IBA

Institute of
Business Administration
Karachi

Leadership and Ideas for Tomorrow

PROGRAM
ANNOUNCEMENT 2023-24

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Message from the
Executive Director

It gives me immense pleasure and pride to welcome you all to Pakistan's leading institution of higher learning, the IBA. I can guarantee you, that this is going to be a life-changing experience for each one of you, one that you will never forget. You are the honored new admissions to IBA's Class of 27 and by being admitted, which is always a very challenging and competitive process, you have already shown your capabilities and potential. Congratulations on this huge achievement! You should feel an immense sense of pride and achievement and ought to be prepared for what we know will be the best years of your life.

The IBA has a stellar history of almost seven decades, with high academic standards and ethical values, and I hope all of you will quickly assimilate these traits which are part of our 16,000 plus global alumni network. The IBA offers a very high standard of learning and education, and I am convinced that this process of education will benefit each one of you immensely. Apart from class learning, the IBA also has a large number of student societies and numerous and varied extracurricular activities which all of you should partake in and benefit from. We pride ourselves for the sports and recreational facilities we offer.

The IBA journey is challenging and requires dedication and commitment on your part and is one of high academic standards. While you study, do remember that the educational experience is also one of fun and joy. In this process of acquiring your degrees and learning, don't forget to enjoy yourself and experience life's many gifts. The IBA will support you in every way possible as you pursue your dreams and goals.

Dr. S Akbar Zaidi
Executive Director

Message from the
Registrar

Office of the Registrar envisions a learning experience for students that ascertains personal and professional growth during their time at the institute. Our team, derived from a diverse background of expertise in their designated domains, works as a catalyzing mechanism to facilitate a seamless transition of quality education.

In the recent year, we have successfully upscaled and initiated various additions to the campus experience; the expansion of Boys Hostel has enabled the premises to accommodate approximately 469 students, while the Girls Hostel expansion now has added up to approximately. 144 more spaces for students.

IBA Sports & Community Engagement (SP@CE), with its hub at the Alumni Student Center, has been actively providing new exposure to the institute. We have organized numerous events and programs which attracted and engaged more than 10,000 extended community members through engagements mainly aimed at creating a vibrant engagement platform at our institute. HEC Sports Events, Domestic Sports Participations, Summer Camps, Theater plays, Rubik's Cube Championship, these initiatives have enabled the institute to explore new horizons and be an active part of the community.

Our team will be a vital and strategic part of the organization by supporting the academic life of our student through innovative technologies, collaborative engagement, and extraordinary support services. The quest for a state-of-the-art experience continues as we pace towards achieving remarkable milestones in digitalization processes.

This package has been designed to provide you an insight into the academic programs and on-campus activities. We are certain that as the IBA Karachi evolves with the modern academic experience, our assistance will be available at your convenience.

We wish you a remarkable academic experience in the year ahead.

Dr. Mohammad Asad Ilyas
Registrar

IBA Institute of
Business Administration
Karachi
Leadership and Ideas for Tomorrow

VISION

To be among the best learning institutions in Pakistan.

IBA Institute of
Business Administration
Karachi
Leadership and Ideas for Tomorrow

MISSION

To impart quality education in numerous educational fields to students selected on merit irrespective of ethnicity, gender, religion, or financial means.

To provide a teaching and learning environment that encourages critical thinking, ethical conduct and effective decision making.

To undertake original research that enriches teaching which benefits business, government and civil society.

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VALUES

Discipline
Discipline requires self-regulation and adherence to an established code of conduct. Discipline facilitates the smooth functioning of the institute and is essential for an IBA student.

Creativity
Creativity breeds innovation which is critical for an institution to expand its frontiers. IBA students are encouraged to generate new ideas to attain their goals.

Tolerance
Tolerance represents the ability and willingness to accept and coexist with other opinions and behaviors. Tolerance is an essential characteristic of successful individuals and societies.

Integrity
Integrity suggests the quality of being honest and having strong moral principles. Integrity is crucial to the reputation of individual students as well as that of the IBA.

Teamwork
Teamwork requires harmonizing individual effort to achieve a common goal. Without teamwork, individual efforts can be wasted and institutions can suffer.

Academic Calendar 2023-24

FALL SEMESTER 2023

Orientation Gala	August 16 to 19, 2023
Semester begins	August 21, 2023 (Monday)
Midterm exams	October 11 to 17 (Wednesday - Tuesday)
Mid-semester break	October 18 to 24 (Wednesday - Tuesday)
Faculty evaluation	November 27 to December 09, 2023
Semester ends	December 14, 2023 (Thursday)
Teaching days	85
Reserve days(+)	December 15 and 16 (Friday & Saturday)
Final exams	December 18 to 30 (Monday – Saturday)
Results of Final Examinations	January 14, 2024

LIST OF HOLIDAYS

Bhittai Day	Eid-Milad-un-Nabi	Iqbal Day	Quaid Day + Christmas	Benazir Day
September 01, 2023 (Friday)	September 29, 2023 (Friday)	November 09, 2023 (Thursday)	December 25, 2023 (Monday)	December 27, 2023 (Wednesday)

SPRING SEMESTER 2024

Orientation	January 14, 2024 (Sunday)
Semester begins	January 15, 2024 (Monday)
Midterm exams	March 05 to 11 (Tuesday - Monday)
Mid-semester break	March 12 to 18 (Tuesday - Monday)
Faculty evaluation	April 22 to May 04, 2024
Semester ends	May 13, 2024 (Monday)
Teaching days	84
Reserve days(+)	May 14 and 15 (Tuesday & Wednesday)
Final exams	May 16 to 27 (Thursday - Monday)
Results of Final Examinations	June 11, 2024

LIST OF HOLIDAYS

Kashmir Day	Pakistan Day	Holi	Bhutto Day	Eid ul Fitr(*)	Labor Day
February 05, 2024 (Monday)	March 23, 2024 (Saturday)	March 25, 2024 (Monday)	April 04, 2024 (Thursday)	April 10 to 12, 2024 (Wednesday-Friday)	May 01, 2024 (Wednesday)

SUMMER SEMESTER 2024

Semester begins	June 12, 2024 (Wednesday)
Midterm exams	July 06 to 08 (Saturday-Monday)
Faculty evaluation	July 15 to 27, 2024
Semester ends	July 31, 2024 (Wednesday)
Teaching days	36
Reserve days(+)	August 01, 2024 (Tuesday)
Final exams	August 02 and 03, 2024 (Friday & Saturday)
Results of Final Examinations	August 10, 2024

LIST OF HOLIDAYS

Eid ul Azha(*)	Ashura(*)
June 17 to 19, 2024 (Monday - Wednesday)	July 16 and 17, 2024 (Tuesday & Wednesday)

FALL SEMESTER 2024

Orientation Gala	August 15 to 18, 2024
Semester begins	August 19, 2024 (Monday)

Important information / notes:

IBA Karachi reserves the right to change/update the academic calendar whenever it deems suitable.

(+) Reserve days will only be used for academic / teaching activities to make up for unexpected holidays, no extracurricular activity will be held during the reserve days.

(*) The holidays mentioned above are subject to the sighting of the moon.

Programs on offer

The admissions schedule can be accessed here: https://admissions.iba.edu.pk/admissions_schedule.php

S. No.	Information	Bachelor of Business Administration (BBA)	Bachelor of Science (BS)					
			Computer Science	Economics and Mathematics	Economics	Social Sciences and Liberal Arts	Accounting and Finance	Mathematics
1	Admission requirement	Higher secondary school certificate with a minimum of 65% marks or A levels (minimum of 2 'B's and 1 'C') in 3 principal subjects or American high school diploma minimum of 80% Or An international baccalaureate (minimum 25/45) **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC.	Higher secondary school certificate (Pre-engineering) or General group (with mathematics) with minimum 60% marks or A levels (Minimum of 1 'B' and 2 'C's) in 3 principal subjects including Mathematics or American high school diploma minimum of 80% or An international baccalaureate (minimum 24/45) **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC.		Higher secondary school certificate (any group with 60% marks) or A levels (minimum of 1 'B' and 2 'C's) in 3 principal subjects or American high school diploma (minimum of 80%) or An international baccalaureate (minimum 24/45) **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC.			BS-Mathematics applicants must possess a mathematics background at the high school level. Applicants must have completed: Higher secondary school certificate (Pre-engineering or General group with mathematics) with minimum 60% marks or A levels (minimum of 1 'B' and 2 'C's) in 3 principal subjects including Mathematics or American high school diploma minimum of 80% or An international baccalaureate (minimum 24/45) **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC.
2	Aptitude test component	• English composition (MCQs) • Mathematics (MCQs)	• English composition (MCQs) • Mathematics (MCQs)		• English composition (MCQs) • Mathematics (MCQs)			
3	Aptitude test - difficulty level	SAT-I	SAT-I and SAT-II (Mathematics)		SAT-I			
4	Aptitude test exemption**	Refer to the next page						
5	Student profile	Avg. age: 19						
6	Graduation requirement	40 courses, 128 credit hours, responsible citizen initiative (RCI), corporate internship	41 courses, 131 credit hours, 1 research project, responsible citizen initiative (RCI), corporate internship	40 courses, 128 credit hours, 1 research project, responsible citizen initiative (RCI), corporate internship	40 courses, 126 credit hours, 1 research project, responsible citizen initiative (RCI), corporate internship	39 courses, 125 credit hours, 1 culminating experience/thesis, responsible citizen initiative (RCI), research internship (8-10 week)	40 courses, 126 credit hours, responsible citizen initiative (RCI), corporate internship	40 courses, 128 credit hours, 1 research project
		Personal effectiveness course (PE)	Personal effectiveness course (PE)	Personal effectiveness course (PE)	Personal effectiveness course (PE)	Personal effectiveness course (PE)	Personal effectiveness course (PE)	
7	Fees	Click here to view the fee structure https://www.iba.edu.pk/fee-structure.php						
8	Classes start	August						
9	Duration	4 years full time						
10	Student profile	main/city						

Criteria for IBA Aptitude Test exemptions

BBA & BSAF program – SAT I	BSSS & BS ECO program – SAT I	BSCS & BS Mathematics Program – SAT I	BSEM – SAT I
• A score of 600 (out of 800) in Mathematics • A score of 600 (out of 800) in Evidence-Based Reading and Writing • A total of 1270 is required. • Scores of Essay are not required for the purposes of admission, however, may preferably be submitted for placement in English courses subsequent to admission	• A score of 600 (out of 800) in Mathematics • A score of 600 (out of 800) in Evidence-Based Reading and Writing • Scores of Essay are not required for the purposes of admission, however, may preferably be submitted for placement in English courses subsequent to admission	• A score of 670 (out of 800) in Mathematics • A score of 600 (out of 800) in Evidence-Based Reading and Writing • Scores of Essay are not required for the purposes of admission, however, may preferably be submitted for placement in English courses subsequent to admission	• A score of 640 (out of 800) in Mathematics • A score of 600 (out of 800) in Evidence-Based Reading and Writing. • Scores of Essay are not required for the purposes of admission, however, may preferably be submitted for placement in English courses subsequent to admission
BBA program – ACT	**BSSS program – ACT**	**BSAF, BSCS, BSECO and BSEM program – ACT**	
• A Composite Score of 29 (out of 36) • An English / Writing Score of 25 (out of 36)	• A Composite Score of 28 (out of 36) • An English / Writing Score of 25 (out of 36)	• A Composite Score of 28 (out of 36) • Score of English / Writing is not required for the purposes of admission, however, may preferably be submitted for placement in English courses subsequent to admission	

Programs on offer

S. No.	Information	MBA — Morning	MBA — Evening	Executive MBA — Various specializations	MS — Marketing	MS — Computer Science	MS — Economics (full time)	MS — Economics (part time)	MS — Mathematics (full time)	MS — Mathematics (part time)	MS — Islamic Banking and Finance	MS — Management	MS — Journalism	MS — Data Science	MS — Finance	MS — Development Studies
1	Admission requirement	A minimum of 16 years of education (Culminating in BS / BBA / BE or equivalent degree) out of which 4 years should have been spent in an HEC recognized university/degree awarding institute with 2.5 CGPA on a scale of 4.00 or 60% marks in the last degree (whichever is applicable. The percentage is only considered in case CGPA is not available. (Candidates with work experience will be preferred. **Note:** All international certificate/degree holders must provide an a equivalency certificate from IBCC/HEC.		A minimum of 16 years of qualification out of which 4 years should have been spent in an HEC recognized university/degree awarding institution with: A minimum of 60% aggregate marks (Percentage is only considered in case of CGPA is not available) or a minimum of 2.50 CGPA on a scale of 4.00 (as applicable) and Significant managerial experience is mandatory. **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC	A minimum of 16 years of education (culminating in BS / BBA / BE or equivalent degree) out of which 4 years should have been spent in an HEC recognized university/degree awarding institute with 2.5 CGPA on a scale of 4.00 or 60% marks in the last degree (whichever is applicable). The percentage is only considered in case CGPA is not available. **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC	A minimum of 16 years of education (culminating in BS or equivalent degree) out of which 4 years should have been spent in an HEC recognized university/degree awarding institute with 2.5 CGPA on a scale of 4.00 Or 60% marks in the last degree (whichever is applicable). The percentage is only considered in case CGPA is not available.		A minimum of 16 years of education (culminating in BS/MSc - Mathematics, Physics, Computer Science, Or Statistics) out of which 4 years should have been spent in an HEC recognized university/degree awarding institute with 2.5 CGPA on a scale of 4.00 Or 60% marks in the last degree (whichever is applicable). The percentage is only considered in case CGPA is not available. **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC.		A minimum of 16 years of education (culminating in BS / BBA / BE or equivalent degree) out of which 4 years should have been spent in an HEC recognized university/degree awarding institute with 2.5 CGPA on a scale of 4.00 or 60% marks in the last degree (whichever is applicable. The percentage is only considered in case CGPA is not available. All equivalency claims shall be evaluated by the HEC.		A minimum of 16 years of education/ equivalent degree in any discipline from a local or foreign institute recognized by the HEC, with a minimum CGPA of 2.5 out of 4.0, or 50% marks (Percentage is only considered in case of CGPA is not available) in their last degree (as applicable). All equivalency claims shall be evaluated by the HEC. Applicants with prior journalism experience are encouraged to apply	A minimum of 16 years of education culminating in degree (such as Computer Science, Statistics, Economics, Mathematics, Accounts & Finance, Physics, etc.) and Engineering (Electrical Engineering, Electronics Engineering, etc.) out of which 4 years should have been spent in an HEC recognized university/degree awarding institute with 2.5 CGPA on a scale of 4.00 or 60% marks in the last degree (whichever is applicable). The percentage is only considered in case CGPA is not available. **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC.	A minimum of 16 years of education (culminating in BS / BBA / BE or equivalent degree) out of which 4 years should have been spent in an HEC recognized university/degree awarding institute with 2.5 CGPA on a scale of 4.00 or 60% marks in the last degree (whichever is applicable). The percentage is only considered in case CGPA is not available. **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC.	A minimum of 16 years of education (culminating in BS / BBA / BE or equivalent degree) out of which 4 years should have been spent in an HEC recognized university/degree awarding institute with 2.5 CGPA on a scale of 4.00 or 60% marks in the last degree (whichever is applicable). The percentage is only considered in case CGPA is not available. Candidates with work experience are preferred. **Note:** All international certificate/degree holders must provide an equivalency certificate from IBCC/HEC
2	Aptitude test component	• English composition (MCQs) • English comprehension (essay writing skills) • Mathematics (MCQs)		- Business English (MCQs) - Case study - Applied Mathematics (MCQs)	• English composition (MCQs) • Mathematics (MCQs) • Essay writing	• English composition (MCQs) • Mathematics (MCQs) • Subject specialization	• English composition (MCQs) • Mathematics (MCQs) • Subject specialization		• English composition (MCQs) • Mathematics (MCQs)		• English composition (MCQs) • Mathematics (MCQs)	• English composition (MCQs) • Mathematics (MCQs) • Essay writing	• English composition (MCQs) • Essay writing • GK/Current affairs	**Fall Semester (for NON-CS stream only):** • English (MCQs) • Mathematics (MCQs) **Spring Semester (for CS stream only):** • English (MCQs) • Mathematics (MCQs) • Computer Science (MCQs)	• English Composition (MCQs) • Mathematics (MCQs) • Finance (MCQs)	• English Composition (MCQs) • Mathematics (MCQs) • Essay writing
3	Aptitude test - difficulty level	GMAT/GRE		GMAT/GRE	GRE general and GMAT	GRE general + specialization			TOEFL or IELTS GRE (int'l) math subjective test		GRE general and GMAT		-	GRE general	GRE General or GMAT exam	GRE general
4	Aptitude test exemption	Minimum 600 score in GMAT/ 160 in quantitative and 150 in verbal GRE (int'l)		Minimum 600 score in GMAT/ 160 in quantitative and 150 in verbal GRE (int'l)	160 in quantitative and 150 in verbal GRE (int'l)	160 in quantitative and 150 in verbal GRE (int'l)			60 percentile in GRE (int'l) Math subjective test		160 in quantitative and 150 in verbal GRE (int'l) 600 score in GMAT		-	Minimum 600 scores in GMAT / 160 in Quantitative & 150 in the Verbal section of GRE required	Minimum score of 650 in the Quantitative GRE General, 160 in Quantitative section of Revised GRE General, OR 600 score in GMAT	160 in quantitative and 150 in verbal GRE (int'l)
5	Student profile	Avg. age: mid 20s		Avg. age: mid 30's Avg. work experience: 7 years	Avg. age: mid 20s							Avg. age: 20s - 30s		-	Avg. age: mid 20s	Avg. age: mid 20s
6	Graduation requirement	18 courses, 1 project, 60 credit hours, duration 24 months, (corporate internship for non-BBA background)	18 courses, 1 project, 60 credit hours, duration 42 months	24 courses, 72 credit hours, 1 project, comprehensive exam	6 core courses, 4 electives, 30 credit hours, thesis/project, 6 credit hours	MS without Thesis 9 courses (27 credit hours) and an MS Project (3 credit hours), or MS with Thesis: 8 courses (24 credit hours), MS Thesis-I (3 credit hours) and MS Thesis-II (3 credit hours)	42 credit hours, 12 courses and 1 thesis 6 credit hours, 36 credit hours through courses, 6 credit hours through thesis		6 core courses, 2 electives, 24 credit hours, thesis 6 credit hours		MS core and elective courses: 12 courses, 36 credit hours, Research thesis or Project Paper*: 6 credit hours	6 core courses 4 electives Thesis/Project	12 courses, 39 credit hours, 1 capstone project, 1 internship	MS without Thesis 9 courses (27 credit hours) and an MS Project (3 credit hours), or MS with Thesis: 8 courses (24 credit hours), MS Thesis-I (3 credit hours) and MS Thesis-II (3 credit hours)	7 courses, 3 electives, (30 credit hours), Thesis/project (6 credit hours)	8 courses (30 credit hours) and 1 thesis (6 credit hours), OR 6 courses (24 credit hours) and 1 thesis (6 credit hours) for students exempted from 2 foundation courses. Note: (Interview panel will decide which students are exempted from foundation courses.)
7	Fees	Click here to view the fee structure https://www.iba.edu.pk/fee-structure.php														
8	Classes Start	August		August and January	August	August					August and January	August	August	August	August	August
9	Duration	2 years	3.5 years	2.5 years	1.5 years	2 years					1.5 years	1.5 years	1.5 years	2 years	1.5 years	2 years
10	Campus	main	main/city	main	main	city			main/city		city	main	city	main	city	main

Programs on offer

S. No.	Information	Doctor of Philosophy (PhD)		
		Economics	Computer Science	Mathematics
1	Admission requirement	MS/MPhil/equivalent in relevant subject from HEC recognized local/foreign university with: minimum 60% aggregate marks (Percentage is only considered in case CGPA is not available) in the last degree or A minimum 3.0 CGPA on a scale of 4.00 in the last degree where applicable also have to fulfill specific requirements by the respective departments		
2	Aptitude test component	- English composition (MCQs) - Mathematics (MCQs) - Subject specialization		- English composition (MCQs) - Mathematics (MCQs)
3	Aptitude test - difficulty level	TOEFL or IELTS GRE general + specialization	CS subject test	TOEFL or IELTS GRE Math subjective test
4	Aptitude test exemption	160 in quantitative and 150 in verbal GRE (int'l)		60 percentile in GRE (int'l) Math subjective test
5	Student profile	Avg. age: 26		
6	Graduation requirement	11 courses, 1 dissertation, 67 credit hours	8 courses, 24 credit hours, Proposal Defense, and Dissertation, 6 credit hours	6 courses, 18 credit hours, comprehensive exam, synopsis proposal, dissertation
7	Fees	**Click here to view the fee structure https://www.iba.edu.pk/fee-structure.php**		
8	Classes start	August	August	August and January
9	Duration	4 years		
10	Campus	main/city		

Academic Programs

School of Business Studies (SBS)

SBS is the largest and flagship School in IBA. The SBS is a leading business school in Pakistan with a state-of-the-art campus that follows the best international standards and offers a unique learning and teaching experience. SBS is proactively pursuing AACSB accreditation and has already achieved a key milestone in the AACSB journey. SBS faculty comprises distinguished experts across a variety of business disciplines and hold doctorates from world-renowned universities. The school offers a wide range of programs in different management disciplines to train a new generation of high-potential executives.

Director of Undergraduate Programs: Dr. Amer Iqbal Awan

Director of Graduate Programs: Dr. Ashar Saleem

Bachelor of Business Administration (BBA)

Program Coordinator: Dr. Amer Iqbal Awan

The BBA program is a full-time 128 credit hours program comprising of four years of rigorous education which allows the student to have a broad view of the business world. Although there are no formally labeled specializations, students can opt for any combination of electives from Marketing, Accounting, Finance, Supply Chain, Human Resource Management (HRM), Business Analytics and Entrepreneurship. To ensure that BBA graduates from the IBA develop an awareness of societal and environmental challenges facing the world, students have to undergo an internship as a responsible citizen initiative with a non-profit organization (NPO). In addition, all BBA students are required to undergo a corporate internship to get exposure to the business world. This exposure is augmented by a semester long experiential learning project (ELP), which takes the form of a consulting project for an organization. This serves as on-the-job training in the real business environment.

Bachelor of Science (BS) Accounting and Finance

Program Coordinator: Dr. Sharjeel Hasnie

The BSAF program is a full-time 126 credit hours program comprising 4 years of rigorous education. The program is designed to provide an exclusive opportunity for students to receive a specialization in Accounting and Finance. The graduates of this program obtain multiple exemptions from the Institute of Chartered Accountants of Pakistan (ICAP) and the Association of Chartered Certified Accountants (ACCA). Furthermore, the Chartered Institute of Management Accountants (CIMA), Institute of Cost and Management Accountants of Pakistan (ICMAP) and Institute of Bankers Pakistan (IBP) also provide exemptions on a case-to-case basis to the program graduates.

Master of Business Administration (MBA)

Program Coordinator: Dr. Muhammad Shafique

The MBA program at IBA Karachi is among the pioneering business programs in the region. Quality intake, academic rigor, and active industry engagement are hallmarks of the MBA program. The alumni include professionals that have not only gone on to take top positions in world-class organizations but have also established successful businesses.

Executive MBA

Program Director: Dr. Muhammad Shafique

The Executive MBA program is structured for working professionals from diverse backgrounds. The program develops cross-functional competencies for participants and further adds depth with a rich experiential exchange. An innovative learning experience based on case studies and simulations provides participants with an opportunity to leap from managerial to leadership roles.

Master of Science (MS) Finance

Program Coordinator: Dr. Nauman J. Amin

MS Finance was launched in the fall of 2020 as a specialized postgraduate program, designed to provide a solid theoretical foundation, as well as a computational skill set for a successful career in the field of finance. This program is designed to prepare graduates for challenges in the domestic and global financial system by imparting comprehensive knowledge of finance and its multidisciplinary aspects. Students gain in-depth knowledge with core courses in corporate finance and investments.

Master of Science (MS) Islamic Banking

Program Director: Dr. Irum Saba

MS IBF is a 42 credit hours program to be completed in a minimum duration of 1.5 years and a maximum duration of 4 years as approved by the HEC. It is offered for fresh graduates from business and other disciplines, experienced practitioners as well as Shariah scholars. The program is designed to meet the growing needs of the Islamic Finance industry by providing theoretical and applied knowledge of Islamic Finance, Islamic Jurisprudence, Banking, and Economics. Graduates of the program will have promising career prospects in academia and in the local and international Islamic Finance industry. The MS IBF program is offered for both full-time and part-time (working) students.

Master of Science (MS) Marketing

Program Coordinator: Dr. Asim Shabir

MS Marketing program aims to drive students on a journey from the basic level to the highest conceptual areas and philosophies of marketing. The degree will engage the students in a manner that takes a pragmatic and applied approach to learning, enabling them to solve business problems realistically and identify opportunities and challenges while working in teams.

School of Economics and Social Sciences (SESS)

SESS is an amalgamation of two academic departments and two research centers. The two academic departments are the Department of Economics, and the Department of Social Sciences and Liberal Arts (SSLA), and the two research centers include the Center for Business and Economic Research (CBER) and Population Research Center (PRC).

The SESS has a faculty comprising seasoned academics, out of which 37 faculty members have PhDs. The Economics department's faculty employs diverse teaching and research methods in their scholarly work and is highly specialized in the fields of Development Economics, Applied Economics, Macroeconomics, Trade, Industrial Organization, and Labor Economics. The Department of Social Sciences and Liberal Arts prepares students in a wide range of academic disciplines including Philosophy, History, Literature, Political Science, Urban Studies, Media Studies, Anthropology, and Journalism.

Bachelor of Science (BS) Economics

Program Director: Dr. Heman Das Lohano

BS Economics program is designed to give students a solid foundation in Economics and prepares the students for entry-level positions in private and public sector corporations, development organizations, banks, education and research organizations.

Bachelor of Science (BS) Economics and Mathematics

Program Director: Dr. Heman Das Lohano and Dr. Danish Ali

BS Economics and Mathematics program contains fundamental components of two fields of study, Economics, and Mathematics. The program prepares the students for entry-level positions in private and public sectors, development organizations, banks, insurance companies, investment companies, education sector, and research organizations.

Bachelor of Science (BS) Social Sciences and Liberal Arts

Program Coordinator: Dr. Irum Iqbal Hussain

BSSS is an interdisciplinary program that provides students with a well-rounded knowledge base in a range of disciplines within social sciences and humanities. With a strong intellectual grounding in humanistic inquiry and social sciences research, the program fosters analytical reasoning, critical thinking, and problem-solving skills and prepares students for leadership roles and service to society.

Master of Science (MS) Development Studies

Program Director: Dr. Ahmed Azhar

MS Development Studies is a multi and inter-disciplinary program that explores critical topics of development theory and practices, viewing development as a complex and ongoing historical process. Development Studies also encompasses policy debates around the need for accommodating varied local, grassroots responses to regional or global processes.

Master of Science (MS) Economics

Program Director: Dr. Faiz Ur Rehman

MS Economics program is designed to provide a solid background in theory, quantitative methods, and applications appropriate to the needs of economists. The program prepares the students for careers in universities, research organizations, development organizations, business enterprises, government organizations and multinational companies.

MS Journalism

Program Director: Dr. Arsalan Waheed

The Master's program at the Centre for Excellence in Journalism at IBA offers a 1.5-year program that allows students to immerse themselves in all forms of journalism - digital, audio, and video - and acquire hands-on experience in a newsroom under the guidance of experienced instructors. With a modern syllabus -- which has been adapted to online modules keeping the current global situation in mind -- reflects new media trends.

PhD Economics

Program Director: Dr. Faiz Ur Rehman

PhD Economics program is designed to provide a strong background in theory, quantitative methods, and applications appropriate to the needs of economists. Students will find the program to be intellectually challenging and personally rewarding and will be prepared for careers in universities, research organizations, and development organizations.

School of Mathematics and Computer Science (SMCS)

The School of Mathematics and Computer Science (SMCS) of IBA is one of the fastest growing schools for excellence in teaching and research of computer science in Pakistan. The SMCS has a qualified faculty comprising of experienced practitioners and researchers that enrich teaching, provide business consultancies, support startups, and prepare students for higher education and industry. The school has state-of-the-art facilities focusing on undergraduate and graduate education. The research labs for Artificial Intelligence, Web Science, Big Data and Telecommunications allow computer science students to delve deep into the technological realm. In contrast, the mathematics programs offer a thorough background in pure and applied mathematics ranging from high-performance computing to commutative algebra.

Bachelor of Science (BS) Computer Science

Program Coordinator: Dr. Imran Rauf

The Bachelor of Science (BS) Computer Science program is a 4-year degree program that includes courses in theoretical Computer Science, Technology, Social Sciences and Liberal Arts, and other areas. The aim is to educate students to become skilled professionals with problem-solving capabilities in Computer Science (CS) and allied areas. It also prepares students for research and development roles. It comprises of a total of 129 units, which are divided into university core, CS core, CS elective, non-specialization core and non-specialization elective with 12, 63, 18, 24, and 12 units respectively. The non-specialization courses and electives are from supporting disciplines of Mathematics, Physics, and Communication. The program's core courses and general electives are from supporting disciplines of Mathematics, Physics, and Communication, Accounting, Economics, Finance, Human Resource Management, Marketing, Management, and Social Sciences and Liberal Arts. A wide range of core and elective courses is engineered to provide the students with enough flexibility to choose a professional career path of their interest.

Bachelor of Science (BS) Mathematics

Program Coordinator: Dr. Babar Ahmed Qureshi

Bachelor of Science (BS) Mathematics is a 4-year degree program. This program uniquely offers the opportunity of earning concentration in allied areas of sciences while adhering to the mathematics core. The flexibility and diversity that this scheme offers to students in studying mathematics, aligns with the current common structure of the BS-Math programs worldwide while keeping in line with HEC guidelines. Regular academic and professional career development guidance is available to students to help them cope with the challenges more effectively.

Master of Science (MS) Computer Science

Program Coordinator: Dr. Tariq Mahmood

The MS Computer Science (MSCS) program offers students with a master's degree in CS or allied areas, providing them the opportunity to take their skills to the next level with specialized professional and research-oriented training. The curriculum design ensures that the graduates can creatively find technology-based solutions, think critically and analyze systems and emerging problems independently. It also prepares students for doctoral studies.

Master of Science (MS) Data Science

Program Coordinator: Dr. Tariq Mahmood

Data Science lies at the intersection of machine learning, statistics, and big data analysis. The MS Data Science (MSDS) program prepares students to extract valuable insights from data in a state-of-the-art manner. The program is designed for students who want to begin or advance their careers in data science. It offers a blend of statistical and Bayesian modeling, machine learning, deep learning, management of massive data sets, data visualization, software engineering, and data ethics.

Master of Science (MS) Mathematics

Program Director: Dr. Danish Ali

MS in Mathematics aims to provide a thorough background in theory, quantitative methods, and applications commensurate with international standards, offering the opportunity for more specialized training in selected areas of pure and applied mathematics.

PhD Computer Science

Program Coordinator: Dr. Imran Rauf

The PhD Computer Science program fully encourages graduate scholars who aim to make a significant contribution to their field through original research. It offers specializations including Artificial Intelligence, Computer Vision, Data Science, and Theoretical CS. The program develops the candidates' professional as well as research competencies so that they will gain recognition from national and international employers. The scholars are expected to immerse themselves in research to comply with a strong and vibrant research culture at the institute.

PhD Mathematics

Program Director: Dr. Danish Ali

PhD in Mathematics aims to polish the individual's skills of using Mathematics as a compact language to describe problems in any area. This enables them to theoretically expand the frontiers to create new and formerly unknown avenues in this discipline.

