 Credits)

Second Year

Fall Semester

BA 5308 International Business
BA 5xxx Program Elective-III
BA 5xxx Program Elective-IV
BA 5608 Research Project-II (3 Credits) Or
BA 5607 Thesis-II (3 Credits)

All courses may not be offered in every semester. Alternative courses may be substituted as and when required.

*A student may take either Research Project or Thesis.

FACULTY OF MANAGEMENT SCIENCES

ELECTIVES

Finance

- BA 5131 Advance Financial Management
- BA 5132 Analysis of Financial Statements
- BA 5133 Corporate Finance
- BA 5134 Derivatives
- BA 5135 Financial Markets and Institutions
- BA 5138 Econometrics
- BA 5139 Financial Risk Analysis
- BA 5151 International Finance
- BA 5155 Mergers and Acquisitions
- BA 5179 Commodity Pricing
- BA 5187 Business Analysis and Forecasting
- BA 5229 Financial Modeling
- BA 5232 Portfolio and Investment Management
- BA 5254 Fundamentals of Financial Engineering
- BA 5262 Behavioral Finance
- BA 5284 Theory and Practice of Lending
- BA 5192 Financial Management Policy
- BA 5294 Venture Capital and Private Equity
- BA 5298 Financial Reporting and Analysis
- BA 5454 Real Estate Investments and Finance
- BA 5349 FinTech
- BA 5358 Applied Islamic Banking and Finance
- BA 5459 Islamic Capital and Money Markets

Banking

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

Human Resource Management

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

- BA 5292 HR Analytics
- BA 5297 Human Capital Development and Analytics
- BA 5335 Human Resource Audit
- BA 5332 Contemporary Issues in Human Resource Management
- BA 5435 Human Resource Management and Technology
- BA 5452 Psychological Contract in Organizations
- BA 5456 Leadership in Practice

Management

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

MIS

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

Business Analytics

- BA 5455 Business Data Visualization
- BA 5181 Business Intelligence and Data Warehousing
- BA 5236 Data Analytics for Business
- BA 5458 Business Intelligence Tools for Managers
- BA 5359 Digital Analytics & Consumer Insights

Marketing

- BA 5121 Advertising
- BA 5122 Brand Management
- BA 5123 Consumer Behavior
- BA 5124 Customer Relationship Management
- BA 5129 Services Marketing
- BA 5182 Trade Marketing
- BA 5186 Social Marketing
- BA 5217 Industrial Marketing
- BA 5224 Media Planning and Management

FACULTY OF MANAGEMENT SCIENCES

- BA 5226 Pharmaceutical Marketing
- BA 5227 Sales Management
- BA 5228 Retail Management
- BA 5246 Public Relations
- BA 5256 Integrated Marketing Communications
- BA 5259 Emerging Media
- BA 5264 Interactive Global and Regional Marketing
- BA 5269 Marketing Intelligence
- BA 5281 Digital Marketing
- BA 5286 Media Marketing
- BA 5293 New Product Development
Process and Innovation
- BA 5198 Experiential and Content Marketing
- BA 5438 Marketing Practices in Pakistan
- BA 5331 Marketing Analytics
- BA 5339 Packaging for Brands
- BA 5337 Retail Strategy and Structure
- BA 5437 Retail Supply Chain Management
- BA 5436 Retail Operation
- BA 5336 Retail Buying and Merchandising
- BA 5451 Strategic Entrepreneurship
- BA 5355 Marketing Strategies for Emerging
Economies
- Supply Chain Management (SCM)
- BA 5191 Advance Manufacturing and
TPM in SCM
- BA 5194 Supply Chain Finance
- BA 5214 Supply Chain Management
- BA 5263 Dynamics of Logistics and Distribution
- BA 5265 Operational Planning in Supply Chain
- BA 5266 Strategic Procurement in SCM
- BA 5287 Execution and Control of
Operations in SCM
- BA 5291 Detailed Scheduling and
Planning in SCM
- BA 5142 Materials Management
- BA 5338 Shipping in SCM
- BA 5432 Green Supply Chain Management
- BA 5431 Supply Chain Operations
- BA 5449 Strategic Warehouse Management
- BA 5439 Green Logistics
- BA 5237 Demand Planning and Forecasting in Supply Chain
- BA 5144 Distribution and Supply Chain Network Design
- BA 5356 International Trade Procedures and Practices
- BA 5143 Digital Supply Chain

