



Catalog
2026-2027

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Institute of Business Management

Catalog 2026-2027

VISION / MISSION STATEMENT

IoBM Vision

We aspire to be one of the leading institutions, nationally and internationally, for learning, research, innovation, and adding value to society.

IoBM Mission Statement

We strive to develop future leaders by providing innovative education, fostering critical thinking, and cultivating entrepreneurship while emphasizing ethical practices. Our mission is to equip learners with the knowledge, skills, and values through excellence in learning, teaching, and innovation to prepare them for dynamic local and global challenges. We are committed to advancing impactful research that addresses real-world problems and contributes to sustainable solutions, driving both economic and societal progress. We also aim to create an enabling environment for inclusive growth by embracing technology, promoting interdisciplinary collaboration, and actively engaging with society to create meaningful change

IoBM Core Values

- L- Learning
- I- Integrity
- M- Motivation
- I- Innovation
- T- Teamwork
- L- Leadership
- E- Excellence
- S- Sustainability
- S- Service

WE ARE LIMITLESS

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AN INTRODUCTION TO THE INSTITUTE OF BUSINESS MANAGEMENT

This catalog will provide you with valuable, up-to-date information about the programs of study and courses offered by the Institute, as well as information about the fee structure, facilities and student services available to students.

The catalog gives an introduction to life at IoBM as well as detailed information on all undergraduate and graduate level programs along with core courses, electives and specialized courses. Every effort is made to update information on courses in the catalog. However, changes in curricula may be necessary as part of a process of continuous improvement and the need to keep each program fully aligned with academic and professional developments. For this reason, the Institute reserves the right to make necessary alterations in courses and/ or course structures, after clearing them with the concerned Boards of Studies. Teaching methodology, academic and research programs, assessment procedures and course descriptions also form part of the catalog.

The catalog also lists the facilities at computer labs, library resources, student support services besides providing information relating to and course registration procedures. Information regarding opportunities for financial assistance and stipends for students is also included. The latter part of the catalog contains brief profiles of academic and administrative personnel.

IoBM: 1994 - 2026

The Foundation for Higher Education was established as a non-profit institution in 1994 by a group of dedicated citizens of Karachi, and was registered under the Societies Registration Act of 1860. The Foundation promotes the dissemination of quality education. Its first project was the setting up of a management university designed to serve trade, industry and commerce by producing highly competent and talented business executives. Teaching began at the College of Business Management (CBM), IoBM's first constituent college, in September, 1995.

In January 1998, a bill was unanimously approved by the Sindh Provincial Assembly for establishing a university known as the Institute of Business Management in the private sector. At present, the Institute has four constituent colleges, the College of Business Management (CBM), the College of Computer Science & Information Systems (CCSIS), the College of Economics & Social Development (CESD) and the College of Engineering and Sciences (CES). Since 2006, the Institute has been ranked as one of the top universities in the private sector, both by the Higher Education Commission of the Federal Government and the Sindh Provincial Government. From 2010 to 2015, we have been honored with prestigious awards of EDUNIVERSAL Palms given for meritorious evaluation and certification of educational institutions around the world. The Institute is a member of the International Association of Universities (IAU), Association to Advance Collegiate Schools of Business (AACSB) and other international and national organizations.



The Governor of Sindh is an ex-officio Patron and the Chancellor, Mr. M. Bashir Janmohammad is also the Chairman of the Board of Governors and Chancellor of the Institute. The other members of the Board are:

- Mr. Talib Syed Karim, President, IoBM
- Chairman, Higher Education Commission
- Secretary, Universities & Boards Department, Government of Sindh
- Mr. Jahangir Siddiqui
- Mr. Muhammad Ali Tabba
- President, Pakistan Stock Exchange
- President, Federation of Pakistan Chambers of Commerce & Industry
- President, Karachi Chambers of Commerce & Industry
- Mr. Muhammad Sharif
- Mr. Masood Hashmi
- Mr. Sikandar Sultan
- Ms. Aameena Saiyid
- Prof. Dr. Noshad Ahmed Shaikh
- Prof. Dr. Tariq Rahim Soomro, Rector
- Mr. Nabhan Shah Karim, Acting Director QEC (non-voting)
- Dr. Seema Ansari Director ORIC (non-voting)

The Institute offers, through its College of Business Management (CBM), a four year BBA (Honors) and a two year MBA degree program with specialization in Marketing, Finance, Human Resource Management and Management Information Systems, Health & Hospital Management, Pharmaceutical Administration, Media Management, Industrial Management and Telecommunication Management. BS (Honors) Economic & Finance, Accounting & Finance and BS Social Entrepreneurship and Social Leadership are also offered. A research degree, an MPhil leading to PhD, is offered in Finance, Human Resource Management, Marketing, Education, Psychology and Management Information Systems. A four year Bachelor of Computer Science (Honors), followed by a two years Master of Computer Science and MBA in Finance & Risk Management, BS in Mathematics & Economics and BS Data Science are offered through the College of Computer Science & Information Systems (CCSIS). The College also offers programs in Industrial Engineering & Management, Actuarial Science & Risk Management, Telecommunication Engineering & Management and Financial Mathematics & Statistics. The College of Economics and Social Development (CESD) offers a BS program in Commerce, Media Studies, B.Ed, MBA in Educational Management and MSc leading to MPhil in Economics. College of Engineering and Sciences (CES) offers a program in Electrical Engineering.

The emphasis of IoBM is on research. It publishes the country's first business policy and research journal, Pakistan Business Review, which is recognized by the HEC as well as internationally recognized as Pakistan's first business policy and research journal, Pakistan Business Review. Pakistan's Journal of Engineering Technology and Science is accordingly brought out by the CCSIS whereas the CESD is responsible for yet another publication: the Journal of Education and Educational Development. Students and faculty contribute regularly to its pages. A research seminar is organized on a weekly basis. IoBM is the first business school where foreign language courses, Arabic, French, Spanish, Italian or Chinese were made compulsory in the BBA and BCS programs. The Institute has competent and dedicated faculty with the majority holding foreign degrees. An international seminar funded by the HEC is organized on an annual basis. IoBM Academic programs are up to date and comprehensive in concept and structure, resembling honors programs offered in the UK and graduate programs of US Universities. IoBM has extensive links with a number of global universities. Professors from these universities have served as Chief Academic Officers of IoBM.

Since 1998, more than 9,000 students have graduated from IoBM. Most of them occupy key positions in leading national and multinational firms including Habib Bank, Faysal Bank, Standard Chartered, PIA, Engro, Berger Paints, Geo TV, National Bank of Pakistan, Unilever, IBM, ICI, SmithKline & Beecham, Aga Khan University Hospital, Karachi Stock Exchange and different provincial and federal government departments. Many graduates have proceeded for their post-graduate program to reputable universities in the UK and USA. More than 400 students go for compulsory internships every year to national and multinational organizations.

Office of Research Innovation & Commercialization - Entrepreneurship & Management Excellence Center (ORIC) / (EMEC) and Centre of Information Technology (CIT) of the Institute organizes professional education, training and research programs with a view to serving the corporate sector to enhance both its profitability and contribution to society. Support is provided in the areas of banking and finance, marketing, human resource development and information systems management.

The Institute has come a long way since its inception. There are over 5500 students on our campus which is large, purpose-built and located at Korangi Creek on an 11 acre site and comprises the Business College building, the Administration and Entrepreneurship & Management Excellence Center building, CCSIS building, a Convocation Center, the Student Activity Center, a five-storeyed library building, Industrial Engineering and Management building, a mosque and CESD building. Another nine acre site has been acquired at a distance of 1 km from the present campus. Shahjehan S. Karim Center of Excellence, a basement, ground plus five storeyed building was completed in June 2017.

At the Institute's fourth convocation in December, 2001, an honorary degree of Doctorate of Philosophy was conferred upon Dr. Nafees Sadik, former Executive Director, United Nations Population Program. At the fifth convocation held in December, 2002, an honorary degree was conferred on our keynote speaker, Mr. Babar Ali, Pro-Chancellor, Lahore University of Management Sciences (LUMS), and at the ninth convocation an honorary degree was conferred on Dr. Goolam Mohamedbhai, President, International Association of Universities (IAU). The sixth convocation was held in December 20, 2003 with Dr. Atta-ur-Rahman, Chairman, Higher Education Commission and Minister for Science & Technology as the Chief Guest and MS Musharaf Hai, Chairperson, Unilever Pakistan Limited as the keynote speaker. The seventh convocation was held on December 18, 2004 with the Governor of Sindh as the Chief Guest and Mr. Hameed Haroon, Chief Executive Dawn Group of Newspapers as the keynote speaker. Over 300 students were awarded BBA (Hons), BCS (Hons), BS (Accounts), MBA and MCS degrees at this convocation.

The eighth convocation was held on December 17, 2005 with the Minister for Education, Sindh, as the chief guest and Syed Ali Raza, President, National Bank of Pakistan, as the keynote speaker. Over 400 students were awarded degrees on the occasion. The ninth convocation of the Institute was held on December 16, 2006 with the Education Minister as the Chief guest and Dr. Goolam Mohamedbhai President, IAU, as the keynote speaker. Over 450 students were awarded degrees. The tenth convocation was held on December 8, 2007, where Mr. Jose Manuel Salazar-Xirinachs, Executive Director of the International Labour Organization, Geneva was the keynote speaker and over 500 students were awarded degrees.

The eleventh convocation was held on December 6, 2008 where the Governor, State Bank of Pakistan was the keynote speaker and Governor Sindh, Dr. Ishrat ul Ebad was the Chief guest. Over 700 degrees were awarded on the occasion. Syed Qaim Ali Shah, Chief Minister of Sindh and Mr. Nisar Ahmed Khuhro, Speaker Sindh Assembly attended the twelfth convocation of the Institute, held on December 05, 2009. The keynote speaker was Mr. Shaharyar Muhammad Khan, former Foreign Secretary and former Chairman of the Pakistan Cricket Board. As many as 927 graduates were awarded degrees. The thirteenth convocation was held on December 4, 2010. The chief guest on the occasion was Dr. Abdul Hafeez Shaikh, Minister for Finance, Revenue, Economic Affairs & Statistics and the keynote speaker was Dr. Javaid R. Laghari, Federal Minister / Chairperson of the Higher Education Commission of Pakistan.