Deans and Chairpersons

Deans

Dr. Abdullah Zafar Sheikh
School of Business Studies (SBS)
PhD (Human Resource Management),
University of Nottingham, UK

Dr. Asma Hyder
School of Economics and Social
Sciences (SESS)
PhD (Labor Economist), National
University of Sciences and Technology,
Pakistan & Sussex University
(Post-Doc) University of Pennsylvania, USA

Dr. Shakeel Ahmed Khoja
School of Mathematics and Computer
Science (SMCS)
PhD (Computer Science),
(Post-Doc Fellowship),
University of Southampton, UK

Chairpersons
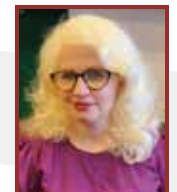
Accounting and Law	Computer Science	Economics	Finance	Management	Marketing	Mathematical Sciences	Social Sciences and Liberal Arts
Dr. Sharjeel Hasnie	Dr. Shahid Hussain	Dr. Muhammad Nasir	Dr. Hilal Anwar Butt	Dr. Nyla Aleem Ansari	Dr. Nida Aslam Khan	Dr. Hisham Bin Zubair	Dr. Laila Sohail Farooq

Full-time Faculty at a glance

PhD (Foreign)	85
PhD (Local)	17
Masters (Foreign)	35
Masters (Local)	24
Total	**161**
Pursuing Higher Education (Abroad)	21
Pursuing Higher Education (Local)	05
Total	**26**
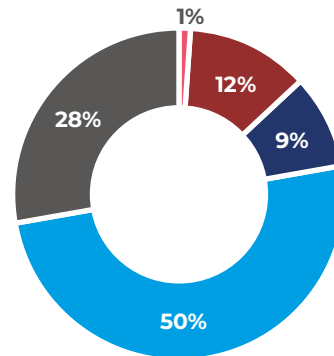
Donut chart:
- Professor: 12%
- Associate Professor: 9%
- Assistant Professor: 50%
- Lecturer: 28%
- Teaching Fellow: 1%

Pie chart:
- PhD: 63%
- MS: 37%
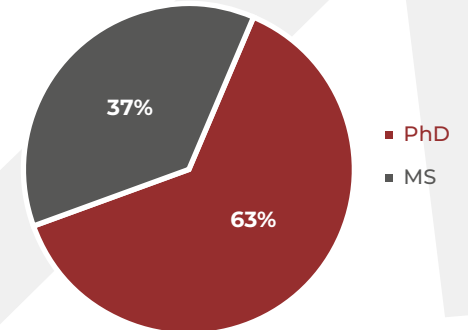
Rules and Regulations

The primary goal of rules and regulations is to ensure the quality and standard of education as well as to encourage professionalism. Adherence to rules and regulations by students is vital for the proper functioning of the programs. Some of the core elements of the rules and regulations pertaining to the academic conduct at IBA are appended below for guidance and compliance by all students:

Discipline

Discipline, punctuality and conformity to schedules and deadlines are basic requirements at the IBA and are expected equally from faculty members and students. This ensures a strong commitment towards professional excellence in all those who come to teach or learn at the IBA.

Good standing

Students are required to maintain discipline, good conduct and appropriate behavior during their studies at the IBA. A student shall be deemed to have lost good standing if their conduct and behavior is found objectionable from a disciplinary point of view. Consequently, their name shall be dropped from the rolls of the Institute.

Attendance

A distinguishing feature of the IBA is its stringent adherence to the academic calendar. Students are required to attend lectures, laboratory sessions, seminars and fieldwork specified for every course in a semester. The course instructor takes attendance in each class. If a student accumulates more than the permissible absences, they should withdraw from that course. Students found tampering with attendance records in any way will immediately be expelled from the Institute. The permissible number of absences for students will include the participation of the IBA students in conferences/seminars/events, sports at the national/international level, an exchange program, religious activities (pilgrimage, etc.) and facilitation week.

Permissible absences per semester are mentioned in the following table

Semester type	Duration of session	Total sessions	Allowed absences
Spring or Fall time students	75 or 90 minutes	28	5 for full-time students 7 for part-time students
Spring or Fall time students	150 or 180 minutes	14	2 for full-time students 3 for part-time students
Spring, Summer, Fall	180 minutes	12 MBA-Executive only	3
Summer	120 minutes	21	3
Winter	180 minutes	12	2

Please note that no attendance will be transferred from one course to the other. Transfer of attendance will only be allowed across sections of the same course for the first week of the semester. Attendance of classes on the first and last day of the semester is mandatory for all students.

Cheating and plagiarism

The IBA maintains a strict policy on academic impropriety based on its zero-tolerance for such activity. Strict disciplinary action will be taken against any student found cheating or using unfair means in examinations. He/she may be suspended or expelled from IBA and declared ineligible for re-admission. A booklet highlighting IBA's policy on plagiarism is available on the portal for all students to read and comply with. Mobile phones, smart watches, and any other communication devices are strictly prohibited during examinations. A fine of Rs. 10,000 to Rs. 20,000 shall be applied to students who violate this rule.

Transfer of credits

Students of the MBA Evening Program may seek advance credit for not more than two required courses, which they may have successfully completed while being students in the certificate program. They are subject to the following conditions:

- The student must have held a Master's degree with 60% marks at the time of admission to the certificate program

- The final grade of the course in the semester should be at least "B"

- The course for which the credit is sought was completed within two years from the date of admission.

Additional course policy for undergraduate programs

Students are allowed to take one additional course only under the following conditions:

If a student has a course deficiency due to failure in a course, it may be overcome by taking one additional course in their 7th or 8th semester. There is no minimum CGPA requirement in the aforementioned cases and students may enroll in an additional course without obtaining special permission from the Dean. All other students are required to follow the semester-wise course load given below for their respective program including non-credit courses. Students are also encouraged to make up their deficient courses during summer semesters.

Normal course load for undergraduate programs

Please note that normal load varies for different semesters and different programs

Programs	Semester (credit hours)							
	01	02	03	04	05	06	07	08
BBA	15	18	18	15	16	16	15	
BS (Accounting and Finance)	18	18	15	15	16	15	15	15
BS (Computer Science)	16	19	17	17	16	16	12	18
BS (Economics and Mathematics)	15	15	16	15	17	16	19	15
BS (Economics)	15	15	15	15	16	16	19	15
BS (Social Sciences and Liberal Arts)	15	15	16	16	16	16	16	18

Normal course load for graduate programs

	Credit hours		
Programs	Spring or Fall semester	Summer semester	Conditions
MBA (full-time-Morning)	15		
(MBA Evening)	9		
Executive MBA	9 to 12*	9 to 12*	*12 credits if CGPA is above 3.00
MS (Mathematics)	12	-	*3 credits for removal of deficiency
MS (Computer Science)	9	-	-
MS (full-time–Economics)	12 to 15	-	Up to 18 credits if doing an MS thesis
MS (Islamic Banking and Finance)	12	-	-
MS (Management)	12	-	-
MS (Data Science)	9	-	-
PhD (Mathematics)	9	-	-
PhD (Economics)	9 to 12*	-	*12 credits are maximum
PhD (Computer Science)	9 to 12	3	-

A student cannot take additional course(s) in any semester except in the final semester to complete course work.

Part-time students of MS programs may take 3 to 9 credits in the spring and fall semesters.

Rules and Regulations

Withdrawal from a course

A student may withdraw from courses if such withdrawal helps the student in improving their performance in the remaining courses. Withdrawal from a course is not treated as failure and it does not impact the GPA. A "W" grade would be indicated on the transcript for a withdrawn course. If a student has accumulated more than the permissible absences in any course, they must withdraw from that course.

Students are allowed to withdraw from some or all the courses for which they have registered in a semester.

Withdrawals from courses can be requested by submission of the course withdrawal form (obtainable from Program Office or downloadable from the IBA portal) to the respective Program Office 1 day before the commencement of the final examinations.

Semester freeze

A semester freeze (or break) is a semester in which a student is not registered for any course due to personal reasons. Any student availing one or more semester freeze must complete the degree requirements before the stipulated time bar for the program in which they are enrolled. Every student who wishes to avail a semester freeze must formally inform the Program Office about it at least one week before the commencement of the semester. If a semester freeze is required during a semester, then the application must be submitted to the Program Office at least one week before the commencement date of final exams for that semester. All courses are marked as withdrawn when a semester break is applicable if such a break was requested during the semester.

Make-up examinations

The following policy is applicable to all academic programs at the IBA.

(i) Full-time (morning) program students
Under normal circumstances, no make-up examination shall be allowed for missing a midterm or final examination. However, if an exam is missed due to oversight or some non-emergency but urgent event, a makeup exam may be approved with a deduction of 15% of obtained marks. A make-up exam fee of Rs. 10,000 per course shall also be applicable.

(ii) MBA Evening/Executive MBA/MS program students
MBA Evening, MS, or Executive MBA program students, who are engaged with some emergency official work or sent out of Karachi on official assignments (during the exams) by their respective organizations may be allowed to take make-up examinations after submitting a request on the Student Facilities System (SFS) under the following conditions:

(a) This facility will only be availed once for either a midterm exam or a final exam of each course in a semester.

(b) The concerned student shall be required to provide the following documents at least one week before the scheduled exam:

(i) A certificate/official letter from their organization giving details of their official assignment.

(ii) Evidence of official travel comprising tickets or other documents as applicable.

Extraordinary circumstances for make-up examination (applicable to all students)

The extraordinary or unforeseen circumstances for a make-up exam are:

1. Personal illness requiring hospitalization or emergency medical care.

2. Bereavement due to the demise of a parent, spouse, sibling or offspring.

3. Severe illness of a relative (parent, spouse) e.g., their hospitalization for surgery or due to critical medical condition.

4. Out-of-town traveling (official visit) for part-time students as mentioned above (II a and b).

5. Participation in an IBA approved event/conference.

All applicants will have to submit a request on the Student Facilities System (SFS) and produce verifiable documentary evidence to substantiate their request within 3 weeks of the midterm exam and 6 weeks of the final exam. Medical documents would require authentication by recognized hospitals for acceptance as evidence. Hard copies of evidence may be required. Similarly, proof of traveling (copies of tickets, passport visa page, and entry/exit endorsement pages), and official letter from employers are required for official visit cases.

Decision of a make-up exam

The Academic Council (AC) may on the recommendation of the concerned program director/coordinator and faculty member, consider allowing make-up exam. The council's decision in this regard shall be final. A make-up exam may be requested for either a midterm or final exam of each course in a semester. In case a student misses their midterm/final exam due to the above-mentioned circumstances they may apply for "I" (incomplete) with all supporting documents including medical certificates via the SFS to the AC. If the AC is satisfied with the genuineness of the claim, then it may award an "I" grade for the course. If an exam is missed due to some reason other than the abovementioned circumstances, then a deduction of 15% of the obtained marks shall be applicable if the case gets approved by the AC. However, if the AC is not satisfied with the genuineness of the case, then the grade applicable with respect to obtained marks shall be awarded by the course teacher.

Make-up exam fee

Rs. 10,000/- per course

Mode of make-up exam

After a formal approval of the make-up exam request the course teacher shall set up a make-up exam to be conducted by the examinations department.

Or

The concerned student may appear for the missed exam in the following semester (when the course is on offer) without attending classes provided the attendance of that student was complete.

Rechecking of final paper

Students may request for rechecking of their exam scripts subject to a deposit of Rs. 12,000/- per course, which is refundable if any significant improvement in grades/marks is found after rechecking. They may request rechecking for either midterm or final exam per course within 1 month of the release of final grades of all courses studied in a particular semester.

Grading and evaluation

Student performance is evaluated through a system of assessments spread over the entire period of their studies. Students are assessed through a series of short quizzes, class discussions, written assignments, research reports, presentations on different topics, and midterm and final exams. All these assessments contribute to the final grade. 60% of the final grade is based on the semester work including the midterm exam and the remaining 40% is on the semester final examination. However, the Institute reserves the right to modify these weights.

Faculty members have the option of choosing either the absolute or relative grading scheme and may also decide the percentage for A, B, and C grades. A cumulative grade point average (CGPA) is computed as a weighted average of the grade points and credit hours for all the courses taken by the student at the end of every semester. Final grades in each course are converted to grade points according to the following absolute grading plan:

Grade		Marks	GP per unit
A	A	93-100	4
	A-	87-92	3.67
B	B+	82-86	3.33
	B	77-81	3
	B-	72-76	2.67
C	C+	68-71	2.33
	C	64-67	2
	C-	60-63	1.67
F	F	0-59	0
I	I	Incomplete	
W	W	Course withdrawn	

CGPA = Sum of (credit hours x grade points)/sum of credit hours.
The initial CGPA of MBA Evening and MS program students is calculated based on the first 6 and 3 courses taken by them respectively.
The credits for courses studied from any of the top 100* universities of the world, LUMS, KSBL, and the universities with which IBA has a Memorandum of Understanding (MoU) for student exchange, will be included in their CGPA after approval by the Academic Board of the IBA. However, the credits for grades earned from universities/institutes other than those mentioned above will be decided on a case-to-case basis by the Academic Board (AB) and will not be included in the CGPA calculation. This will be applicable to all degree programs at IBA.
*Top 100 refers to Times Higher or QS Education Ranking.

Rules and Regulations

Dean's Honour List

The Dean's Honour List (also called Dean's list) is an honorary academic list of students who are exceptional performers at the IBA. The list is published at the end of spring and fall semesters for undergraduate degree programs, full-time MBA, and spring, summer and fall for Executive MBA students. It is also displayed on the portal and website. There are separate lists for each full-time program. All credit courses will be counted.

Criteria For Dean's List

The following will be the criteria for including a student's name on the Dean's List, which will be finalized by the Dean's List committee:

- The cumulative grade points average (CGPA) must be greater than or equal to 3.5.

- The student must have completed at least 4 (3 or more credit hours) courses in a regular semester. Undergraduate students in their last semester with 3 or less courses remaining are required to take 4 or more courses in order to be eligible for the Dean's List provided all other criteria are met. Executive MBA students must have completed 3 (3 or more credit hours) courses in the semester.

- The student must not have been subjected to any disciplinary action within the Institute during the semester. (Disciplinary actions will include all those actions for which a student can be suspended).

- Students who obtain an academic semester average of 90% or more will earn the honor of the Dean's List with distinction.

Award of medals or shields for best student

The top student of each program qualifying the following criteria will be awarded the IBA medal. The 2nd and 3rd best students would be awarded shields. All awards may not necessarily be given each year and for each degree program. The criteria for the award of medals/shields is mentioned below:

- The student who has the highest CGPA, without any failure, shall be eligible, provided the CGPA is 3.5 or higher.

- In case of a tie where the CGPA is the same, the student with the higher average percentage marks shall be eligible for the award of medal.

- No award will be made unless there is a candidate of sufficient merit. For example, if only one student qualifies according to the abovementioned criteria, they will be awarded a medal and there will be no shield.

- No distinction shall be made between different batches from different admission cycles or campuses i.e., all graduating students of a particular program satisfying the above criteria would be considered as a large group of candidates for the award of medal/shield described above.

Minimum GPA requirements for BBA/BS/MS/MBA/Executive MBA degree programs

A student must maintain a minimum CGPA of 2.20 cumulative during their stay at the IBA. Any first-year (with total credits less than 30) undergraduate student with a CGPA of less than 2.00 would be placed on probation for 1 semester at the end of which they must improve their CGPA to 2.0 or higher otherwise they shall be dropped from the rolls of the Institute.

If a student's CGPA falls between 2.00-2.19 (probation range) in the spring/fall semester, they would be issued a warning letter for improvement of CGPA.

At the end of the probation semester, a probationer is required to improve their CGPA and bring it up to the required minimum of 2.20. However, if the CGPA still remains within the probation range then the probation shall continue in the next semesters of studies in which the probationer may study until the CGPA improves to a value of 2.20 or higher. There would be no warning letter for summer courses.

If a student fails to pass certain courses and yet manages to maintain their CGPA equal to or above 2.20, they are allowed to repeat and clear the course(s) or substitute(s) (wherever permissible) before the degree is awarded to them provided that the enrollment period has not expired.

The CGPA is computed for evaluation at the end of each semester including a summer semester that a student might have enrolled in. First term undergraduate students must have studied 15 credit hours except BSCS for which 17 credit hours must have been studied. MBA & Executive MBA degree program students must have studied 18 credits while the MS students must have studied 9 credit hours. Withdrawn courses are not counted in the CGPA calculation. Withdrawn courses are not counted in the CGPA calculation.

GPA requirement for an award of BBA/BS/MS/MBA/Executive MBA degrees

If the CGPA of a student in the final semester is less than 2.20 but above 2.00, then the student shall be required to repeat one semester of the lowest academic standing or certain courses in order to bring their CGPA up to 2.20 with the following conditions:

If the student succeeds in improving the CGPA (minimum 2.20), then they will be eligible for the award of the degree for the program in which they are enrolled, subject to fulfillment of coursework and other applicable partial degree requirements. Otherwise, such a student shall be issued a transcript of credits earned and no degree shall be awarded.

The time period to remove the deficiency and to bring CGPA to a minimum of 2.20 is one year and it should be within the enrollment period.

GPA requirement for an award of PhD degree

A PhD scholar is required to have a CGPA of above 3.0 after completion of coursework to be eligible for the comprehensive exam. Anyone with a CGPA below 2.5 shall be dropped from the program. A transcript of credit for the studied courses may be issued to a dropout student.

Improvement of grades

Students are allowed to repeat the course(s) for improvement of grades with the following conditions:

- The better grade of the repeated course shall be considered towards CGPA calculation and there would be no averaging.

- A student who repeats course(s) would not be eligible for the medal.

- This option will not be available to those students who have graduated or have dropped out.

If a student has repeated a core course for a better grade, then he/she is required to intimate the examinations department about the course and request for the exclusion of poor grades. The transcript processing for graduating students shall remain on hold until the provision of this information.

Summer semester

The summer semester is for the improvement of grades or removal of deficiencies if any. Students are not allowed to register for an advanced credit or additional course and can take a course that they have failed or dropped earlier. Students doing summer internships are allowed to remove deficiency in one course during the summer semester. Students not doing an internship, can clear up to two deficiencies. Students may withdraw from one course during the summer semester. Withdrawal should be sought within a week after the announcement of the midterm examination result.

Internship evaluation

The summer internships for full-time students are closely monitored and evaluated. Feedback about the performance of the intern is obtained from their supervisor. At the end of the internship, the student submits an internship report, certificates and the evaluation form filled by the company supervisor to the Career Development Centre.

Students who do not submit their internship reports shall not be issued transcripts and degrees until submission of the reports.

Comprehensive examination

Every PhD scholar is required to pass PhD comprehensive exam (maximum 2 attempts are allowed) after completion of coursework in a maximum of 2 years. Any PhD student who fails to pass the comprehensive exam within 2 years shall be dropped from the program. This exam comprises sub-exams on different subjects studied during the coursework as described below:

- PhD CS: 5-hour exam comprising of 5 papers (set by at least 3 different examiners) in a single day.

- PhD Mathematics: 4-hour exam comprising of 4 papers in a single day.

- PhD Economics: 2 exams of 4-hour duration on 2 separate days. Each exam comprises 3 parts with individual examiners but aggregate pass/fail results of the exam.

Rules and Regulations

Proposal and dissertation defense for PhD programs

Every PhD student is expected to pass the dissertation proposal defense within one year and a maximum of two years after passing the comprehensive exam. The Doctoral Guidance Committee (DGC) may allow multiple attempts within the enrollment period. Failing to pass the proposal defense within 2 years would result in dropout from the program. Candidacy is granted after a successful dissertation proposal defense. A PhD candidate is expected to complete and submit the dissertation for evaluation within two years of the proposal defense. Two extensions of one year each may be given by BASR upon recommendation of the DGC if the enrollment period has not expired.

An appeal may be submitted to the BASR via DGC for extensions which shall be considered on a case-to-case basis and in compliance with HEC rules. If the appeal is rejected, then the candidate shall be dropped from the program.

Enrollment

Enrollment is a formal registration of students admitted to academic programs at the IBA. Students who have accepted the offer of admission for joining any academic program at the IBA are required to submit the enrollment form along with the following documents within 6 weeks starting from the semester's commencement date:

- Photocopy of secondary school certificate/O'Levels certificate
- Attested photocopy of Higher Secondary School certificate/A'Levels certificate
- Attested photocopy of Bachelor's degree (if applicable)
- Attested photocopy of Master's degree (if applicable)
- Attested photocopy of CNIC or birth certificate
- Attested photocopy of equivalence certificate in case of foreign certificates/degrees
- Two recent passport size photographs duly attested by the concerned program office

Equivalency certificates are required in the following two cases:

- If the student holds a foreign degree, then they must get an equivalency certificate from the HEC
- If the student holds a GCE O'Levels/A'Levels or international baccalaureate certificate from a foreign country, then they must get an equivalency certificate from the IBCC

Note: Documents must be attested by a class one officer of the government of Pakistan.

Students with O'Levels or similar certificates that do not contain their father's name are required to submit documentary evidence of their father's name spelling in the form of CNIC, FRC, or passport.

Misrepresentation of any information may lead to disciplinary action.

Cancellation of enrollment

The enrollment and admission of a student whose certificates/degrees are found to be fake would be cancelled. Such students may also be permanently debarred from the IBA.

Change of particulars (change of name) on IBA documents

Academic documents issued by the IBA shall have the name in full form as mentioned in the matriculation certificate/O' Levels certificate or the equivalency certificate from IBCC that signifies the first education certificate/degree they hold. However, if a student wants their name changed in the IBA documents then they must first get their credentials changed on their first educational documents. Alternatively, they may get a certificate from the IBCC.

All academic credentials must have the same nomenclature and identification credentials may have a slightly different nomenclature. However, it is advisable to have the same nomenclature on all documents.
visit: https://examinations.iba.edu.pk/ .

Time-bar rule

Every student admitted to some program at the IBA must complete the academic requirements of that program in the stipulated time called enrollment period to be eligible for the award of a diploma/degree for the program. The enrollment periods are given below for reference:

Program	Enrollment period
Undergraduate Programs BBA/BSCS/BSAF/BSEM/BSECO/ BSSSLA	7 years
MBA Morning	4 years
MBA Evening/ Executive MBA	6 years
All MS Programs	4 years
PhD	8 years
PGD*	3.5 years

An extension of enrollment may be requested from the Academic Board (AB). The AB would consider the request on a case-to-case basis and may grant an extension of 1 to 2 semesters. If the appeal is rejected by the AB, then the student shall be eligible for a transcript of credit for the coursework only. His/her name shall be dropped from the rolls of the IBA. Any student with an expiring enrollment period should approach the respective program director and submit a formal application with strong justification for an extension in enrollment.

For coursework, the period shall be counted from the date of admission.

*In case an MBA (evening) student opts to do PGD only, then 3.5 years' time limit will apply, otherwise the student may continue and complete their MBA (Evening) in 7 years.

Transcript of credit

Students can get an official transcript of credit with their grades from the Institute within 30 working days. Urgently required transcripts can be obtained within 7 working days on payment of an additional Rs. 2,500/-. The issuance of transcripts is subject to clearance from Finance, CDC, hostel, library and laboratory (in the case of CS students).

MS/PhD students are also required to submit a copy of their research survey/project/thesis to the library and obtain clearance from the library. All graduating students must verify their particulars like name and father's name spellings, CNIC, and DOB on the ERP before requesting a transcript or degree. A revision note shall be mentioned on any transcripts or degree issued if any particular is changed after the generation of the document and revision charges will also be applicable. Provisional and official copies of the original transcript of credit may also be requested for admission to universities upon payment of Rs. 2,500/-.

The transcript shall be issued only to the student in person or to a person (preferably a blood relative) duly authorized by the student if the student is out of the city. Students may generate an unofficial electronic copy of the transcript on their own from the ERP system.

Requests for different kinds of transcripts should be submitted online via the following link to the examinations department which prepares, issues and verifies them. https://webapps.iba.edu.pk/tnd/.

Degree certificate

As per HEC guidelines, in order to graduate, students at the IBA have to complete the following requirements:

(a) 4, 2 and 1.5 years of studies for undergraduate, MBA / Executive MBA and MS programs respectively. The PhD rules are separate from these and are mentioned under their respective programs.

(b) the required course load and credit hours for an undergraduate degree. This is applicable to all undergraduate programs and students of all categories (fresh/internal transfer/transfer through retake).

(c) the required internships and

(d) submission of project/research survey reports or thesis. The degree is issued within 15 working days from the date of application. An additional fee of Rs. 6,000/- is applicable for duplicate/urgent degrees (obtainable in 7 working days).

The degree shall be issued only to the student in person or to a person (preferably a blood relative) duly authorized by the student if the student is out of the city.

Degree fee for PhD Programs is Rs 10,000/-.
Request for degrees should be submitted online via following link to examinations department which prepares, issues and verifies them. https://webapps.iba.edu.pk/tnd/

Duplicate transcript/degree

In case a transcript/degree has been lost, a duplicate transcript/degree can be requested by submitting a formal application to the examinations department along with:

- An affidavit on a stamp paper of Rs. 100/- duly attested by a first-class magistrate
- Original clipping from any newspaper announcing the loss of the transcript/degree
- FIR of lost transcript/degree
- Copy of transcript in case of a duplicate degree
- Copy of CNIC

A revision note shall be mentioned on each duplicate document indicating the details and invalidation of the lost document.

Migration or Character Certificate / Verification and Attestation of transcripts/degrees

For information regarding the verification and attestation of transcripts/degrees, visit: https://examinations.iba.edu.pk/.

Fee structure

Spring 2024 (Fall 2023 intake)

Undergraduate Programs

Particulars	BBA & BS Programs Amount in PKR
Tuition fee (per credit hour) (Fall-23 Intake)	24,200
Student activity charges	6,000
Course Fee(s) will be applicable on credit hour basis	

MBA Programs

Particulars	Morning	Evening	Executive
Tuition fee (per credit hour) (Fall-23 Intake)	26,600	26,600	26,600
Student activity charges	6,000	-	-
Course Fee(s) will be applicable on credit hour basis			

MS Programs

Particulars	Full-time Programs	Part-time Programs
Tuition fee (per credit hour) (Fall-23 Intake)	26,600	26,600
Student activity charges	6,000	-
Course fee(s) will be applicable on credit hour basis		

One-time charges

Admission charges (all students)	100,000
Orientation courses fee*	35,000

Transport fee (per semester)

Particulars	Amount in PKR
Charges	40,000 (0 - 20 km)
	60,000 (21km – onwards)

Hostel fee (per semester)

Room type	Amount in PKR
Single occupancy - without AC	96,000
Double occupancy - without AC	92,400
Triple occupancy - without AC	87,000
More than 3 occupancies - without AC	87,000
AC room - Single occupancy	105,600
AC room - Double occupancy	102,000
AC room - Triple occupancy	99,000
AC room - More than 3 occupancies	99,000

Note: - Utility charges for an AC room will be applied separately on actual basis.

Financial assistance program

PKR 2.52 billion	granted between 2008-2023

39%	students received financial assistance in the academic year 2022-2023

Around 300	students benefitted from Qarz-e-Hasna facility

Around 600	students benefitted from installment plan

The IBA invites talented and meritorious students from any social background, across Pakistan to enroll and study at the Institute. At the IBA, we believe that financial limitations should not be a hindrance in accessing quality education.

Financial Assistance Packages

The Financial Assistance Packages include the following:

a. Fee Installments

Full-time students enrolled in undergraduate and graduate morning programs, who are facing short-term financing constraints, and are unable to pay the entire semester fee at the beginning of the semester can apply for the fee installment plan.

Installment for the semester fee

- The students can be allowed to pay the fee in two or a maximum of three installments and these installments must be paid within the same semester period.

- The fee installment plan can be availed for the active semester fee only. Installment of fee arrears or defaults is not permissible under this option.

- Fee installment will be allowed after need assessment (i.e. subject to approval).

Fee installments can be applied for here: https://www.iba.edu.pk/installments.

Deferment of fee

In case a student does not pay his/her total fee within a particular semester then the Finance department shall send an intimation to the student to pay the outstanding dues.

The Director Financial Assistance may call the student and the parents (if necessary) to evaluate the financial situation and reach an amicable solution for the fee recovery. The student may also be directed to avail other options in the Financial Assistance Packages.

If no other options are available and the circumstances necessitate, the Director Financial Assistance may defer the fee payment to a certain date.

If a student is unable to pay the fee in full, then as a first step, the student would have to submit an affidavit on Rs.100 stamp paper for settlement by the deferred date.

The fee balance should be cleared within the same semester period before the commencement of the final exam. If the student fails to clear his outstanding fee, the Finance department may stop him/her from appearing in the final examination for that semester.

b. Need-based financial assistance

The IBA Financial Aid (FA) Program covers a wide range of need-based financial assistance in the form of scholarships. These need-based scholarships are funded through Zakat and the valuable support of public and private sector donors. Upon submission of the need-based scholarship form by the student, the IBA facilitates by providing 'bridge financing' till the applicants are successfully connected with the public or private sector scholarship donor and Zakat funds. The level of bridge financing is determined by the financial need of the student which is assessed through the information provided in the financial aid application form as submitted by the student. This bridge financing may range in between 25% and 100% of the applicable tuition fee and is decided by IBA Financial Assistance Committee (FAC).

Eligibility

For undergraduate students - only full-time students enrolled in morning programs, who are facing constraints, and cannot manage to pay fees through financial assistance options of fee installments and Qarz-e-Hasna, may apply for need-based scholarships.

Applicants can apply for financial assistance to cover their tuition fee for Fall and Spring semesters.

Financial assistance will be provided on a course basis up to the 8th semester of the undergraduate program.

Financial assistance will be provided for graduate students up to the duration of the course mentioned in the Program announcement except for the Executive MBA (EMBA).

Graduate students must take a full load of courses and should not freeze any semester throughout their graduate studies.

The repetition of courses for grade improvement or otherwise and previously withdrawn courses are not covered under need-based scholarships.

Submission of application

- All applications are to be submitted within specified dates.

- Applicants are mandatory to submit all family members' CNIC who are above 18 years of age.

- Scanned copies of the required documents are to be sent with the application form.

- Applications with incomplete documents will not be processed.

- For new admissions, bridge financing is available at the time of admission only.

- Ongoing students are required to apply at the start of each academic year (upon enrollment) for reassessment for continued financing.

- It is important to note that only those FA applications will be considered for bridge financing or scholarship which are submitted within the stipulated period.

- A checklist for required supporting documents is made available in the prescribed application form.

  The applicants are advised to consult their parents or guardians before submission of the application form along with supporting documents.

Assessment process

- The submitted application forms and supporting documents are scrutinized by the Financial Assistance (FA) Committee, comprising senior faculty and staff members..

- The applicants may be required to appear for an interview if the FA committee deems it necessary.

- The Committee then ascertains the need level of the applicants against the laid down criteria.

- Scholarship awards are based on the available funds.

Note: The IBA reserves the right to verify all information provided by the candidates. The FA Committee may also conduct personal visits during the verification process and may call students/parents for verification of documentation and to provide Income and expenses details.

It is mandatory for all financial assistance awardees to apply for externally funded scholarships proposed by the IBA Financial Assistance office. Failure to do so will result in the discontinuation of bridge financing by IBA. The student may also be required to fulfill the assessment process of a donor.

The following terms and conditions apply to applicants of the Financial Assistance Program:

- Any student who directly approaches an IBA donor will face disciplinary action.

- The Financial Assistance Committee may also conduct personal visits during the verification process.

- The applicants may be required to appear for an interview if the Financial Assistance Committee deems it necessary.

- The Financial Assistance Committee may also call students/parents for verification of documentation and Income and expenses details.

- If students fail to submit need-based scholarship forms (either fresh or renewal) within the stipulated dates, it will result in the cancellation of financial assistance.

- The IBA will provide 'bridge financing' till the applicants are successfully connected with the external donor (Government or private or Zakat). The applicants are required to keep applying for the externally funded scholarship (which is arranged by the IBA) till they are successfully parked with a donor. Such students are also advised to keep checking IBA Financial Assistance page as well as their registered email accounts to be aware of available donor-funded scholarships and should apply for the same. In case the applicant fails to apply for an externally funded scholarship, the Financial Assistance Committee will discontinue 'bridge financing' for that student.

- The IBA reserves the right to verify all information provided by the candidates.

In case of providing false information:

- The need-based financial assistance award will be revoked and the applicant will also be disqualified from applying for any loan / financial assistance in future.

- The student will have to refund all financial assistance payments received to date and / or bear the penalty equal to the total financial assistance amount on an immediate basis.

- Misrepresentation or concealment of facts may lead to the termination of admission from the Program.

Students can send their financial assistance queries at financial-aid@iba.edu.pk .

Facilities at IBA

Facilities and infrastructure

Main Campus

The IBA Main Campus is spread over 50 acres of land for educational facilities, a residential complex, and boys and girls hostels. It is located within the premises of the University of Karachi and comprises around 40 classrooms, 8 seminar rooms, 5 computer labs, and 14 breakout rooms. These are in three academic buildings: Adamjee Academic Center, Abdul Razzak Tabba Building and Aman Center for Entrepreneurial Development. All instructional spaces are fully equipped with the latest audio-visual and video conferencing facilities to boost the overall learning experience.

Other facilities at the Main Campus include:
- Gani & Tayab Auditorium (seating capacity of 300)
- Mian Abdullah Library
- Alumni Students' Center
- Khawar Butt Gymnasium for males and females
- Pepsi & Adamjee cafeterias
- TPL Event Hall
- UBL Sports Complex
- Amphitheater (seating capacity of 450)

Sports facilities

Department of Sports and Community Engagement provides a wide range of indoor and outdoor sports facilities and professional coaching to keep the students fit and healthy so that they can perform well at the zonal, national, and international platforms.