- Non-Credit Hours Course
- BA 5110 Software Tools for Business

Internship

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



FACULTY OF MANAGEMENT SCIENCES

Master of Project Management (MPM)

Master of Project Management is designed to provide individuals with cutting edge insights of project management to manage complex projects. Through this one year degree program, students can gain actionable knowledge for real-world challenges which goes beyond traditional project management fundamentals. The classes are offered on the Weekend (Sunday). It comprises of 30 credit hours spread over two semesters. Minimum ten courses are required to graduate. The maximum time to complete the degree is 4 years.

PROGRAM OBJECTIVES

- To build proficiency in advance knowledge of project management processes group (project life cycle).
- To build, integrate and apply project management knowledge areas, tools, techniques, and contemporary best practices through project life cycle for projects' outcomes.
- To determine the strategic intent of the organization and integrate it into portfolio and project objectives and outcomes for sustainable organizational competitiveness in changing environment.
- To develop leadership skills in developing project team and managing stakeholders' relationship effectively in multi-context projects.
- To support and demonstrate ethical and professional behavior and compliance to legal and regulatory requirements relating to projects.
- To produce a comprehensive project plan in multi-context environment

PROGRAM LEARNING OUTCOMES

- Integrate and evaluate management knowledge areas, best practices, and emerging trends in making projects' related decisions through projects' life cycle in organizations.
- Build and apply enhanced competence in organizational strategic intent and integrate it into planning and governance through the project life cycle of national and international projects.
- Evaluate and apply leadership skills (emotional intelligence, communication, and interpersonal skills, team building, problem-solving negotiation, and conflict resolution) in developing engagement and building partnerships with stakeholders to create synergy in multi-context projects in a complex business environment.
- Integrate and apply appropriate tools, techniques, and project management approaches in managing projects effectively.
- Demonstrate ethical and professional behavior and compliance to legal and regulatory requirements through the project life cycle.
- Create and present a comprehensive project plan is relevant to students' professional domains.

First Year

Fall Semester

- PM 5113 Principles of Project Management
- PM 5112 Organizational Project Management
- PM 5111 Leadership and Work Ethics

Spring Semester

- PM 5114 Project Scope and Scheduling Management
- PM 5104 Cost and Financial Management for Project Management
- PM 5351 Project Risk Management

Summer Semester

- PM 5207 Software Tools for Project Management
- PM 5xxx Elective-I
- PM 5xxx Elective-II
- PM 5208 Capstone Project

FACULTY OF MANAGEMENT SCIENCES

ELECTIVE

IT/Telecom

- PM 5157 Agile Project Management
- PM 5152 Innovation and Technology Management
- PM 5159 Project Analytics
- PM 5162 Telecom Project Management
- PM 5158 Digital Project Management
- PM 5161 Project Resource and Communication Management

Govt/NGO

- PM 5361 Government Planning and Development Management
- PM 5364 Public Private Partnership Management
- PM 5362 NGO Project Management
- PM 5363 Project Governance, Monitoring, and Evaluation
- PM 5365 Sustainable Development Projects
- PM 5155 Project Program Portfolio Management

Construction/Manufacturing

- PM 5259 Construction Project Management
- PM 5263 Project Procurement and Contractual Management
- PM 5264 Project Simulation
- PM 5301 Project Quality Management
- PM 5261 Blockchain Project Management
- PM 5262 Construction Quality and Cost Management

All courses may not be offered every semester. Alternative courses may be substituted as and when required.