The fourteenth convocation was held on December 10, 2011. Over 983 degrees were awarded to students. The chief guest on the occasion was Dr. Shamsh Kassim-Lakha, Founding President and Trustee of AKU and the keynote speaker was Mr. Javed Jabbar, Chairman and Chief Executive, JJ Media (Pvt.) Ltd. The fifteenth convocation was held on December 08, 2012. Over 825 degrees were awarded to students. The keynote speaker was Mr. Shahid Aziz Siddiqui, Chairman and CEO, State Life Insurance Corporation of Pakistan. The sixteenth convocation was held on December 07, 2013. Over 850 degrees were awarded to students on the occasion. The Chief guest was Mr. Nisar Ahmed Khuhro, Senior Minister for Education, Govt. of Sindh, the keynote speaker was Dr. Kakha Shengelia, President, Caucasus University Republic of Georgia and Mr. Munir Kamal, Chairman National Bank of Pakistan was the guest of honor.

The seventeenth convocation was held on December 07, 2014. Over 850 degrees were awarded to students on the occasion. The chief guest was Mr. Nisar Ahmed Khuhro, Senior Minister for Education, Govt. of Sindh, the keynote speaker was Mr. Muhammad Aliuddin Ansari, President & Chief Executive Officer of Engro Corporation. The eighteenth convocation was held on December 12, 2015. Over 900 degrees were awarded to students. The chief guest was Mr. Muhammad Mian Soomro, Former President of Pakistan and the keynote speaker was Mr. Kamal A. Chinoy, Chief Executive of Pakistan Cables Limited at the event. The nineteenth convocation was held on December 10, 2016. Over 950 degrees were awarded to students. The guest of honor was Mr. Jam Mehtab Hussain Dahar, Minister for Education & Literacy, Government of Sindh, and the keynote speaker was Mr. Sirajuddin Aziz, President Habib Metropolitan Bank Ltd. Dr. Mukhtar Ahmed, Chairman Higher Education Commission (HEC) also attended the convocation. The twentieth convocation was held on December 09, 2017. Over 1000 degrees were awarded to students. The chief guest was Mr. Muhammad Zubair, Governor of Sindh and keynote speaker was Mr. Khalid Nawaz Awan, Chairman of TCS at this Convocation.

The twenty-first Convocation was held on December 08, 2018. Over 1000 degrees were awarded to students. The keynote speaker was Mr. Kimihide Ando, Senior Vice President and CEO, Mitsubishi Corporation. The twenty-second Convocation was held on December 07, 2019. Over 1000 degrees were awarded to students. The keynote speaker was Mr. Shazad Dada, CEO/Executive Director, Standard Chartered Bank, Pakistan. The twenty-third convocation was held on January 30, 2021. This Convocation was hybrid where only PhD, MS/MPhil Graduates and Gold Medalists were invited, over 1450 degrees were awarded to students. Mr. Imran Ismail, Governor Sindh, delivered his recorded speech. The Keynote Speaker was Mr. Muhammad Ali Tabbba, CEO, Lucky Cement. The twenty-fourth convocation was held on December 11, 2021. Over 1250 degrees were awarded to students on the occasion. The chief guest was Mr. Imran Ismail, Governor of Sindh, the Guest of Honour was Mr. Muhammad Azfar Ahsan, Minister of State and Chairman of Board of Investment and the Keynote Speaker was Mr. Amir Paracha, Chairman, Unilever Pakistan Limited at this Convocation.

The twenty-fifth Silver Jubilee Convocation was held on December 10, 2022. The Chief Guest was Mr. Kamran Tessori, Governor of Sindh, the Guest of Honour was Mr. Muhammad Aurangzeb, President and CEO, Habib Bank Limited and the Keynote Speaker was Mr. Abid Vazir, Director and COO, Cherat Packaging Limited at this Convocation. The twenty-sixth Convocation was held on December 9, 2023. The Keynote Speaker was Mr. Rizwan Ahmed Shaikh, CEO, Saudi Pak Industrial Agricultural Investment Company at this Convocation.

The twenty-seventh Convocation was held on December 14, 2024. The Governor of Sindh, Mr. Kamran Tessori was the Chief Guest. The Guest of Honor was Dr. Gohar Ejaz, CEO, Ejaz Group of Companies. Mr. Anwaar-ul-Haq Kakar, Senator and Former Caretaker Prime Minister of Pakistan also addressed the Graduates and The Keynote Speaker was our Alumni, Ms. Yasmin Fasih, Regional Human Resource Manager, Asia Pacific, Operations Maersk at this Convocation.

The twenty-eighth Convocation was held on December 6, 2025. The Guest of Honor was Dr. Sulaiman Shahabuddin, President, The Aga Khan University. The Keynote Speaker was our Alumnus, Mirza Salman Beg, CEO, Enterprising Manufacturing Company and the Valedictorian was Ammar Shahkar Sayied of BBA (Honors) at this Convocation.

Shahjehan S. Karim Center of Excellence

A six storeyed (basement, ground plus five floors) centrally air-conditioned building with a covered area of 152,000 sq.ft and an open area of 15,000 sq.ft. houses 22 classrooms, 68 faculty offices, examination department with two examination halls of 11000 sq.ft, laboratories, media studio of 2,576 sq.ft, seminar rooms, training halls, gymnasium, 8 (food) kiosks with 180 seating capacity and 22 hostel rooms for students and faculty.



WHY CHOOSE IOBM?

IoBM is one of the premier universities of the country. Not only does it offer academic excellence but its peaceful location - part city, part countryside - is ideal for reflection as well as camaraderie. The lay-out of the campus, where the buildings are connected by a leafy and partially winding driveway, has a charm of its own. The buildings themselves, a rich terracotta pink, are spacious and attractively designed. The breezy interior of the CBM building, with its twists and turns and its 'all-hands-on-deck' sense, is especially appealing. Tastefully landscaped with the help of nature - and sculpture - the IoBM campus is both homely and gracious. To the many students who form part of its fraternity, it is a home away from home.

The academic laurels IoBM has won are equally impressive. IoBM was rated one of the country's top universities by the Higher Education Commission of the Federal Government as well as the Government of Sindh. IoBM has also been the proud recipient of two Eduuniversal Palms, awarded to it at the international convention of Deans of Business Colleges in recognition of its being one of the two best Business Schools since 2010.

In addition, IoBM is an active member of the International Association of Universities (IAU), the International Association of University Presidents (IAUP), the Association to Advance Collegiate Schools of Business (AACSB), the Association of Commonwealth Universities (ACU), besides being associated with other international academic organizations. IoBM has also established links and made a name for itself among reputed foreign business schools in relation to the sharing and contributing of ideas on and insights into business education and research.

The programs we offer include MBA and MBA (Evening) programs in diverse fields. These are held at weekends and lay a special emphasis on the requirements of busy executives and those who, having come to the end of one career, wish to move to a new one. IoBM also offers programs in Health and Hospital Management, Finance and Risk Management, Industrial Management, Telecommunication Management, Environment and Energy Management, Organizational Psychology, Economics and many other disciplines. IoBM faculty excel in their different fields. They transmit their expertise in scholarship and research to students, providing them with a developed understanding of their respective disciplines.

Students have access to excellent facilities and learning resources as IoBM continually invests in its library, gym, sports facilities, computer equipment, Wi-Fi facility, video conferencing, state-of-the-art campus buildings and subsidized transport facilities.

IoBM has earned its reputation through an excellent internship and graduate employment record. Rigorous degree courses enable graduates to acquire depth in their chosen subjects and open up wide career choices. A large number of IoBM graduates join top business schools in Europe, USA and Canada.

Research is a core competence at IoBM and is carried out in diverse fields. IoBM publishes the research quarterly, Pakistan Business Review (PBR) which is recognized by the Higher Education Commission (HEC) as category 'X' and ECONLIT, the Journal of Economic Literature, USA.

Annually held, HEC- financed international conferences provide a platform for the presentation of research undertaken at IoBM. The Pakistan Journal of Engineering Technology & Science and the Journal of Education & Educational Development recognized by HEC as Category 'X' are also brought out by IoBM. IoBM is connected with PERN2, a high -speed dedicated National Research & Education Network (NREN) for universities and other academic institutions of Pakistan.

"The essence of IoBM's academic programs pertains to career focused education towards Individual fulfillment, professional excellence, institutional credibility, family welfare and social responsibility. The net result is reflected in the net product. IoBM's credibility speaks for itself."

Shahjehan S. Karim
Founder President
Institute of Business Management



IoBM's Academic Strategies

21st century has seen explosion of knowledge and has forced integration of disparate fields: Social interactions connect with digital networks; philosophy connects with computer science, psychology with clicks and likes, education with virtualization, robotics with medicine, banking with mobile companies, and so on. Environmental future is now linked with social sustainability, which in turn is linked with economic and financial sustainability. These linkages have been created with the exponential growth of IT and communication technologies, that have stimulated multi-dimensional interactions among businesses, industry, social-life and governance. To study these interactions, IoBM as a multi-dimensional educational institution offers cross-disciplinary programs and specializations. These include Business Psychology, Education Management, Finance and Economics, Islamic Finance and Banking, Engineering Management, Accounting and Law, Health and Hospital Management, Environment and Energy Management, Economics and International Relations etc. These and other discipline-based programs in business, computer science, engineering, economics, education and media are offered by the four colleges or faculties of IoBM.

Convergence of previously separate fields is also causing massive disruption and displacement of jobs accompanied by obsolescence of skills and knowledge requirements. Disruption of 20th century life-long career jobs in brick and mortar companies are also creating massive entrepreneurial opportunities for innovative business ventures, social enterprises and rethinking and reorganization of government, industry and society. This is reflected in IoBM's strategic focus on creativity and innovation through business entrepreneurship, social entrepreneurship and leadership, technology entrepreneurship and entrepreneurial engineering through EMEC.