Key features of the UBL Sports Complex include:
- Cricket ground
- Football ground with a jogging track
- Tennis courts
- Basketball court
- Volleyball, throwball, netball and handball courts

Indoor sports facilities include:
- Table tennis
- Badminton court
- Snooker, foosball, carrom, chess and ludo

Labs Details

- NBP Building: 1 hardware lab
- Aman CED Building: 3 computer labs, 1 finance lab, and 1 neuro lab
- Abdul Razzak Tabba Building: 1 computer lab, 1 BDA lab, 1 web science lab, 1 TRL lab,
- 1 robotic Lab, 1 game lab
- Adamjee Academic Center: 1 economy growth & forecasting lab
- Fauji Foundation Building: 1 physiology lab

Breakout Rooms
- Abdul Razzak Tabba Building: 2
- Adamjee Academic Center: 8
- Society Offices in ASC: 4

City Campus

The IBA City Campus is situated at Kayani Shaheed Road, Garden Road, and spreads over 3.5 acres. It consists of:

- Aman Tower
- Towfiq H. Chinoy Administration Building
- Faysal Bank Academic Block
- Habib Bank Academic Building
- Library at Aman Tower
- JS Auditorium (seating capacity of 400)
- Gymnasium for males and females (situated in HBL Academic Block)
- Cafeteria Aman Tower, 5th floor
- Pepsi cafeteria (ground floor parking area)

Existing facilities include 16 classrooms, 3 seminar halls, 2 lecture theatres, 1 VC room, 4 executive rooms for workshop and training sessions, and 5 computer/ICT laboratories. The campus houses the Centers for Excellence in Executive Education (CEE), Journalism (CEJ), Information and Communication Technology (CICT), Center for Entrepreneurial Development (CED), Islamic Finance (CEIF), and Office of Research Innovation and Commercialization (ORIC) at Aman Tower. Moreover, the HBL Building houses the incubations of the Center for Entrepreneurial Development (CED), QEC and Alumni Affairs, Resource Mobilization and Corporate Relations (ARC) offices.

Health centre

Martin Dow collaborated with the IBA to provide quality healthcare facilities for its students, faculty, and staff. The clinic is accessible 6 days a week and provides the students with high quality medical facilities at the campus.

Gymnasium

The facility of the gym is available for all IBA students, staff, faculty, and alumni in both Main and City campuses. The separate gyms for girls and boys are well-equipped with different workout machines enabling users to select a variety of workout plans. Moreover, the gym instructor educates users about fitness and provides training to strengthen and maintain their physical health. Additionally, gym equipment for the visiting faculty residence and girls hostel is also available.

Cafeterias

Main Campus

The IBA cafeterias at the Main and City campuses cater to the needs of the institute's populace with hygienic meals, snacks, and refreshments that are available at affordable rates. Primary cafeteria facilities at the Main Campus can be found at the Alumni Students' Center in the form of a Pepsi dining hall with an additional food outlet called Raptor. The cafeterias at the Adamjee Academic Center also offer their services to the students and faculty on working days. To facilitate the IBA community, the management arranged some more food outlets:

Main Campus cafeterias
- Coffee shop in the library
- Kiosks (Nawab Dynasty, Kabab Hut, and GP Nice Food), a coffee shop inside the Mian Abdullah Library

City Campus cafeterias
- Cafeteria Aman Tower, 5th floor
- Pepsi cafeteria (ground floor parking area)
- Kiosks (Raptor Global & The Crepray)

ATM and Banking facilities

To cater to the banking needs of students, faculty, and staff members, both campuses are equipped with ATM machines installed by HBL. Furthermore, a few prominent bank branches are present within walking distance of both campuses.

IBA also installed ATMs for the Girls Hostel and Staff Town to facilitate the community. An ATM for the boys hostel is also in the pipeline.

Library

The library promotes teaching, learning, and research by acquiring relevant resources and proactively offering new services that are essential to foster learning. New learning resources, such as books, case studies, electronic databases, and indigenous research support materials are added to the library's collections on a regular basis.

Library spaces

The libraries on both campuses provide a stimulating learning environment. The physical library facilities have been designed to accommodate contemporary learning styles, including Collaborative Commons and Rooms, Individual study spaces, Multimedia Learning, Research Commons, Faculty Commons, and a coffee shop.

Library services

The library strives to offer its patrons with a diverse range of innovative, academic, and research support services supported by cutting-edge technologies. The library services are intended to supplement lifelong learning. To learn more about the library services, visit http://library.iba.edu.pk

Library resources

The library subscribes to over 32 electronic databases, allowing campus-wide and remote access to a large collection of full-text multidisciplinary digital materials such as e-Journals, e-Books, case studies, and industry-related research analysis reports. In addition to these digital and printed resources, the library also manages iRepository, the digital repository to showcase the institutional archive, research, history, and accomplishments.

Moreover, around 77,000 print volumes are available in the library's physical holdings, with an average of 1,500 new titles purchased each year.

Transportation

The IBA facilitates the commute of students between both the campuses via a daily shuttle service offered during multiple slots throughout the day. The IBA also provides a transport service for students, who wish to avail it, residing in various parts of the city. Moreover, both campuses are easily accessible via public transport.

On Campus Accommodation - Hostels for Boys and Girls

Overview

The IBA Karachi provides hostel facilities to its full-time, regular students from outside Karachi. Two hostels, one each for female and male students, are located within the premises of the University of Karachi. Both the hostels are secure spaces, guarded 24/7 by trained security professionals and through CCTV surveillance.

The hostels are spread over an area of 2.5 acres, surrounded by lush green lawns, trees, and gardens. Hostels' design amalgamates the needs of modern urban living with sustainability, while vast and open corridors enable a pleasant, properly ventilated living space.

The IBA hostel life is a testimony to IBA's diversity and inclusivity. Residents come from all over Pakistan and other countries and bring with them diverse cultural, economic, social, and religious backgrounds to share a similar bond, which is their association with the prestigious institution and with each other. The IBA hostels provide an atmosphere where students can learn and develop life-long associations while enjoying a comfortable setting.

Residents' security is a top priority for the institute and the hostels are guarded 24/7 by professional security personnel, with the entrance and exit points under constant CCTV surveillance. The IBA Girls hostel is a secure, residential complex for the institute's female students, managed by a female superintendent and a resident warden. The hostel is located near the IBA campus with the facility of a regular shuttle service.

The hostels' residents are encouraged to live like one big family, helping each other wherever required and making hostels a home away from home. The hostel management makes tremendous efforts to provide the residents with a clean, hygienic and congenial environment to facilitate this brief but integral part of their professional journey. Discipline and compassion for fellows are two core values that the hostel management encourages and inculcates among students. The hostels foster a sense of ownership among residents, enabling them to create memories that they cherish for years. The hostel management also encourages the hostel residents to participate in numerous cultural and social activities that are organized by the Hostel Society. Some of these include the annual welcome dinner for the hostel freshman batch, Eid-Milad-un-Nabi, Basant and Diwali celebrations, cricket and football tournaments, and the annual farewell dinner for the hostel graduating batch.

Facilities

All rooms are equipped with a smart wardrobe, study table with drawer, and a single bed with a closet compartment for additional storage. Below are the details of the facilities at the hostels:

1- Air-conditioned common rooms and TV lounges
2- Indoor gyms
3- Game room
4- Badminton court
5- Laundry room
6- Multi-purpose rooms for extra-curricular activities and green spaces for outdoor sports and other activities
7- Air-conditioned dining halls
8- High-speed internet facility
9- Prayer room
10- Subsidized laundry services (for men's hostel)
11- Chilled water dispensers (potable water)
12- 24-hour tuck shop/ vending machine
13- On-campus healthcare facility
14- On-campus mental wellness counsellor

Boys hostel

Capacity: **469**
Single Rooms: **435**
Shared Rooms: **07**
Dormitories: **10**

Girls hostel

Capacity: **160**
Single Rooms: **6**
Shared Rooms: **77**

For queries, please contact:

Dr. Mohsin Sadaqat,
Superintendent
mohsin@iba.edu.pk
Ext. 3053

Mr. Mujahid Hussain Detho,
Warden
mhussain@iba.edu.pk
Ext. 2015

Ms. Mahwish Butt,
Assistant Manager (Admin) Girls hostel
mbutt@iba.edu.pk
Ext: 1817

To apply for accommodation, click here: https://onlineadmission.iba.edu.pk

Student services

The IBA Career Development Center (CDC) is a comprehensive resource center dedicated to supporting students and graduates in all aspects of their careers. The CDC plays a vital role in facilitating internships and job placements, as well as fostering the development of essential employment skills and occupational competencies desired by employers. Serving as a bridge between the IBA community and the industry, the CDC collaborates with employers across various sectors to fulfill its core mission of assisting students and graduates in finding the right job in their desired field with the right employer.

The primary objective of the CDC is to guide members of the IBA community in defining their career goals through programs and interventions that provide learning opportunities tailored to their individual needs. As catalysts for success, the CDC staff offers support in honing interview skills, formulating effective job search strategies, and preparing impressive resumes and cover letters.

Here is an overview of the services offered by the CDC to IBA students:

1. In-house career advisory: We provide personalized career advisory services to students, helping them make informed decisions and plan their career paths. Requests are handled on a first-come, first-served basis, depending on the availability of the CDC's resource person.

2. IBA Job Portal: Our online platform, the IBA Job Portal, serves as a powerful tool for connecting students and alumni with employers. It acts as a repository for the graduate directory, allowing students and alumni to create profiles and access job/internship opportunities. Employers can post vacancies, view profiles, and save them for hiring purposes. The portal has attracted over 1100 employers within a short period.

3. Guest Speaker Series: The CDC organizes a series of sessions, workshops, and panel discussions called the 'Corporate Connect Series'. These events feature guest speakers from various industries and aim to connect students with the corporate sector. The themes for these sessions are identified in collaboration with the faculty, providing students with practical insights into their chosen fields of study and preparing them for the job market. An online system is also in place to facilitate requests from faculty members and for inviting guest speakers.

4. Career Excursions: Throughout the year, the CDC organizes career excursions that allow students to learn about different companies, explore internship and job opportunities, interact with employees, and tour facilities.

5. Learning Hub: The Learning Hub is a newly launched segment focused on experiential learning beyond the classroom. It offers seminars, interactive talks, virtual and on-site training, skills-based workshops, and real-time simulations. This segment aims to bridge the gap between theoretical knowledge and real-world application, equipping students with essential skills required in today's competitive workforce.

6. Responsible Citizen Initiative (RCI) / Social Internships: As part of their undergraduate programs, all students are required to engage in six weeks of social work known as the Responsible Citizen Initiative or Social Internships. Students work with social sector organizations, NGOs, community-based organizations, or charitable institutes in Pakistan during their summers or as their schedules allow. The CDC has established partnerships with numerous NGOs where our students can conduct their social internships.

7. Corporate/Research Internships: Corporate internships are mandatory for undergraduate students in all programs, as well as MBA students with a non-BBA background. These internships are completed after the junior year for undergraduates and after the first year for MBA students. Additionally, students in the Social Sciences program (BS-SSLA) undertake research internships lasting 6 to 8 weeks as part of their curriculum requirements. The CDC not only facilitates connections between students and recruiters but also helps students find internship opportunities.

8. Online application system for submitting internship documents: After completing their internships, students are required to submit their internship documents to the CDC office. An online application system is available, allowing students to conveniently submit all the required documents, including the internship report, certificate/letter of completion, and supervisor evaluation form. The application is synchronized with the ERP, providing an efficient solution for the documentation and archiving of internship records.

9. Online requisition of recommendation letters for internships: Students can request general or customized recommendation letters for their social and corporate/research internships through an online system on the Student Facilitation System.

10. Career Fair: The CDC organizes an annual career fair that provides a platform for potential employers to showcase their corporate image to emerging leaders. This event allows students to interact with over 100 companies, making it an invaluable opportunity for networking and exploring career options.

Career Development Centre (CDC)

11. On-Campus Recruitment Drives: Throughout the year, the CDC hosts multiple on-campus recruitment activities where employers visit the IBA campuses to conduct company orientation sessions, interviews, assessments, and other related activities. These activities are typically scheduled from January to May and target students graduating in the Fall and Spring semesters.

12. Experiential Learning Projects (ELP): The ELP program is a mandatory four-month initiative for final semester BBA and BS-Accounting & Finance students. Students work in groups to conduct primary and field research, analyze relevant issues, and propose effective solutions. ELPs provide students with practical industry knowledge and an introduction to potential organizations. For more information, visit https://elp.iba.edu.pk.

13. Mentoring Matters: The IBA benefits from a strong alumni network of over 13,000 individuals who actively support their alma mater. Mentoring Matters is a comprehensive coaching program that connects students with prominent IBA alumni and industry experts, offering guidance for personal and professional development.

14. Maverick Program: This platform provides one-on-one advisory sessions for students to discuss their career-related concerns with industry experts. These personalized sessions help students explore various career opportunities that align with their unique interests and skills, assisting them in formulating personalized plans to achieve their career goals.

15. Mock interviews: As part of the Maverick Program, the CDC offers mock interviews, which are tailored conversational exercises simulating real job interviews. Through these exercises, students gain valuable experience and guidance under the mentorship of industry experts, helping them better prepare for actual interviews.

16. Graduate profiling / Graduate profile book: The CDC publishes Profile Books on the IBA Job Portal every year, serving as a repository of information for employers seeking potential employees. Graduates can update their profiles regularly, ensuring up-to-date information for recruitment purposes.

17. Career resources: The CDC provides a range of career resources, including articles, interactive media insights, recruitment toolkits, expert opinions and reviews, research materials, and other resources related to careers and skills development. These resources cater to the diverse needs of users on the Job Portal.

18. The IBA Career Development Center (CDC) offers postgraduate studies counseling services to support students in their pursuit of higher education. The CDC provides personalized guidance to students, helping them navigate the complex process of choosing and applying to postgraduate programs. The counselors assist students in assessing their academic backgrounds, interests, and career aspirations to identify suitable programs and areas of specialization. They also provide guidance on the application process, offer feedback on application materials, and help students prepare for standardized tests. Additionally, the CDC hosts informative sessions and events to provide students with valuable insights into postgraduate studies. These sessions feature guest speakers, faculty members, and alumni who share their experiences and expertise. The sessions cover various aspects of postgraduate studies, including program options, admission requirements, funding opportunities, and career prospects. The CDC also collaborates with organizations such as Education USA and IDP to enhance its counseling services. Overall, the CDC's postgraduate studies counseling services, info sessions, and partnerships with organizations like Education USA and IDP aim to empower students with the information and resources they need to make informed decisions about their postgraduate education and successfully pursue their academic and career goals.

19. Digital media platforms: The CDC maintains various digital media platforms to keep IBA students and graduates updated on important career development announcements, internships, jobs, and other relevant information. These platforms include a dedicated Facebook group, a Facebook page, a LinkedIn group and page, and a Twitter account.

To connect with us, visit the following networks:
Facebook Page: **https://www.facebook.com/ibacdc.khi/**
Facebook Group (restricted to IBA students and alumni): **https://www.facebook.com/groups/ibacdc**
Email: **cdc@iba.edu.pk | teamcdc@iba.edu.pk**
Twitter: **https://twitter.com/ibacdc**
Instagram: **https://www.instagram.com/ibacdc/**
Website: **https://cdc.iba.edu.pk**

Office of Student Affairs

Dean's Message

As Dean of Student Affairs (DSA), I am delighted to welcome you all to the Institute of Business Administration (IBA), Karachi. I am very excited to have you all on campus and look forward to getting to know you as you get connected to the IBA community. As the DSA, my role is to ensure that your non-academic needs are met during your time here. My Office plays an integral role in community engagement, talent, and skill development, and student leadership development; students are encouraged to participate in student-led clubs and societies and the IBA Student Government (ISG). By providing opportunities for students to get involved, develop new skills, and make a positive impact in their community, my aim is to enhance the overall student experience at the IBA.

We provide support to students, through health and wellness programs and diversity and accessibility services and programs, to foster a safe, welcoming, and inclusive environment at the IBA, where students can grow both academically and personally.

As Dean Student Affairs, I also believe in enriching your university experience by encouraging you to participate in leadership development, coaching, and peer programs to foster learning, growth, and community development. You may face challenges, and that is what the Office of Student Affairs is here for - to support you and connect you to faculty, staff, and campus resources. What is close to my heart is fostering a culture of inclusion, mutual respect, and tolerance amongst the IBA community.

Looking forward to meeting you all for an engaging and diverse experience! Wishing you all the best!

Maheen Ghauri
Dean - Student Affairs

Office of Student Affairs

The Office of Student Affairs at IBA is dedicated to creating an engaging and diverse experience for every student at the IBA Karachi. The Office plays an integral role in community engagement, talent and skill development, and student leadership development. It provides students with opportunities to extend their passions, talents, and competencies beyond academia by participating in curricular, co-curricular, and service-oriented activities. The Office proactively responds and is adaptable to student-centric needs, and evolving trends and priorities.

Student Affairs is also committed to fostering a culture of inclusion, mutual respect, and tolerance with respect to diversity. It plays a pivotal role in promoting a safe, welcoming, and inclusive environment and campus life for students, especially for those who may have disabilities or special needs – our job is to support students' individual and group needs and to endorse the value of a diverse society.

The Office of Student Affairs is a one-stop solution to address all student needs and queries, to direct them to the relevant schools and student support offices, including facilitating them with academic, career, mental health, or general counseling as well.

For details, please visit: https://osa.iba.edu.pk/

The student service and support offices that fall under the Student Affairs umbrella are:

• Office of Student Societies

The Office of Student Societies (OSS) believes in creating a culture of inclusiveness and promoting self-discovery and diversity through multiple student activities. OSS encourages students to try out new things and participate in activities that enrich their lives outside of academics. Through these co-/extracurricular activities, students get involved in campus life and get to know themselves and others. The Office of Student Societies plays an integral part in the holistic development of the students that happens when they participate in different activities happening on and off campus. There are 30+ student run societies that work under the umbrella of the Office of Student Societies. Through these societies, OSS sets a benchmark of commitment, trust, hard work and leadership for all students to follow. The Office of Student Societies caters to all domains of interests that a student could possibly pursue, and if a club/society is not available students can request OSS, and a committee will look into it.

For details, please visit: https://osa.iba.edu.pk/oss/

• IBA Student Government:

The student government at the IBA is a representative body that serves as the voice of the student body. Comprised of elected representatives from each of the three schools at the IBA, the student government plays a crucial role in shaping the student experience by advocating for the needs and concerns of the student body to the administration and faculty.

The student government is responsible for organizing and coordinating various events and initiatives throughout the year, such as orientation, farewell and many other engaging events. The Office of Student Societies also helps to allocate funding to student societies and clubs, ensuring that they have the resources they need to thrive.

In addition to these responsibilities, the student government also serves as a liaison between the student body and the administration, working to improve communication and collaboration between the two. This allows for a more efficient and effective resolution of issues and concerns that students may have.

For details, please visit: https://osa.iba.edu.pk/oss/isg.php

• International Resource Center (IRC)

The International Resource Center facilitates students in extending their learning by complementing their academic experience with international exposure. The IRC team coordinates and collaborates with the top international universities and assists students who are looking for financial assistance and scholarships. The IRC team also facilitates with:

- Exchange programs
- Visiting programs
- Summer/winter programs
- Graduate and postgraduate admissions and scholarships
- English proficiency letters
- Visa letters
- NOCs for exchanges
- Participation in conferences and competitions

For further details: https://osa.iba.edu.pk/irc/

• Health and wellness/ student counseling

IBA believes that mental health of its students is just as important as their physical health. The Health and Wellness Center at IBA provides multi-level mental health facilities for our students. For Wellness Counseling, please see the link below and make an appointment with our dedicated team of Clinical Psychologists/Wellness Counselors and Psychiatrist by clicking on the available slots on our website.

Students are encouraged to visit the website https://healthandwellnesscenter.iba.edu.pk/ or reach out to Health and Wellness Center, Martin Dow.

• Office of diversity, accessibility, and inclusion

Student Affairs believes and works on the premise that every student is unique, belonging to diverse backgrounds. It aims to create an inclusive environment, accepting every individual's different background, characteristics, and differences in perspective and demographics, which include race, age, religion, disability, and gender, as well as skills, experiences, and abilities. It aims to eliminate discrimination, break down barriers, and facilitate and ensure equal opportunities and access for all students.

For further details: https://osa.iba.edu.pk/odai/

• Student leadership, coaching, and peer programs

To enrich the university experience, students can participate in leadership development, coaching, or peer programs that foster learning, growth, community development, and peer support. These students can attend workshops, seminars, and programs that will build their skills to motivate, influence, and guide other students at IBA. Students can realize their potential through such programs, and provide support to students experiencing challenges, connecting them to faculty and staff, and to campus resources.

• Student employment and volunteering

Students are offered opportunities to work part-time on both campuses during the semester and the summer. They can be employed in various departments (administrative, academic, or support service departments). These can be both paid (student employment) or unpaid (volunteering). The number of work hours per week differs based on the nature of employment. Student Affairs also helps students in search for volunteering opportunities outside IBA as well.

Student employment and volunteering allow students to develop their professional and soft skills and academic expertise. It also teaches them life skills, including building a sense of responsibility and work ethic.

Activities studio

Activities studio

School of Business Studies (SBS)

The Institute of Business Administration, (IBA) is one of the most prestigious higher education institutions located in the city of Karachi, the financial hub of Pakistan. The School of Business Studies (SBS) is the largest and flagship School in IBA. SBS is also a leading business school within Pakistan with a state-of-the-art campus which follows the best international standards and offers faculty and students a unique learning and teaching experience along with well-equipped spaces conducive for teamwork and creativity. SBS is actively pursuing the AACSB accreditation and has already achieved a key milestone in the AACSB journey. SBS faculty comprises distinguished experts across a variety of business disciplines and hold doctorates from world-renowned universities. The school offers a wide range of programs in different management disciplines to train a new generation of high-potential executives.

Dean's Message

Welcome to the School of Business Studies (SBS), IBA. I am proud to share with you the factors that make our school the right place to receive an unrivaled business education in Pakistan.

Our location in Karachi provides us an outstanding backdrop to leverage our distinctively talented student body and world-class faculty to liaison with corporate Pakistan and numerous multinationals, situated in the metropolis. The IBA Karachi has ingrained its mark in the history of Pakistan through its strong alumni network, making it a legacy of the IBA. As Dean, SBS, I feel privileged to lead the school which is on a trajectory of nurturing many more graduates who will leave their mark around the world in all walks of life.

I am filled with great optimism about our future and feel delighted in affirming that we are entering a new era where we are setting out to embark on an ambitious journey. Once SBS secures AACSB accreditation, it will place us among the upper echelon of business schools worldwide. Consolidating that our emphasis would be to secure further prestigious accreditations globally to validate the good things we do. We are also striving for SBS to feature prominently in the global league tables. Furthermore, the SBS will actively pursue international academic collaborations with top business schools which will create meaningful exchange opportunities for students and faculty members.

We live in an era of disruptions, where conventional methods of teaching, research and industry best practices are becoming redundant. Globally and locally, such disruptions are pressing business schools to engage in thoughtful leadership and demand agility to stay relevant. The SBS is very student-centric and provides a holistic student experience.

With a market-driven curriculum across our programs, we differentiate ourselves with a powerful combination of top academic talent from around Pakistan, a vibrant business community at our doorstep and a world-class faculty aiming to make a difference. We aim to engage with our alumni in a robust fashion to further deepen our industry linkages. The key focus of the school is on teaching effectiveness and impactful intellectual contributions. The ethos of innovation, entrepreneurship and commercialization remain at the heart of the process where faculty, students and corporate leaders engage in a purposeful manner to create unique constellations to solve indigenous and global challenges.

Dr. Abdullah Z. Sheikh

Overview of departments

Department of Accounting and Law

The programs offered at the Department of Accounting and Law provide conceptual and practical knowledge that enables our graduates to successfully find solutions and navigate their way in today's challenging market. The department's faculty, who are professional accountants, and lawyers with extensive practical experience, focus on imparting contemporary knowledge through practical problems and cases.

Department of Management

With an emphasis on preparing students for attaining profound critical thinking and analytical skills in the field of management, the Department of Management endeavors to impart theoretical and practical knowledge in the specialized areas of strategy, organization, operations management, entrepreneurship, and leadership.

Department of Finance

The Department of Finance offers a variety of courses to inculcate financial decision-making skills in students. The department is dedicated to developing and maintaining a curriculum integrating information technology, ethics and sustainability. The diverse faculty of the department contributes to impactful research and regularly engages with the business community for experiential learning of the students, knowledge creation and continuous improvement of the curriculum.

Department of Marketing

Our students are propelled from the basic to more critical and specialist levels at the Department of Marketing. The courses help students learn about the traditional and the most recent advances in marketing using local and international case studies, simulations, and other experiential exercises. Students can connect marketing theory with practice and are prepared for a career across any industry.

Bachelor of Business Administration (BBA)

The Bachelor of Business Administration (BBA) is a full-time 129 credit hours program comprising of four years of rigorous education which allows the student to have a broader view of the business world. The academic program does not only emphasize the essentials of business subjects, but also introduces students to the basic knowledge in Social Sciences, Mathematics and Computer Sciences during their freshman and sophomore years. All BBA students are required to enroll for Personal Effectiveness, a series of mandatory non-credit courses which build and enhance soft skills and help in personality development of students. Although there are no formally labelled Specializations, students can opt for any combination of electives from Marketing, Business Analytics, Accounting, Finance, Supply Chain, Human Resource Management (HRM), and Entrepreneurship. Based on feedback from the alumni and human resource representatives of major corporations, the IBA has included experiential learning into the curriculum. Students must undergo two internships (one as a responsible citizen initiative in an NGO and another in a corporate organization) and a semester long experiential learning project (ELP), which is in the form of a project awarded by corporate clients, an on-the-job training in the real business environment. This allows the students to network with their future employers and introduces them to the challenges of the real business world.

Program structure

		Credit hours
Time to completion	4 Years	
Minimum regular semesters	8	
Core courses	30	90
Elective Courses	11	33
Experiential Learning Project	1	6
Total	41 + ELP	129
Responsible Citizen Initiative	1	
Corporate Internship	1	
Personal Effective Program	Non-credit	

Eligibility criteria

Program learning competencies

1. **Effective communication skills**
   Students will develop the ability to become effective speakers, listeners, writers, and team members.

2. **Knowledge of core business disciplines**
   Students will gain a broad-based multidisciplinary exposure to a range of business disciplines.

3. **Critical thinking skills**
   Students will develop the ability to classify, analyze and evaluate the available data using appropriate techniques for effective decision-making.

4. **Ethics**
   Students will develop an awareness and understanding of ethical issues.

5. **Glocal mindset**
   Students will develop a focus on global connections with local contexts through awareness of diversity across cultures and markets.

Breakdown of credit hours

Course category	Courses	Credit hours
University core courses	4	12
Business core courses	21	63
Non-Specialization core courses	5	15
Business electives	7	21
Non-Specialization electives	4	12
Total Required Coursework	41	123
Experiential Learning Project		6
Total Credit Hours		129

Semester-wise sequence of courses

Freshman	Semester-1	Course code	Credit hours	Pre-requisite	Course type
1	Principles of Microeconomics	EC0103	3	-	Business Core
2	Socioeconomic Philosophy of Islam / Philosophy, Logic and Ethics	HUM357/ SSC301	3	-	University Core
3	Introduction to Computer Applications	MIS103	3	-	Non Specialization Core
4	Critical Reading and Writing	SSC101	3	-	University Core
5	Foundations of Human Behavior	SSC104	3	-	Business Core

	Semester-2	Course code	Credit hours	Pre-requisite	Course type
1	Principles of Accounting	ACC111	3	-	Business Core
2	Principles of Macroeconomics	ECO104	3	-	Business Core
3	Speech Communication	HUM201	3	-	University core
4	Principles of Management	MGT201	3	-	Business Core
5	Introduction to Statistics	MTS102	3	-	Non Specialization Core
6	Calculus 1	MTS101	3	-	Non Specialization Core

Sophomore	Semester-3	Course code	Credit hours	Pre-requisite	Course type
1	Financial Accounting	ACC201	3	ACC111	Business Core
2	Introduction to Business Finance	FIN201	3	-	Business Core
3	Organizational Behavior	MGT221	3	SSC104 MGT201	Business Core
4	Principles of Marketing	MKT201	3	-	Business Core
5	Pakistan History	SSC151	3	-	University Core
6	Statistical Inference (With Econometrics Lab)	MTS202	3	MTS102	Non Specialization Core

	Semester-4	Course code	Credit hours	Pre-requisite	Course type
1	Financial Institutions & Markets	FIN301	3	FIN201	Business Core
2	Financial Management	FIN401	3	FIN201	Business Core
3	Business Communication	MGT211	3	SSC101, HUM201	Business Core
4	Business Mathematics & Linear Algebra	MTS212	3	MTS101	Non Specialization Core
5	Business Elective I		3	-	Business Elective

Semester-wise sequence of courses

Junior	Semester-5	Course code	Credit hours	Pre-requisite	Course type
1	Management Accounting	LAW205	3	-	Business Core
2	Human Resource Management	HRM401	3	MGT221	Business Core
3	Business Law	LAW205	3	-	Business Core
4	Methods of Business Research	MKT301	3	MKT201 MTS202	Business Core
5	Introduction to Business Ethics	BUS401	3	-	Business Core
6	Business Elective II		3		Business Elective

	Semester-6	Course code	Credit hours	Pre-requisite	Course type
1	Production & Operations Management	MGT311	3	MGT201	Business Core
2	Entrepreneurship	MGT421	3	FIN201, MGT201, MKT201	Business Core
3	Marketing Issues in Pakistan	MKT401	3	MKT201	Business Core
4	Business Elective III		3		Business Elective
5	NS Elective I		3	-	Non Specialization Electives

Senior	Semester-7	Course code	Credit hours	Pre-requisite	Course type
1	Managerial Policy	MGT430	3	ECO103, ECO104, FIN201, MKT201, ACC201, MGT311, HRM40	Business Core
2	Business Elective IV		3	-	Business Elective
3	Business Elective V		3	-	Business Elective
4	Business Elective VI		3	-	Business Elective
5	NS Elective II		3	-	Non Specialization Electives
6	NS Elective III		3	-	Non Specialization Electives

	Semester-8	Course code	Credit hours	Pre-requisite	Course type
1	Business Elective VII		3	-	Business Elective
2	NS Elective IV	-	3	-	Non Specialization Electives
3	Experiential Learning Project	PRJ491	3	MKT301, MGT430	Experiential Learning Project

Business electives

Students select 7 courses as business electives. These may be chosen from any of the courses offered by the Business School that are not core courses for the BBA program or their equivalents. These elective courses therefore include, courses offered by Finance department (usually course codes beginning with FIN), Accounting and Law department (beginning with ACC and LAW), Marketing department (usually beginning with MKT) and the Management department (usually beginning with MGT, HRM, ENT and SCM), subject to fulfillment of pre-requisites. List of course offerings differ semester to semester and students can find the current offerings on the website or with the relevant program offices.

Non-specialization electives

Students must choose four electives as non-specialization elective courses from any discipline offered by any school at the IBA other than those offered from business school. These courses must not be the same or equivalents of the core courses in the program. These courses can be from Mathematics, Computer Sciences, Economics and Social Sciences disciplines. List of course offerings differ semester to semester and students can find the current offerings on the website or with the relevant program offices.

Experiential learning and lifelong learning mindset

The curriculum of the BBA program is enriched with experiential learning opportunities and activities aimed at developing lifelong learning mindset. A full-fledged personal effectiveness seminar series is included as part of the curriculum that every student must complete as a mandatory requirement for graduation. Many courses include guest speaker sessions from industry experts. Some courses also include formal corporate visits. Furthermore, term projects also require students to study, analyze and document a real-life business problem and help them connect with the industry. Some courses in management require students to launch a startup as part of the course project. This helps the students to put theory into practice. There are various success stories as a few of these startups are now working as well-developed businesses.

Internships

To provide students with an early exposure to the business world, a formal corporate internship must be carried out after completing the 6th semester (i.e. after completion of all the courses till 6th semester). However, students joining from the spring semester can be provided an exception to carry out their corporate internships during the subsequent summer after their 5th semester. These internships are a mandatory requirement for graduation. Career Development Center at IBA coordinates for the necessary requirements for the internship.