FACULTY OF COMPUTING AND ENGINEERING SCIENCES



DEPARTMENT OF COMPUTING

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

PROGRAMS

The Department of Computing at SZABIST offers degree program both at undergraduate and graduate level. All programs being offered in the Department of Computing are fully in-line with the guidance of Higher Education Commission and in accordance with the national and global industrial needs. The programs being offered at the Department of Computing are accredited by National Computing Education Accreditation Council (NCEAC), Pakistan. The Department of Computing offers following degree programs:

- Bachelors of Science in Computer Science at Dubai Campus
- Bachelors of Science in Software Engineering
- Masters of Science in Computer Science
- Doctor of Philosophy in Computing

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

BS Computer Science

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

BS (Computer Science) COURSE PLAN (ROADMAP)

Sem.	Codes	Course Title	Cr.Hrs.		Pre-Req.
First Year					
Fall Semester					
	CSC 1101	Calculus and Analytical Geometry	3, 0	3	
	CSC 1102	English Composition and Comprehension	3, 0	3	
	CSC 1103	Fundamentals of Programming	3, 0	3	
	CSCL 1103	Lab : Fundamentals of Programming	0, 1	1	
	CSC 1107	Applied Physics	2, 0	2	
	CSCL 1107	Lab : Applied Physics	0, 1	1	
	CSC 1108	Introduction to Computer Science	2, 0	2	
	CSCL1108	Lab : Introduction to Computer Science	0, 1	1	
	CSC 1109	Pakistan Studies	2, 0	2	
18					
		Spring Semester			
	CSC 1208	Object Oriented Programming Techniques	3, 0	3	CSC 1103
	CSCL 1208	Lab: Object Oriented Programming Techniques	0, 1	1	CSCL 1103
	CSC 2101	Communication and Presentation Skills	3, 0	3	CSC 1102
	CSC 2103	Digital Logic Design	3, 0	3	CSC 1107
	CSCL 2103	Lab: Digital Logic Design	0, 1	1	CSCL 1107
	CSC 1206	Probability and Statistics	3, 0	3	
	CSC 1209	Islamic Studies/ Humanities	2, 0	2	
16					
Second Year					
Fall Semester					
	CSC 1201	Discrete Mathematical Structures	3, 0	3	
	CSC 2102	Data Structures and Algorithms	3, 0	3	CSC 1208
	CSCL 2102	Lab: Data Structures and Algorithms	0, 1	1	CSCL 1208
	CSC 2201	Computer Organization and Assembly Language	3, 0	3	
	CSCL 2201	Lab: Computer Organization and Assembly Language	0, 1	1	
	CSC xxxx	University Elective-1	3, 0	3	
	CSC xxxx	CS Supporting-1	3, 0	3	
17					
Spring Semester					
	CSC 2203	Database Systems	3, 0	3	CSC 2102
	CSCL 2203	Lab: Database Systems	0, 1	1	CSCL 2102
	CSC 2204	Finite Automata Theory and Formal Languages	3, 0	3	
	CSC 2206	Linear Algebra	3, 0	3	
	CSC 3202	Design and Analysis of Algorithms	3, 0	3	CSC 2102
	CSC xxxx	University Elective -2	3, 0	3	
16					

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

Third Year					
Fall Semester					
	CSC 2205	Operating Systems	3, 0	3	CSC 2102
	CSCL 2205	Lab: Operating Systems	0, 1	1	
	CSC 3109	Software Engineering	3, 0	3	
	CSC 3201	Compiler Construction	3, 0	3	CSC 2204
	CSC xxxx	CS Supporting -2	3, 0	3	
	CSC xxxx	CS Supporting-3	3, 0	3	
			16		
Spring Semester					
	CSC 1205	Technical and Business Writing	3,0	3	
	CSC 3205	Computer Networks and Data Communications	3,0	3	
	CSCL 3205	Lab: Computer Networks and Data Communications	0, 1	1	
	CSC 4101	Artificial Intelligence	3, 0	3	CSC1201
	CSCL 4101	Lab: Artificial Intelligence	0, 1	1	
	CSC 4xxx	CS Elective-1	3, 0	3	
	CSC 4xxx	CS Elective-2	3, 0	3	
			17		
Fourth Year					
Fall Semester					
	CSC 4105	Final Year Project-I	0, 3	3	
	CSC 4106	Parallel and Distributed Computing	3, 0	3	CSC 2205
	CSC 4xxx	CS Elective-3	3, 0	3	
	CSC 4102	Professional Practices	3, 0	3	
	CSC xxxx	University Elective-3	3, 0	3	
			15		
Spring Semester					
	CSC 4201	Information Security	3, 0	3	
	CSC 4205	Final Year Project-II	0, 3	3	
	CSC 4xxx	CS Elective-4	3, 0	3	
	CSC 4xxx	CS Elective-5	3, 0	3	
	CSC xxxx	University Elective-4	3, 0	3	
			15		
			130		