Knowledge is doubling every 12 months and soon would be doubling every 12 hours. Hence, regurgitation of the knowledge obtained from a traditional classroom lecture is fast becoming obsolete before it is absorbed. Hence, IoBM's mission focuses on the development of graduates who are life-long self learners, who can quickly learn new knowledge and customize it to meet the fast changing requirements of their careers. Hence, IoBM has a strategic focus on blended, experiential, project based, and case based and other learning technologies.

IoBM's vision is to be among the leading educational institution locally and internationally. To achieve this vision, IoBM strives to contribute to the development of economy and society through innovative research, faculty development, and impactful engagement with industry and society; nationally and globally. Hence, it is actively pursuing international accreditations such as AACSB and QS Ranking, and its programs are accredited by national accreditation councils such as PEC, NBEAC, NCEAC, NACTE and regulatory bodies such as HEC and CIEC. Its ORIC and incubation centre are duly recognized by HEC.

RESOURCES AND FACILITIES

The Institute of Business Management has a purpose-built twenty acre campus, located in the serene and secure surroundings of Korangi Creek, Karachi. The College of Business Management building, covering an area of 85,000 sq. ft., is equipped with state-of-the-art teaching equipment to enable the Institute to keep pace with the dynamics of the global market. All classrooms are equipped with internet and intranet facilities. IoBM is a Wi-Fi campus. The campus buildings are centrally air-conditioned and have all been self-financed with no outside assistance or donation. A separate centrally air-conditioned modern Administration and Entrepreneurship & Management Excellence Center building, with a covered area of 26,900 sq.ft., was completed in 2001. Another centrally air-conditioned building with a covered area of 31,655 sq.ft., houses the College of Computer Science and Information Systems and has been operational since 2002. The Convocation Center was completed in November, 2002, and the Students Activity Center building in September, 2003 which has a second floor housing 10 faculty residential suites for visiting scholars and was completed in January, 2006. The library building has been operational since January, 2005. A separate building houses the department of Industrial Engineering & Management. A new 150, 000 sq. ft. SSK Center of Excellence has recently been added to the existing buildings on campus. The Institute provides students with subsidized transportation to and from the campus through conveniently located pick and drop points all over Karachi. Girls are provided this facility to and from their homes. The campus also has ample car parking facilities.

Life at IoBM

Student life at IoBM is much more than just academics, presentations, reports, midterms, and final exams. In fact, there's a whole range of entertainment and events organized by students throughout the year. Students on campus are genuinely interested in cultural vibrancy and fostering a sense of community. Amidst the busy academic schedule, there are seminars, talk shows with guest speakers, fundraising bake sales, fun stalls, CBMUN, plantation drives, stand-up comedy shows, and much more. There's always something happening and you can never get enough of it.

There are sixteen student societies at IoBM that serve the interests of specific students: Canvas - The Creative Hub of IoBM, CBM Society of Health Managers (CHSM), Digicon Informatics Society (DIS), Egalitarians (Economics Society), Entertainment Plus Society (EPS), Finance Society, IoBM Club of Entrepreneurs (ICE), Literary and Public Speaking Society (LPSS), IoBM Marketing Society (IMS), Mathematics Society, Social Welfare and Trust (SWAT), Society of Excellence and Technologies (SET), Strategic Human Resource Society (SHRS), Sustainable Living Society (SLS), The Dialogue Society (TDS), "Vanquishers" Sports Society.

Each Society is headed by a faculty advisor who is a senior member of the faculty or management, along with a team of student office bearers.

Sports at IoBM

IoBM provides its students and staff with a range of sports facilities, including both indoor and outdoor options. The indoor sports facilities include table tennis, snooker, a male gym, a female fitness & aerobics room, a chess room, carrom, ludo, scrabble, foosball, badminton, throwball, volleyball, and squash court. The outdoor sports facilities include basketball, volleyball, throwball, futsal, hardball cricket nets, tape ball cricket, dodgeball, and tug of war.

IoBM students actively participate in Higher Education Commission (HEC) Intervarsity Championships and various events organized by other universities and institutions, both locally and nationally. IoBM sports teams have earned numerous laurels in HEC Intervarsity and Inter-University Championships.



Computing Facilities

One of the strengths of the IoBM program is the incorporation of information technology as a key component of the curriculum. The academic programs offered by the Institute require students to obtain hands on experience in computers and develop a high level of expertise in this field. The Information Systems Department (ISD) of the College of Computer Science and Information Systems provides administrative, networking and technical support to faculty and students. The College of Computer Science and Information Systems building includes a number of computer laboratories with around four hundred & twenty workstations. It is fully equipped with satellite/ radio-linked e-mail, Wi-Fi facilities and internet facilities for all students, faculty and staff.

Dr. Ahmer Syed Karim Library

The IoBM library, an ideal setting for learning and research, serves as a repository for a rich array of both traditional and electronic information services. A distinctive strength is its rich spectrum of resources, including a large number of books, journals, periodicals, reference material, audio-visual material, government documents and reports catering to the scholarly needs of students, faculty and researchers. Its pleasant and conducive-to-learning environment accommodates 350 students and 54,800 books. All library resources are searchable through online catalogue managed by (OPALS) the library management system. Students are provided with internet workstations and rooms for group study. Of the many recent initiatives by IoBM are its access to a large number of e-resources through the HEC Digital library and online journals through JSTOR e-database. The library also provides access to print and online journals through subscription to a number of business, marketing, management and HRM journals. In addition to the main library, the Learning Resource Center in the Academic block caters to the scholarly requirements of M Phil and PhD programs. The library is engaged in numerous projects to expand access to its physical and digital collections. Skill development sessions are conducted for students and faculty from time to time. The library projects in the pipeline include development of a portal of web links, just a click away, on the desktops of faculty and students.

IoBM Wellness Center

The establishment of a “Wellness Center” at IoBM is aimed to foster the well-being and mental health of the students. The main purpose is to help students to succeed and improve by providing support for the psychological, emotional, social, and behavioral issues. The Wellness Center will provide face to face counselling to the students. In addition to this online counselling services can also be provided to ensure that students seek help with trust and anonymity for their mental health concerns.

We seek to empower students with appropriate tools, information and skills so that they can make their life meaningful and can invest in their present and future well-being. This Center will enable us:

- Raising awareness about mental health.
- Reducing stigma associated with mental illness.
- Promote help seeking behaviors and emotional well-being practices.
- Helps to recognize early signs and risks of mental illness.
- Practice and promote positive living.
- Improved self-esteem and self-confidence.
- Better ability to manage stress effectively.

CONVOCATION

In December 2025, IoBM held its twenty-eighth Convocation. The Guest of Honor was Dr. Sulaiman Shahabuddin, President, The Aga Khan University. The Keynote Speaker was our Alumnus, Mirza Salman Beg, CEO, Enterprising Manufacturing Company and the Valedictorian was Ammar Shahkar Sayied of BBA (Honors) at this Convocation.

IoBM conferred 1519 Degrees, including 19 Gold Medals and 64 Merit Certificates as per the following:

Program	Total Graduates	Program	Total Graduates
BBA (Honors)	382	MBA (Regular)	173
B.E Electrical (Electronics)	10	MBA (Weekend)	83
BS (Actuarial Science and Risk Management)	10	MBA (Evening)	83
BS (Computer Science)	39	MBA (Educational Management)	5
BS (Data Science)	7	MBA (Entrepreneurship and SME Banking and Finance)	3
BS (Economics, Law and International Relations)	11	MBA (Environment and Energy Management)	2
BS (Economics, Media and International Relations)	12	MBA (Finance and Risk Management)	28
BS (Economics)	1	MBA (Health and Hospital Management)	33
BS (Education)	1	MBA (Industrial Management)	19
BS (Entrepreneurship)	34	MBA (Logistics and Supply Chain Management)	73
BS (Honors) Accountancy, Management and Law	69	MBA (Media Management and Marketing)	24
BS (Honors) Accounting and Finance	137	MSC (Organizational Psychology and HRM)	16
BS (Honors) Economics and Finance	29	MS (Business Management)	8
BS (Honors) Media Studies	23	MS (Computer Science)	4
BS (Honors) Social Entrepreneurship and Leadership	1	MS (Economics)	2
BS (Industrial Management)	7	MS (Mathematics and Scientific Computing)	2
BS (Honors) Business and Psychology	55	M.Phil (Education)	11
BS (Logistics and Supply Chain Management)	47	M.Phil (Organizational Psychology)	11
BS (Mathematics and Economics)	16	M.Phil (Business Management)	5
BS (Software Engineering)	10	PhD (Business Management)	10
Bachelor of Education	25	PhD (Education)	1

Gold Medalists



Shahjehan Syed Karim
Gold Medal
Ammar Shahkar Sayied
BBA (Honors)



Shan Foods
Gold Medal
Manesh Kumar
BBA (Honors)



Tabba Foundation
Gold Medal
Aafeen Khan
BBA (Honors)



PayPak
Gold Medal
Hania Asim
BS (Computer Science)



Westbury Group of Companies
Gold Medal
Mahnoor Asif
BS (Honors) Accounting and Finance



Lipton
Gold Medal
Urooj Saeed
BS (Mathematics and Economics)



S. H. Hashmi Memorial
Gold Medal
Ayiza Salman
BS (Economics, Media & Int. Relations)



Jubilee General Insurance
Gold Medal
Nabil Ahmed
BS (Logistics & Supply Chain Mgmt.)