Experiential Learning Project (ELP)

Experiential Learning Project (ELP) is a mandatory and concluding part of the BBA program. It is a semester long project in a corporate entity, an on-the-job training in a real business environment. The ELP allows the students to network with their future employers and introduces them to the challenges of the real business world. The project is equivalent to 6 credit hours and the grade is also incorporated in the CGPA of the students. Detailed requirements of the ELP program are available with the program coordinator office and are provided to the students during their seventh semester. For more information: https://elp.iba.edu.pk/.

Positive societal impact

Ethical mindset and societal considerations are infused in the BBA curriculum through various avenues including course embedded topics such as Code of Ethics is part of the curriculum in the courses related to Accounting and Auditing, term projects, and social internship. In addition, students enroll in a core course called Introduction to Business Ethics. The course is designed to help students learn about socially responsible ways of engaging with stakeholders.

Social internship program

In undergraduate programs, social internship (called the Responsible Citizen Initiative) is a mandatory requirement of completing the learning cycle. Students are required to work in Non-Governmental Organization (NGO) or a social enterprise for a period of four to six weeks to get an exposure to the social problems and contribute at ground level. This can be done after the 1st year of studies / 2nd semester and must be completed by the end of the 3rd year of studies / 6th semester. Career Development Center at IBA coordinates for the necessary requirements for the internship.

Term projects with societal impacts

Many courses have the element of term project. Some of these projects also have an objective of social contribution apart from providing an experiential learning avenue. Recent examples include career counselling programs for school students from underprivileged background and organizing events that have positive social impact under the management courses.

Use of technology and innovative pedagogy

The curriculum encourages use of latest technology applications in its courses related to different business functions. These emerging technologies are continuously identified through market trends and are made part of the curricula after certain deliberations through the course review process. Some courses in BBA program integrating software teaching include, Methods in Business Research (SPSS), Financial Management, Financial Modelling (Advanced Excel), Introduction to Marketing Analytics (R and R studio), Data Manipulation and Visualization (Power BI), Accounting Information System with SAP and Financial Econometrics (E views).

Another way the program fosters technology exposure to its students is through the integration of technology in pedagogy. The use of games and simulations, course projects, video case studies and blended learning (online courses like Coursera) require students to keep in constant touch with recent technology platforms.

Bachelor of Science (BS) Accounting and Finance

The Bachelor of Science (BS) in Accounting and Finance is a full-time 126 credit hours program comprising 4-year of rigorous education. The program is designed to provide an exclusive opportunity to students to receive a specialization in Accounting and Finance. The graduates of this program obtain multiple exemptions from the Institute of Chartered Accountants of Pakistan (ICAP) and the Association of Chartered Certified Accountants (ACCA). Furthermore, the Chartered Institute of Management Accountants (CIMA), Institute of Cost and Management Accountants of Pakistan (ICMAP), and Institute of Bankers Pakistan (IBP) also provide exemptions on a case-to-case basis to the program graduates. Details of such exemptions may be found on relevant websites and secretariats of these institutions.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Program learning competencies

1. ### Effective communication skills
   Students will develop the ability to become effective speakers, listeners, writers, and team members.

2. ### Knowledge of core business disciplines
   Students will gain a broad-based multidisciplinary exposure to a range of business disciplines.

3. ### Critical thinking skills
   Students will develop the ability to classify, analyze and evaluate the available data using appropriate techniques for effective decision making.

4. ### Ethics
   Students will develop an awareness and understanding of ethical issues.

5. ### Glocal Mindset
   Students will develop a focus on global connections with local contexts through awareness of diversity across cultures and markets.

Program structure

		Credit hours
Time to completion	4 years	-
Minimum regular semesters	8	-
Core courses	23	69
Elective courses	17	51
Experiential Learning Project (ELP)	1	6
Total	40 + ELP	126
Responsible Citizen Initiative (RCI) internship	1	-
Corporate internship (6-8 weeks)	1	-
Personal effectiveness program**	10 hours	-

* Personal effectiveness program is a 10-hour seminar series conducted by industry professionals.

Breakdown of credit hours

Course category	Courses	Credit hours
University Core Courses	4	12
Accounting Core Courses	6	18
Finance Core Courses	5	15
Non-specialization Core Courses	8	24
Accounting Elective Courses	6	18
Finance Elective Courses	7	21
Non-specialization Elective Courses	4	12
Total Required Coursework	40	120
Experiential Learning Project	1	6
Total Credit Hours	-	126

Semester-wise sequence of courses

Freshman	Semester-1	Course code	Credit hours	Pre-requisite	Course type
1	Principles of Accounting	ACC111	3	-	Accounting Core
2	Introduction to Economics	ECO105	3	-	Non Specialization Core
3	Introduction to Statistics	MTS102	3	-	Non Specialization Core
4	Calculus 1	MTS101	3	-	Non Specialization Core
5	Critical Reading and Writing	SSC101	3	-	University Core
6	Pakistan History	SSC151	3	-	University Core

	Semester-2	Course code	Credit hours	Pre-requisite	Course type
1	Financial Accounting	ACC201	3	ACC111	Accounting Core
2	Introduction to Business Finance	FIN201	3	-	Finance core
3	Speech Communication	HUM201	3	-	University Core
4	Business Law	LAW205	3	-	Accounting Core
5	Introduction to Computer Application	MTS102	3	-	Non Specialization Core
6	Islamic Scholarly Tradition / Philosophy, Logic and Ethics (PLE)*	SSC301/ HUM357	3	-	University Core

Sophomore	Semester-3	Course code	Credit hours	Pre-requisite	Course type
1	Financial Institutions and Markets	FIN301	3	FIN201	Finance Core
2	Financial Management	FIN401	3	FIN201	Finance core
3	Management and Organizational Behaviour	MGT231	3	-	Non Specialization Core
4	Principles of Marketing	MKT201	3	-	Non Specialization Core
5	Statistical Inference with Econometrics	MTS202	3	MTS102	Non Specialization Core

	Semester-4	Course code	Credit hours	Pre-requisite	Course type
1	Management Accounting	ACC381	3	ACC201	Accounting Core
2	Taxation	LAW303	3	ACC201	Accounting Core
3	Accounting elective I	-	3	-	Accounting Elective
4	NS Elective I	-	3	-	Non Specialization Elective
5	NS Elective II	-	3	-	Non Specialization Elective

Junior	Semester-5	Course code	Credit hours	Pre-requisite	Course type
1	Auditing	ACC320	3	ACC201	Accounting Core
2	Financial Modeling	FIN464	3	FIN401	Finance Core
3	Regulations and Financial Markets	FIN465	3	FIN301	Finance Core
4	Business Communication	MGT211	3	SSC101/ HUM201	Non Specialization Elective
5	Accounting elective II	-	3	-	Accounting Elective

	Semester-6	Course code	Credit hours	Pre-requisite	Course type
1	Accounting elective III	-	3	-	Accounting Elective
2	Finance elective I	-	3	-	Finance Elective
3	Finance elective II	-	3	-	Finance Elective
4	Finance elective III	-	3	-	Finance Elective
5	NS elective III	-	3	-	Non Specialization Elective

Semester-wise sequence of courses

Senior	Semester-7	Course code	Credit hours	Pre-requisite	Course type
1	Accounting elective IV	-	3	-	Accounting Elective
2	NS elective IV	-	3	-	Non Specialization Elective
3	Finance elective IV	-	3	-	Finance Elective
4	Finance elective V	-	3	-	Finance Elective
5	Finance elective VI	-	3	-	Finance Elective

	Semester-8	Course code	Credit hours	Pre-requisite	Course type
1	Accounting elective V	-	3	-	Accounting Elective
2	Accounting elective VI	-	3	-	Accounting Elective
3	Finance elective VII	-	3	-	Finance Elective
4	ELP	PRJ491	6	-	Experiential Learning Project

* Muslim students must take SEPI according to HEC regulations. Non-Muslim students can take either of the two courses.

Accounting electives (6 to be selected)

Accounting elective courses may constitute any of the courses offered by the Accounting and Law department (subject to fulfilment of pre-requisites) that is not a core course. The relevant courses have the course code in the format of ACCXXX and LAWXXX. The list of course offerings differ semester to semester and students can find the current offerings on the website or with the relevant program offices.
A reference list of accounting elective courses is given below (offered in the last year).

S. No.	Course title	Course code	Credit hours	Pre-requisite
1	Globalization & International Law	ACC231	3	-
2	Advanced Managerial Accounting	ACC310	3	ACC220
3	Financial Reporting	ACC315	3	ACC201
4	Advanced Auditing	ACC325	3	ACC320
5	Accounting Information System with SAP	ACC330	3	ACC201
6	Advanced Financial Reporting	ACC401	3	ACC315
7	Politics and Law	LAW105	3	-
8	Corporate Law	LAW305	3	LAW205
9	Legal & Regularity Environment	LAW310	3	LAW205
10	Advanced Taxation	LAW401	3	LAW303

Finance electives (7 to be selected)

Finance elective courses may constitute any of the courses offered by the Finance department (subject to fulfillment of pre-requisites). These courses usually have code in the format of FINXXX. The list of course offerings differ semester to semester and students can find the current offerings on the relevant website or with the relevant program offices.

A reference list of finance elective courses is given below (offered in the last year).

S. No.	Course title	Course code	Credit hours	Pre-requisite
1	Fixed Income Investments	FIN424	3	FIN401
2	Investment Banking	FIN451	3	FIN401
3	Security Analysis	FIN453	3	FIN401
4	Corporate Finance	FIN454	3	FIN401
5	Portfolio Management	FIN455	3	FIN401
6	Financial Risk Management	FIN456	3	FIN401
7	Derivatives	FIN457	3	FIN401
8	Treasury and Funds Management	FIN462	3	FIN401
9	Islamic Banking & Finance	FIN463	3	-
10	Marketing of Financial Service	FIN467	3	FIN401
11	Venture Capital & Innovation in Finance	FIN468	3	FIN401

Non-specialization electives (4 to be selected)

Students must choose 4 courses as non-specialization courses based on their interests and preferences. These are undergraduate courses offered at the IBA at any school and by any department, except those offered as accounting or finance courses (that is, except those offered under course codes ACCXXX, LAWXXX, and FINXXX).

At least one of the NS electives must be from courses offered by the Social Sciences Department. These courses are usually in the format of SSCXX, HUMXXX, HSTXXX, NSCXXX, MCSXXX, POLXXX, PSYXXX, or language courses.

The other three electives in this category can be any undergraduate course that is not a core (or equivalent) course and not an accounting or finance elective for the program. These courses may be those offered from any of the three schools at IBA (subject to fulfilment or prerequisites). ACF Students are not allowed to take Principles of Microeconomics, Principles of Macroeconomics, Principles of Management, or Organizational Behavior as NS electives. The list of course offerings differ semester to semester and students can find the current offerings on the relevant website or with the relevant program offices.

Accounting electives compulsory for CA and ACCA exemption

Course category	Course code
Financial Reporting	ACC315
Corporate Law	LAW305

Experiential learning and lifelong learning mindset

The curriculum of the BSAF program is enriched with experiential learning opportunities and activities aimed at developing a lifelong learning mindset. In addition to the personal effectiveness seminar series, many courses include guest speaker sessions from industry experts. Some courses also include formal corporate visits like the visit to Pakistan Stock Exchange in an undergraduate core course 'Financial Institutions and Markets'.

Internships

To provide students with an early exposure to the business world, a formal corporate internship must be carried out after completing the 6th semester (i.e. after completion of all the courses till 6th semester). However, students joining from the spring semester can be provided an exception to carry out their corporate internships during the subsequent summer after their 5th semester. These internships are a mandatory requirement for graduation. Career Development Center at IBA coordinates the necessary requirements for the internship:

Experiential Learning Project (ELP)

The experiential Learning Project (ELP) is a mandatory and concluding part of the BSAF program. It is a semester-long project in a corporate entity, an on-the-job training in a real business environment. The ELP allows the students to network with their future employers and introduces them to the challenges of the real business world. The project is equivalent to 6 credit hours and the grade is also included in the CGPA of the students. Detailed requirements of the ELP program are available from the program coordinator office and are provided to the students during their seventh semester. For more information: https://elp.iba.edu.pk/.

Positive societal impact

Ethical mindset and societal considerations are infused in the BSAF curriculum through various avenues including course embedded topics such as the Code of Ethics is part of the curriculum in the courses related to Accounting and Auditing, term projects, and social internship.

Social internship program

In undergraduate programs, social internship (called the Responsible Citizen Initiative) is a mandatory requirement for completing the learning cycle. Students are required to work in Non-Governmental Organization (NGO) or a social enterprise for a period of four to six weeks to get exposure to social problems and contribute at the ground level.

This internship can be carried out after the 1st year of studies / 2nd semester and must be completed by the end of the 3rd year of studies / 6th semester. Career Development Center at IBA coordinates the necessary requirements for the internship.

Use of technology and innovative pedagogy

The curriculum encourages use of the latest technology applications in its courses related to different business functions. These emerging technologies are continuously identified through market trends and are made part of the curricula after certain deliberations through the course review process. Some courses in the BSAF program integrating software teaching include Financial Management, Financial Modelling (Advanced Excel), Accounting Information System with SAP (SAP) and Financial Econometrics (E views).

Another way the program fosters technological exposure to its students is through the integration of technology into pedagogy. The use of games and simulations, course projects, video case studies and blended learning (online courses like Coursera) require students to keep in constant touch with recent technology platforms.

Master of Business Administration (MBA)

MBA is IBA's flagship program offered in both morning and evening modalities. Through this program, students will develop a range of analytical, conceptual, and operational skills that can address the many challenges in industries and society. The program attracts talented students through a competitive process and facilitates their transformation into responsible business leaders. Our MBA graduates are trained to think critically and to work with ethical integrity. The MBA faculty using state of the art technology and pedagogies fosters this learning environment through the creation, acquisition, dissemination, and application of new knowledge related to business administration.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

MBA Morning

The MBA Morning is a full-time program of 2 years duration. Students may choose from specializations in Marketing, Finance, Human Resource Management, and Supply Chain Management.

MBA Evening

The MBA Evening is offered to part-time (working) students. Students may choose from specializations in Marketing, Finance, Human Resource Management, and Supply Chain Management. The duration of this program (3.5 years) may vary depending on the capacity of the student to complete the course load during each semester. Classes are held in the evenings on weekdays.

Program learning competencies

1. **Advanced communication skills**
   Students will develop the ability to communicate effectively while presenting/defending business ideas and decisions.

2. **Advanced Knowledge and research capability**
   Students will develop the ability to apply advanced knowledge of major business disciplines for problem-solving and decision making.

3. **Critical Thinking**
   Students will develop the ability to analyze a complex business situation to reach a diagnosis and prescribe resolution strategies.

4. **Ethical awareness**
   Students will develop ethical understanding in a business setting.

5. **Global mindset**
   Students will develop an appreciation of diversity in business practices, both locally and globally.

Program structure

		Credit hours
Time for completion	**2 years (MBA Morning) 3.5 years (MBA Evening)***	-
Business Orientation Program (BOP)	**4-6 weeks**	-
Core courses	13	39**
Elective courses	5	15
MBA Project	1	6
Total	18 + 1 project	60
Corporate internship (6-8 weeks) **	1 (only for MBA Morning)	-
Personal effectiveness program*** (10 hours)	1 (only for MBA Morning)	-

*Approximate only; actual duration varies based on the course load.
**Corporate internship is mandatory for students coming from non-BBA academic backgrounds.
***Personal effectiveness program consists of 5 sessions delivered by industry professionals.

Business Orientation Program	Duration
BOP is based on the essential topics for the subjects of Accounting, Finance, Marketing, and Management.	4-6 weeks program

Semester-wise sequence of courses - MBA Morning

Semester-1	Course code	Credit hours	Pre-requisite	Course type
Financial Accounting and Information Systems	ACC506	3	-	Core
Business Finance I	FIN506	3	-	Core
Managerial Economics	MGTxxx	3	-	Core
Organizational Behavior and Leadership	MGT557	3	-	Core
Marketing Management	MKT501	3	-	Core
Total credit hours		15		

Semester-2	Course code	Credit hours	Pre-requisite	Course type
Accounting for Decision Making	ACC505	3	ACC506	Core
Business Finance II	FIN507	3	FIN506	Core
Business, Government, and the International Economy (BGIE)	MGTxxx	3	MGTxxx	Core
Operations and Production Management	MGT510	3	FIN506	Core
Data Analytics	FINxxx	3	FIN506 MKT501 MGT557	Core
Total credit hours		15		

6-8 weeks Corporate Internship (before 3rd semester)

Semester-3	Course code	Credit hours	Pre-requisite	Course type
Business Ethics	MGTxxx	3	-	Core
Advanced & Applied Business Research	MKT505	3	MKT501 FINxxx	Core
Corporate Strategy*	MGT506	3	ACC505 FIN507 MGTxxx MGT510 Finxxx	Core
MBA Project - Non-Credit	PRJ701	0	-	FYP
A minimum of two courses from electives	-	6	-	Elective
Total credit hours	-	15	-	

Semester-4	Course code	Credit hours	Pre-requisite	Course type
MBA Project - Final	PRJ702	6	-	FYP
A minimum of three courses from electives		9		Elective
Total credit hours	-	15	-	

Important Note:

* Students are required to follow their program's semester-wise sequence of courses.

MBA Morning students (except those taking retakes) are required to complete their courses in the morning program.

Semester-wise sequence of courses - MBA Evening

Semester-1	Course code	Credit hours	Pre-requisite	Course type
Financial Accounting and Information Systems	ACC506	3	-	Core
Business Finance I	FIN506	3	-	Core
Managerial Economics	MGTxxx	3	-	Core
Total credit hours		9		

Semester-2	Course code	Credit hours	Pre-requisite	Course type
Business, Government, and the International Economy (BGIE)	MGTxxx	3	-	Core
Marketing Management	MKT501	3	-	Core
Accounting for Decision Making	ACC505	3	-	Core
Total credit hours		9		

Semester-3	Course code	Credit hours	Pre-requisite	Course type
Data Analytics	FINxxx	3	-	Core
Business Finance II	FIN507	3	FIN506	Core
Operations and Production Management	MGT510	3	FIN506 MKT501 MGT557	Core
Total credit hours		9		

Semester-4	Course code	Credit hours	Pre-requisite	Course type
Business Ethics	MGTxxx	3	-	Core
Organizational Behavior and Leadership	MGT557	3	-	Core
Advanced & Applied Business Research	MKT505	3	MKT501 FINxxx	Core
Total credit hours		9		

Semester-5	Course code	Credit hours	Pre-requisite	Course type
Corporate Strategy*	MGT506	3	ACC505 FIN507 MGTxxx MGT510 Finxxx	Core
A minimum of two courses from electives	-	6	-	Elective
Total credit hours		9		

Semester-6	Course code	Credit hours	Pre-requisite	Course type
MBA Project - Non-Credit	PRJ701	0	-	FYP
A minimum of three courses from electives		9	-	Elective
Total credit hours		9		

Semester-7	Course code	Credit hours	Pre-requisite	Course type
MBA Project - Final	PRJ702	6	-	FYP
Total credit hours		6		

Important Note:
* Students are required to follow their program's semester-wise sequence of courses.
** MBA Evening students (except those taking retakes) are required to complete their courses in the evening program.

Elective courses

Students can select 5 courses as electives. These may be selected from any of the courses offered by the School of Business Studies (SBS) that are not core courses for the MBA program. These elective courses, therefore, include courses offered by the Finance department (usually course codes beginning with FIN), Accounting and Law department (beginning with ACC and LAW), Marketing department (usually beginning with MKT) and the Management department (usually beginning with MGT, HRM, ENT, and SCM); subject to fulfillment of pre-requisites. The list of course offerings differ from semester to semester and students can find the current offerings on the website or with the relevant program offices.

Course title	Course code	Credit hours	Pre-requisite
Accounting Information System with SAP	ACC507	3	ACC506
Auditing Theory and Practice	ACC557	3	ACC506
IFRS and Financial Reporting in Pakistan	ACC559	3	ACC506
Analysis of Financial Statements	ACC561	3	ACC506
Project Evaluation and Financing	ACC589	3	ACC506
International Field Project	BUS551	3	-
Introduction to Ethics and Moral Philosophy	BUS553	3	-
International Trade	ECO539	3	ECO501
Public Policy Analysis: Theory and Practice	ECO560	3	ECO501
Environmental and Resource Economics	ECO561	3	ECO501
Financial Economics	ECO562	3	ECO501
Monetary Economics	ECO566	3	ECO501
Water Economics and Policy	ECO574	3	ECO501
Microeconomics of Policy Analysis	ECO575	3	ECO501
Financial Intermediation	FIN531	3	FIN507
The Strategic Management of Banks	FIN541	3	FIN507
International Finance	FIN551	3	FIN507
Investment Banking and Financial Services	FIN554	3	FIN507
Security Analysis and Capital Markets	FIN556	3	FIN507
Regulation and Financial Markets	FIN558	3	FIN507
Advanced Corporate Finance	FIN560	3	FIN507
Advanced Portfolio Management	FIN563	3	FIN507
Treasury and Fund Management	FIN565	3	FIN507
Risk Management	FIN567	3	FIN507
Derivatives and Risk Hedging	FIN568	3	FIN507
Financial Econometrics	FIN569	3	FIN506, MTS509
Islamic Finance	FIN570	3	FIN506

Course title	Course code	Credit hours	Pre-requisite
Financial Modelling	FIN574	3	FIN507
Fixed Income Securities	FIN594	3	FIN507
Behavioural Finance	FIN598	3	FIN507
People Analytics	HRM530	3	MGT557
Organizational Development	HRM552	3	MGT557
Team Management	HRM557	3	MGT557
Leading and Managing Change Process	HRM558	3	MGT557
Performance and Compensation Management	HRM562	3	MGT557
Developing Human Capital	HRM571	3	MGT557
Corporate Governance and Practices in Pakistan	LAW553	3	LAW501
International Market Entry Strategies	MGT558	3	-
International Business	MGT559	3	-
Alternative Management	MGT560	3	-
Technology Innovation Management and Design	MGT561	3	-
Branding and Creative Corporate Communication	MKT506	3	MKT501
Food Products Marketing	MKT550	3	MKT501
Advanced Marketing Communication	MKT551	3	MKT501
Applied Buying Behaviour	MKT552	3	MKT501
Social Marketing	MKT556	3	MKT501
Advanced Brand Management	MKT561	3	MKT501
Digital Marketing	MKT563	3	MKT501
Media Management	MKT566	3	MKT501
Social Media Marketing	MKT569	3	MKT501
Marketing Analytics	MKT574	3	MKT501, MTS509, MTS510
Trade Marketing	MKT576	3	MKT501
New Product Development	MKT578	3	MKT501
Green Marketing and Sustainability	MKT579	3	MKT501
Growth Marketing for Technology Enabled Companies	MKT580	3	MKT501
E-Commerce & Its Application	MKT583	3	MKT501
Retail Management	MKT586	3	MKT501
Personal Selling	MKT651	3	MKT501
Sales Management	MKT653	3	MKT501
Services Marketing	MKT656	3	MKT501
Strategic Marketing	MKT657	3	MKT501
Advanced B2B Marketing	MKT658	3	MKT501
Global Marketing Management	MKT659	3	MKT501
Neuro Marketing	MKT660	3	-
Business Analysis and Decision Making	MTS500	3	MKT503, MKT507
Business Analytics	MTS501	3	MKT503, MKT507
Dynamics Of Distribution & Logistics	SCM557	3	MKT501
Supply Chain Management	SCM559	3	MKT501
Strategic Sourcing and Procurement	SCM570	3	MKT501
Strategic Sourcing and Negotiation Skills	SCM571	3	MKT501

Experiential learning and lifelong learning mindset

The curriculum of the MBA Program is enriched with experiential learning opportunities. The personal effectiveness program consists of 5 interactive sessions delivered by industry professionals on topics including interpersonal skills, career talk, work practices, and ethics. Furthermore, guest lectures, field trips, games and simulations, and term projects are also included for experiential learning.

The students are also exposed to various activities to develop a lifelong learning mindset. With faculty mentoring, they are encouraged to participate in industry challenges, competitions, and activities to further develop a learning mindset.

MBA Project

The mandatory MBA Project serves as a tool for experiential learning as it involves data collection and detailed analysis of a specific industry-related issue and presentation of analysis with solutions/ recommendations. Students must engage with the industry and a faculty mentor to complete the project.

Corporate internship

MBA morning students must undertake a mandatory 6 – 8-week corporate internship. This provides them with exposure to apply their learning in an actual work environment.

Positive societal impact

As part of the IBA-SBS Mission, social enlightenment broadly and ethics specifically is an essential element of the MBA program. It is infused in various courses in the form of explicit topics or part of pedagogy, such as case studies, to discuss the ethical implications. Also, some courses including, 'Organizational Behavior and Leadership', 'Corporate Strategy' and 'Business Ethics' focus on this component at a higher level. The Code of Ethics is also part of the curriculum in the courses related to Accounting and Auditing.

Use of technology and innovative pedagogy

IBA-SBS supports and encourages the use of innovative pedagogical tools by faculty through various faculty training sessions and ensuring access to such resources. For example, IBA-SBS has access to Harvard Business Publishing and uses Harvard cases and simulations in various courses. Many courses at the MBA level use case studies in pedagogy to embed the application of concepts in real-life scenarios.

The MBA program also incorporates software in student learning including SPSS, NVivo, AMOS, SAP, and Advanced Excel.

Executive Master of Business Administration (EMBA)

The Executive MBA program, offered by IBA-SBS, is designed specifically for working professionals and spans a duration of 72 credit hours over weekends. It presents a distinctive chance for professionals to enhance their expertise and capabilities while maintaining their job responsibilities. The program can typically be finished within a span of approximately 3 years, depending on the number of courses undertaken by each student.

This program caters to professionals aspiring to assume leadership positions and strive for the top echelons of the corporate hierarchy, particularly within the C-suite (CEO, CFO, and COO) or entrepreneurial roles. The program's structure, curriculum, approach, and material are meticulously crafted in collaboration with renowned experts and seasoned faculty members.

Eligibility criteria

Class schedule

The class schedule is planned to cater to the convenience of students, mainly scheduled on weekends. Regular classes, with a full course load are conducted from 2:00 p.m. to 9:15 p.m. on Saturdays and from 9:30 a.m. to 5:15 p.m. on Sundays. However, students have the flexibility to adjust their course workload according to their preferences, allowing them to minimize their commitments if desired.

Program learning competencies

1. **Advanced communication skills**
   Students will develop the ability to communicate effectively while presenting/defending business ideas and decisions.

2. **Advanced knowledge and research capability**
   Students will develop the ability to apply advanced knowledge of major business disciplines for problem-solving and decision making.

3. **Critical thinking**
   Students will develop the ability to analyze a complex business situation to reach a diagnosis and prescribe resolution strategies.

4. **Ethical awareness**
   Students will develop ethical understanding in a business setting.

5. **Glocal mindset**
   Students will develop an appreciation of diversity in business practices, both locally and globally.

Program structure

Description	No. of courses	Credit hours
Time for completion is 3 years*	-	-
Core courses	13	39
Capstone (after all core courses)	01	03
Elective courses	8	24
Executive MBA Project	1	6
Total	-	72
***Based on full course load**	-	-

Semester-wise sequence of courses:

Semester-1	Course code	Credit hours	Pre-requisite	Course type
Quantitative Methods of Decision Making	MTS506	3	-	Core
Marketing Management	MKT501	3	-	Core
Financial Accounting and Information Systems	ACC506	3	-	Core
Business Finance – I	FIN506	3	-	Core
Total credit hours		12		

Semester-2	Course code	Credit hours	Pre-requisite	Course type
Managerial Communications	MGT503	3	-	Core
Advanced and Applied Business Research	MKT505	3	MTS506 MKT501	Core
Organizational Behavior & Leadership	MGT557	3	-	Core
Business Finance II	FIN507	3	FIN506	Core
Total credit hours		12		

Semester-3	Course code	Credit hours	Pre-requisite	Course type
Legal & Regulatory Environment of Business	LAW501	3	-	Core
Accounting for Decision Making	ACC505	3	FIN506	Core
Managerial Economics	ECO501	3	-	Core
Operations Management	MGT510	3	FIN506 MKT501 MGT557	Core
Total credit hours		12		

Semester-4	Course code	Credit hours	Pre-requisite	Course type
Global Economics & Political Environment	ECO517	3	ECO501	Core
Elective 1	-	3	-	Elective
Elective 2	-	3	-	Elective
Elective 3	-	3	-	Elective
Total credit hours		12		

Semester-5	Course code	Credit hours	Pre-requisite	Course type
Corporate Strategy	MGT541	3	-	Elective
Elective 4	-	3	-	Elective
Elective 5	-	3	-	Elective
Executive MBA Project	-	6	All core courses	Core
Total credit hours		15		

Semester-6	Course code	Credit hours	Pre-requisite	Course type
Elective – 6	-	3	-	Elective
Elective – 7	-	3	-	Elective
Elective – 8	-	3	-	Elective
Total credit hours		9		

Important Note:

* Students are required to follow their program's semester-wise sequence of courses.

Elective courses

Course title	Course code	Credit hours	Pre-requisite
Analysis of Financial Statements	ACC561	3	ACC506
Business Analytics and Decision Making	MTS500	3	-
Issues in Pakistan Economy	ECO544	3	ECO501
Advance Corporate Finance	FIN501	3	FIN507
Treasury and Financial Derivatives	FIN535	3	FIN507
Corporate Investment Banking	FIN536	3	FIN507
Islamic Finance	FIN559	3	FIN507
Advance Portfolio Management	FIN563	3	FIN507
Risk Management	FIN567	3	FIN507
Financial Modeling	FIN574	3	FIN507
Recruitment and Selection Techniques	HRM530	3	MGT557
Leading the Change Process	HRM558	3	MGT557
Performance and Compensation Management	HRM562	3	MGT557
Training and Development	HRM571	3	MGT557
Corporate Governance and Practices in Pakistan	LAW553	3	LAW501
Strategic Human Resource Management	MGT512	3	MGT557
Project Evaluation and Management	MGT531	3	-
Alternate Management	MGT560	3	-
Mobile Marketing Strategy	MIS553	3	MKT501
Branding and Creative Corporate Communication	MKT506	3	MKT501
Advance Marketing Communication	MKT551	3	MKT501
Entrepreneurial Management	MKT553	3	-
Dynamics of Distribution and Logistics	SCM557	3	MKT501
Supply Chain Management	SCM559	3	MKT501
Advance Brand Management	MKT561	3	MKT501
Digital Marketing	MKT563	3	MKT501
Integrated Marketing Management	MKT564	3	MKT501
Social Media Marketing	MKT569	3	MKT501
Strategic Sourcing and Negotiation Skills	SCM571	3	MKT501
Retailing	MKT586	3	MKT501
Services Marketing	MKT656	3	MKT501
B2B Marketing	MKT658	3	MKT501
Global Marketing Management	MKT659	3	MKT501

Further electives can be included based on industry demand and participants' requirements.

Experiential learning and lifelong learning mindset

The curriculum of the Executive MBA includes different avenues for experiential learning. Guest speaker sessions, simulation exercises, and term projects provide the opportunity to enhance understanding through experiential avenue of learning. Workshops, training sessions, networking events are also regularly arranged to develop a lifelong learning mindset.

Executive MBA Project

The mandatory Executive MBA Project serves as a tool for experiential learning as it involves data collection and detailed analysis of a specific industry-related issue and presentation of analysis with solutions/ recommendations. Students must engage with the industry and a faculty mentor to complete the project.

Positive societal impact

As part of the IBA-SBS Mission, social enlightenment broadly and ethics specifically is an important element of the Executive MBA program. It is infused in various courses in the form of explicit topics or part of pedagogy, such as case-studies, to discuss the ethical implications. Also, some courses, like 'Legal and Regulatory Environment of Business', 'Organizational Behavior and Leadership' and 'Corporate Strategy' focus on this component at a higher level. Code of Ethics is also part of the curriculum in the courses related to Accounting and Auditing.

Use of technology and innovative pedagogy

IBA-SBS supports and encourages the use of innovative pedagogical tools by faculty through various faculty training sessions and ensuring the access to such resources. Many courses at the Executive MBA level use case studies in pedagogy to embed the application of concepts in real life scenarios. The faculty has access to Harvard Business Publishing and uses Harvard cases, and simulations in various courses.

The Executive MBA program also incorporates software in student learning including SPSS, AMOS, Advanced Excel etc.

Master of Science (MS) Finance

The MS Finance is a 36 credit hours morning program that can be completed in a minimum duration of 1.5 years. The program is designed to provide a solid theoretical, as well as computational skillset for a successful career in the field of finance. Students are prepared for challenges in the domestic and global financial system by imparting comprehensive knowledge of finance and its multidisciplinary aspects. Students will gain an in-depth knowledge with core courses in corporate finance and investments, before they can streamline the degree, to their choice of specialization (Market Finance or Corporate Finance) with a range of optional courses, including a few specifically designed applied courses.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Class timings

The classes will be conducted in the evenings and on weekends.