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

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

CS ELECTIVES

CSC 4802	Android Application Development
CSC 4703	Applied Data Mining
CSC 4803	Auditing Information Systems
CSC 4804	Business Process Re-engineering
CSC 4705	Control Systems
CSC 4805	Data and Network Security
CSC 4807	Embedded Programming
CSC 4708	Enterprise Resource Planning
CSC 4808	Ethical Hacking
CSC 4709	Internet Business Models
CSC 4809	iOS Development
CSC 4712	IT Innovations
CSC 4713	Managing Data-Center Projects
CSC 4812	Mechatronics
CSC 4813	Modeling and Simulation
CSC 4714	Network Security and Encryption
CSC 4815	Software Engineering-II
CSC 4814	Software Project Management
CSC 4716	Switching and Routing
CSC 4816	Technopreneurship
CSC 4717	Web Technologies-I
CSC 4817	Web Technologies-II
CSC 4718	Wireless and Mobile Technologies
CSC 4823	Interaction Design
CSC 4719	Game Development
CSC 4721	Introduction to Cloud Computing
CSC 4822	Software Engineering Economics
CSC 4818	Data Sciences
CSC 4824	Embedded Systems
CSC 4825	Computer Graphics
CSC 4722	Introduction to Blockchain Technology
CSC 4723	Blockchain and Smart Contract Development
CSC 4724	User Interface Design
CSC 4725	Introduction to Development and Operations
CSC 4726	Systems and Network Administration
CSC 4723	Hybrid Mobile Application Development

UNIVERSITY ELECTIVES

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

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

COMPUTER SCIENCE SUPPORTING COURSES

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

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

DISTRIBUTION OF CREDIT HOURS

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

Internship

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



FACULTY OF COMPUTING AND ENGINEERING SCIENCES

MS Computer Science

SZABIST offers MSCS degree in Core Computer Science, Software Engineering (SE) and Networks and Security (N&S). At SZABIST Dubai at present MSCS is offered in Core Computer Science domain in order to cater to the market needs. Students have to complete 04 focused courses in any specific domain.

The program is of 2-year duration and is offered on the weekend (Sunday). 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 the 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 9 courses (27 credit hours) and two Independent Research Studies (6 credit hours) OR one Thesis (6 credit hours).

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

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

First Year

First Semester

CSC 5105 Research Methodology
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5101 Advanced Algorithms Analysis

Third Semester

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

Second Year

Fourth Semester

CSC 5xxx Elective-II (from CS-Stream)
CSC 5xxx Elective-III (from CS-Stream)

Fifth Semester

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

Sixth Semester

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

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

First Year

First Semester

CSC 5105 Research Methodology
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5101 Advanced Algorithms Analysis

Third Semester

CSC 5202 Advanced Computer Architecture
SEC 5xxx Elective-I (from SE Stream)

Second Year

Fourth Semester

SEC 5xxx Elective-II (from SE-Stream)
SEC 5xxx Elective-III (from SE-Stream)

Fifth Semester

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

Sixth Semester

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

FACULTY OF COMPUTING AND ENGINEERING SCIENCES

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

First Year

First Semester

CSC 5105 Research Methodology
CSC 5102 Theory of Computation

Second Semester

CSC 5201 Advanced Operating Systems
CSC 5101 Advanced Algorithms Analysis

Third Semester

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

Second Year

Fourth Semester

NSC 5xxx Elective-II (from N&S Stream)
NSC 5xxx Elective-III (from N&S Stream)

Fifth Semester

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

Sixth Semester

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

CS-Stream

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

SE-Stream

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

N&S-Stream

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

Pre-Requisites:

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

MS (CS) (In Core Computer Science)

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

MS (CS) with SE-Specialization

Programming Fundamental
Data Structures
Operating Systems
Software Engineering

MS (CS) with N&S-Specialization

Programming Fundamental
Data Structures
Operating Systems
Data Communication and Computer Networks