Ghulam Faruque
Gold Medal
Kanwal Jaffer
Bachelor of Education



Management Association of Pakistan
Gold Medal
Hamna Siddiqui
MBA (Regular)

Janmohammad Dawood
Gold Medal
Sahar Zehra
BBA (Honors)



Jahangir Siddiqui
Gold Medal
Muhammad Fawad
BBA (Honors)



EFU Life Assurance
Gold Medal
Farzana Darayoush Kolah
BS (Honors) Accountancy, Mgmt. & Law



Meezan Bank
Gold Medal
Muneeba Ashraf
BS (Honors) Accounting and Finance



DVAGO
Gold Medal
Murtaza s/o Hatim Bohra
BS (Honors) Accounting and Finance



Tufail Industries
Gold Medal
Saima Shiraz
BS (Entrepreneurship)



Dr. Essa's Laboratory
Gold Medal
Ayesha Saqib
BS (Honors) Business and Psychology



Hoechst Pakistan Limited
Gold Medal
Manahil Asif
BS (Honors) Economics and Finance



Afeef Packages
Gold Medal
Urooj d/o Waseem Akhtar
MBA (Weekend)



GLOBAL LINKAGES

International Office

The Institute of Business Management (IoBM) has an International Office that works under the supervision of the President of IoBM. The Department is successfully managing the execution of international relations on bilateral and multilateral terms with many universities in Europe, Asia USA and Australia.

Eduniversal Ranking

Eduniversal, based in Paris, France, is a worldwide academic institution ranking organization which ranks the 4,000 best academic institutions from around the world. The expertise of IoBM is distinguished in the 2021 Eduniversal Best Masters' Ranking in the context of following programs:

Top 200 Best Master's Programs:

- MBA full time - Ranked 18th in Central Asia
- MBA Human Resource Management - Ranked 8th in Central Asia
- MBA Advertising and Media Management – Ranked 2nd in Corporate Communication in Central Asia
- MBA Executive – Ranked 9th in Executive MBA in Central Asia
- MS Economics – Ranked 5th in Economics in Central Asia
- MBA Finance – Ranked 7th in Corporate Finance in Central Asia
- MBA Environment and Energy Management – Ranked 1st in Energy and Natural Resources in Central Asia
- MBA Industrial Management – Ranked 4th in Industrial and Operations Management in Central Asia
- MPhil in Business Management – Ranked 6th in General Management in Central Asia
- MS Computer Science – Ranked 17th in Information Systems Management in Central Asia
- MS Mathematics & Scientific Computing – Ranked 3rd in Data analytics in Central Asia

Top 100 Best Master's Programs:

- MBA Supply Chain Management – Ranked 88 in the world
- MBA Health and Hospital Management – Ranked 66 in the world
- MBA Finance and Risk Management – Ranked 100 in the world
- MSc in Business Management – Ranked 37 in the world
- MBA Weekend – Ranked 58 in the world

Bilateral Agreements

IoBM has bilateral agreements under a formally signed Memorandum of Understanding (MoU) with the following universities which provide exchange of students, faculty and staff and promote joint research and consultancy.



Country	Partner University
1. Albania	Eqrem Cabej University
2. Bangladesh	American International University
3. Bangladesh	University of Chittagong
4. Belarus	School of Business of Belarusian State University
5. Bhutan	Gedu College of Business Studies
6. Bosnia	International Burch University
7. China	Biejing Jiatong University
8. China	Guangxi University of Finance and Economics
9. China	Guangxi University of Technology (GXUT)
10. China	Guilin University of Technology
11. China	Hebei International Studies University (HISU)
12. China	Sias International University
13. China	University of Electronic Science & Technology of China (UESTC)
14. China	Zhejiang University
15. China	Zhengzhou Xinlian University
16. China	Sanya University
17. Combodia	IICUniversity of Technology
18. France	Financia Business School
19. Georgia	Caucasus University
20. Germany	Erfurt University of Applied Sciences
21. Germany	Eurasia Institute for International Education (EIIE)
22. Ghana	University of Development Studies
23. Indonesia	IPMI International Business School
24. Indonesia	University of Muhammadiyah Semarang
25. Italy	University of Florence
26. Lithuania	Vytautas Magnus University
27. Malaysia	Multimedia University
28. Malaysia	Universiti Malaysia Sarawak (UNIMAS)
29. Malaysia	University of Kuala Lumpur
30. Malaysia	Universiti of Malaysia Pahang
31. Mexico	Universidad Autonoma de Guadalajara
32. Morocco	Groupe ISCAE
33. Nepal	Kathmandu University School of Management (KUSOM)
34. Nepal	Pokhara University
35. North Cyprus	Girne American University
36. Poland	Powiślńska Szkoła Wyższa
37. Portugal	Instituto Politécnico de Castelo Branco
38. Romania	Petre Andrei University of Iasi
39. Russia	Emas Eurasian Management & Administration School
40. Russia	Institute of Business Studies RANEP
41. Russia	Russian State University for the Humanities
42. South Korea	Dongseo University
43. South Korea	Hanyang University
44. Spain	University of Malaga
45. Srilanka	University of Kelaniya
46. Srilanka	University of Peradeniya
47. Switzerland	International University in Geneva (IUG)
48. Taiwan	I-SHOU University
49. Tajikistan	Tajik Technical University
50. Thailand	Naresuan University
51. Thailand	Siam University
52. Turkey	Abdullah Gul University (AGU)
53. Turkey	Altınbaş University
54. Turkey	Bilkent University
55. Turkey	TED University
56. Turkey	Piri Reis University
57. Turkey	Cyprus Science University
58. Turkey	Yeditepe University
59. Turkey	Yasar University
60. Ukraine	International Institute of Business IIB
61. United Arab Emirates	Al Dar University College
62. USA	Michigan Technological University
63. Uzbekistan	Tashkent State Transport University
64. Vietnam	Institute of Policy & Management IPAM (University of Social Sciences and Humanities - Hanoi
65. Vietnam	VNU University of Science

Student and Faculty Exchange Program

IoBM students regularly go to the following universities on student exchange programs:

- Yasar University, Turkey
- Girne American University, North Cyprus
- Dongseo University, South Korea
- Istanbul Aydin University, Turkey
- Beijing Jiaotong University, China
- Guilin University of Technology, China
- University of Kuala Lumpur, Malaysia
- Sanya University, China
- University of Florence, Italy
- Izmir University of Economics, Turkey
- Groupe ISCEA, Morocco
- Bilkent University, Turkey
- Hanyang University, South Korea
- Abdullah Gul University, Turkey
- Universiti Putra, Malaysia
- Beijing Jiaotong University, China

IoBM has entered into an understanding with these universities for exchange of students on the basis of a waiver of university tuition fees and in some cases, provision of free hostel facilities.. IoBM also welcomes students from partner universities to spend a semester at IoBM. More students are expected from different universities in the upcoming semesters through the student exchange program. Experts visit IoBM for a semester from Spain, Germany, China and Nigeria. Exchange of students, faculty members as well as joint research projects are a continuous process involving universities all over the world.

Memberships of Professional Bodies

IoBM is an active member of the following international and national professional bodies:

1. International Association of Universities (IAU), UNESCO, France
2. International Association of University Presidents (IAUP)
3. The Association of Commonwealth Universities (ACU), UK
4. Association of Universities of Asia and the Pacific (AUAP), Thailand
5. AACSB International -The Association to Advance Collegiate Schools of Business, USA
6. Asian Media Information and Communication Centre (AMIC), Singapore
7. Management Association of Pakistan (MAP), (Honorary Treasurer)
8. Marketing Association of Pakistan (President)
9. Employers Federation of Pakistan
10. Institute of Corporate Governance
11. International Finance Corporation (IFC), USA
12. Association of University Programs in Health Administration
13. Association of Management Development Institutions in South Asia (AMDISA)
14. OPEN, Karachi (Vice Chairman)
15. Association of Management Development Institutions in Pakistan (AMDIP), (Chairman, Karachi)



COLLEGE OF BUSINESS MANAGEMENT

CBM Vision:

To be recognized as a premier business school that transforms students into innovative, ethical leaders who drive sustainable business growth and societal impact through cutting-edge education, industry integration, and transformative research.

CBM Mission Statement:

The College of Business Management empowers future business leaders with industry-relevant knowledge, analytical rigor, and ethical decision-making skills. Through technology-infused curricula, experiential learning, and global perspectives, we prepare students to excel in dynamic business environments. Our faculty and students collaborate on impactful research that addresses real-world challenges, while our strong industry partnerships foster innovation and community engagement. We are committed to cultivating entrepreneurial mindsets, fostering inclusivity, and developing solutions that create both economic value and social progress.

Bachelor of Business Administration (BBA)

The Bachelor of Business Administration program offers a comprehensive overview of business management, delving into essential functional areas. Our curriculum fosters leadership, social awareness, creativity, and innovation, utilizing experiential learning to develop skills in interpersonal communication, teamwork, foreign languages, and managing diversity. Students are equipped to think critically and apply theoretical knowledge to real-world challenges. As a leader in business education, CBM has integrated artificial intelligence into the curriculum to ensure that graduates are prepared for the future horizon.

Graduates of the BBA program consistently demonstrate exceptional personal and professional capabilities, making them highly sought after by industries. Renowned for their versatility and proactive approach, BBA alumni are sought after across diverse sectors, earning recognition as Industry-Ready Professionals. Their strong foundation in business fundamentals, coupled with their practical skills and adaptability, positions them as valuable assets to organizations in various industries.

The BBA curriculum spans four years, encompassing the completion of 146 credit hours, including a mandatory eight-week internship at IoBM-approved firm and an industry-savvy Capstone Project. These projects have become a cornerstone of the bachelor's program at CBM over the years. To fulfill degree requirements, students must successfully complete 50 courses and maintain a minimum CGPA of 2.5. Students are required to complete general education courses in the first four semesters to be eligible to proceed to the fifth semester. By the end of the second year, students need to decide their major from the specializations listed below.