Program learning competencies

1. **Advanced knowledge of finance disciplines**
   Students will gain in-depth knowledge of areas within the finance field.

2. **Critical analysis skills**
   Students will develop critical thinking skills.

3. **Ethical awareness**
   Students will develop an awareness of ethical issues in the finance field and research.

4. **Plan and execute research**
   Students will engage with and contribute to knowledge frontiers in the finance field.

Program structure

		Credit hours
Core courses	**7**	**21**
Elective courses	**3***	**9**
Thesis / Project	**1**	**6**
Total	**10 + 1 thesis**	**36**

* MS students can opt to take a project of 3 credit hours in place of a thesis along with an additional elective course to complete the mandatory credit hours. Furthermore, such students cannot use this MS degree to apply for a PhD program, as per HEC policy.

Semester-wise sequence of courses

Semester-1	Course code	Credit hours	Pre-requisite	Course type
Corporate Finance	**FIN555**	**3**	**-**	**Core**
Financial Econometrics	**FIN569**	**3**	**-**	**Core**
Investments	**FIN511**	**3**	**-**	**Core**
Financial Analysis through Excel and VBA	**FIN516**	**3**	**FIN555**	**Core**
Ethics and Professional Standards in Finance	**FIN505**	**3**	**-**	**Core**

Semester-2	Course code	Credit hours	Pre-requisite	Course type
Seminars in Finance	**FIN577**	**3**	**-**	**Core**
Financial Analysis through Stata and R	**FIN517**	**3**	**FIN555**	**Core**
Area elective 1*	**-**	**3**	**-**	**Elective Corea**
General elective 1	**-**	**3**	**-**	**Elective Core**

Semester-3	Course code	Credit hours	Pre-requisite	Course type
Area elective 2	-	-	-	Elective Core
Thesis/project	-	-	-	-

Important Note:

*Students can opt for specialization in the fields of Corporate Finance or Market Finance.

Elective courses

Corporate Finance

S.No	Course title	Course code	Credit hours	Pre-requisite
1	Mergers and Acquisitions	FIN577	1.5	FIN555
2	Project Finance and Public Private Infrastructure	FIN555	1.5	FIN555
3	International Finance	FIN551	3	FIN555
4	Applied Security Analysis and Financial Modelling	FIN562	3	FIN555

Market Finance

S.No	Course title	Course code	Credit hours	Pre-requisite
1	Empirical Asset Pricing	FIN575	3	FIN511/FIN516
2	Derivatives and Risk Hedging	FIN568	3	FIN555
3	Mathematical Finance	FIN578	3	FIN555
4	Treasury and Fund Management	FIN565	3	FIN555

General electives

S.No	Course title	Course code	Credit hours	Pre-requisite
1	Fintech and Financial Innovation	FIN580	3	FFIN555
2	Behavioral Finance	FIN598	3	FIN555
3	Islamic Finance	FIN559	3	FIN555
4	Risk Management	FIN562	3	FIN555
5	Advanced Econometrics	STA672	3	FIN569
6	Python for Finance	FIN582	3	FIN555

Experiential learning and lifelong learning mindset

Experiential learning is embedded in the MS Finance program through thesis/project and various projects embedded in courses to give students an opportunity to interact with industry professionals, analyze and document a real-life problem and connect with the financial market.

The MS Finance core courses introduce students to basic and advanced level finance courses along with econometrics and financial analysis courses to strengthen students' research and data analysis skills in Finance for lifelong learning. Students then choose their thesis or project as per the specialized area choice which enables them to apply the relevant research tools to analyze an issue in their selected area.

Finance lab

- A Finance lab is also being developed at the IBA-SBS which will give students an opportunity to apply their learning through various practical approaches. The Finance lab will provide the students with exposure to securities and investment analysis, and portfolio management through real-time market data.

Positive societal impact

Aligned with the IBA-SBS mission, the curriculum embeds social enlightenment and ethics at the core of learning. Most courses include a topic on ethical perspective and conduct and projects are also required to have a necessary component of ethical implications. Moreover, the students are encouraged to pick a topic for their thesis/ project with a positive societal impact and include ethical perspectives in their research work.

Use of technology and innovative pedagogy

The MS Finance program incorporates software in student learning including Advanced Excel, VBA, Stata, R, Python etc. Apart from this, workshops, and multiple training sessions on new software are organized for graduate students to support in their research endeavors.

Master of Science (MS)
Islamic Banking and Finance

The MS Islamic Banking and Finance (MS IBF) is a 42 credit hours program which can be completed in a minimum duration of 1.5 years. It is offered for fresh graduates from business and other disciplines, experienced practitioners as well as Shariah scholars. The program is designed to meet the growing needs of the Islamic Finance industry by providing theoretical and applied knowledge of Islamic Finance, Islamic Jurisprudence, Banking and Economics. Graduates of the program will have promising career prospects in academia and in the local and international Islamic Finance industry. The MS IBF program is offered to both full-time and part-time (working) students.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Class timings

The classes will be conducted in the evening and on weekends.
Program learning competencies

1. **Advanced knowledge of Islamic finance disciplines**
   Students will gain in-depth knowledge of areas within the Islamic finance field.

2. **Critical analysis skills**
   Students will develop critical thinking skills.

3. **Ethical awareness**
   Students will develop an awareness of ethical issues in the Islamic finance field and research.

4. **Plan and execute research**
   Students will engage with and contribute to knowledge frontiers in the Islamic finance field.

Program structure

		Credit hours
Core courses	9	27
Elective courses	3*	9
Thesis / Project	1	6
Total	12 + 1 thesis	42

* MS students can opt to take a project of 3 credit hours in place of a thesis along with an additional elective course to complete the mandatory credit hours.

Semester-wise sequence of courses:

Semester-1 (Fall)	Course code	Credit hours	Pre-requisite	Course type
Business Economics	ECO509	3	-	Core
Research Methodology in Economics and Finance	ECO536	3	-	Core
Islamic Jurisprudence	FIN508	3	-	Core
Financial Management	FIN510	3	-	Core

Semester-2 (Spring)	Course code	Credit hours	Pre-requisite	Course type
Islamic Economics	ECO510	3	-	Core
Corporate Finance	FIN513	3	FIN510	Core
Islamic Finance	FIN559	3	FIN508	Core
Elective-I	-	3	-	Elective

Semester-3 (Fall)	Course code	Credit hours	Pre-requisite	Course type
Accounting and Auditing for Islamic Finance	ACC504	3	FIN508	Core
Islamic Capital Markets	FIN511	3	-	Core
Elective-II	-	3	-	Elective
Elective-III	-	3	-	Elective

Semester-4 (Spring)	Course code	Credit hours	Pre-requisite	Course type
Thesis/project	-	6/3*	ECO536	Thesis/ Project

Important note
*Thesis is of 6 credit hours and project is of 3 credit hours.
MS IBF students may take up to 2 Finance related electives offered for other degree programs at IBA.

Elective courses

Course title	Course code	Credit hours	Pre-requisite
Islamic Insurance (Takaful)	FIN512	3	-
Investment Banking and Structuring Financial Requirements	FIN550	3	-
International Finance	FIN551	3	FIN510
Islamic Law of Contracts	FIN572	3	-
Islamic Treasury Operations	FIN651	3	-
Islamic Partnership Corporate and Securities Law	-	3	-
Islamic Wealth Planning and Management	FIN579	3	-
Islamic Portfolio Management	-	3	-
Financial Services Marketing	MKT575	3	-
Shariah Issues in Islamic Finance	FIN555	3	-
Commercial Law and Legal Documentation for Islamic Financial Services	FIN654	3	-
Islamic Entrepreneurship	FIN652	3	-
Advanced Econometrics	FIN581	3	FIN514
Ethics and Corporate Governance	BUS554	3	-
Risk Management for IFIs	FIN578	3	-

Experiential learning and lifelong learning mindset

As a mandatory degree requirement, students are required to work on a thesis or project where they study a certain issue in detail, collect primary and secondary data to analyze the issue and produce recommendations. Working on these projects entails a high level of involvement of the faculty with the students. Students choose their thesis or project as per the specialized area of choice which enables them to apply the relevant research tools to analyze an issue in their selected area.

Inculcating a lifelong learning mindset, students also get a chance to work as research assistants on various faculty-led research and consultancy projects. They are also encouraged to participate in conferences and seminars with faculty mentoring. Last year, the 3rd World Islamic Finance Forum (WIFF) 2022 was conducted by the IBA Centre for Excellence in Islamic Finance (CEIF) with local and global participation.

Positive societal impact

As a positive impact on society is one of the elements of IBA-SBS's mission statement, it is thus infused throughout the MS IBF program. Students are encouraged to choose research topics that bring positive societal change. Some of the recent thesis topics include Islamic Finance Products for Agricultural Financing, Women Empowerment and Islamic Finance, and Islamic Monetary Policy, and its impacts. In the MS IBF program, understanding Ethical Awareness and Islamic Banking and Finance Principles as applied in different countries, regions, markets, jurisdictions, and their impact on businesses and governments, is an important learning topic that has ethics at its core.

Use of technology and innovative pedagogy

The MS IBF program incorporates software in student learning including Advanced Excel, Strata, E-views, and Data Stream. Apart from this, workshops, and training sessions on new software are organized for graduate students to provide them with support in their research endeavors.

Master of Science (MS) Management

The MS Management is a 36 credit hours morning program that can be completed in a minimum duration of 1.5 years. The program is designed to prepare students for quality research and analysis in the field of Management. A sound theoretical basis is provided in the general area of Management and in the specialized areas of Strategy and Organization and Operations Management. This is complemented by developing research skills through both qualitative and quantitative methods. Students are introduced to various approaches, tools and techniques in research methods which enable them to engage with management-related issues in a scientific manner. The MS Management program is offered to both full-time students and part-time (working) students.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Class timings

The classes will be conducted in the morning/daytime.

Program learning competencies

1. **Advanced knowledge of management disciplines**
   Students will gain in-depth knowledge of areas within the management field.

2. **Critical analysis skills**
   Students will develop critical thinking skills.

3. **Ethical awareness**
   Students will develop awareness of ethical issues in the management field and research.

4. **Plan and execute research**
   Students will engage with and contribute to knowledge frontiers in the management field.

Program structure

		Credit hours
Foundation courses*	5	---
Core courses	6	18
Elective courses	4**	12
Thesis / Project	1	6
Total	10 + 1 thesis	36

* Students with non-business academic backgrounds will have to take foundation-level courses which may require them to spend an extra semester in the MS program.
** MS students can opt to take the project of 3 credit hours in place of a thesis along with an additional elective course to complete the mandatory credit hours.

Foundation courses

S. No	Foundation courses	Course code	Credit hours
1	Introduction to Economics	ECO105	3
2	Principles of Accounting	ACC111	3
3	Introduction to Business Finance	FIN201	3
4	Principles of Marketing	MKT201	3
5	Introduction to Statistics	MTS102	3

Note: Foundation courses are for students with non-business academic backgrounds.

Semester-wise sequence of courses

Semester-1 (Fall)	Course code	Credit hours	Pre-requisite	Course type
Research & Practice of Operations Management	MGT515	3	-	Core
Foundations of Management & Organization	MGT511	3	-	Core
Organizational Research Method	MGT601	3	-	Core
Elective I		3	-	Elective

Semester-2 (Spring)	Course code	Credit hours	Pre-requisite	Course type
Philosophy of Management and Organization	MGT514	3	MGT511	Core
Research Seminar in Strategy	MGT602	3	MGT511	Core
Qualitative/Quantitative Research Methods	MGT523/ MGT 524	3	-	Core
Elective II		3		Elective

Semester-3 (Fall)	Course code	Credit hours	Pre-requisite	Course type
Elective 3	-	3	-	Elective
Elective 4	-	3	-	Elective
Thesis/project	-	6/3*	-	Thesis/Project

Important note
*Thesis is of 6 credit hours and the project is of 3 credit hours.
Students opting for a project must take an additional elective of 3 credit hours.

Elective courses

Course title	Course code	Credit hours	Pre-requisite
Business Analytics	BUS501	3	-
Innovation and Design	MGT605	3	-
Modeling and Simulation	MGT574	3	
Supply and Demand Management	MGT528	3	-
Quality Management	MGT575	3	MGT511
Organization Theory	MGT603	3	MGT511
Research Seminar in International Management	MGT604	3	-
Research in Organizational Behavior	MGT572	3	-
Organizational Network Analysis	---	3	-
Pedagogy for Management	MGT576	3	-
Concepts in Entrepreneurship	MGT520	3	-
Managing Social Entrepreneurship	MGT577	3	-
Alternative Management and Organization	MGT573	3	-
Advanced Entrepreneurship	MGT527	3	MGT520
Project Management	MGT555	3	-

Experiential learning and lifelong learning mindset

The core courses in the MS Management program introduce the students to various management and organization theories, research methodologies, and topics in strategy, and operations management. Students then choose their thesis or project and apply the relevant research tools to analyze an issue in their selected area.

Inculcating a lifelong learning mindset, students also get a chance to work as research assistants on various faculty-led research and consultancy projects. They are also encouraged to participate in conferences and seminars with faculty mentoring.

Positive societal impact

Ethics is infused in various courses in the form of explicit topics or part of pedagogy, to discuss the ethical implications such as in the course Philosophy of Management and Organization. Students are also encouraged to choose a topic for their MS thesis/ project which can bring positive societal change.

Use of technology and innovative pedagogy

The MS Management program incorporates software in student learning including SPSS, Stata, AMOS, NVivo. Apart from this, workshops, and training sessions on new software are organized for graduate students to support in their research endeavors.

Master of Science (MS) Marketing

The MS Marketing is a 30 credit hours morning program which can be completed in a minimum duration of 1.5 years. The degree will engage the students in a manner that takes a pragmatic and applied approach to learning, enabling them to solve business problems realistically and identify opportunities and challenges while working in teams. The cornerstone of the program is to be an application of the marketing concepts; encapsulate the existing and upcoming trends; incorporate the mandatory ultra-modern tools and techniques needed by marketing professionals to be successful in the local and global market; and empower the graduates to make decisions which will resonate with the needs of the organization and match the job key deliverables.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Class timings

The classes will be conducted in the morning/daytime.

Program Objectives and Learning Outcomes

The cornerstone of the program is:

- Be an application of the marketing concepts.
- Encapsulate the existing and upcoming trends.
- Incorporate the mandatory ultra-modern tools and techniques needed by marketing professionals to be successful in the local and global markets.
- Empower the graduates to make decisions that will resonate with the needs of the organization and match the job key deliverables.

Program structure

		Credit hours
Foundation courses*	6	**Depends on the student's requirement**
Core courses	6	18
Elective courses	1**	3
Thesis / Project	1	9
Total	**7 + 1 thesis**	30

*__NOTE:__ The course load will be minimum of 2 courses per semester *The students will have to complete 12 credits hours of either 2 electives + 6 credit hours of research project OR 1 elective + 9 credit hours of research-based thesis to complete the requirement of 30 credit hours

Students with non-business academic background will have to take foundation level courses which may require them to spend an extra semester in the MS program.
** MS students can opt to take a project of 6 credit hours in place of thesis along with an additional elective course to complete the mandatory credit hours.

Semester-wise sequence of courses

Semester-1 (Fall)	Course code	Credit hours	Pre-requisite	Course type
Marketing Strategy	MKT601	3	-	Core
Seminar in Marketing Theory	MKT562	3	-	Core
Consumer Insights	MKT602	3	-	Core
Elective I	-	3	-	Elective

Semester-2 (Spring)	Course code	Credit hours	Pre-requisite	Course type
Research Philosophies	MKT560	3	-	Core
Advanced Qualitative Research	MKT584	3	-	Core
Advanced Quantitative Research	MKT607	3	-	Core
Elective II	-	3	-	Elective

Semester-3 (Fall)	Course code	Credit hours	Pre-requisite	Course type
Thesis/ Project	-	9/6*	-	Thesis/Project

*Thesis is of 9 credit hours and project is of 6 credit hours

Foundation courses

S. No	Foundation courses	Course code	Credit hours
1	Marketing Issues in Pakistan	MKT401	3
2	Principles of Marketing	MKT201	3
3	Brand Management	MKT561	3
4	Consumer Behavior	MKT552	3

Elective courses

Course title	Course code	Credit hours	Pre-requisite
Social Media Analytics	-	3	-
Business to Business Marketing and Channel strategy	-	3	-
Sustainable Marketing	-	3	-
Neuro Marketing	MKT660	3	-
Advertising and Society	-	3	-
Retail Analytics	-	3	-

Experiential learning and lifelong learning mindset

The core courses in the MS Marketing program introduce the students to various marketing theories, consumer insights, and research methodologies. Students can then choose their thesis or research project which enables them to apply the relevant research tools to analyze an issue in their selected area, giving exposure to experiential learning and lifelong learning mindset.

- **Neuromarketing lab**
  The neuromarketing lab provides students an opportunity to learn and observe the effects of stimuli through eye tracking, skin response, and facial response sensors. The purpose of the neuromarketing lab is to advance knowledge and understanding of neuromarketing and behavioral research.

SCHOOL OF ECONOMICS AND SOCIAL SCIENCES (SESS)

School of Economics and Social Sciences (SESS)

The School of Economics and Social Sciences (SESS) is an amalgamation of two departments, two research centers and three labs. Therefore, SESS includes the Department of Economics, the Department of Social Sciences and Liberal Arts (SSLA), the Center for Business and Economic Research (CBER), the Population Research Center (PRC), the Social Inequality Lab, Economic Growth and Forecasting Lab, Psychology Research and Testing Lab, and Karachi Urban Lab (KUL).

Distinguishing SESS features are as following:

- Over 1,000 students are currently enrolled, fostering a vibrant and engaging campus community.
- 48:52 male-female student ratio, promoting a diverse and inclusive learning environment.
- 45+ PhD faculty members, contributing to academic excellence.
- Research seminars with world-leading institutions to promote intellectual growth and collaboration.
- Exchange program opportunities for students allowing them to study abroad.
- Research grants for students to support innovative research initiatives.
- Variety of social events and vibrant campus life.
- 1,200+ alumni community around the globe, spanning the US, Germany, Turkey, the UK, Saudi Arabia, Canada, UAE, Australia, Europe, Africa, Hong Kong, and Japan.
- Over 250 alumni have pursued further education after graduation, many being the recipients of the Fulbright, Erasmus, DAAD, Chevening, and other prestigious scholarships.

Dean's Message

The establishment of the School of Economics and Social Sciences (SESS) in 2021 was an exciting time for the faculty, students, and researchers at IBA. During the journey of two years, I am proud to share that we have progressed in establishing the governance system of the school, special initiatives to enhance the research capacity, and teaching excellence.

All programs in Economics and Liberal Arts are led by highly qualified and seasoned faculty. Our curriculum and the school's scholarly environment encourage students to develop themselves as effective practitioners and scholars. The plethora of courses offered at the SESS allows students to develop comprehensive skills in reading, writing, quantitative thinking, and research, thereby preparing students for various career paths and life-long learning.

The research conducted by SESS is on diverse topics. The Economics department is involved in impactful research on corporate governance, bonds and stock markets, economic growth, institutions, political economy, and sustainable development. Similarly, the Social Sciences and Liberal Arts department is ingrained in cutting-edge research on climate change, gender, urbanization, tourism, human behavior, and social psychology. One of our top goals is to include our students in research endeavors to provide them with pathways to successful careers.

Dr. Asma Hyder

Finally, I welcome you all to join us in our endeavors to address some of society's most pressing challenges through research and academic excellence.

Overview of departments

Department of Economics
The Department enables its students to learn theory, empirical investigation and policy analysis. The classroom and on-campus experience help the students to be trained as modern-day Economists, Researchers, Policy Analysts, and Academics in national and international institutions. Visit the website: https://economics.iba.edu.pk/.

Department of Social Sciences and Liberal Arts
The Department adopts a multidisciplinary approach by offering majors in Psychology, Political Science, Media and Culture, and History. The students learn through theoretical and experiential knowledge. Visit website: https://ssla.iba.edu.pk/.

Center for Business and Economic Research (CBER)
CBER is the research wing of the School of Economics and Social Sciences (SESS), IBA Karachi. It serves as a platform for researchers to work with the private, public, and non-profit sectors across different disciplines of social sciences and public policy. Its placement within the schools allows it to collaborate with faculty in diverse areas of specialization.

o Carry out rigorous impact evaluation research studies, consultancy assignments, and sponsored research work for national and international agencies.

o Publish a flagship yearly state of the economy report and annual international conference of the School of Economics and Social Sciences (SESS), IBA Karachi; Conference on Tourism Sustainability in the Global South in May 2023 in Karachi.
o Conduct training workshops for students and faculty.
o Distinguished Lecture Series, Brown Bag Seminar Series, fund student research projects.
Visit the website: https://cber.iba.edu.pk.

Population Research Center (PRC)
The Population Research Center (PRC), established at the IBA in collaboration with the Population Council Pakistan, aspires to offer a world-class platform for conducting targeted and in-depth research on population-related issues. The PRC's primary objective is to provide high-quality research on population matters and to undertake public outreach programs aimed at raising awareness and improving policymaking for a stable, healthy society.
Highlights:

· Population Research Conference 2023.
· Young Researchers' Workshop Series Workshop on PSLM Data Analysis and DHS Data Analysis
· Population Bulletins highlighting various aspects of Demography.
Visit the website: https://prc.iba.edu.pk.

Bachelor of Science (BS) Economics

Bachelor of Science (BS) Economics program is a 4-year degree program designed to give students a solid foundation in Economics. The program provides a well-coordinated curriculum and prepares the students for entry level positions in private and public sector corporations, development organizations, banks, education, and research organizations. A wide range of courses offered in this program give students ample opportunities to broaden their knowledge base. The Economics research project in the final year enables students to apply the quantitative tools learned during the program to the economic and financial problems in the public and private sectors.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Curriculum structure	
Duration	4 years
Semesters	8
Courses	40
Final Year Project in Economics	1
Total credit hours (40 courses and 1 project)	126
Personal Effectiveness (non-credit short course)	1
Responsible Citizen Initiative (Social Internship)	1
Corporate Internship	1

Required courses

Course category	Courses	Credit hours
University Core Courses	4	12
Economics Core Courses	16	50
Economics Elective Courses	4	12
Supporting Core Courses (3 Mathematics and 2 Statistics)	5	15
Non-specialization Courses (3 core + 8 elective)	11	33
Final Year Project in Economics	1	4
Total	41	126

Semester-wise sequence of courses

Freshman	Semester 1	Course code	Credit hours	Pre-requisite	Course type
1	Principles of Microeconomics	ECO103	3	-	Economics Core
2	Introduction to Computer Applications	MIS103	3	-	Non Specialization Core
3	Introduction to Statistics	MTS102	3	-	Supporting Core
4	Critical Reading and Writing	SSC101	3	-	University Core
5	Pakistan History	SSC151	3	-	University Core
6	College Algebra*	MTS105	3	-	-

	Semester 2	Course code	Credit hours	Pre-requisite	Course type
1	Principles of Macroeconomics	ECO104	3	-	Economics Core
2	Speech Communication	HUM201	3	-	University Core
3	Calculus I	MTS101	3	-	Supporting Core
4	Islamic Scholarly Tradition/ Philosophy, Logic and Ethics (PLE)**	SSC301/ HUM357	3	-	University Core
5	Non-specialization elective I	-	3	-	Non Specialization Elective

Sophomore	Semester 3	Course code	Credit hours	Pre-requisite	Course type
1	Intermediate Microeconomics	ECO201	3	ECO103	Economics Core
2	Intermediate Macroeconomics	ECO202	3	ECO104	Economics Core
3	Linear Algebra	MTS203	3	MTS101	Supporting Core
4	Calculus II	MTS232	3	MTS101	Supporting Core
5	Non-specialization elective II	-	3	-	Non Specialization Elective

	Semester 4	Course code	Credit hours	Pre-requisite	Course type
1	Microeconomic Theory	ECO312	3	ECO201	Economics Core
2	Macroeconomic Theory	ECO313	3	ECO202	Economics Core
3	Mathematical Economics	ECO303	3	MTS101	Economics Core
4	Essential Software	MTS111	3	-	Non Specialization Core
5	Statistical Inferences	MTS202	3	MTS102	Supporting Core
Junior	Semester 5	Course code	Credit hours	Pre-requisite	Course type
1	Applied Econometrics I	ECO343	4	MTS202	Economics Core
2	Data Analytics for Economists	ECO304	3	MTS111, MTS202	Economics Core
3	Introduction to Academic Writing	SSC236	3	-	Non Specialization Core
4	Non-specialization elective III	-	3	-	Non Specialization Elective
5	Non-specialization elective IV	-	3	-	Non Specialization Elective
	Semester 6	Course code	Credit hours	Pre-requisite	Course type
1	Applied Econometrics II	ECO344	4	ECO343	Economics Core
2	Research Methods for Economics	ECO411	3	ECO343	Economics Core
3	Major Issues in Pakistan Economy	ECO403	3	ECO203	Economics Core
4	International Trade or International Economics	ECO466/ ECO305	3	ECO103, ECO104	Economics Core
5	Non-specialization elective V	-	3	-	Non Specialization Elective
6	Personal Effectiveness ***	SSC240	3	-	Non Credit

Senior	Semester 7	Course code	Credit hours	Pre-requisite	Course type
1	Development Economics	ECO301	3	ECO104	Economics Core
2	History of Economic Thought	ECO467	3	ECO104	Economics Core
3	Economics elective I	ECO	3	-	Economics Elective
4	Economics elective II	ECO	3	-	Economics Elective
5	Non-specialization elective VI	-	3	-	Non Specialization Elective
6	Final Year Project in Economics	ECO441	4	-	Project

	Semester 8	Course code	Credit hours	Pre-requisite	Course type
1	Contemporary Issues in Global Economics	ECO404	3	EOC104	Economics Core
2	Economics elective III	ECO	3	-	Economics Elective
3	Economics elective IV	ECO	3	-	Economics Elective
4	Non-specialization elective VII	-	3	-	Non Specialization Elective
5	Non-specialization elective VIII	-	3	-	Non Specialization Elective

Note:
· Critical Reading and Writing is equivalent to English, Grammar and Composition.
· Islamic Scholarly Traditions (IST) is equivalent to Socio Economic Philosophy of Islam.
* College Algebra is a non-credit course and is offered only for those students who do not have a Mathematics background. Students will not be required to pay the fees for this course.
**All Muslim students are required to register for IST Non-Muslim students may take either IST or PLE.
***Personal Effectiveness will be offered in either the 5th or 6th semester. This is a non-credit course and is a part of the graduation requirement. It consists of five 2-hour workshops distributed over the whole semester.
Internship
· Students should complete their Responsible Citizen Initiative (Social Internship) after completing their 2nd semester at IBA and must fulfill this graduation requirement before the end of their 6th semester.
· Students should engage in their corporate internship after completing their 6th semester of the coursework, preferably during the summer break.

Economics elective courses
(2 courses to be selected)

Course title	Course code	Credit hours	Pre-requisite
Public Economics	ECO401	3	ECO201
Machine Learning for Economists	ECO405	3	MTS111
Public Finance	ECO451	3	ECO104
Monetary Economics	ECO452	3	ECO202
Time Series Econometrics	ECO457	3	ECO343
Climate Change Economics	ECO458	3	ECO103
International Finance	ECO459	3	ECO104
Environmental Economics	ECO450	3	ECO201
Natural Recourse and Environmental Economics	ECO461	3	ECO201
Game Theory	ECO464	3	ECO201
Health Economics	ECO471	3	ECO201
Labour Economics	ECO472	3	ECO201
Energy Economics	ECO463	3	-
Energy Systems & Policy	ECO474	3	-
Behavioral Economics	ECO470	3	ECO103
Modern Quantitative Methods	ECO473	3	ECO344
Post Development and Alternative to Development	ECO478	3	-
Spatial Economics	ECO477	3	-
Economics of Education	ECO479	3	-

Non-specialization elective courses

Students can select 8 courses from any discipline other than Economics, including Accounting, Finance, Marketing, Management, Social Sciences and Liberal Arts, Mathematics, Statistics, and Computer Science.

For further details, visit: www.economics.iba.edu.pk.

Bachelor of Science (BS) Economics and Mathematics

BS Economics and Mathematics is a 4-year degree program that contains fundamental components of two fields of study: Economics and Mathematics. The program prepares the students for entry-level positions in private and public sectors, development organizations, banks, insurance companies, investment companies, education sector, and research organizations. The wide range of courses offered in this program gives students several opportunities to broaden their knowledge and expand their horizons. The research project in the final year enables students to apply the quantitative tools learned in the program to economic and financial problems in the public and private sectors.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Curriculum structure	
Duration	**4 years**
Semesters	8
Courses	40
Final Year Project in Economics or Mathematics	1
Total credit hours (40 courses and 1 project)	128
Personal Effectiveness (non-credit short course)	1
Responsible Citizen Initiative (Social Internship)	1
Corporate Internship	1

Required courses

Course category	Courses	Credit hours
University Core Courses	4	12
Economics Core Courses	11	35
Economics Electives	2	6
Mathematics Core Courses	11	35
Mathematics Electives	2	6
Non-specialization Courses (6 core and 4 electives)	10	30
Final Year Project in Economics or Mathematics	1	4
Total	**41**	**128**

Semester-wise sequence of courses:

Freshman	Semester 1	Course code	Credit hours	Pre-requisite	Course type
1	**Principles of Microeconomics**	**ECO103**	3	-	Economics Core
2	**Calculus I**	**MTS101**	3	-	Mathematics Core
3	**Introduction to Statistics**	**MTS102**	3	-	Non Specialization Core
4	**Critical Reading and Writing**	**SSC101**	3	-	University Core
5	**Pakistan History**	**SSC151**	3	-	University Core

	Semester 2	Course code	Credit hours	Pre-requisite	Course type
1	**Principles of Macroeconomics**	**ECO104**	3	-	Economics Core
2	**Calculus II**	**MTS232**	3	MTS101	Mathematics Core
3	**Statistical Inference**	**MTS202**	3	MTS102	Non Specialization Core
4	**Speech Communication**	**HUM201**	3	-	University Core
5	**Islamic Scholarly Tradition/ Philosophy, Logic and Ethics (PLE)***	**SSC301/ HUM357**	3	-	University Core

Sophomore	Semester 3	Course code	Credit hours	Pre-requisite	Course type
1	Intermediate Microeconomics	ECO201	3	ECO103	Economics Core
2	Intermediate Macroeconomics	ECO202	3	ECO104	Economics Core
3	Discrete Mathematics	MTS211	3	-	Mathematics Core
4	Multivariable Calculus	MTS242	4	MTS232	Mathematics Core
5	Essential Software	MTS111	3	-	Non Specialization Core
	Semester 4	**Course code**	**Credit hours**	**Pre-requisite**	**Course type**
1	Microeconomic Theory	ECO312	3	ECO201	Economics Core
2	Macroeconomic Theory	ECO313	3	ECO202	Economics Core
3	Linear Algebra	MTS203	3	MTS101	Mathematics Core
4	Probability Theory	MTS231	3	MTS102	Non Specialization Core
5	Foundations to Data Science	CSE306	3	-	Non Specialization Core
Junior	**Semester 5**	**Course code**	**Credit hours**	**Pre-requisite**	**Course type**
1	Applied Econometrics I	ECO343	4	MTS202	Economics Core
2	Introduction to Differential Equations	MTS241	3	MTS101	Mathematics Core
3	Real Analysis I	MTS341	4	MTS232	Mathematics Core
4	Introduction to Academic Writing	SSC236	3	-	Non Specialization Core
5	Non-specialization elective I	-	3	-	Non Specialization Elective

Semester 6	Course code	Credit hours	Pre-requisite	Course type
1 Applied Econometrics II	ECO344	4	ECO343	Economics Core
2 Research Methods for Economics	ECO411	3	ECO343	Economics Core
3 Stochastic Processes	MTS304	3	MTS231	Mathematics Core
4 Optimization Techniques	MTS330	4	MTS101/ MTS203	Mathematics Core
5 Non-specialization elective II	-	3	-	Non Specialization Elective
6 Personal Effectiveness **	SSC240	-	-	Core

Semester 7	Course code	Credit hours	Pre-requisite	Course type
1 Development Economics	ECO301	3	ECO104	Economics Core
2 Partial Differential Equations	MTS436	3	MTS241	Mathematics Core
3 Economics elective I	ECO	3	-	Economics Elective
4 Mathematics elective I	MTS	3	-	Mathematics Elective
5 Non-specialization elective III	-	3	-	Non Specialization Elective
6 Final Year Economics Project or Final Year Mathematics Project***	ECO441/ MTS471	4	-	Project

	Semester 8	Course code	Credit hours	Pre-requisite	Course type
1	International Trade or International Economics	ECO466/ ECO305	3	ECO103, ECO104	Economics Core
2	Probability and Statistical Models	MTS430	3	MTS231	Mathematics Core
3	Economics elective II	ECO	3	-	Economics Elective
4	Mathematics elective II	MTS	3	-	Mathematics Elective
5	Non-specialization elective IV	-	3	-	Non Specialization Elective

Note:
- Critical Reading and Writing is equivalent to English, Grammar and Composition.
- Islamic Scholarly Traditions (IST) is equivalent to Socio Economic Philosophy of Islam.