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

ACADEMIC CALENDAR 2023-24 (Dubai Campus)

ACADEMIC CALENDAR 2023-24 (Dubai Campus)

FALL 2023

FALL 2023 SEMESTER - REGULAR PROGRAM				
WEEK NO:	DATE			ACTIVITY
WEEK 1	02-Oct	-	08-Oct	REGULAR CLASS
WEEK 2	09-Oct	-	15-Oct	REGULAR CLASS
WEEK 3	16-Oct	-	22-Oct	REGULAR CLASS
WEEK 4	23-Oct	-	29-Oct	REGULAR CLASS
WEEK 5	30-Oct	-	05-Nov	REGULAR CLASS
WEEK 6	06-Nov	-	12-Nov	REGULAR CLASS
WEEK 7	13-Nov	-	19-Nov	REGULAR CLASS
WEEK 8	20-Nov	-	26-Nov	MID TERM
WEEK 9	27-Nov	-	03-Dec	REGULAR CLASS/ Commemoration Day
WEEK 10	04-Dec	-	10-Dec	REGULAR CLASS
WEEK 11	11-Dec	-	17-Dec	REGULAR CLASS
WEEK 12	18-Dec	-	24-Dec	REGULAR CLASS
WEEK 13	25-Dec	-	31-Dec	REGULAR CLASS
WEEK 14	01-Jan	-	07-Jan	REGULAR CLASS/New Year's Day
WEEK 15	08-Jan	-	14-Jan	REGULAR CLASS
	15-Jan	-	21-Jan	MAKEUP CLASSES/ PREPARATORY WEEK
WEEK 16	22-Jan	-	28-Jan	FINAL EXAM

Classes Commencement Date

Dubai Campus:

October 02, 2023

Karachi Campus:

September 11, 2023

Hyderabad Campus:

August 21, 2023

Larkana Campus:

September 25, 2023

Islamabad Campus:

September 11, 2023

Gharo Campus:

September 11, 2023

ACADEMIC CALENDAR 2023-24 (Dubai Campus)

ACADEMIC CALENDAR 2023-24 (Dubai Campus)

SPRING 2024

SPRING 2024 SEMESTER - REGULAR PROGRAM				
WEEK NO:	DATE			ACTIVITY
WEEK 1	26-Feb	-	02-Mar	REGULAR CLASS
WEEK 2	04-Mar	-	09-Mar	REGULAR CLASS
WEEK 3	11-Mar	-	16-Mar	REGULAR CLASS
WEEK 4	18-Mar	-	23-Mar	REGULAR CLASS
WEEK 5	25-Mar	-	30-Mar	REGULAR CLASS
WEEK 6	01-Apr	-	06-Apr	REGULAR CLASS
WEEK 7	08-Apr	-	13-Apr	REGULAR CLASS/Eid al-Fitr
WEEK 8	15-Apr	-	20-Apr	MID TERM
WEEK 9	22-Apr	-	27-Apr	REGULAR CLASS
WEEK 10	29-Apr	-	04-May	REGULAR CLASS
WEEK 11	06-May	-	11-May	REGULAR CLASS
WEEK 12	13-May	-	18-May	REGULAR CLASS
WEEK 13	20-May	-	25-May	REGULAR CLASS
WEEK 14	27-May	-	01-Jun	REGULAR CLASS
WEEK 15	03-Jun	-	08-Jun	REGULAR CLASS
	10-Jun	-	15-Jun	MAKEUP CLASSES/ PREPARATORY WEEK
WEEK 16	17-Jun	-	22-Jun	FINAL EXAM

Classes Commencement Date

Dubai Campus:	February 26, 2024
Karachi Campus:	February 06, 2024
Larkana Campus:	February 12, 2024
Islamabad Campus:	February 06, 2024
Hyderabad Campus:	January 22, 2024
Gharo Campus:	February 12, 2024

CAMPUS WISE PROGRAMS OFFERING (FALL 2023)

PROGRAMS OFFERING AT DIFFERENT CAMPUSES OF SZABIST (FALL 2023)

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

We just Don't Work Hard We Work Smart



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