- Accounting
- Business Intelligence and Analytics
- Finance
- Human Resource Management
- Supply Chain Management
- Marketing
- Entrepreneurship

General Education Courses

SSC101	Introduction to Psychology	(3 credit hours)
MAT102	Business Mathematics and Statistics	(3 credit hours)
BCN101	Academic English	(3 credit hours)
STS202	Inferential Statistics	(3 credit hours)
REL101	Islamic Studies/Ethics	(2 credit hours)
BCN203	Persuasive and Analytical Writing for Business	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
LAN30*	Foreign Language	(3 credit hours)
CSC210	Applications of Information Communications Technologies (Theory + Lab)	(2+1 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
REL102	Understanding of Holy Quran I / General Education **	(1 credit hour)
REL103	Understanding of Holy Quran II / General Education **	(1 credit hour)

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

***Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.*



*** BBA students are required to complete relevant certification (equivalent to 3 credit hours) over the period of four-year program as a mandatory condition for degree completion. Student will select the certification with the consultation of the respective program head.

*** Foreign Language Course**

*1 Arabic *2 French *3 Italian *4 German *5 Chinese

BCN010 Intensive English (Pre-Sessional Course) ***

**** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester.

Interdisciplinary Courses

ECN101	Principles of Microeconomics	(3 credit hours)
ECN102	Principles of Macroeconomics	(3 credit hours)
LWS103	Legal and Regulatory Environment of Business	(3 credit hours)
ECN403	National and Global Economic Policy	(3 credit hours)
MGT401	Technology and Innovation Management	(3 credit hours)

Students must take a minimum load of twelve credit hours or a maximum load of eighteen credit hours in a semester. To obtain the BBA degree in four years, students need to complete twelve courses per year. A full load of six courses can be taken in each Fall and Spring semester, with the option of remedial courses (for failure, improvement, or prerequisite past courses) to address any shortfall in the summer session.

Discipline/Core Business Related Courses

MGT101	Principles of Management	ACS101	Introduction to Financial Accounting
MRK101	Fundamentals of Marketing Management	FNS201	Introduction to Business Finance
MGT201	Organizational Behavior	ACS201	Intermediate Financial Accounting
HRM201	Human Resource Management	FNS202	Financial Management
MRK201	Fundamentals of Consumer Behavior	MGT301	Integrated Management
MRK301	Sales Management	SCN101	Essentials of Supply Chain
MRK303	Digital Media and Marketing	MRK304	Brand Management
MGT402	Leadership and Business Ethics	ISF301	Introduction to Islamic Banking
MGT403	Strategic Management	ACS301	Cost and Management Accounting
BIA101	Introduction to Business Analytics	ERP310	Enterprise Resource Planning
RES301	Business Research Methods	BIA301	Business Intelligence
BIA310	AI in Business		

Capstone Project

ACS480	Accounting
BIA480	Business Intelligence and Analytics
FNS480	Finance
HRM480	Human Resource Management
SCN480	Supply Chain Management
MRK480	Marketing
ETP480	Entrepreneurship

Major (Electives)- 06 Courses (18 credit hours)

Accounting Electives

- ACS302 Advanced Financial Accounting
- ACS303 Principles of Taxation
- ACS304 Principles of Auditing
- ACS450 Advanced Audit and Assurance
- ACS451 Advanced Taxation
- ACS452 ESG Accounting
- ACS453 International Financial Reporting Standards
- ACS454 Managerial Analysis and Decision Making
- ACS455 Strategic Performance Management

Finance Electives

- FNS203 Financial Institutions and Markets
- FNS301 Corporate Finance
- FNS302 Analysis of Financial Statements
- FNS451 Financial Derivatives
- FNS452 Financial Modeling and Analytics
- FNS453 Fintech
- FNS454 Portfolio Management
- FNS455 Security Analysis
- FNS456 Technical Analysis
- FNS457 Treasury and Fund Management

Marketing Electives

- MRK450 Advertising
- MRK451 International Marketing
- MRK452 Services Marketing
- MRK453 Personal Selling
- MRK454 Media Planning
- MRK455 Merchandising and Sales Promotion
- MRK456 Distribution and Channel Management
- MRK457 Neuromarketing
- MRK458 Public Relations and Event Management
- MRK459 Integrated Marketing Communications
- MRK460 New Product Management
- MRK461 Retail Management
- MRK462 Customer Relationship Management
- MRK463 Entrepreneurial Marketing
- MRK464 AI in Marketing Facing Functions
- MRK465 Marketing for Hospitality and Tourism
- MRK466 Sales Automation and Analytics
- MRK467 Search Engine Marketing

Business Intelligence and Analytics Electives

- BIA430 Basics of Programming
- BIA431 Application of Programming in Business
- BIA432 Advance tools and techniques for Business Intelligence
- BIA433 Marketing Intelligence and Analytics
- BIA434 Big Data in Finance
- BIA435 Applied financial analytics
- BIA436 Human Capital Analytics
- BIA437 Applied Supply Chain Analytics

Human Resource Management Electives

- HRM450 Recruitment and Selection
- HRM451 Industrial Relation and Labor Law
- HRM452 Employee Training and Development
- HRM453 Negotiation Skills
- HRM454 Organization Change and Development
- HRM455 Salary and Compensation
- HRM456 Performance Appraisal and Management
- HRM457 HR Automation
- HRM458 Occupational Health and Safety
- HRM459 Employee Engagement and Wellbeing
- HRM460 Career Planning and Management
- HRM461 Digital Recruitment and Gamification
- HRM462 HR for Startups and SMEs
- HRM463 E Learning Instructional Design
- HRM464 Workforce Planning and Analytics
- HRM465 Employment and Industrial Law
- HRM466 HRCommunication and Employer Branding

Supply Chain Management Electives

- SCN451 E-business Strategies in SCM
- ERP452 Risk Analysis in Supply Chain
- SCN453 Transportation Analysis
- SCN454 Retail Logistics
- SCN455 Shipping and Port Operations
- SCN456 Supply Chain Finance and Costing
- SCN457 Supply Chain i4.0 and Data Sciences
- SCN458 Supply Chain Technology, Systems & Innovation
- SCN459 Operational Research and Simulation
- SCN460 International Logistics
- SCN461 Inventory Planning and Control
- SCN463 Supply Chain Design
- SCN464 Packaging Design and Environmental Aspects
- SCN462 Supply Chain Project Management

Entrepreneurship Electives

- ETP401 Sustainable Family Business
- ETP404 Entrepreneurial E-Commerce
- ETP405 Intrapreneurship
- ETP452 Sustainable Business Designs
- ETP453 Global Entrepreneurship
- ETP455 Technopreneurship
- ETP456 Applied STEM for Entrepreneurs
- ETP457 Digital Programming Language for Entrepreneurs
- ETP458 Fashion and Creative Entrepreneurship
- ETP459 Metaverse, Blockchain and Future Markets
- ETP460 Event Management and Personal Branding
- ETP461 Culture and Solopreneurship
- ETP462 Freelancing and Marketplace Strategies
- ETP463 Content Monetization and Creator Economy



Course Structure

First Semester

Course Code	Course Title	Credit Hours	Pre-requisite
SSC101	Introduction to Psychology	3	
ECN101	Principles of Microeconomics	3	
MAT102	Business Mathematics and Statistics	3	
MGT101	Principles of Management	3	
BCN101	Academic English	3	
ACS101	Introduction to Financial Accounting	3	

Second Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ECN102	Principles of Macroeconomics	3	ECN101
STS202	Inferential Statistics	3	MAT102
REL101	Islamic Studies	2	
BCN203	Persuasive & Analytical Writing for Business	3	BCN101
EEM101	Environmental Studies	3	
PSC101	Pakistan Studies	3	

Third Semester

Course Code	Course Title	Credit Hours	Pre-requisite
MRK101	Fundamentals of Marketing Management	3	
PSC201	Ideology and Constitution of Pakistan	2	PSC101
FNS201	Introduction to Business Finance	3	ACS101
MGT201	Organizational Behavior	3	MGT101
ACS201	Intermediate Financial Accounting	3	ACS101
ETP101	Entrepreneurship	3	

Fourth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
LAN30*	Foreign Language	3	
CSC210	Applications of Information Communications Technologies	2+1	
SSC303	Service-Learning and Civic Responsibility	2	
FNS202	Financial Management	3	FNS201
HRM201	Human Resource Management	3	MGT201
MRK201	Fundamentals of Consumer Behavior	3	MRK101

Fifth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
MGT301	Integrated Management	3	MGT101, MGT102
LWS103	Legal and Regulatory Environment of Business	3	
SCN101	Essentials of Supply Chain	3	
MRK301	Sales Management	3	MRK101
BIA101	Introduction to Business Analytics	3	STS202
RES301	Business Research Methods	3	STS202

Sixth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ERP310	Enterprise Resource Planning	3	
ACS301	Cost and Management Accounting	3	ACS201
ISF201	Introduction to Islamic Banking	3	
BIA310	AI in Business	3	BIA101
MGT402	Leadership and Business Ethics	3	MGT301
MRK303	Digital Media and Marketing	3	MRK101

Seventh Semester

Course Code	Course Title	Credit Hours	Pre-requisite
	Elective 1	3	
	Elective 2	3	
MRK304	Brand Management	3	MRK101
ECN403	National and Global Economic Policy	3	
BIA301	Business Intelligence	3	BIA101
MGT401	Technology and Innovation Management	3	MGT301

Eighth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
	Elective 3	3	
	Elective 4	3	
	Elective 5	3	
	Elective 6	3	
***480	Capstone Project	3	
MGT403	Strategic Management	3	MGT301

BS - ECONOMICS & FINANCE

The Bachelor of Science in Economics and Finance at the Institute of Business Management (IoBM) is a four-year undergraduate program designed to provide students with a sound understanding of both economic and financial systems. The program covers core areas such as economic analysis, public policy, corporate finance, financial institutions, and markets, while also introducing students to emerging fields like FinTech, data analytics, and financial modeling. It aims to develop students' analytical, quantitative, and decision-making skills, preparing them to understand and address real-world economic and financial challenges.

The program consists of 50 courses and an internship, totaling 146 credit hours. It includes 15 general education courses, 24 core courses, 4 interdisciplinary courses, and 6 electives from the specialization. In the final year, students complete a capstone project and mandatory 3 credit hours internship, allowing them to apply classroom knowledge to professional settings. The internship provides hands-on industry exposure, while the capstone project integrates learning across courses, helping students analyze and solve practical business or policy problems.