*All Muslim students are required to register for IST Non-Muslim students may take either IST or PLE.

**Personal Effectiveness will be offered in either the 5th or 6th semester. This is a non-credit course and is a part of the graduation requirement. It consists of five 2-hour workshops distributed over the whole semester.

*** Students can take either Final Year Project in Economics (ECO441) or Final Year Project in Mathematics (MTS471).

Internship
- Students should complete their Responsible Citizen Initiative (Social Internship) after completing their 2nd semester at IBA and must fulfill this graduation requirement before the end of their 6th semester.
- Students should engage in their corporate internship after completing their 6th semester of the coursework, preferably during the summer break.

Economics elective courses
(2 courses to be selected)

Course title	Course code	Credit hours	Pre-requisite
Major Issues in Pakistan's Economy	ECO403	3	ECO203
History of Economic Thought	ECO467	3	ECO104
Contemporary Issues in Global Economics	ECO404	3	EOC104
Public Economics	ECO401	3	ECO201
Machine Learning for Economists	ECO405	3	MTS111
Public Finance	ECO451	3	ECO104
Monetary Economics	ECO452	3	ECO202
Time Series Econometrics	ECO457	3	ECO343
Climate Change Economics	ECO458	3	ECO103
International Finance	ECO459	3	ECO104
Environmental Economics	ECO450	3	ECO201
Natural Recourse and Environmental economics	ECO461	3	ECO201
Game Theory	ECO464	3	ECO201
Health Economics	ECO471	3	ECO201
Labour Economics	ECO472	3	ECO201

Course title	Course code	Credit hours	Pre-requisite
Energy Economics	ECO463	3	-
Energy Systems & Policy	ECO474	3	-
Behavioral Economics	ECO470	3	ECO103
Modern Quantitative Methods	ECO473	3	ECO344
Post Development and Alternative to Development	ECO478	3	-
Economics of Education	ECO479	3	-
Spatial Economics	ECO477	3	-

Mathematics elective courses
(2 courses to be selected)

Course title	Course code	Credit hours	Pre-requisite
Complex Analysis	MTS302	3	MTS341
Abstract Algebra I	MTS305	3	MTS203
Numerical Analysis	MTS306	3	MTS232
Functional Analysis I	MTS411	3	MTS341
Functional Analysis II	MTS412	3	MTS411
Abstract Algebra II	MTS413	3	MTS305
Numerical Solutions of PDE	MTS431	3	MTS414
Integral Equations	MTS432	3	MTS303
Advanced Numerical Analysis I	MTS433	3	MTS414
Advanced Numerical Analysis II	MTS434	3	MTS433
Differential Geometry	MTS435	3	MTS204, MTS203
Fluid Dynamics I	MTS437	3	-
Fluid Dynamics II	MTS438	3	-
Financial Mathematics with a computational approach	MTS441	3	-
Computational Finance	MTS442	3	-
Topology I	MTS451	3	MTS341
Scientific Computing for Linear PDE's	MTS414	3	MTS413
Modern Algebra I (Galois Theory and Application)	MTS443	3	MTS413
Modern Algebra II (Commutative Rings and Fields)	MTS444	3	MTS413
Measure Theory I	MTS445	3	-
Measure Theory II	MTS446	3	-
Operations Research I	MTS447	3	-
Operations Research II	MTS448	3	-
Introduction to Differential Topology	MTS452	3	MTS451
Financial Engineering	MTS453	3	MTS441

Non-specialization electives courses

Four courses are to be chosen from courses other than Economics and Mathematics. These non-specialization elective courses may be from different subject areas including Accounting, Finance, Marketing, Management, Social Sciences and Liberal Arts, Computer Sciences, or any other field.

For further details, visit: www.economics.iba.edu.pk.

Bachelor of Science (BS) Social Sciences and Liberal Arts

The Bachelor of Science (BS) in Social Sciences and Liberal Arts is a 4-year interdisciplinary undergraduate program. It draws from and introduces students to a range of academic disciplines in social sciences and humanities. The combination of core and elective courses in the Social Sciences and Liberal Arts degree allows students to develop comprehensive skills in reading and writing, quantitative thinking, problem solving, critical inquiry, and research. The program offers majors in Psychology, Political Science, Media and Culture, and History. Students can also opt for a minor in World Literature or Urban Studies. Moreover, the culminating experience can be completed by students in their final year of the program if they have a CGPA of 3.0 or higher. The experience provides students an opportunity to carry out original research projects of their own. Students choose a foreign language to study over a period of two semesters and complete two different summer internships, one focusing on research skills and the other on social service.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Curriculum structure	
Duration	4 years
Semesters	8
Courses	40
Culminating Experience - I, Culminating Experience - II (Optional for students with CGPA 3.0 or above) or Humanities courses	3
Total credit hours	124

Required courses

Sections	Course category	Courses	Credit hours
A	University Core Courses	4	12
B	Non-specialization Courses	7	23
C	Supporting Courses	9	28
D	Social Sciences Core	7	21
E	Major Core + Electives	10	31
F	Culminating Experience - I, Culminating Experience - II or Humanities courses	3	9
G	Personal Effectiveness		Pass/Fail
Total		40	124

Non-specialization courses

Course title	Course code	Credit hours	Pre-requisite
Core (5)			
Introduction to Statistics	MTS102	3	-
Calculus 1	MTS104	3	-
Rhetorical Modes of Writing	SSC106	3	SSC101
Foreign Language I	SSC201/205/209/330	4	-
Foreign Language II	SSC202/206/210/331	4	SSC201/205/209/330
Electives (2)**			
Non-specialization elective I	-	-	-
Non-specialization elective II	-	-	-

**Non-specialization electives can be from the Humanities list or courses offered by other departments/for other programs. Note: All students must take both modules (I and II) of the same language

Supporting courses

Course title	Course code	Credit hours	Pre-requisite
Core (5)			
Statistical Inference	MTS202	3	MTS102
South Asian History	SSC221	3	-
History of Ideas I	SSC239	3	-
History of Ideas II	SSC238	3	SSC239
Computational Research Methods	SSC302	4	MTS202
Natural Science electives (1 from the following list)*			
Are We Becoming Post-human? Technology, Society, Ethics	HUM377	3	-
An Introduction to the Philosophy of Mathematics	HUM382	3	-
Environmental Anthropology	HUM455	3	-
History of Science	NSC351	3	-
Introduction to Environmental Sciences	NSC354	3	-
Sustainable Cities and Communities	NSC358	3	-
An Introduction to the Philosophy of Physics	NSC359	3	-
Climate Change and Us	NSC360	3	-
Science and Medicine in Islamic Societies 700 – 1700	NSC361	3	-
Art and Science	NSC364	3	-
Astronomy	AST 251	3	
Social and Political History of Medicine	NSC 363	3	-
Visual Studies electives (1 from the following list)*			
Art of the Islamic World	HUM366	3	-
Intellectual and Cultural History of Muslim Spain	HUM368	3	SSC232
1947/1971: Interrogating Partitions, Narrative Selves	HUM371	3	-
Islamic Book Arts 1200-1800	HUM450	3	-
Screening the Body: Gender, Race and Nation in Visual Culture	HUM451	3	SSC216
Lights, Camera, History: Representations of Medieval South Asia in Bollywood	MCS350	3	SSC216
Race, Class, and Gender in Film and Television	MCS353	3	SSC216
Crime and Legality in Visual Cultures	MCS357	3	SSC216
Watching Films	MCS359	3	SSC216
Digital Activism and Democracy	MCS366	3	SSC216/217, POL/MCS301
Ethnicities, Diaspora and the Media	MCS373	3	SSC216
Literary and Visual Cultures in a New Media Age	MCS375	3	SSC216
Parallel Cinema, Gender and Realism	MCS376	3	SSC216
Fundamentals of Design and Communication	MCS377	3	SSC216
Modern and Contemporary Women Visual Artists of Pakistan	HUM 391	3	-

Course title	Course code	Credit hours	Pre-requisite
Humanities electives (2 from the following list)*			
From Empires to Nation-States: A History of the Pre-20th Century World	HST301	3	SSC232
The Ottoman, Safavid, and Mughal Empires	HST354	3	-
An Introduction to Urdu Poetry and Poetics	HUM340	3	-
Freaks, Geeks and Monsters: Exploring the Role of the Other in Fiction	HUM341	3	SSC106
Monsters, Witches, and Mad Women in World Literature	HUM 393	3	SSC106
Anglo-Indian Narrative and the Postcolonial Subject	HUM355	3	SSC106
Philosophy, Logic and Ethics	HUM357	3	-
Creative Writing	HUM360	3	-
Borders and Boundaries: South Asian and Middle Eastern Feminist Fiction	HUM367	3	SSC106
Intellectual and Cultural History of Muslim Spain	HUM368	3	SSC232
The Making of the Mughal Empire: An Intellectual and Cultural History	HUM369	3	SSC221
Pakistani Poetry in English	HUM 389	3	-
Djinn in World Literature	HUM 390	3	-
Philosophy of Social Sciences	HUM 392	3	-
1947/1971: Interrogating Partitions, Narrative Selves	HUM371	3	-
History of Anthropological Thought	HUM372	3	SSC233
A History of the Cold War	HUM376	3	-
Are We Becoming Post-Human? Technology, Society, Ethics	HUM377	3	-
A History of the Fable in its Greek, Arabic and Indic Traditions	HUM378	3	-
English over the Ages: History and Reception	HUM 464	3	-
Advanced Readings in Pakistan's History	HUM380	3	SSC151, SSC221
Sufis, Steppe Nomads and Silk Roads: A History of Islamic Central Asia	HUM381	3	SSC232, SSC221
An Introduction to the Philosophy of Mathematics	HUM382	3	-
Narrative and Identity in Pakistani Literature	HUM383	3	SSC106
The Persian Literary Culture of Lahore in the Ghaznavid Period (977-1186)	HUM384	3	SSC232, SSC221
A Textual Introduction to Rumi	HUM385	3	-
Unearthly Things and Sad Destinies: An Introduction to Literary Theory	HUM386	3	-
Sufism: A Social, Political and Economic History	HUM387	3	-
An Introduction to the Islamic Scholarly Tradition	HUM388	3	-

Course title	Course code	Credit hours	Pre-requisite
Urdu Literature for Bilingual Students	HUM397	3	-
Pakistani Contemporary Literature in English	HUM463	3	-
Representation and Resistance in Pakistani English Fiction	HUM386	3	-
Ethnographic Theory and Practice	HUM452	3	SSC231/SSC233
Spirituality in Islam: Classical Texts and Themes	HUM453	3	-
Prophets in the Abrahamic Traditions	HUM454	3	-
Environmental Anthropology	HUM454	3	-
Evolution of Music in South Asia	HUM456	3	-
Ethnomusicology: Music and Culture	HUM457	3	SSC233
Female Friendship in World Literature	HUM458	3	-
Introduction to Feminist Theory	HUM459	3	SSC231
Food, Self and Society	HUM460	3	SSC231/SSC233
An Introduction to the Philosophy of Mind	HUM485	3	-
Gutenberg to Google: A Social History of Media	MCS302	3	SSC216
The City	HST358	3	-
Media, Law and Ethics	MCS352	3	SSC216
Analyzing the News	MCS355	3	SSC216
Journalism and Public Discourse	MCS371	3	SSC216
History of Political Thought	POL302	3	SSC217
Studying the City in the Global South: Planning, Politics and Development	POL360	3	SSC217
Pakistan's Foreign Policy	POL362	3	SSC217
Political Philosophy	POL364	3	SSC217
Culture and Power in Human Societies	POL366	3	SSC217, SSC233
Modern Political Ideologies: Liberalism, Socialism, Anarchism	POL371	3	SSC217
History, Theory and Practice of Diplomacy	POL373	3	SSC217
Perspectives in Pakistan's Political Economy	POL376	3	SSC217
Women's Issues and Activism in Pakistan	POL379	3	-
Transnational Islamic Politics in the Post-9/11 World	POL451	3	-
History of Economic Thought	SSC107	3	-
Major Themes in World History	SSC121	3	-
Advanced English Composition	SSC213	3	SSC106
Introduction to Linguistics	SSC235	3	-
Method and theory in the study of religion	HUM394	3	-
The Central Thesis	HUM395	3	-
Calligraphy	HUM462	3	-

Course title	Course code	Credit hours	Pre-requisite
What is Law?	HUM466	3	-
Genealogies of Education	HUM345	3	-
Body as Object, Subject and Home	HUM344	3	-
Feminist Legal Theory and Practice	HUM396	3	-
Theater Project the Living Newspaper	HUM361	3	-
Studying the City in the Global South: Planning, Politics, and Development	HUM465	3	-
Cities, Gender, and Climate Change	DEV538	3	-
Reading the City-Intersections of climate, architecture, & urban morphology in cities of the Global	HUM465	3	-
Urdu Literature for Bilingual Students	HUM397	3	-

Major core + electives

Course title	Course code	Credit hours	Pre-requisite
Political Science			
Psychology core courses			
Research Methods in Psychology	MTS20	4	SSC218
Human Development	SSC221	3	SSC218
History and Systems of Psychology	SSC238	3	SSC218
Introduction to Social Psychology	SSC239	3	SSC218
Psychology electives (6 from the following list)*			
Human Resource Management /Management and Human Resource	HRM401/HRM464	3	-
Organizational Behaviour /Management and Organizational Behaviour	MGT221/MGT231	3	-
Memory and Attention	PSY275	3	SSC218, PSY301
Attachment Over the Lifespan	PSY340	3	
Consumer Psychology	PSY350	3	-
Industrial and Organizational Psychology	PSY352	3	SSC218, PSY301
Media Psychology	PSY353	3	SSC216/218, MCS/PSY301
Cognitive Psychology	PSY359	3	SSC218, PSY301
Abnormal Psychology	PSY362	3	SSC218, PSY301
Gender Psychology	PSY364	3	SSC218, PSY301
Counseling Psychology	PSY365	3	SSC218, PSY301

Course title	Course code	Credit hours	Pre-requisite
Cyber Psychology	PSY366	3	SSC218, PSY301
Personality Psychology	PSY367	3	SSC218, PSY301
Educational Psychology	PSY368	3	SSC218, PSY301
Positive Psychology	PSY369	3	SSC218, PSY301
Clinical Psychology	PSY370	3	SSC218, PSY301
Physiological Psychology	PSY371	3	SSC218, PSY301
Cross-Cultural Psychology	PSY372	3	SSC218, PSY301
Environmental Psychology	PSY373	3	SSC218, PSY301
Introduction to Testing	PSY379	3	SSC218, PSY301
Climate Change: Psychology of Denial, Impacts, and Adaptation	PSY374	3	SSC218, PSY301
Forensic and Criminal Psychology	PSY376	3	SSC218, PSY301
Political Science			
Political Science core courses			
Research Methods in Political Science	POL301	3	SSC217
History of Political Thought	POL302	3	SSC217
Comparative Politics	POL303	3	SSC217
Political Systems and Political Regimes	POL402	3	SSC217
Psychology electives (6 from the following list)*			
Public Policy Analysis: Theory and Practice	ECO560	3	-
Urban Management in the Global South	POL403	3	-
The Questions of Citizenship and the Postcolonial Subject	POL404	3	-
A History of the Cold War	HUM376	3	-
Advanced Readings in Pakistan's History	HUM380	3	SSC151, SSC221
Digital Activism and Democracy	POL406	3	SSC216/217, POL/MCS301
Giving and Misgivings: Explorations in Charity, Humanitarianism, and Development	POL406	3	SSC216/217, POL/MCS301
Political Violence, Civil War, and Terrorism	POL350		SSC217, POL301
Political Psychology	POL351	3	SSC217/218, POL/PSY301
Foreign Policy in China	POL352	3	SSC217, POL301
An Introduction to Legal Theory	POL353	3	-
War: Conceptual Underpinnings	POL354	3	SSC217, POL301
Human Rights and Law	POL355	3	SSC217, POL301
The Modern Middle East	POL359	3	SSC217, POL301

Course title	Course code	Credit hours	Pre-requisite
Studying the City in the Global South: Planning, Politics and Development	POL360	3	SSC217
Pakistan's Foreign Policy	POL362	3	SSC217
Political Philosophy	POL364	3	SSC217
Introduction to Foreign Policy Analysis	POL365	3	SSC217
Culture and Power in Human Societies	POL366	3	SSC217, POL301
Global Urbanisms	POL367	3	SSC217, POL301
Politics in Colonial and Post-Colonial Punjab	POL370	3	SSC217, POL301
Modern Political Ideologies: Liberalism, Socialism, Anarchism	POL371	3	
Negotiation and Conflict Resolution	POL372	3	SSC217
History, Theory and Practice of Diplomacy	POL373	3	SSC217, POL301
Community Planning and Development	POL374	3	SSC217
Feminist Legal Theory and Practice	HUM396	3	SSC217, POL301
History of Decolonization	POL375	3	-
Perspectives in Pakistan's Political Economy	POL376	3	SSC217, POL301
Politics of Resistance in the Middle East	POL377	3	SSC217
China's Contemporary Security Environment	POL378	3	SSC217, POL301
Women's Issues and Activism in Pakistan	POL379	3	SSC217, POL301
Political Sociology of Modern Sindh	POL380	3	-
Winners, Losers, and Bystanders: Political Economy Perspectives on Global Changes	POL450	3	SSC217, POL301
Transnational Islamic Politics in the Post-9/11 World	POL451	3	-
Media and Culture			
Media and Culture core courses			
Critical Theories and Methods	MCS340	4	SSC216
Media Aesthetics and History: Film, TV and Digital Media	MCS310	3	SSC216
Critical Media Practice I: Digital Image, Sound, and Story	MCS311	3	SSC216
Critical Media Practice II: Multimodal Publication and Design	MCS312	3	SSC216
Media and Culture electives (6 from the following list)*			
Media, Law, and Ethics	MCS352	3	SSC216
Race, Class, and Gender in Film and Television	MCS353	3	SSC216
Postcolonial Science Fiction and Fantasy	MCS343	3	SSC216
Analyzing the News	MCS355	3	SSC216
Crime and Legality in Visual Cultures	MCS357	3	
Journalism Essentials for Business: Visibility in the Age of New Media	MCS358	3	-

Course title	Course code	Credit hours	Pre-requisite
Watching Films	MCS359	3	SSC216
History of Film	MCS360	3	SSC216
Foundations of Screenwriting	MCS364	3	-
Digital Activism and Democracy	MCS366	3	SSC216/217, POL/MCS301
Media Anthropology	MCS368	3	SSC216, MCS301
New Media and Citizen Journalism	MCS383	3	SSC216
Journalism and Public Discourse	MCS371	3	SSC216
Political Communicationa	MCS372	3	SSC216/217, POL/MCS301
Ethnicities, Diaspora and the Media	MCS373	3	SSC216
Culture and Power in Human Societies	POL366	3	SSC216/217
Literary and Visual Cultures in a New Media Age	MCS375	3	SSC216
Parallel Cinema, Gender and Realism	MCS376	3	SSC216
Fundamentals of Design and Communication	MCS377	3	SSC216
Karachi in the Media	MCS378	3	SSC216
Fan Studies: Theory and Practice	MCS379	3	SSC216
Feminism Technology and Media	MCS380	3	-
Reimagining Shakespeare: Adaptations in Film and Literature	MCS342	3	-
Media Psychology	PSY353	3	SSC216/218, MCS/PSY301
Cultural Globalization and Media	MCS450	3	
Print, Identity and the Public Sphere: Urdu in early colonial north India	HST357	3	
Monsters, witches and mad women in world literature	HUM393	3	
Communication for Social Change	MCS341	3	
History			
History core courses			
From Empires to Nation-States: A History of the Pre-20th Century World	HST301	3	SSC232
Topics in Historiography	HST302	3	SSC232
Twentieth Century Global History	HST303	3	SSC232
Research Methods in History: Primary Source Genres	HST304	4	SSC232

Course title	Course code	Credit hours	Pre-requisite
History electives (6 from the following list)*			
A History of the Indian Ocean World	HST352	3	SSC232
Historiography of Early Islam	HST353	3	SSC232
Ecological History	HST354	3	SSC232
The Ottoman, Safavid, and Mughal Empires	HUM368	3	-
Intellectual and Cultural History of Muslim Spain	HUM369	3	SSC232
The Making of the Mughal Empire: An Intellectual and Cultural History	HUM371	3	SSC221
1947/1971: Interrogating Partitions, Narrative Selves	HUM376/ HST356	3	-
A History of the Cold War	HUM378	3	-
A History of the Fable in its Greek, Arabic and Indic Traditions	HUM379	3	-
Don Quixote and its Andalusian Milieu	HUM380	3	-
Advanced Readings in Pakistan's History	HUM381	3	SSC151, SS221
Sufis, Steppe Nomads and Silk Roads: A History of Islamic Central Asia	HUM384	3	SSC232, SSC221
The Persian Literary Culture of Lahore in the Ghaznavid Period (977-1186)	HUM387	3	SSC232, SSC221
Sufism: A Social, Political and Economic History	HST357	3	
Print, Identity and the Public Sphere: Urdu in early colonial north India	HST351	3	
Lights, Camera, History: Representations of Medieval South Asia in Bollywood	MCS350	3	SSC216
Science and Medicine in Islamic Societies 700 – 1700	NSC361	3	SSC217
History of Political Thought	POL302	3	SSC217, POL301
Politics in Colonial and Post-Colonial Punjab	POL370	3	SSC217, POL301
History of Decolonization	POL375	3	-
Major Themes in World History	SSC121	3	SSC232
Language, History and Politics	HST359	3	
Women and Gender in South Asian History	HST360	3	
English over the Ages: History and Reception	HUM464	3	
Social and Political History of Medicine	NSC363	3	
Indian Oceans History	HST361	3	
The Questions of Citizenship and the Postcolonial Subject	POL404	3	
Labour, Capital and Colonialism: The making of modern South Asia	HST355	3	SSC216

***Not all electives listed will be offered in any given academic year.

Minor core + electives

Students can opt for a minor in World Literature or Urban Studies. Students will take one required core and then choose three electives from the humanities list that can also be counted as minor electives.

Course title	Course code	Credit hours	Pre-requisite
Urban Studies core course			
Introduction to World Literature	SSC 214	3	SSC218
World Literature electives (3 from the following list)*			
Female Friendship in World Literature	HUM458	3	SSC214
Monsters, witches and mad women in world literature	HUM393	3	SSC214
Urdu Literature for Bilingual Students	HUM397	3	SSC214
Freaks, Geeks and Monsters: Exploring the Role of the Other in Fiction	HUM341		SSC214
Representation and Resistance in Pakistani English Fiction	HUM386	3	SSC214
Pakistani Contemporary Literature in English	HUM463	3	SSC214
Pakistani Poetry in English	HUM389	3	SSC214
Djinn in World Literature	HUM390	3	SSC214
Borders and Boundaries: South Asian and Middle Eastern Feminist Fiction	HUM367	3	SSC214
An Introduction to Urdu Poetry and Poetics	HUM340	3	SSC214
Narrative and Identity in Pakistani Literature	HUM383	3	SSC214
Reimagining Shakespeare: Adaptations in Film and Literature	MCS342	3	SSC214
Postcolonial Science Fiction and Fantasy	MCS343	3	SSC214
Urban Studies core course			
Introduction to Urban Studies	SSC234	3	
Urban Studies electives (3 from the following list)*			
The City	HST358	3	SSC 234
Studying the City in the Global South: Planning, Politics and Development	POL360	3	SSC 234
Urban Management in the Global South	POL403	3	SSC 234
Cities, Gender, and Climate Change	DEV538	3	SSC 234
Sustainable Cities and Communities	NSC358	3	SSC 234
Reading the City-Intersections of climate, architecture, & urban morphology in cities of the Global	HUM465	3	SSC 234
Urban Mental Health	PSY378	3	SSC 234-

***Not all electives will be offered in any given academic year.

Semester-wise sequence of courses

Freshman	Semester 1	Course code	Credit hours	Pre-requisite	Course type
1	Calculus 1	MTS104	3	-	Non Specialization Core
2	Critical Reading and Writing	SSC101	3	-	University Core
3	Fundamentals of Sociology	SSC231	3	-	Social Science Core
4	Introduction to Historical Methods	SSC232	3	-	Social Science Core
5	History of Ideas-I	SSC239	3	-	Supporting Course

	Semester 2	Course code	Credit hours	Pre-requisite	Course type
1	Introduction to Statistics	MTS102	3	-	Non Specialization Core
2	Rhetorical Modes of Writing	SSC106	3	-	Non Specialization Core
3	Introduction to Psychology	SSC218	3	-	Social Science Core
4	South Asian History	SSC221	3	-	Supporting Course
5	History of Ideas-II	SSC238	3	-	Supporting Course

Sophomore	Semester 3	Course code	Credit hours	Pre-requisite	Course type
1	Speech Communication	HUM201	3	-	University Core
2	Statistical Inference	MTS202	3	MTS102	Supporting Course
3	Pakistan History	SSC151	3	-	University Core
4	Foreign Language-I	SSC201/205/209/330	4	-	Non Specialization Core
5	Introduction to Social and Cultural Anthropology	SSC233	3	-	Social Science Core

	Semester 4	Course code	Credit hours	Pre-requisite	Course type
1	Foreign Language II	S202/206/210/331	4	SSC201/205/209/330	Non Specialization Core
2	Introduction to Media and Culture	SSC216	3	-	Social Science Core
3	Introduction to Political Science	SSC217	3	-	Social Science Core
4	Introduction to Urban Studies/ Introduction to World Literature	SSC234/ SSC214	3	-	Social Science Core
5	Islamic Scholarly Traditions/ Philosophy, Logic and Ethics (PLE)**	SSC301/ HUM	3	-	University Core
Summer	6-week social sciences research internship - no credit	S202/206/210/331	-		-

Junior	Semester 5	Course code	Credit hours	Pre-requisite	Course type
1	Major Core I	-	3	-	Major Core
2	Major Core -II	-	3	-	Major Core
3	Humanities elective-I	-	3	-	Humanities Elective
4	Natural Science elective	-	3	-	Natural Science Elective
5	Computational Research Methods	SSC302	4	MTS202	Supporting Course

	Semester 6	Course code	Credit hours	Pre-requisite	Course type
1	Major core-III	-	3	-	Major Core
2	Major core-IV Research Methods	HST/PSY/POL301 & MCS340	4	-	Major Core
3	Major elective-I	-	3	-	Major Elective
4	Non-specialization elective-I	-	3	-	Non Specialization Elective
5	Visual Studies elective	-	3	-	Visual Studies Elective
Summer	6-week Social Sciences research internship - no credit	-		-	-

Senior	Semester 7	Course code	Credit hours	Pre-requisite	Course type
1	Major elective-II	-	3	-	Major Core
2	Major elective-III	-	3	-	Major Core
3	Major elective-IV	-	3	-	Major Elective
4	Non-specialization elective-II	-	3	-	Non Specialization Elective
5	Culminating Experience- I	SSC491	3	HST/PSY/POL301 & MCS340	

	Semester 8	Course code	Credit hours	Pre-requisite	Course type
1	Major elective-V	-	3	-	Major Elective
2	Major elective-VI	-	3	-	Major Elective
3	Humanities elective-II	-	3	-	Humanities Elective
4	Culminating Experience-II or 2 Humanities Electives	SSC492	6	SSC491 for CE II	-

Important note

- Students should complete their responsible citizen initiative after completing their 2nd semester at IBA and must fulfill this graduation requirement before the end of their 6th semester.

- Students should engage in their Social Sciences research internships during their 3rd summer of enrollment, i.e., after completing their 6th semester of the course work.

Master of Science (MS) Development Studies

MS Development Studies (Dev. Studies) is a multi and interdisciplinary program that explores critical topics of development theory and practices, introducing development as a process of evolution of societies. Development Studies is also a policy debate that considers the specificity of societies in terms of history, ecology, culture, technology, politics, etc., and how these differences both can and often should translate into varied 'local' responses to regional or global processes and varied strategies of development and methods.

MS Dev. Studies provides high-quality and rigorous training needed to understand the methods, policy, and practices of development. The program offers a solid multi-disciplinary social science formation in theory, quantitative methods, and applications employed in various fields of development. The Department of Economics and the Department of Social Sciences & Liberal Arts jointly offer the program.

This program emphasizes understanding the historical perspectives and recent advances in development and caters to the growing market for analysts and policymakers. Graduates from this program will be prepared for careers in research institutions, government entities, development agencies, international organizations, and policy-related think tanks.

Distribution of credit hours

	Courses	Credit hours
Foundation courses[1]	2	0
Core courses	4	12
Elective courses	4	12
MS Thesis[2]	1	6
Total	11	30

The interview panel will decide which foundation courses are exempted/recommended. MS Thesis may be replaced with a project along with an additional course of three credit hours.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Duration

The program is designed as a 2-year full-time program and students will be admitted as full-time only during the coursework.

Course requirements

MS courses: 24 credit hours (8 courses) for students who are exempted from foundation courses and up to 30 credit hours (10 courses) for students who take foundation courses. At the time of admission, the interview panel will decide which students are exempted from taking foundation courses.

MS thesis: 6 credit hours. Students who do not wish to opt for writing a thesis can replace it with an MS Project (3 units) and an additional course of 3 credit hours.

Course category

Course title	Course code	Credit hours	Pre-requisite
Analytical Tools in Development	DEV531	3	-
Theories and Concepts in Economics	DEV532	3	-
Core courses	**Course code**	**Credit hours**	**Pre-requisite**
Theories and Critical Approaches in Development	DEV533	3	-
Anthropology & Development	DEV534	3	-
Policy Analysis: Theory & Practice	DEV535	3	-
Research Methods in Development	DEV536	3	-
Core elective	**Course code**	**Credit hours**	**Pre-requisite**
Elective I	ECO631	3	ECO531
Elective II	-	3	-
Elective III	-	3	-
Elective IV	-	3	-
Thesis	**Course code**	**Credit hours**	**Pre-requisite**
MS thesis*	DEV591	6	-

*The grade on the MS thesis and MS research project would be pass/fail and will not be counted in the CGPA.

Semester-wise offerings of the courses

Students exempted from four foundation courses			
S. No.	**Semester 1 – Fall**	**Course code**	**Course type**
1	Theories and Critical Approaches in Development	DEV533	Core
2	Anthropology & Development	DEV534	Core
3	Elective I	DEV566	Elective
4	Elective II	DEV551	Elective
S. No.	**Semester 2 – Spring**	**Course code**	**Course type**
1	Policy Analysis: Theory & Practice	DEV535	Core
2	Research Methods in Development	DEV536	Core
3	Elective III		Elective
4	Elective IV		Elective
S. No.	**Semester 3 – Fall**	**Course code**	**Course type**
1	MS Thesis		Thesis
Other Students (Not exempted from foundation courses)			
S. No.	**Semester 1 – Fall**	**Course code**	**Course type**
1	Analytical Tools in Development	DEV531	Foundation
2	Theories and Concepts in Economics	DEV532	Foundation
3	Theories and Critical Approaches in Development	DEV533	Core
4	Anthropology & Development	DEV534	Core
S. No.	**Semester 2 – Spring**	**Course code**	**Course type**
1	Policy Analysis: Theory & Practice	ECO537	Core
2	Research Methods in Development	ECO631	Core
3	Elective I		Elective
4	Elective II	-	Elective
S. No.	**Semester 3 - Fall / Semester 4 – Spring**	**Course code**	**Course type**
1	MS Thesis along with Elective III and Elective IV		Thesis and Electives

*End of Year 1 – Summer: - Students will choose an area of interest, a broad research topic and a potential supervisor for their research and must have it approved by the relevant department before the start of the next Fall semester.
- Applied field study module (zero credit hours but compulsory).
**End of Year 2 – Summer: Thesis must be completed by the end of summer for eligibility towards graduation.