The BS Economics and Finance program is spread over eight semesters (four years). Students are required to take at least four courses each semester, with the option to cover any deficient courses during the summer. The first four semesters focus on general education requirements that must be completed before entering the advanced level of study. A minimum CGPA of 2.5 is required for degree completion. The program combines academic learning with practical experience, preparing graduates for careers in banking, finance, consultancy, investment analysis, and public policy.

General Education Courses (15 courses, 38 credit hours)

LAN30*	Foreign Language	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
SSC101	Introduction to Psychology	(3 credit hours)
BCN101	Academic English	(3 credit hours)
BCN203	Persuasive and Analytical Writing for Business	(3 credit hours)
MAT102	Business Mathematics and Statistics	(3 credit hours)
STS202	Inferential Statistics	(3 credit hours)
CSC210	Applications of Information Communications Technologies	(3 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
REL101	Islamic Studies / SSC105 Ethics (for non-Muslims)	(2 credit hours)
REL102	Understanding of Holy Quran I**	(1 credit hour)
REL103	Understanding of Holy Quran II**	(1 credit hour)

* Foreign Language Course

*1 Arabic

*2 French

*3 Italian

*4 German

*5 Chinese

** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.

**Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.



*BCN 010 Intensive English (Pre-Sessional Course) ****

**** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester.*

***** BS Economics and Finance students are required to complete relevant certification (equivalent to 3 credit hours) over the period of four-year program as a mandatory condition for degree completion. Student will select the certification with the consultation of the respective program head.*

Interdisciplinary Courses (4 courses, 12 credit hours)

LWS102 Corporate and Business Law	(3 credit hours)
ERP310 Enterprise Resource Planning	(3 credit hours)
BCN202 Business and Professional Speech	(3 credit hours)
MGT402 Leadership and Business Ethics	(3 credit hours)

Discipline/Core Business Related Courses

ECN101 Principles of Microeconomics	(3 credit hours)
ECN102 Principles of Macroeconomics	(3 credit hours)
ECN205 Managerial Economics	(3 credit hours)
ECN304 International Trade	(3 credit hours)
ECN305 Financial Economics	(3 credit hours)
ECN301 Econometrics-I	(3 credit hours)
ECN202 Macroeconomic Analysis	(3 credit hours)
ECN404 Pakistan Economic Policy	(3 credit hours)
FNS201 Introduction to Business Finance	(3 credit hours)
FNS202 Financial Management	(3 credit hours)
FNS203 Financial Institutions and Markets	(3 credit hours)
FNS301 Corporate Finance	(3 credit hours)
FNS302 Analysis of Financial Statements	(3 credit hours)
BIA310 AI in Business	(3 credit hours)
ACS101 Introduction to Financial Accounting	(3 credit hours)
RES301 Business Research Methods	(3 credit hours)
ACS201 Intermediate Financial Accounting	(3 credit hours)
ACS301 Cost and Management Accounting	(3 credit hours)
MRK303 Digital Media and Marketing	(3 credit hours)
LWS102 Corporate and Business Law	(3 credit hours)
MGT102 Introduction to Management and Organizational Behavior	(3 credit hours)
MRK101 Fundamentals of Marketing Management	(3 credit hours)
HRM201 Human Resource Management	(3 credit hours)
MGT403 Strategic Management	(3 credit hours)
FNS480 Capstone Project	(3 credit hours)
INT*** Internship	(3 credit hours)

Elective Courses (6 courses, 18 credit hours)

Economics Electives *1

ECN203 Mathematical Economics
ECN303 Game Theory
ECN204 Development Economics
ECN405 Monetary Theory & Policy
ECN401 Econometrics-II
ECN406 Analysis of Pakistani Industry
ECN450 Islamic Economics
ECN454 Public Finance



Finance Electives*2

FNS450	Commercial and Corporate Banking
FNS451	Financial Derivatives
FNS452	Financial Modeling and Analytics
FNS453	FinTech
FNS454	Portfolio Management
FNS455	Security Analysis
FNS456	Technical Analysis
FNS457	Treasury and Fund Management

*1 Pre-requisite for Economics Elective: ECN305

*2 Pre-requisite for Finance Electives: FNS301

Course Structure**First Semester**

Course Code	Course Title	Credit Hours	Pre-requisite
BCN101	Academic English	3	
MAT102	Business Mathematics and Statistics	3	
ACS101	Introduction to Financial Accounting	3	
REL101	Islamic Studies / SSC105 Ethics (For Non-Muslims)	2	
ECN101	Principles of Microeconomics	3	
PSC101	Pakistan Studies	3	

Second Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS201	Intermediate Financial Accounting	3	ACS101
MGT102	Introduction to Management and Organizational Behavior	3	
SSC101	Introduction to Psychology	3	
BCN203	Persuasive & Analytical Writing for Business	3	BCN101
ECN102	Principles of Macroeconomics	3	ECN101
STS202	Inferential Statistics	3	MAT102

Third Semester

Course Code	Course Title	Credit Hours	Pre-requisite
CSC210	Applications of Information Communication Technologies	3	
LWS102	Corporate and Business Law	3	
ACS301	Cost and Management Accounting	3	ACS201
EEM101	Environmental Studies	3	
MRK101	Fundamentals of Marketing Management	3	
FNS201	Introduction to Business Finance	3	ACS201

Fourth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ETP101	Entrepreneurship	3	
FNS203	Financial Institutions and Markets	3	FNS201
FNS202	Financial Management	3	FNS201
LAN30*	Foreign Language	3	
PSC201	Ideology and Constitution of Pakistan	2	PSC101
SSC303	Service-Learning and Civic Responsibility	2	

Fifth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ECN202	Macroeconomic Analysis	3	ECN102
FNS301	Corporate Finance	3	FNS202
ERP310	Enterprise Resource Planning	3	
BCN202	Business and Professional Speech	3	BCN201
ISF301	Introduction to Islamic Banking	3	LWS101
MRK303	Digital Media and Marketing	3	MRK101

Sixth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
FNS302	Analysis of Financial Statements	3	FFNS301 & ACS301
MGT402	Leadership and Business Ethics	3	MGT102
ECN305	Financial Economics	3	ECN102
ECN301	Econometrics-I	3	STS202
ECN205	Managerial Economics	3	ECN102
HRM201	Human Resource Management	3	MGT102

Seventh Semester

Course Code	Course Title	Credit Hours	Pre-requisite
MGT403	Strategic Management	3	MGT402
ECN304	International Trade	3	ECN102
ECN404	Pakistan Economic Policy	3	ECN102
RES301	Business Research Methods	3	STS202
	Elective I	3	
	Elective II	3	

Eighth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
BIA310	AI in Business	3	
FNS480	Capstone Project	3	RES301
	Elective III	3	
	Elective IV	3	
	Elective V	3	
	Elective VI	3	

BS - ACCOUNTING & FINANCE

The Bachelor of Science in Accounting and Finance at the Institute of Business Management (IoBM) is a four-year undergraduate program designed to develop strong foundations in accounting principles and financial management. The program blends academic learning with practical exposure, covering key areas such as financial reporting, auditing, taxation, corporate finance, and investment analysis. Students also develop analytical thinking, ethical judgment, and technical competence through case discussions, projects, and presentations. Emphasis is placed on applying accounting and finance concepts to real-world situations, ensuring that graduates are well-prepared to meet the demands of today's corporate and financial sectors.

The program consists of 50 courses and an internship, totaling 146 credit hours. It includes 15 general education courses, 24 core courses, 4 interdisciplinary courses, and 6 elective courses—three each from accounting and finance. In the final year, students complete a capstone project and an internship. The capstone project allows students to integrate and apply their learning to practical business problems, while the internship provides workplace exposure and professional experience. The program is spread over eight semesters, and students are required to take at least four courses each semester. Deficient courses can be covered in summer sessions. A minimum CGPA of 2.5 is required for degree conferment, and students must complete 12 general education courses in the first four semesters to progress to the fifth.

Professional Affiliations and Exemptions

- ACCA (UK): Up to 9 exemptions (3 Applied Knowledge and 6 Applied Skills courses).
- CFA (USA): IoBM is an affiliated university, and students have access to the CFA scholarship.
- ICMAP: Up to 9 papers exemptions.
- ICAP: Exemptions may be claimed on a paper-to-paper basis depending on the course outline mapping.

Career Prospects

Graduates are prepared for careers in financial accounting and auditing, investment and portfolio analysis, financial management, banking, consultancy, and corporate finance.

General Education Courses (15 courses, 38 credit hours)

LAN30*	Foreign Language	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
SSC101	Introduction to Psychology	(3 credit hours)
BCN101	Academic English	(3 credit hours)
BCN203	Persuasive and Analytical Writing for Business	(3 credit hours)
MAT102	Business Mathematics and Statistics	(3 credit hours)
STS202	Inferential Statistics	(3 credit hours)
CSC210	Applications of Information Communications Technologies	(3 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
REL101	Islamic Studies / SSC105 Ethics (for non-Muslims)	(2 credit hours)
REL102	Understanding of Holy Quran I**	(1 credit hour)
REL103	Understanding of Holy Quran II**	(1 credit hour)

Foreign Language Course

*1 Arabic

*2 French

*3 Italian

*4 German

*5 Chinese

**** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.**

****Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies**

BCN 010 Intensive English (Pre-Sessional Course) ***

***** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester.**

****** BS Accounting and Finance students are required to complete relevant certification (equivalent to 3 credit hours) over the period of four-year program as a mandatory condition for degree completion. Student will select the certification with the consultation of the respective program head.**

Interdisciplinary Courses (4 courses, 12 credit hours)

ECN101	Principles of Microeconomics	(3 credit hours)
ECN404	Pakistan Economic Policy	(3 credit hours)
MGT402	Leadership and Business Ethics	(3 credit hours)
LWS102	Corporate and Business Law	(3 credit hours)

Discipline/Core Business Related Courses

ACS101	Introduction to Financial Accounting (Exempt: ACCA-F3)	(3 credit hours)
ACS201	Intermediate Financial Accounting (Exempt: ACCA-F7)	(3 credit hours)
ACS301	Cost and Management Accounting (Exempt: ACCA-F5)	(3 credit hours)
ACS302	Advanced Financial Accounting (Exempt: ACCA-F7)	(3 credit hours)
ACS303	Principles of Taxation (Exempt: ACCA-F6)	(3 credit hours)
ACS304	Principles of Auditing (Exempt: ACCA-F8)	(3 credit hours)
ACS305	Accounting Information System	(3 credit hours)
ACS306	Internal Auditing (Exempt: ACCA-F8)	(3 credit hours)
FNS201	Introduction to Business Finance (Exempt: ACCA-F9)	(3 credit hours)
FNS202	Financial Management (Exempt: ACCA-F9)	(3 credit hours)
FNS203	Financial Institutions and Markets (Exempt: ACCA-F9)	(3 credit hours)
FNS301	Corporate Finance (Exempt: ACCA-F9)	(3 credit hours)
FNS302	Analysis of Financial Statements (Exempt: ACCA-F7)	(3 credit hours)
BIA310	AI in Business	(3 credit hours)
LWS101	Banking Laws and Practices	(3 credit hours)
LWS102	Corporate and Business Law (Exempt: ACCA-F4)	(3 credit hours)
ISF301	Introduction to Islamic Banking	(3 credit hours)
ISF302	Islamic Financial Accounting	(3 credit hours)
MGT102	Introduction to Management and Organizational Behavior	(3 credit hours)
MGT403	Strategic Management	(3 credit hours)
MRK101	Fundamentals of Marketing Management	(3 credit hours)
MRK303	Digital Media and Marketing	(3 credit hours)
HRM201	Human Resource Management	(3 credit hours)
RES301	Business Research Methods	(3 credit hours)
FNS480	Capstone Project	(3 credit hours)
INTxxx	Internship	(3 credit hours)



Elective Courses (6 courses, 18 credit hours)

Accounting Electives:

- ACS450 Advanced Audit and Assurance
- ACS451 Advanced Taxation (Exempt: ACCA-F6)
- ACS453 International Financial Reporting Standards
- ACS454 Managerial Analysis and Decision Making (Exempt: ACCA-F5)
- ACS455 Strategic Performance Measurement
- ACS456 Financial Regulation and Reporting

Finance Electives:

- FNS450 Commercial and Corporate Banking
- FNS451 Financial Derivatives
- FNS452 Financial Modeling and Analytics
- FNS453 FinTech
- FNS454 Portfolio Management
- FNS455 Security Analysis
- FNS456 Technical Analysis
- FNS457 Treasury and Fund Management

Course Structure

First Semester

Course Code	Course Title	Credit Hours	Pre-requisite
BCN101	Academic English *	3	
MAT102	Business Mathematics and Statistics *	3	
ACS101	Introduction to Financial Accounting *	3	
REL101	Islamic Studies / SSC105 Ethics (For Non-Muslims)	2	
ECN101	Principles of Microeconomics *	3	
PSC101	Pakistan Studies	3	

Second Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS201	Intermediate Financial Accounting *	3	ACS101
MGT102	Introduction to Management and Organizational Behavior	3	
SSC101	Introduction to Psychology	3	
BCN203	Persuasive and Analytical Writing for Business	3	BCN101
ECN102	Principles of Macroeconomics *	3	ECN101
STS202	Inferential Statistics *	3	MAT102

Third Semester

Course Code	Course Title	Credit Hours	Pre-requisite
CSC210	Applications of Information Communications Technologies *	3	
LWS101	Banking Laws and Practices	3	
ACS301	Cost and Management Accounting *	3	ACS201
EEM101	Environmental Studies	3	
MRK101	Fundamentals of Marketing Management	3	
FNS201	Introduction to Business Finance *	3	ACS201

Fourth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ETP101	Entrepreneurship	3	
FNS203	Financial Institutions and Markets	3	FNS201
FNS202	Financial Management	3	FNS201
LAN30*	Foreign Language	3	
PSC201	Ideology and Constitution of Pakistan	2	PSC101
SSC303	Service-Learning and Civic Responsibility	2	

Fifth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS302	Advanced Financial Accounting *	3	ACS201
LWS102	Corporate and Business Law *	3	LWS101
FNS301	Corporate Finance	3	FNS202
MRK303	Digital Media and Marketing	3	MRK101
ISF301	Introduction to Islamic Banking	3	LWS101
ACS303	Principles of Taxation *	3	ACS201

Sixth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS305	Accounting Information System	3	ACS201
FNS302	Analysis of Financial Statements *	3	FNS301 & ACS301
HRM201	Human Resource Management	3	MGT102
ISF302	Islamic Financial Accounting	3	ISF301
MGT402	Leadership and Business Ethics	3	MGT102
ACS304	Principles of Auditing *	3	ACS201

Seventh Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS306	Internal Auditing *	3	ACS304
RES301	Business Research Methods	3	STS202
ECN404	Pakistan Economic Policy	3	ECN102
MGT403	Strategic Management	3	MGT402
	Elective I	3	FNS302
	Elective II	3	FNS302

Eighth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
BIA310	AI in Business	3	
FNS480	Capstone Project	3	RES301
	Elective III	3	FNS302
	Elective IV	3	FNS302
	Elective V	3	FNS302
	Elective VI	3	FNS302

* Courses are exempted for ICAP CAF-qualified students (16 courses in total)



BS ENTREPRENEURSHIP

The BS Entrepreneurship program guides students through the various stages of the entrepreneurial and intrapreneurial process, ultimately leading to the launch of an operational business. The program is designed to develop innovative thinkers with a business mindset who can create innovative ventures either independently or within existing organizations. By the end of the program, students will have created, launched, and managed their own entrepreneurial venture from ideation to securing investment. In this program, students engage extensively in project-based learning across different courses, exploring each stage of the entrepreneurial journey. BS Entrepreneurship Graduates are expected to shift from being job seekers to job creators by applying creativity, innovation, and design thinking to entrepreneurial projects and real-world business challenges.

BS Entrepreneurship degree requires completion of 146 credit hours over eight regular semesters (four years), including Apprenticeship (3 credit hours) and a Capstone project (3 credit hours). Apprenticeship is mandatory for students to work with entrepreneurs in their area of interest and get insights of various businesses under the mentorship of successful entrepreneurs. In order to graduate, the students must maintain a CGPA of 2.5. The students are required to complete 12 General Education courses (33 credit hours) in the first four semesters; otherwise, the student will not be allowed to proceed to the fifth semester. Courses are divided into general education, interdisciplinary, core, and elective courses. A full load of six courses can be taken each in Fall and Spring semesters with an option of remedial courses (failure, improvement or pre-requisite past courses) for the shortfall in the summer semester.

General Education Courses

SSC101	Introduction to Psychology	(3 credit hours)
MAT102	Business Mathematics and Statistics	(3 credit hours)
BCN101	Academic English	(3 credit hours)
STS202	Inferential Statistics	(3 credit hours)
REL101	Islamic Studies/Ethics	(2 credit hours)
BCN203	Persuasive and Analytical Writing for Business Communication	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
LAN30*	Foreign Language	(3 credit hours)
CSC210	Applications of Information Communications Technologies	(3 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
REL111	Understanding of Holy Quran I / General Education **	(2 credit hours)

**** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.**

****Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.**

BS Entrepreneurship students are required to complete relevant certification (equivalent to 3 credit hours) over the period of four-year program as a mandatory condition for degree completion. Students will select the certification with the consultation of the respective program head.

* Foreign Language Course

*1 Arabic

*2 French

*4 German

*3 Italian

*5 Chinese

COM010 Intensive English (Pre-Sessional Course) ***

***** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester.**



Interdisciplinary Courses

ECN103	Principles of Economics	(3 credit hours)
ETP407	Sustainable Business Designs	(3 credit hours)
MGT311	Technology and Innovation Management	(3 credit hours)
ETP304	Legal Business Structures	(3 credit hours)

Discipline/Core Business Related Courses

ETP101	Entrepreneurship	(3 credit hours)
ACS101	Introduction to Financial Accounting	(3 credit hours)
ETP102	Business Model Design and Development	(3 credit hours)
ETP201	Fundamentals of Technopreneurship	(3 credit hours)
MGT102	Introduction to Management and Organizational Behavior	(3 credit hours)
ETP305	Entrepreneurial E-Commerce	(3 credit hours)
FNS201	Introduction to Business Finance	(3 credit hours)
MRK101	Fundamentals of Marketing Management	(3 credit hours)
ETP203	Freelancing and Gig Economy	(3 credit hours)
ETP301	Project Management for Entrepreneurs	(3 credit hours)
ETP302	Startup Launching and Fundraising	(3 credit hours)
ETP305	Social Entrepreneurship and Leadership	(3 credit hours)
FNS202	Financial Management	(3 credit hours)
HRM201	Human Resource Management	(3 credit hours)
SCN101	Essentials of Supply Chain	(3 credit hours)
ACS301	Cost and Management Accounting	(3 credit hours)
MGT403	Strategic Management	(3 credit hours)
RES301	Business Research Methods	(3 credit hours)
BIA310	AI in Business	(3 credit hours)
ETP401	Sustainable Family Business	(3 credit hours)
ETP480	Capstone Project	(3 credit hours)
ETP402	Analytics for Entrepreneurial Decision Making	(3 credit hours)
ETP403	Global Markets and Industry Innovation	(3 credit hours)
ETP404	Social Entrepreneurship and Leadership	(3 credit hours)
MGT402	Leadership and Business Ethics	(3 credit hours)
ETP405	Intrapreneurship and Consulting	(3 credit hours)
ETP406	Apprenticeship	(3 credit hours)

Electives - 06 Courses (18 credit hours)

The students have to take 6 elective courses (18 credit hours) to complete their degree requirement.