Elective courses

Course category	Course title	Course code	Credit hours
Physical Resources	Conflict Studies	DEV551	3
	Agrarian Development, Food Policy & Rural Poverty	DEV552	3
	Environment, Climate Change and Sustainability	DEV553	3
	Cities & Urban Development	DEV554	3
	Data Science and Development	DEV555	3
	Entrepreneurship in Development	DEV556	3
Human Resources	Gender Studies	DEV561	3
	Migration and Mobility	DEV562	3
	Poverty and Inequality	DEV563	3
	Population Studies	DEV564	3
	Health & Development	DEV565	3
	Labor and Social Movements	DEV566	3
	Political Ecology	DEV567	3
	Leadership in Development	DEV568	3
Society & Economy	Public Financial Management	DEV571	3
	Aid & Development	DEV572	3
	Technology, Culture and Development	DEV573	3
	Communication and Social Change	DEV574	3
	Decolonizing Methods	DEV575	3
	Nature of Inquiry and Survey Design	DEV576	3

Master of Science (MS) Economics

The MS Economics program is designed to provide a solid background in theory, quantitative methods and applications appropriate to the needs of economists involved in policy planning, analysis and forecasting of public and private sectors. The curriculum of this program has been designed to meet international standards.

This program emphasizes on applied economics and caters to the growing market for economic analysts. Graduates from this program will be able to teach and conduct quality research in the fields of their interest and will be prepared for careers in universities, research organizations, business enterprises, government organizations, and multinational companies.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Duration

The minimum duration of the program is 2 years.

Class Timings

MS Economics is offered for full-time students as well as for part-time students. Classes in MS Economics are scheduled only in evenings (6:00-9:00 pm) on weekdays or any time (between 9:00 am - 9:00 pm) on Saturdays.

Teaching/research assistant positions

Teaching/research assistant positions are available in the department for full-time MS students. These positions are offered only to those students who maintain a cumulative GPA of 3.00 in each semester in the MS program. Teaching/research assistants must not work elsewhere.

Requirements for MS Economics

Course requirements

MS courses: 30 credit hours (courses)

MS thesis: 6 credit hours

Required courses

Course category	Courses	Credit hours
Core courses	6	18
Elective courses	2	6
Thesis	1	6
Total	**9**	**30**

Foundation/Refresher courses in summer semester

Two foundation/refresher courses of 3 credit hours each will be offered during the summer semester. BS Economics and BS Economics & Mathematics graduates from IBA are exempted from the 2 foundation courses. For other candidates, the admission interview panel will decide which foundation courses are exempted.

S. No.	Courses	Credit hours	Course code
1	Economics	3	EC-547
2	Mathematics and Statistics	3	ECO545

- These two courses will be offered during the summer semester.
- The student will have to obtain at least 60% marks (Grade-C minus).
- Admission in MS Economics will be confirmed after passing these courses with at least a B- grade.
- The courses and grades will not be counted in the transcript and CGPA.
- Students will have to attend classes with at least 75% attendance to be eligible to appear in the final exam.
- Half of the full course fee will be charged for each foundation course.

Semester-wise sequence of courses

S. No.	Courses	Credit hours	Course code
Fall semester			
1	Advanced Microeconomics	3	ECO631
2	Advanced Macroeconomics	3	ECO632
3	Econometrics I	3	ECO537
4	Elective I	3	-
Spring semester			
5	Econometrics II	3	ECO538
6	Research Methodology	3	ECO591
7	Development Economics	3	ECO534
8	Elective II	3	-
Fall/Spring semester			
9	MS Thesis*	6	-

*Students have the option to take 1 additional elective course and an MS research project (ECO698) in place of MS thesis. The grade on MS thesis and MS research project would be pass/fail and will not be counted in the CGPA.

List of elective courses

Course title	Course code	Credit hours	Pre-requisite
Combinatorial Optimization	CSE654	3	-
International Trade	ECO539	3	ECO531
Issues in Pakistan Economy	ECO544	3	ECO532
Climate Change Economics	ECO551	3	ECO531
Behavioural Economics	ECO554	3	ECO531
Economic Forecasting	ECO555	3	MTS536
Public Policy Analysis: Theory and Practice	ECO560	3	ECO531/ECO501
Environmental and Resource Economics	ECO561	3	ECO531
Financial Economics	ECO562	3	ECO531
Health Economics	ECO563	3	ECO531
History of Economic Thought	ECO564	3	ECO532
Monetary Economics	ECO566	3	ECO532
Public Economics	ECO567	3	ECO531
Time Series Modelling	ECO570	3	MTS5366
Industrial Economics	ECO571	3	ECO531
Game theory and Competitive Strategy	ECO573	3	ECO531/ECO501
Water Economics and Policy	ECO574	3	ECO531/ECO501
Microeconomics of Public Policy Analysis	ECO575	3	ECO531/ECO501
Social Impact Evaluation	ECO577	3	ECO531/ECO501
Behavioural and Experimental Economics	ECO578	3	ECO531
Labour Economics	ECO654	3	ECO531

For further details, visit: www.economics.iba.edu.pk.

Master of Science (MS) Journalism

The Master of Science (MS) in Journalism is the flagship degree program in Journalism at the School of Economics and Social Sciences at IBA. The 1.5-year long program allows students to immerse themselves in all forms of Journalism – digital, audio and video – and gain practical experience in a newsroom under the guidance of experienced instructors. The Centre of Excellence in Journalism at IBA, provides support to this program through its state-of-the-art facilities and strong linkages with the industry. This is an opportunity for students to learn cutting-edge skills to enable them to find employment in reporting and production across various media platforms. They can also explore the intersection of technology and media and its impact on the journalism industry in Pakistan.

Learning outcomes

- Critical thinking
- Media and information literacy
- Foundational knowledge of Pakistan and the world
- Industry-specific concepts, skills and issues
- Independent thinking and innovation
- Leadership skills
- Apply knowledge in the real-world context

Required courses

Course category	Courses	Credit hours
Seminars	3	9
Skills courses	4	12
Labs	5	15
Capstone project	1	3
Total	**13**	**39**

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Duration

The minimum duration of the program is 1.5 years.

Semester-wise sequence of courses

Semester - 1	Course code	Credit hours	Pre-requisite	Course type
CEJ Newsroom 1	JOU504	3	-	Core
Digital News Reporting	JOU502	3	JOU506	Core
Governance and Society in Pakistan	JOU503	3	-	Core
News Writing and Reporting	JOU501	3	JOU508	Core
The Profession of Journalism	JOU500	3	JOU507	Core

Semester - 2	Course code	Credit hours	Pre-requisite	Course type
CEJ Newsroom II	JOU509	3	-	Core
Current Affairs TV Lab	JOU508	3	-	Core
International Affairs	JOU505	3	-	Core
Multimedia Journalism	JOU506	3	-	Core
Specialized Journalism I	JOU507	3	-	Core

Semester - 3	Course code	Credit hours	Pre-requisite	Course type
CEJ Newsroom (Summer)	JOU511	3	-	Core
Specialized Journalism II	JOU512	3	-	Core

Semester - 4	Course code	Credit hours	Pre-requisite	Course type
Capstone Project	JOU600	3	-	Core
Internship	-	-	-	

Internship

The three-month internship aims to embed students in a conventional newsroom in Pakistan's dynamic media industry. Students will be expected to carry out the internship at a media house/ publication of their choosing after the completion of their coursework in semester 4. This internship does not carry any weightage in terms of credit hours but is a mandatory requirement for graduation. Students will be assisted in placements to newsrooms by the MSJ faculty.

PhD Economics

The PhD Economics program is designed to provide a solid background in theory, quantitative methods, and applications appropriate to the needs of economists involved in policy planning, analysis, and forecasting in the public and private sectors. PhD Economics emphasizes on Applied Economics and caters to the growing market for Economic analysts. The curriculum of this program has been designed to meet international standards and the students will find the program to be intellectually challenging and personally rewarding. Graduates from this program will be able to teach and conduct quality research in the fields of their interest and will be prepared for careers in universities, research organizations, business enterprises, government organizations, and multinational companies.

Duration
For the eligibility criteria, refer to page **10**.

Eligibility criteria
Minimum duration of the program is 4 years and the maximum time allowed is 8 years.

Teaching/research assistant positions
PhD program is a full-time morning program. IBA will offer Teaching/Research assistant positions to PhD students along with a tuition fee waiver. Teaching/research assistants must not work elsewhere. A PhD student must spend at least the first two years of the degree in IBA as a full-time student. The provision of a stipend will be conditional on the satisfactory performance of students. The maximum duration for the stipends will be six years.

Required courses		
Course category	**Courses**	**Credit hours**
Core courses	4	16
Elective courses	2	8
Thesis	1	24
Total	7	48

List of core and elective courses
Fall semester

Course title	Course code	Credit hours	Pre-requisite
Topics in Microeconomic Theory	ECO644	4	-
Topics in Macroeconomic Theory	ECO645	4	-
Econometric Analysis	ECO646	4	-

Spring semester

Course title	Course code	Credit hours	Pre-requisite
Topics in Research Methods	ECO650	4	-
Elective I	-	4	-
Elective II	-	4	-

Dissertation			
Course title	**Course code**	**Credit hours**	**Pre-requisite**
PhD Dissertation	ECO799	24	-

Elective courses

Course title	Course code	Credit hours	Pre-requisite
Macroeconomics Modelling and Public Policy Analysis	ECO655	4	-
Topic in Environmental Economics	ECO649	4	-
Topics in International Trade	ECO653	4	-
Advanced Financial Economics	ECO643	4	-
Topics in Monetary Economics	ECO656	4	-
Institutions and Development	ECO659	4	-
Advanced International Trade	ECO660	4	-

Comprehensive examinations

A comprehensive examination will consist of microeconomics and macroeconomics. In case of failing one part of the examination, the candidate will have to give the complete comprehensive examination again. Students will be allowed two attempts to qualify for the comprehensive examination. Students are, however, expected to pass it within two years from the commencement of the PhD program.

Oral defense of dissertation proposal

At the end of the 2nd year, students are expected to present and defend their PhD dissertation proposal.

Dissertation defense

Students are expected to submit and defend their dissertation in two years after successful completion of their coursework.

For further details, visit: economics.iba.edu.pk.

SCHOOL OF MATHEMATICS AND COMPUTER SCIENCE (SMCS)

School of Mathematics and Computer Science (SMCS)

The School of Mathematics and Computer Science (SMCS) of IBA is one of the fastest growing schools for excellence in teaching and research of computer science in Pakistan. The SMCS has a qualified faculty comprising of experienced practitioners and researchers that enrich teaching, provide business consultancies, support startups, and prepare students for higher education and industry. The school has state-of-the-art facilities focusing on undergraduate and graduate education. The research labs for Artificial Intelligence, Web Science, Big Data and Telecommunications allow computer science students to delve deep into the technological realm. In contrast, the mathematics programs offer a thorough background in pure and applied mathematics ranging from high-performance computing to commutative algebra.

Dean's Message

I am greatly honored to share the Dean's message with my faculty members who have contributed with their hard work, vision, and leadership, to make this school one of the best science schools in the country.

The history of science programs in IBA dates to 1983 when it started offering a diploma program in Computer Science to overcome the shortage of information and system analysts in the country. Since then, the venture has matured and now offers BS, MS, and PhD programs in Mathematics and Computer Science. We have established research labs for Artificial Intelligence, Web Science, Big Data, and Telecommunication, supporting the MS and PhD programs in the diverse domains of Computer Science. Likewise, the MS and PhD programs in Mathematics aim to provide a thorough background in theory, quantitative methods, and applications commensurate with international standards, offering the opportunity of highly specialized training in selected areas of pure and applied mathematics.

As IBA moves into the new system of schools, the newly established SMCS must continue to incubate and stay poised toward cutting-edge research and development in science and technology. In the coming years, we plan to enhance our academic programs by investing in our star faculty, establishing strong research and industrial ties across the globe, and bringing new specializations in Mathematics, Computer Science and allied fields. Our mission is to impart quality education to students selected purely on merit, irrespective of ethnicity, gender, religion or financial means.

The foremost aim of SMCS will be to establish academic linkages with leading science schools of the world so that we can enhance our teaching and research. This would assist towards innovations through joint research projects, focused on bringing new knowledge to the classrooms, thereby enriching academic transactions at IBA. The second aim is to offer more streams of specializations. We have introduced an MS program in Data Science and also plan to offer more programs in Mathematics and Computer Science. This will help diversify our portfolio to attract brilliant students, as well as high-caliber researchers and faculty. We envisage more productive and society-driven research in the new school. A new BS program in Mathematics is also a step in this direction.

With the IBA's mission to undertake consultancy and applied research to enrich teaching and influence thinking on important issues of business and public policy, we believe that SMCS will play a pivotal role to bring a significant contribution to the global challenges that science and technology can solve.

Dr. Shakeel Ahmed Khoja

Overview of departments

Department of Computer Science

The Department of Computer Science is one of the two departments at the School of Mathematics and Computer Science (SMCS), the Institute of Business Administration (IBA) Karachi. The department offers bachelor, master, and doctoral degree programs in Computer Science. The department has recently launched a long-awaited master's program in Data Science as well.

The full-time faculty members of the department teach a variety of courses over a wide range of the entire computer science spectrum. Some of the areas of specialization of full-time faculty members are theory, machine learning/AI, quantum computation, computer vision, text analytics, robotics, computer architecture, and human-computer interaction.

Some of the many strengths of the department include its high faculty-to-student ratio, the state-of-the-art facilities, the renowned visiting faculty from the industry to teach industry-specific courses, the strong focus on undergraduate education, and research. The faculty emphasizes interdisciplinary and encourages students to work with them as well as the faculty of other departments and schools.

Graduates from the department join the computing industry, multinational organizations, startups, consulting companies, government services, and nonprofit organizations. The tech industry in Pakistan is quick to offer jobs and internships to the students of the program and often offers them better opportunities for personal and professional growth. Many of our students get enrolled in the graduate programs of the leading universities around the world as well. Moreover, the alumni network of our department is very strong and they provide continuous support to our existing student body in terms of guidance and mentoring.

Visit website: https://cs.iba.edu.pk/.

Department of Mathematical Sciences

The Department of Mathematical Sciences is the other department under the umbrella of the School of Mathematics and Computer Science at IBA-Karachi. The department offers undergraduate, graduate, and doctoral programs in mathematics, besides offering teaching services to other departments for basic undergraduate mathematics.

The faculty at the Department of Mathematical Sciences represents a diverse team of mathematicians, statisticians, and physicists, having skills in many different areas of mathematics; these include algebra, analysis, topology, statistics, econometrics, partial differential equations & scientific computing, quantum field theory, gravitation, discrete mathematics, and data analytics.

The department is currently housed in the south wing of the Tabba Academic Center at the main campus of IBA. We have state-of-the-art facilities including classrooms, labs, and seminar lounges. Our computational infrastructure includes modern scientific computing server hardware-based and distributed memory multiprocessing in combination with computational and visualization software libraries for numeric and symbolic computing.

Mathematical Sciences has good local outreach in that we frequently collaborate with local NGOs promoting STEAM (Science, technology, Engineering, Arts, and Mathematics) activities for aspiring young students of all age groups - in addition to carrying out our university research and teaching activities.

The Department of Mathematical Sciences is an exciting place to visit. https://mathematics.iba.edu.pk/.

Bachelor of Science (BS) Computer Science

Bachelor of Science (BS) Computer Science is a 4-year degree program that includes courses from theoretical Computer Science, Technology, Social Sciences and Liberal Arts, and other areas. The aim is to educate students to become skilled professionals with problem-solving capabilities in Computer Science (CS) and allied areas. It also prepares students for research and development roles. It comprises of a total of 131 units, which are divided into university core, CS core, CS elective, non-specialization core, and non-specialization elective with 12, 62, 21, 24, and 12 units respectively. The non-specialization courses and electives are from supporting disciplines of Mathematics, Physics and Communication. The program's core courses, and general electives are from supporting disciplines of Mathematics, Physics, Communication, Accounting, Economics, Finance, Human Resource Management, Marketing, Management, and Social Sciences and Liberal Arts. A wide range of core and elective courses is engineered to provide the students with enough flexibility to choose a professional career path of their interest.

CS graduates have successfully developed their careers with entrepreneurial start-ups of their own as well as getting placed in good software houses, ICT companies, financial institutions, business solution providers and multinational companies.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Curriculum structure

Duration	**4 years**
Semesters	**8**
Courses	**41**
Total credit hours	**131**

Curriculum structure

Section	Course category	Course	Credit hours
A	University Core	4	12
B	Computer Science Core	18	63
C	Computer Science Electives	7	21
D	Program Core	8	24
E	General Electives	4	11
F	Personal Effectiveness	1	Pass/Fail
TOTAL		42	131

Computer Science electives
(7 to be selected from the following list)

Course title	Course code	Credit hours	Pre-requisite
Web Based Application Development	CSE308	3	CSE341
Design Patterns	CSE318	3	CSE247
Data Warehousing	CSE343	3	CSE341
Compiler Design	CSE344	4	CSE309, CSE345
Cloud Computing	CSE351	3	CSE248, CSE331, CSE34
Computer Graphics	CSE352	3	-
Game Design and Development	CSE353	3	-
System Modeling and Simulation	CSE403	3	CSE345
Application Development for Mobile Devices	CSE450	3	-
Introduction to Computer Vision	CSE454	3	CSE248
Network Security	CSE455	3	CSE341, MIS343
Business Intelligence	CSE459	3	CSE307
Introduction to Image Processing	CSE462	3	CSE247
Introduction to Bioinformatics	CSE463	3	CSE247, MTS102
Introduction to Data Mining	CSE464	3	CSE341
Data Warehousing	MIS343	4	CSE341
Social Computing	MIS406	3	-
E-Commerce	MIS456	3	-
IS Security	MIS457	3	CSE341

Note: Senior students with at least 3.0 CGPA may also opt for 500-level graduate courses as CS-electives.

General electives

Any course other than Computer Science is considered as a general elective which also includes Social Sciences as well as languages.

Semester-wise sequence of courses

Freshman	Semester 1	Course code	Credit hours	Pre-requisite	Course type
1	Introduction to Programming	CSE141	4	-	CS Core
2	Introduction to Computing	CSE101	3	-	CS Core
3	Calculus I	MTS101	3	-	Program Core
4	Critical Reading and Writing	SSC101	3	-	University Core
5	Pakistan History or Islamic Scholarly Tradition	SSC151/ SSC301	3	-	University Core

	Semester - 2	Course code	Credit hours	Pre-requisite	Course type
1	Object Oriented Programming Techniques	CSE142	4	CSE141	CS Core
2	Speech Communication	HUM201	3	SSC103	University Core
3	Introduction to Statistics	MTS102	3	-	Program Core
4	Discrete Mathematics	MTS211	3	MTS101	Program Core
5	Calculus - II	MTS232	3	MTS101	Program Core
6	Physics	SCI102	3	-	Program Core

Sophomore	Semester 3	Course code	Credit hours	Pre-requisite	Course type
1	Digital Logic Design	CSE241	4	CSE101, MTS211	CS Core
2	Data Structures	CSE247	4	CSE142, MTS211	CS Core
3	Linear Algebra	MTS203	3	MTS101	Program Core
4	Numerical Analysis	MTS306	3	MTS232	Program Core
5	General elective-I	-	3	-	General Elective

	Semester 4	Course code	Credit hours	Pre-requisite	Course type
1	Introduction to Artificial Intelligence	CSE307	3	CSE247	CS Core
2	Computer Communication and Networking	CSE248	4	CSE101, CSE142	CS Core
3	Theory of Automata	CSE309	3	CSE141, CSE211	CS Core
4	Computer Architecture and Assembly Language	CSE345	4	CSE241, CSE247	CS Core

Junior	Semester 5	Course code	Credit hours	Pre-requisite	Course type
1	CS elective-I	-	3	-	CS Elective
2	Software Engineering	CSE331	3	CSE247	CS Core
3	Operating Systems	CSE341	3	CSE345	CS Core
4	Database Systems	MGT211	4	CSE247	CS Core
5	Business Communication	CSE312	3	HUM201	Program

	Semester 6	Course code	Credit hours	Pre-requisite	Course type
1	Design and Analysis of Algorithm	CSE317	3	CSE247	CS Core
2	Systems Programming	CSE441	4	CSE331	CS Core
3	CS elective-II	-	3	-	CS Elective
4	CS elective -III	-	3	-	CS Elective
5	General elective-II	SSC240	3	-	General Elective

Senior	Semester 7	Course code	Credit hours	Pre-requisite	Course type
1	Human Computer Interaction	CSE407	3	CSE312	CS Core
2	Final Year Project	CSE493	0	CSE312, CSE341	CS Core /Project
3	CS elective-IV	-	3	-	CS Elective
4	CS elective-V	-	3	-	CS Elective
5	General elective-III	-	3	-	General Elective

	Semester 8	Course code	Credit hours	Pre-requisite	Course type
1	Final Year Project	CSE494	6	CSE493	CS Core /Project
2	Audit, Ethics and IS Issues	MIS454	3	MGT211	CS Core
3	CS elective- VI	-	3	-	CS Elective
4	CS elective- VII	-	3	-	CS Elective
5	General elective-IV	-	3	-	General Elective

- Students are eligible to carry out their Responsible Citizen Initiative (RCI)/social internships right after their 1st year of studies/2nd semester and should complete this mandatory graduation requirement by the end of their 3rd year of studies/6th semester.

- Corporate internship can only be carried out after the 6th semester (i.e. after completion of all the courses till the 6th semester as mentioned in the semester-wise break up above).

Bachelor of Science (BS) Mathematics

Bachelor of Science (BS) Mathematics at IBA is a 4-year degree program. Its uniqueness lies in the offer of earning concentrations in allied areas of sciences while adhering to the mathematics core. The flexibility and diversity that this scheme offers to students in studying mathematics aligned with the current common structure of the BS-Math programs worldwide while keeping in line with HEC guidelines. Regular academic, as well as professional career development guidance is also available to students to help them cope with challenges more effectively.

This program prepares graduates with diverse skills, attributes, and field knowledge, which are critical ingredients for a successful applied sciences career.

The program aims to equip students with sufficient analytical and computational skills for a successful corporate career, a career in education, or a career in industry. A diverse skillset will also enable students to seek promising careers in research and development in mathematics and related fields, applied sciences, engineering sciences, actuarial sciences, economics, data sciences, quantitative finance, computing, banking, and statistics, and post-graduate study in mathematics, and theoretical physics as well as university teaching.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Curriculum structure	
Duration	**4 years**
Semesters	**8**
Courses	**40**
Research Project	**1**
Total credit hours	**128**

Required courses

Section	Course category	Courses	Credit hours	Category	Courses	Credit hours
A	University Core courses	4	12	Compulsory Requirements	9	25
B	Mathematics Core courses	13	41	General Courses	7	21
C	Mathematics Electives	4	12	Discipline-Specific Foundation Courses	10	33
D	Science Core courses	6	20	Major Courses, including Research Project	11+ Project	37
E	University Breadth courses	4	12	Elective Courses within the Major	4	12
F	Restricted Electives	3	9			
G	Free Electives	6	18			
H	Research Project	1	4			
	Total	**41**	**128**		**41+ Project**	**128**

A. University core courses

Course category	Course code	Credit hours
Critical Reading and Writing	SSC101	3
Pakistan History	SSC151	3
Speech Communication	HUM357	3
Islamic Scholarly Tradition Or Philosophy, Logic, and Ethics (PLE)*	SSC301 / HUM357	3

*All Muslim students are required to register for SEPI. Non-Muslim students may take either SEPI or PLE.

B. Mathematics core courses

Course title	Course code	Credit hours	Pre-requisite
Calculus-I	MTS101	3	-
Discrete Mathematics	MTS211	3	-
Calculus-II	MTS232	3	MTS101
Linear Algebra	MTS203	3	-
Mathematical Statistics and Probability	MTS2xx	3	-
Multivariable Calculus	MTS242	4	MTS232
Introduction to Differential Equations	MTS241	3	MTS101
Mathematical Methods	MTS3xx	3	
Numerical Analysis	MTS306	3	MTS232
Statistical Modeling	MTS202	3	MTS102
Abstract Algebra	MTS305	3	MTS203
Analysis	MTS-xxx	4	MTS341
Geometry & Topology	MTS451	3	MTS341
Final Year Project (Mathematics)	MTS471	4	-

Course title	Course code	Credit hours	Pre-requisite
Computational Finance	MTS442	3	-
Modern Algebra I (Galois Theory & Applications)	MTS443	3	MTS413
Modern Algebra II (Commutative Rings & Fields)	MTS444	3	MTS431
Measure Theory I	MTS445	3	-
Measure Theory II	MTS446	3	-
Operations Research I	MTS447	3	-
Operations Research II	MTS448	3	-
Scientific Computing for Linear PDE's.	MTS414	3	MTS413
Introduction to Differential Topology	MTS452	3	MTS451
Financial Engineering	MTS453	3	MTS441
Geometry-I	MTS4xx	3	-
Geometry-II	MTS4xx	3	-
Abstract Algebra II	MTS413	3	MTS305
Financial Mathematics	MTS5xx	3	-
Financial Analysis II	MTS412	3	-
Electrodynamics and Special Relativity	PHY4xx	3	-
Algebraic Quantum Theory	PHY4xx	3	-
Introduction to Quantum Field Relativity	PHY4xx	3	-
Introduction to Scientific Computing	MTS4xx	3	-
Time Series Analysis	MTS4xx	3	-
Introduction to Data Mining	MTS4xx	3	-
More options	MTS-	3	-

C. Mathematics electives courses

Course title	Course code	Credit hours	Pre-requisite
Numerical Solutions of PDE	MTS431	3	MTS414
Integral Equations	MTS432	3	MTS303
Advanced Numerical Analysis I	MTS433	3	MTS414
Advanced Numerical Analysis II	MTS434	3	MTS433
Differential Geometry	MTS435	3	MTS203, MTS204
Stochastic Processes	MTS304	4	MTS231
Fluid Dynamics I	MTS437	3	-
Fluid Dynamics II	MTS438	3	-
Financial Mathematics with a computational approach	MTS441	3	-

D. Science core courses

S.No	Course title	Course code	Credit hours	Pre-requisite
1	Introduction to Programming	CSE141	4	-
2	Mechanics	PHYxxx	3	-
3	Electricity & Magnetism and Waves	PHYxxx	3	MTS101
4	Data Structures	CSE247	4	CSE141
5	Introduction to Quantum Mechanics	PHYxxx	3	-
6	Design & Analysis of Algorithms	CSE317	4	CSE247

E. University breadth requirement: (4 Courses)

* To be selected from other schools with at least one course from each school.

F. Mathematics electives specialized groups*:

*All these courses are Mathematics electives and can be used to fulfill Mathematics elective requirements. The grouping is only made to help students build their strength in a particular specialty and to specify the requirements to earn a specific concentration on the transcript.

Mathematical Physics:
- Quantum Mechanics II
- Advanced Quantum Mechanics
- Introduction to Quantum Field Theory
- Electrodynamics and Special Relativity
- Quantum Information
- Statistical Mechanics
- Algebraic Quantum Theory
- General Relativity
- Computational Physics
- Stochastic Processes in Physics

Computational Mathematics:
- Introduction to Scientific Computing
- Numerical Solutions of PDE
- Scientific Computing for Linear PDE's
- Computational Physics
- Computational Quantum Field Theory
- Monte-Carlo Methods
- Financial Mathematics with a computational approach
- Scientific Computing for Linear PDE's
- Computational Physics
- Computational Quantum Field Theory
- Monte-Carlo Methods
- Financial Mathematics with a computational approach
- Financial Mathematics
- Operations Research
- Computational Finance

Data and Statistics:
- Introduction to Data Science
- Introduction to Data Mining
- Bayesian Statistics
- Stochastic Processes
- Time Series Analysis
- Econometrics
- Applied Multivariate Statistics
- Simulation and Computational Statistics
- Machine Learning
- Neural Networks

G. Free electives/concentration/minor declaration policy in BS (Mathematics) program

Free elective courses facilitate interdisciplinary study and provide a broader vision to the students. In the BS (Mathematics) program, students can (optionally) earn a concentration on their transcripts according to the following plan.

Computer Science
(3 additional courses with CS code, 300 level and beyond, apart from the CS required courses that are part of the core)

Data Analytics
(3 additional courses from Data and Statistics Stream, 300 level and beyond, apart from the one required course from this stream that is counted as a restricted elective)

Physics
(3 additional courses from Mathematical Physics Stream, 300 level and beyond, apart from the one required course from this stream that is counted as a restricted elective)

Concentration / minor will not be mentioned on the degree; however, they will be shown on the mark sheet.

Note: It is not mandatory for a student to select a concentration/minor in a BS (Mathematics) Program. They can choose courses from other fields of study apart from the ones mentioned above as a free elective for the completion of their degrees.

Concentration is declared at the time of graduation by submitting the appropriate forms

H. Final year Mathematics project. One final year project of 4 credit hours

Semester-wise sequence of courses

Freshman	Semester 1	Course code	Credit hours	Pre-requisite	Course type
1	Calculus-I	MTS101	3	-	Mathematics Core
2	Mechanics	PHYxxx	3	-	Science Core
3	Introduction to Programming	CSE141	3	-	University Core
4	Discrete Mathematics	MTS211	3	-	Mathematics Core
5	Critical Reading and Writing	SSC101	3	-	University Core

	Semester-2	Course code	Credit hours	Pre-requisite	Course type
1	Calculus-II	MTS232	3	-	Mathematics Core
2	Electricity, Magnetism & Waves	PHYxxx	3	-	Science Core
3	Linear Algebra	MTS203	3	-	Mathematics Core
4	Speech communication	HUM203	3	-	University Core
5	Introduction to programming	CSE141	4	-	Science Core

Sophomore	Semester-3	Course code	Credit hours	Pre-requisite	Course type
1	Multivariable Calculus	MTS242	3	MTS232	Mathematics Core
2	Mathematical Statistics & Probability	PHYxxx	3	-	Science Core
3	Introduction to Differential Equations	MTS241	3	MTS101	Mathematics Core
4	Numerical Analysis	MTS306	3		University Core
5	Islamic Scholarly Tradition Or Philosophy, Logic, and Ethics*	SSC301 / HUM357	3	-	Science Core

	Semester-4	Course code	Credit hours	Pre-requisite	Course type
1	Mathematical Methods	MTSxxx	3	-	Mathematics Core
2	Introduction to Quantum Mechanics	PHYxxx	3	-	Science Core
3	Statistical Modeling	MTSxxx	3		Mathematics Core
4	Numerical Analysis	MTS306	3	MTS232	Mathematics Core
5	Data Structures	CSE241	4	CSE141	Science Core

Junior	Semester-5	Course code	Credit hours	Pre-requisite	Course type
1	Abstract Algebra	MTS305	3	MTS203	Mathematics Core
2	Analysis	MTSxxx	3	MTS242	Mathematics Core
3	Computational Mathematics Elective	MTSxxx	3	-	Elective
4	Design & Analysis of Algorithms	CSE317	3	-	Science Core
5	Mathematics Elective-I	MTSxxx	3	-	Elective

	Semester-6	Course code	Credit hours	Pre-requisite	Course type
1	Mathematical Physics Elective	MTSxxx	3	-	Elective
2	Data and Statistics Elective	MTSxxx	3	-	Elective
3	Geometry & Topology	MTS451	3	-	Mathematics Core Course
4	Mathematics Elective-II	MTS451	3	-	Elective
5	University Breadth	MTSxxx	3	-	University Breadth Course

Senior	Semester-7	Course code	Credit hours	Pre-requisite	Course type
1	Mathematics Elective III	MTSxxx	3	-	Elective
2	Mathematics Elective IV	MTSxxx	3	-	Elective
3	University Breadth	MTSxxx	3	-	University Breadth
4	Free Elective		3	-	Elective
5	Free Elective	SSC101	3	-	Elective
	Final Year Project	MTSxxx			Project

	Semester-8	Course code	Credit hours	Pre-requisite	Course type
1	Free Elective			-	Elective
2	Free Elective			-	Elective
3	Free Elective			-	Elective
4	Free Elective			-	Elective
5	University Breadth			-	University Breadth
	Final Year Project	MTSxxx			Project

Master of Science (MS) Computer Science

The Department of Computer Science at IBA, under the School of Mathematics and Computer Science (SMCS) is an exciting place to learn about the latest developments in Computer Science as well as to perform research with a high social impact. The MS program comprises of 4 tracks, each completely aimed at a particular field of specialization in Computer Science. The diverse backgrounds of students that come from various fields of study into this program require a customized and tailored approach towards building the relevant fundamentals for each track. Moreover, the curriculum has been designed so that it is at par with IEEE/Association for Computing Machinery (ACM) guidelines. This ensures that the tracks do not lose relevance in the wake of a rapidly changing landscape of computing technologies. The potential of this program in terms of imparting useful advanced computing skills and professional growth is measured by the readiness of the job market and advanced learning schools in absorbing graduates. The curriculum design ensures that the graduates can creatively find technology-based solutions, think critically and analyze systems and emerging problems independently.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Duration

The minimum duration of the program is 2 years, comprising 4 semesters. Total credit hours are 30.

Required courses

The Master of Science Computer Science (MSCS) program has two basic categories: MS with Thesis and MS without Thesis. In both categories, the student should complete 30 credit hours. In MS with Thesis, the student needs to complete 18 credit hours to be eligible for taking MS Thesis I (research work) and MS Thesis II (thesis work) of 3 credit hours each over two semesters. In MS without Thesis, the student needs to complete 24 credit hours to register for the MS Project, which is a one semester, 3 credit hour implementation of a solution to solve an industrial problem related to any domain of computer science.

In the MS Thesis, the student is required to discover an innovative algorithm, methodology, framework, entity, or an application, which is clearly distinguishable from the state-of-the-art research. Then, the student implements this innovation and attempts to demonstrate that it works or performs better or at least at par with current research trends. Finally, the student will attempt to publish these findings in a conference, workshop, symposium or journal paper. In the MS Project, the student implements a small-scale product, software, API, solution or similar entity to preferably address a current industrial need or requirement. The MS Project can also implement an innovative and unique idea of the student or supervisor which might become useful for the industry later. For more information, visit: https://cs.iba.edu.pk/msthesisproject/.

The coursework may be taken from more than one of the 4 specialization tracks, with a student required to take a minimum of one course from each track with no limit on the maximum number of courses per track. Each track has its own set of prerequisites which are usually BS-level Computer Science courses. MS students may also take courses at the PhD (600) level for credit.

The breakdown of credit hours for both MSCS is as follows:

MS with Thesis

	Course category	Course	Credit hours	Total
1	CS electives	8	3	24
2	MS Thesis-I	Equivalent to 1 course	3	3
3	MS Thesis-II	Equivalent to 1 course	3	3
	Total	10	-	30

MS without Thesis

	Course category	Course	Credit hours	Total
1	CS electives	9	3	27
2	MS Project	Equivalent to 1 course	3	3
	Total	10	30	30

MSCS has the following 4 tracks, respective courses in each track are listed below (each course has its pre-requisites and is subject to the instructor's consent)

List of specialization tracks

Tracks	Specialization	Criteria
1	AI/Intelligent Systems (Track-AI)	Required to take minimum one course - no limit on maximum courses
2	Information Systems and Software Engineering (Track-ISSE)	Required to take minimum one course - no limit on maximum courses
3	Network Centric Computing/ Systems (Track-NCC)	Required to take minimum one course - no limit on maximum courses
4	Theory (Track-Theory)	Required to take minimum one course - no limit on maximum courses

Track-AI courses

Tracks	Course code	Course title
1	MIS552	Advanced Data Warehousing
2	CSE668	Big Data Analytics
3	CSE607	Bioinformatics Algorithms
4	CSE659	Computational Intelligence
5	CSE660	Computer Vision
6	CSE510	Data and Information Visualization
7	CSE679	Data Science Product Development
8	CSE669	Deep Learning
9	CSE559	Image Processing
10	CSE602	Machine Learning-I
11	CSE603	Machine Learning-II
12	CSE601	Mathematics for Data Science
13	CSE574	Natural Language Processing
14	CSE655	Probabilistic Reasoning
15	CSE661	Semantic Web
16	CSE670	Social Network Analysis
17	CSE674	Text Analytics

Track-ISSE courses

Tracks	Course code	Course title
1	CSE575	Advance Human Comp Interaction
2	MIS565	Advanced E-Commerce
3	CSE570	Digital Business Transformation
4	MIS503	Enterprise Integration
5	MIS513	Information Industry Structure and Competitive Strategy
6	CSE665	Information Retrieval and Web Search - I
7	CSE666	Information Retrieval and Web Search - II
8	CSE658	Knowledge Management and e-learning Systems
9	MIS550	Logistics and Supply Chain Management
10	MIS553	Mobile Marketing Strategies
11	MIS502	Operations and Technology Management
12	CSE567	Requirements Engineering
13	CSE640	Research Methodology
14	MIS601	Research Methods in IS
15	CSE503	Software Project Management
16	CSE566	Software Quality Assurance
17	CSE564	Software Systems Engineering
18	CSE576	Usability Engineering

Track-NCC courses

	Course code	Course title
1	ICT511	Advanced Computer Networks
2	CSE550	Cloud Security
3	ICT651	Computer Comm Network & Simulation
4	CSE582	Cyber Security Operations
5	CSE580	Essentials of Information Security
6	CSE565	Internet of Things
7	CSE675	Software Defined Networking
8	ICT659	Wireless Sensor Networks
9	ICT662	WSN Protocols and Applications

Track-Theory courses

	Course code	Course title
1	CSE607	Bioinformatics Algorithms
2	CSE654	Combinatorial Optimization
3	CSE581	Computational Complexity Theory
4	CSE657	Essentials of Theoretical Computer Science
5	CSF501	Introduction to Algorithms
6	CSE662	Parallel Processing
7	CSE527	Programming Quantum Computers
8	CSE517	Quantum Computer Science
9	CSE680	Research Topics in Quantum Computing
10	MIS651	Theoretical Foundations of IS
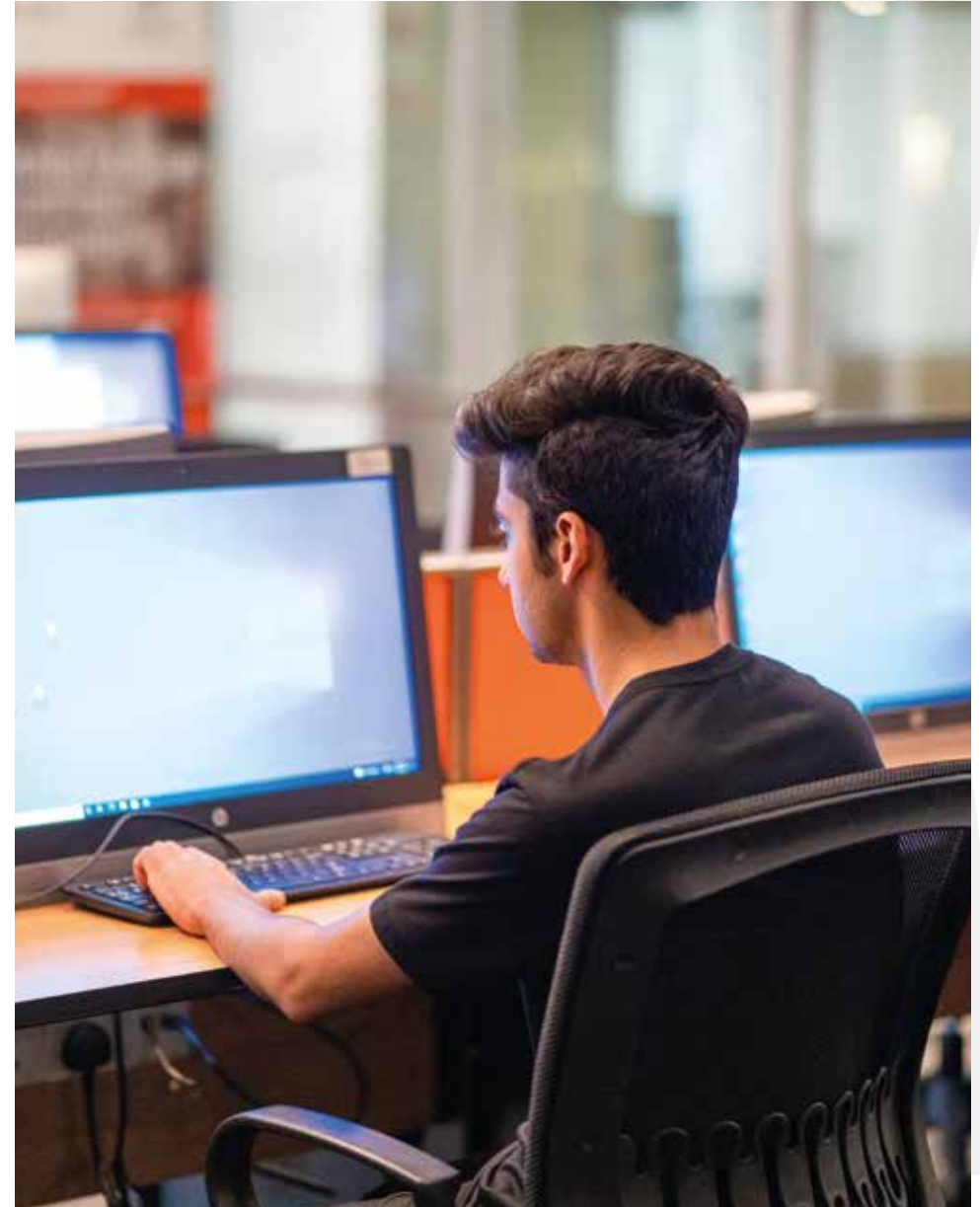
Master of Science (MS) Data Science

The field of data science lies at the intersection of machine learning, probability, statistics, linear algebra and big data analytics. Offered by the School of Mathematics and Computer Science (SMCS), the MS in Data Science (MSDS) program prepares students to extract valuable insights from data through a unique and comprehensive methodology. The program is designed for students who want to begin or advance their careers in the field of data science. It provides a powerful base in subjects including statistical modeling, probabilistic reasoning, machine learning, management of massive data sets, data visualization, and software engineering. The program targets both CS and STEM (Science, Technology, Engineering and Mathematics) students and prepares them to apply the knowledge of data science to a wide range of corporate domains. Non-CS/SE/IT students are required to take non-credit foundation-level courses in algorithms, data management and application development. These courses prepare them for the core and more advanced data science courses alongside students with a CS, IT or SE background. The MSDS core courses strengthen the students' understanding of mathematical concepts that form the basis of machine learning and statistical modeling along with both theoretical and hands-on skills in big data management and analytics. Students can opt from a range of electives including, but not limited to deep learning, text analytics, computer vision, business intelligence, time series analysis, information retrieval and social network analysis. The potential of this program in terms of imparting useful and advanced data science skills and professional growth is measured by the readiness of the job market and advanced learning schools in absorbing graduates. The curriculum design ensures that the graduates can creatively find technology-based solutions, think critically and analyze systems and emerging problems independently. Hence, the vision of MSDS is to train students to create an impact of data science in the local and international industries.

Eligibility criteria
For the eligibility criteria, refer to pages **08-09**.

Duration
For the non-CS/IT/SE students who take the foundation-level courses, the total minimum duration is 2.5 years (with a total of 5 semesters). For the CS/IT/SE students, the total minimum duration is 2 years (with a total of 4 semesters). MSDS courses are not offered in the two-month long summer semester.

Required courses
The MSDS program has two basic categories: MS with Thesis and MS without Thesis. In MS with Thesis, the student needs to complete 18 credit hours to take MS Thesis I (research work) and MS Thesis II (thesis work) of 3 credit hours each over two semesters. In MS without Thesis, the student needs to complete 24 credit hours to implement the MS Project, a one semester, 3 credit hour implementation of an industrial solution to solve a data science problem.

In the MS Thesis, the student is required to discover an innovative algorithm, methodology, framework, entity, or an application, which is clearly distinguishable from the state-of-the-art research. Then, the student implements this innovation and attempts to demonstrate that it works or performs better or at least at par with current research trends. Finally, the student will attempt to publish these findings in a conference, workshop, symposium or journal paper. In the MS Project, the student implements a small-scale product, software, API, solution or similar entity to preferably address some current industrial need or requirement. The MS Project can also implement some innovative and unique ideas of the student or supervisor which might become useful for the industry later. For more information, visit: https://cs.iba.edu.pk/msthesisproject/

Program Structure

The MSDS program is for 4 semesters with a total of 39 credit hours. The following struture will be followed for MS with Thesis and MS without Thesis:

MS with Thesis

Section	Course title	Course	Credit hours
A	Foundation courses	3	9
B	Core courses	3	9
C	Electives	5	15
D	Thesis (MS Thesis I and MS Thesis II)	2	6
	Total	13	39

MS without Thesis

Section	Course title	Course	Credit hours
A	Foundation courses	3	9
B	Core courses	3	9
C	Electives	6	18
D	MS Project	1	3
	Total	13	39

The breakdown of foundation and core courses is as follows:

Section	Foundation courses (For students with non-CS background)	Course code	Credit hours	Pre-requisite
1	Introduction to Algorithms	CSF501	3	-
2	Database Management	CSF505	3	-
3	Application Development	CSF510	3	-

	Core courses			
1	Mathematics for Data Science	CSE601	3	Clear all foundation courses/ CS-background
2	Machine Learning - I (Supervised Learning)	CSE602	3	Clear all foundation courses/ CS-background
3	Big Data Analytics	CSE668	3	Clear all foundation courses/ CS-background

The potential list of offered electives is as follows:

	Electives (More courses may be added to this list)	Course code	Credit hours	Prerequisite
1	Probabilistic Reasoning	CSE655	3	Maths for DS, ML-1
2	Computational Intelligence	CSE659	3	Maths for DS, ML-1
3	Computer Vision	CSE660	3	Maths for DS, ML-1
4	Computational Intelligence	CSE659	3	Maths for DS, ML-1
5	Information Retrieval	CSE665	3	Maths for DS, ML-1
6	Deep Learning	CSE669	3	Maths for DS, ML-1
7	Social Network Analysis	CSE670	3	Maths for DS, ML-1
8	Deep Learning	CSE673	3	Maths for DS, ML-1
9	Text Analytics	CSE674	3	Maths for DS, ML-1
10	Machine Learning-II (Unsupervised Learning)	CSE603	3	Maths for DS, ML-1
11	Data and Information Visualization	CSE510	3	Completion of all core courses
12	Internet of Things	CSE565	3	Completion of all core courses
13	Cyber Security Operations	CSE582	3	Completion of all core courses
14	Cloud Security	CSE550	3	Completion of all core courses
15	Research Methodology	CSE640	3	Completion of all core courses

Note:-
- BS (CS/SE/IT) graduates are exempted from the foundation courses. For other candidates, the interview panel will decide which foundation courses are they exempted from.

- In each academic year, students with non-CS backgrounds will be inducted only in the Fall semester, and students with a CS background with be inducted only in the Spring semester.

The semester-wise breakup along with credit hours as follows:

	Semester 0 (Foundation courses)	Credit hours	Course type
1	Introduction to Algorithms	3	Foundation
2	Database Management	3	Foundation
3	Application Development	3	Foundation

	Semester 1	Credit hours	Course type
1	Mathematics for Data Science	3	Core
2	Machine Learning - I (Supervised Learning)	3	Core
3	Big Data Analytics	3	Core

	Semester 2	Credit hours	Course type
1	Elective 1	3	Elective
2	Elective 2	3	Elective
3	Elective 3	3	Elective

	Semester 3	Credit hours	Course type
1	Elective 4	3	Elective
2	Elective 5	3	Elective
3	Elective 6 or MS Thesis-I	3	Elective / Thesis

	Semester 4	Credit hours	Course type
1	MS Project or MS Thesis-II	3	Project / Thesis

For further details, please email at:
msds-queries@iba.edu.pk or msds@iba.edu.pk

Master of Science (MS) Mathematics

MS in Mathematics aims to provide a thorough background in theory, quantitative methods, and applications commensurate with international standards, offering the opportunity for more specialized training in selected areas of pure and applied mathematics.

Eligibility criteria

For the eligibility criteria, refer to pages **08-09**.

Duration

The minimum duration of the program is 2 years.

Part-time students

Students can also join the program on a part-time basis (i.e., those students who are not offered or opting for financial assistance) on the condition that they cannot register in more than 3 courses in semesters.

Requirements for the award of MS Mathematics degree

a) Complete 30 credit hours that include 24 credit hours (8 courses) of coursework and 6 credit hours of thesis.

b) Six courses (mentioned in the list) at the 500 level are core courses that every student must do.

c) In addition, a student must do two electives to be chosen from the list given at the 500 level. A student can also choose a PhD Mathematics course as an elective by acquiring approval from the Board of Studies Mathematical Sciences.

d) The eligibility for doing an MS thesis is a CGPA of 3.00.

e) Students who do not qualify for the eligibility criteria for doing an MS thesis will be required to do two additional courses (6 credit hours in addition) and graduate with an MS degree (without thesis). Such MS graduates would not be eligible for doing a PhD Mathematics in the future from IBA.

f) Public defense of the MS thesis and completion of the degree will be governed as per IBA's policy.

For further details, visit: **www.mathematics.iba.edu.pk**

Required courses

Course category	Courses	Credit hours
Core units	6	18
Elective units	2	6
Literature survey	1	3
Research work units	1	3
Total	10	30

MS without Thesis

Course category	Courses	Credit hours
Core units	6	18
Elective units	4	12
Literature survey	0	0
Research work units	0	0
Total	10	30

Semester-wise sequence of courses

	Spring Semester	Course code	Credit hours	Pre-requisite	Course type
1	Advanced Real Analysis	MTS511	3	-	Core
2	Topics in Algebra	MTS513	3	-	Core
3	Scientific Computing I of PDE's	MTS576	3	-	Core
4	Elective I	MTSxxx	3	-	Elective

	Fall Semester	Course code	Credit hours	Pre-requisite	Course type
1	Probability and Mathematical Statistics	MTS508	3	-	Core
2	Topics in Number Theory	MTS562	3	-	Core
3	Topology and Geometry	MTS575	3	-	Core
4	Elective II	MTSxxx	3	-	Elective

	Semester 3 and 4	Course code	Credit hours	Pre-requisite	Course type
1	MS Thesis (With literature survey)	MTS699	6	-	Elective

Elective courses

S.No	Courses	Course code	Credit hours	Pre-requisite
1	Non Linear Dynamics and Chaos	MTS507	3	MTS203, MTS 241
2	Measure Theory and Integration	MTS512	3	MTS512
3	Topics in Commutative Algebra	MTS514	3	MTS513
4	Scientific Computing	MTS521	3	-
5	Stochastic Processes II	MTS525	3	MTS304
6	Stochastic Differential Equations	MTS529	3	MTS304
7	Topics in Commutative Algebra	MTS514	3	MTS513
8	Integral Equations-I	MTS533	3	-
9	Mathematical Astronomy	MTS537	3	-
10	Homological Algebra	MTS539	3	MTS513
11	Computational Algebraic Geometry	MTS541	3	MTS513
12	Applicable Modern Geometry I	MTS545	3	MTS511, MTS513, MTS616

S.No	Courses	Course code	Credit hours	Pre-requisite
13	Algebraic Geometry I	MTS549	3	MTS514
14	Scientific Computing and Software	MTS551	3	MTS521
15	Algebraic Cycles I	MTS553	3	MTS513
16	Arithmetic Algebraic Geometry	MTS557	3	MTS513
17	Exploratory Data Analysis	MTS561	3	-
18	Mathematical Physics I	MTS565	3	-
19	Statistical Data Mining and Knowledge Discovery	MTS569	3	-
20	Statistical Machine Learning	MTS573	3	-
21	Galois Theory	MTS577	3	MTS513
22	Smooth Manifolds	MTS581	3	MTS510

*The departmental Board of Studies is authorized to introduce any new course added to the above list as and when required. Note: Any course of 600 level of Mathematics could be treated as an MS Mathematics elective.

PhD Computer Science

PhD in Computer Science aims to carry out cutting-edge research in the field of Computer Science, gaining recognition for it and maintaining social and corporate networks in the field of study. The IBA Department of Computer Science offers PhD programs in the following areas: Artificial Intelligence and Cognitive Robotics, Computer Vision, Bioinformatics, Wireless and Mobile Communications, Social Computing, Operations Research, Management Information System, Numerical Analysis and Computing, Multimedia and Web, and Human Computer Interaction.

The PhD-CS program aims at encouraging graduate students who can make a significant contribution to their field through original research. By being a part of this program, students will get an opportunity to establish linkages with international researchers, publish scholarly articles and attend reputed conferences worldwide in the selected discipline. Students' quantitative and qualitative research capabilities will be polished and interdisciplinary research along with interaction with the local industry will always be encouraged.

The PhD-CS program motivates independence and originality of thought in the research process. The program requires a residency of at least two years, where students are expected to complete a specially designed program comprising advanced courses. During the residency program, students are expected to attach themselves to a supervisor in their field of specialization.

Eligibility criteria

For the eligibility criteria, refer to page **10.**

	Program	Courses	Credit hours
A	**Course Work** [1,2]	**6**	**18**
B	**Dissertation**	**-**	**12**

Rules:

- It is recommended that the coursework should be completed during the first 3 semesters after admission.

- Students can take a maximum of 4 courses (12 credit hours) in each semester.

Courses*

Course title	Course code	Credit hours	Pre-requisite
Machine Learning – I	CSE602	3	
Machine Learning – II	CSE603	3	
Bioinformatics Algorithms	CSE607	3	-
Advanced Analysis of Algorithms	CSE651	3	-
Combinatorial Optimization	CSE654	3	-
Probabilistic Reasoning	CSE655	3	-
Computational Intelligence	CSE659	3	-
Semantic Web	CSE661	3	CSE665
Parallel Processing	CSE662	3	-
Information Retrieval and Web Search-I	CSE665	3	-
Information Retrieval and Web Search-II	CSE666	3	-
Big Data Analytics	CSE668	3	CSE248, MTS102
Deep Learning	CSE669	3	ICT651
Social Network Analysis	CSE670	3	CSE141, CSE248, MTS102
Computer Communication Network and Simulation	ICT651	3	ICT659
Computer Communication Network and Simulation II	ICT654	3	CSE248
Wireless Sensor Networks	ICT659	3	-
Advanced Topics In Wireless Sensor Networks	ICT660	3	-
WSN Protocols And Applications	ICT662	3	MIS651
Theoretical Foundations of IS	MIS651	3	-
Advanced Research Topics In IS	MIS652	3	-
Advanced Theoretical Concepts in IS	MIS653	3	-

*It is a partial list of courses

PhD Mathematics

PhD in Mathematics aims to polish an individual's skills of using Mathematics as a compact language to describe problems in any area. This enables them to theoretically expand the frontiers to create new and formerly unknown avenues in this discipline.

Eligibility criteria
For the eligibility criteria, refer to page **10**.

Duration
The minimum duration of the program is 4 years and the maximum time allowed is 8 years.

Other rules
- A PhD student must spend at least the first two years in the IBA as a full-time PhD scholar. Failing in doing so will result in termination from the program.

- PhD students will be required to do six courses (chosen from the list below) at 600 level as suggested by the research supervisor and/or Board of Studies Mathematical Sciences.

Courses
The Board of Studies Mathematical Sciences is authorized to introduce any new courses added to the following list as and when required. On successful completion of the course work with a CGPA of at least 3.00, the candidate qualifies to work on the PhD dissertation. Failing to achieve this qualification, the candidate would be allowed to improve his/her CGPA by doing two of their courses again. In view of the candidate's request and recommendation of the Board of Studies Mathematical Sciences, the candidate may do any other two courses to bring their CGPA to the required level.

Comprehensive test
The comprehensive examination would be taken anytime in the first two years of PhD.

Disqualification
If the candidate fails to qualify for working on a PhD dissertation, they may be awarded an MS degree on the recommendation of the supervisor/Board of Studies Mathematical Sciences.

Defense of PhD thesis proposal and thesis
PhD thesis proposal would have to be defended in front of two national examiners (selected and approved by BOS and BASR). Public defense of the PhD thesis and completion of the degree will commence after the thesis has been examined by two foreign external examiners (who will be selected as per the HEC policy).

For further details, visit: www.mathematics.iba.edu.pk

List of courses

	Courses	Course code	Credit hours	Pre-requisite
1	Numerical Treatment of P.D.E.	MTS621	3	MTS515
2	Financial Mathematics	MTS625	3	MTS537
3	Computational Astronomy	MTS637	3	MTS545
4	Applicable Modern Geometry II	MTS645	3	MTS549
5	Algebraic Geometry II	MTS649	3	MTS553
6	Algebraic Cycles II	MTS653	3	MTS366
7	Algebraic Curves	MTS655	3	MTS557
8	Iterative Methods for Sparse Linear Systems	MTS656		MTS525

S.No	Courses	Course code	Credit hours	Pre-requisite
1	Numerical Treatment of P.D.E.	MTS621	3	MTS515
2	Financial Mathematics	MTS625	3	MTS537
3	Computational Astronomy	MTS637	3	MTS545
4	Applicable Modern Geometry II	MTS645	3	MTS549
5	Algebraic Geometry II	MTS649	3	MTS553
6	Algebraic Cycles II	MTS653	3	MTS366
7	Algebraic Curves	MTS655	3	MTS557
8	Iterative Methods for Sparse Linear Systems	MTS656	3	MTS525
9	Poly logarithms	MTS657	3	MTS565
10	Timescale calculus	MTS658	3	MTS451
11	Computational Fluid Dynamics	MTS659	3	MTS514
12	Multivariate Statistical Analysis	MTS661	3	MTS539
13	Analysis on Manifolds	MTS662	3	MTS242, MTS203
14	Plane Curves and Singularities	MTS664	3	MTS515
15	Mathematical Physics II	MTS665	3	MTS537
16	Advanced Topology	MTS666	3	MTS545
17	General Relativity and Cosmology	MTS667	3	MTS549
18	Scientific Programming	MTS668	3	MTS553
19	Convex Analysis	MTS669	3	MTS366
20	Algebraic Number Theory	MTS670	3	MTS557
21	Monomial Algebra	MTS671	3	MTS525
22	Topics in Homological Algebra	MTS672	3	MTS565
23	Computational Continuum Mechanics	MTS673	3	MTS451

S.No	Courses	Course code	Credit hours	Pre-requisite
24	Algebraic Topology	MTS674	3	MTS514
25	Category Theory	MTS606	3	MTS539
26	Quantum Mechanics I	MTS675	3	MTS 242, MTS 203
27	Special Relativity	MTS676	3	MTS515
28	De Rham Cohomology	MTS677	3	MTS537
29	Topics of Special Interest I	MTS691	3	MTS545
30	Topics of Special Interest II	MTS692	3	MTS549
31	Topics in Homological Algebra	MTS621	3	MTS553
32	Computational Algebraic Topology	MTS681	3	

Students enrolled in Spring 2023

Undergraduate

Programs	Enrollments	Male students	Female students
Bachelor of Business Administration	1016	562	454
BS Accounting and Finance	919	632	287
BS Computer Science	639	472	167
BS Economics	456	256	200
BS Economics & Mathematics	220	122	98
BS Social Sciences & Liberal Arts	344	100	244
BS Mathematics	19	12	7
Total	**3613**	**2156**	**1457**

Graduate

Programs	Enrollments	Male students	Female students
MBA - Evening	309	248	61
MBA - Morning	155	90	65
Executive MBA	207	166	41
MS Computer Science	62	45	17
MS Development Studies	18	9	9
MS Data Science	75	55	20
MS Economics	27	17	10
MS Finance	18	15	3
MS Islamic Banking & Finance	40	30	10
MS Management	29	6	23
MS Mathematics	23	13	10
MS Marketing	8	0	8
Total	**971**	**694**	**277**

Postgraduate

Programs	Enrollments	Male students	Female students
PhD Computer Science	33	15	18
PhD Economics	20	15	5
PhD Mathematics	22	15	7
Total	**75**	**45**	**30**

Undergraduate Programs		Graduate Programs		Doctoral Programs		Total
3613		971		75		
Male	Female	Male	Female	Male	Female	
2156	1457	694	277	45	30	**Total**
Total Male Students	2895	Total Female Students	1764			
Male Students	62%	Female Students	38%			**4659**

Calendar of Holidays

Gazetted/Public holidays 2023

|	
Ashura*	July 28 to 29, 2023
Independence Day	August 14, 2023
Eid Milad-un-Nabi*	September 29, 2023
Birth anniversary of Quaid-e-Azam/Christmas	December 25, 2023

Local/Optional holidays 2023

Urs of Shah Abdul Latif Bhitai (14 Safar)**	September 01, 2023
Death anniversary of late Benazir Bhutto**	December 27, 2023

Gazetted/Public holidays 2024

Kashmir day	February 05, 2024
Pakistan day	March 23, 2024
Eid-ul-Fitr*	April 10, 11 & 12, 2024
Labour day	May 01, 2024
Eid-ul-Azha*	June 17, 18 & 19, 2024
Ashura*	July 16 & 17, 2024
Independence Day	August 14, 2024
Eid Milad-un-Nabi*	September 16, 2024
Birth anniversary of Quaid-e-Azam/Christmas	December 25, 2024

Local/Optional holidays 2024

Death anniversary of late Zulfiqar Ali Bhutto**	April 04, 2024
Urs of Shah Abdul Latif Bhitai (14 Safar)**	August 19, 2024
Death anniversary of late Benazir Bhutto**	December 27, 2024

* Subject to moon sighting
** Subject to receiving notification from the Government of Sindh

Excerpts of the academic calendar 2023-24

Orientation Fall 2023	August 16 to 19, 2023
Fall Semester 2023	August 21, 2023 to December 14, 2023
Convocation 2023	December 02, 2023
Orientation Spring 2024	January 14, 2024
Spring Semester 2024	January 15, 2024 to May 13, 2024
Summer Semester 2024	June 12, 2024 to July 31, 2024
Orientation Fall 2024	August 15 to 18, 2024
Fall Semester 2024	August 19, 2024
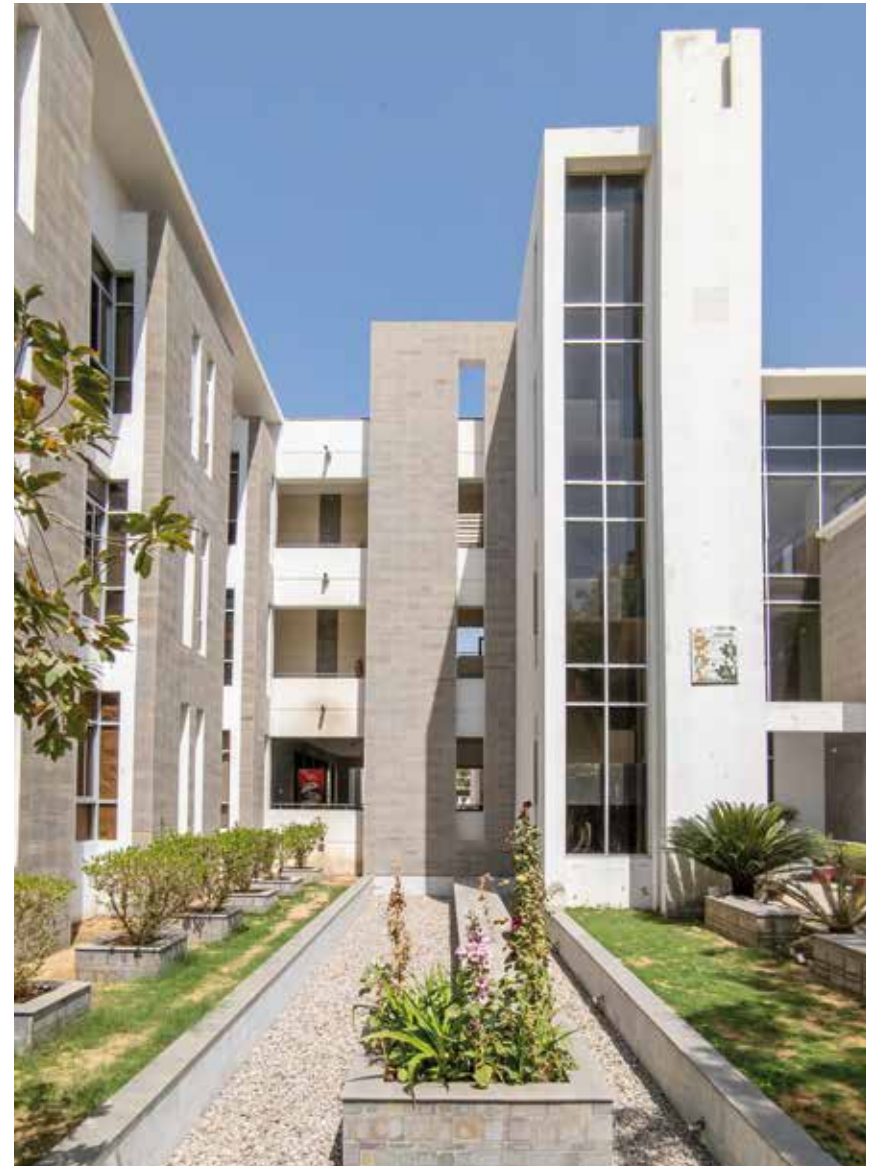
Institute of
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