ETP451	Startup Acceleration and Process Optimization
ETP452	Bargaining and Negotiation Skills
ETP454	Sustainable Agriculture
ETP456	Applied STEM for Entrepreneurs
ETP457	Digital Programming Language for Entrepreneurs
ETP458	Fashion and Creative Entrepreneurship
ETP459	Metaverse, Blockchain and Future Markets
ETP460	Event Management and Personal Branding
ETP461	Culture and Solopreneurship
ETP462	Freelancing and Marketplace Strategies
ETP463	Content Monetization and Creator Economy
ETP464	Women in Leadership and Entrepreneurship
ETP465	Risk, Security, and Succession Planning



Course Structure

First Semester

Course Code	Course Title	Credit Hours	Pre-requisite
SSC101	Introduction to Psychology	3	
ECN103	Principles of Economics	3	
MAT102	Business Mathematics and Statistics	3	
REL101	Islamic Studies	2	
BCN101	Academic English	3	
ETP101	Entrepreneurship	3	

Second Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS101	Introduction to Financial Accounting	3	
STS202	Inferential Statistics	3	MAT102
PSC101	Pakistan Studies	3	
BCN203	Persuasive & Analytical Writing for Business	3	
ETP102	Business Model Design and Development	3	ETP101
ETP201	Fundamentals of Tecnopreneurship	3	ETP101

Third Semester

Course Code	Course Title	Credit Hours	Pre-requisite
MGT102	Introduction to Management and Organizational Behavior	3	
LAN30*	Foreign Language	3	
EEM101	Environmental Studies	3	
PSC201	Ideology and Constitution of Pakistan	2	PSC101
ETP202	Digital Toolkit for Entrepreneurs	3	ETP102
FNS201	Introduction to Business Finance	3	ACS101

Fourth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
CSC210	Applications of Information Communications Technologies	3	
SSC303	Service-Learning and Civic Responsibility	2	
MRK101	Fundamentals of Marketing Management	3	
ETP203	Freelancing and Gig Economy	3	ETP202
ETP301	Project Management for Entrepreneurs	3	ETP201
ETP302	Startup Launching and Fundraising	3	ETP201

Fifth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
FNS202	Financial Management	3	FNS201
HRM201	Human Resource Management	3	MGT102
MAN311	Technology and Innovation Management	3	
BIA310	AI in Business	3	MGT102
SCN101	Essentials of Supply Chain	3	
ETP305	Entrepreneurial E-Commerce	3	

Sixth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS301	Cost and Management Accounting	3	ACS101
MGT403	Strategic Management	3	MGT102
ETP401	Sustainable Family Business	3	ETP301
ETP480	Capstone Project	3	ETP302
ETP304	Legal Business Structures	3	ETP201
MGT402	Leadership and Business Ethics	3	

Seventh Semester

Course Code	Course Title	Credit Hours	Pre-requisite
	Elective 1	3	
	Elective 2	3	
RES301	Business Research Methods	3	STS202
ETP402	Analytics for Entrepreneurial Decision Making	3	BIA310
ETP404	Social Entrepreneurship and Leadership	3	ETP401
ETP403	Global Markets and Industry Innovation	3	ETP305

Eighth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
	Elective 3	3	
	Elective 4	3	
	Elective 5	3	
	Elective 6	3	
ETP407	Sustainable Business Designs	3	ETP402
ETP405	Intrapreneurship and Consulting	3	ETP480

BS SUPPLY CHAIN MANAGEMENT

The BS Supply Chain Management program is designed for students aspiring to build careers in the dynamic and fast-evolving field of supply chain and logistics. In today's competitive business environment, efficient supply chain operations play a critical role in organizational success. This program equips students with a strong foundation in supply chain design, logistics, operations management, procurement, and data-driven decision-making. Emphasizing both strategic and operational aspects, it prepares graduates to manage the flow of goods, services, and information effectively across global supply networks. The curriculum integrates business analytics, ERP systems, and sustainability practices, enabling students to address real-world supply chain challenges through innovative and practical solutions.

The BS Supply Chain Management degree requires the completion of 146 credit hours over eight regular semesters (four years), including a mandatory internship of at least eight weeks. This hands-on experience allows students to apply classroom learning in real-world business settings. To progress to the fifth semester, students must complete 13 General Education courses during the first four semesters and maintain a minimum CGPA of 2.5. Courses in the program are divided into General Education, Interdisciplinary, Discipline-related, and Elective categories, allowing students to build a balanced and well-rounded academic foundation. Courses in the program are divided into General Education, Interdisciplinary, Discipline-related, and Elective categories, allowing students to build a balanced and well-rounded academic foundation.

General Education Courses (38 Credit Hrs)

MAT102	Business Mathematics and Statistics	(3 credit hours)
REL101	Islamic Studies	(2 credit hours)
BCN101	Academic English	(3 credit hours)
STS202	Inferential Statistics	(3 credit hours)
BCN201	Persuasive & Analytical Writing for Business Communication	(3 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
SSC101	Introduction to Psychology	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
EEM101	Environmental Studies	(3 credit hours)
CSC210	Applications of Information Communications Technologies	(2+1 credit hours)
LAN30*	Foreign Language	(3 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
REL102	Understanding of Holy Quran I **	(1 credit hour)
REL103	Understanding of Holy Quran II **	(1 credit hour)

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

* Foreign Language Course

*1 Arabic *2 French *3 Italian *4 German *5 Chinese

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour).*

*** Non-Muslim students will take Comparative Religion I (REL112) and Comparative Religion II (REL113) in place of Understanding of Holy Quran, as approved by institute statutory body*

***** BS students are required to complete relevant certification (equivalent to 3 credit hours) over the period of four-year program as a mandatory condition for degree completion. Students will select the certification with the consultation of the respective program head.*

BNC010 Intensive English (Pre-Sessional Course) ***

**** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester.*



Interdisciplinary Courses (12 Credit Hrs)

ECN103	Principles of Economics	(3 credit hours)
MAN311	Technology & Innovation Management	(3 credit hours)
SCN401	Sustainability and Reverse Logistics	(3 credit hours)
MGT402	Leadership and Business Ethics	(3 credit hours)

Mandatory Business Core Courses (33 Credit Hrs)

MRK303	Digital Media and Marketing	(3 credit hours)
BIA310	AI in Business	(3 credit hours)
MRK101	Fundamentals of Marketing Management	(3 credit hours)
ACS301	Cost and Management Accounting	(3 credit hours)
HRM201	Human Resource Management	(3 credit hours)
FNS201	Introduction to Business Finance	(3 credit hours)
FNS202	Financial Management	(3 credit hours)
MGT403	Strategic Management	(3 credit hours)
ACS101	Introduction to Financial Accounting	(3 credit hours)
MGT102	Introduction to Management and Organizational Behavior	(3 credit hours)
RES302	Business Research Methods	(3 credit hours)

Domain Core Courses

SCN101	Essentials of Supply Chain	(3 credit hours)
SCN102	Foundation of Production Management	(3 credit hours)
SCN201	Supplier Sourcing Strategies	(3 credit hours)
SCN202	Quality Management and Lean Practices	(3 credit hours)
SCN203	Procurement Management	(3 credit hours)
SCN301	Logistics and Operations Management	(3 credit hours)
SCN302	Import Export Management	(3 credit hours)
ERP310	Enterprise Resource Planning	(3 credit hours)
SCN304	Supply Chain Analytics	(3 credit hours)
SCN305	Storage and Warehouse Techniques	(3 credit hours)
SCN306	Transportation Techniques and Management	(3 credit hours)
SCN402	Supply Chain Design	(3 credit hours)
SCN403	Six Sigma	(3 credit hours)
SCN480	Capstone Project	(3 credit hours)

Electives - 06 Courses (18 credit hours)

The students have to take 6 elective courses (18 credit hours) to complete their degree requirement.

SCN451	E-business Strategies in SCM
SCN452	Risk Analysis in Supply Chain
SCN453	Transportation analysis
SCN454	Retail Logistics
SCN455	Shipping and Port Operations
SCN456	Supply Chain Finance and Costing
SCN457	Supply Chain 4.0 and Data Sciences
SCN458	Supply Chain Technology, Systems, and Innovations
SCN459	Operational Research and Simulation
SCN460	International Logistics
SCN461	Inventory Planning and Control
SCN462	Supply Chain Project Management
SCN463	Packaging Design and Environmental Aspects



Semester I

Course Code	Course Title	Credit Hours	Pre-requisite
ECN103	Principles of Economics	3	
MAT102	Business Mathematics and Statistics	3	
REL101	Islamic Studies	2	
BCN101	Academic English	3	
ACS101	Introduction to Financial Accounting	3	
SSC101	Introduction to Psychology	3	

Semester II

Course Code	Course Title	Credit Hours	Pre-requisite
STS202	Inferential Statistics	3	MAT102
BCN201	Persuasive & Analytical Writing for Business Communication	3	
SCN101	Essentials of Supply Chain Management	3	
PSC101	Pakistan Studies	3	
ETP101	Entrepreneurship	3	
SCN102	Foundations of Production Management	3	

Semester III

Course Code	Course Title	Credit Hours	Pre-requisite
PSC201	Ideology and Constitution of Pakistan	2	PSC101
FNS201	Introduction to Business Finance	3	ACS101
EEM101	Environmental Studies	3	
SCN201	Supplier Sourcing Strategies	3	SCN101
MGT102	Introduction to Management and Organizational Behavior	3	
LAN30*	Foreign Language	3	
REL102	Understanding of Holy Quran I	1	

Semester IV

Course Code	Course Title	Credit Hours	Pre-requisite
CSC210	Applications of Information Communications Technologies	3	
MRK101	Fundamentals of Marketing Management	3	
SCN202	Quality Management and Lean Practices	3	SCN101
SCN203	Procurement Management	3	SCN101
HRM201	Human Resource Management	3	MGT102
SSC303	Service-Learning and Civic Responsibility	2	
REL103	Understanding of Holy Quran II	1	

Semester V

Course Code	Course Title	Credit Hours	Pre-requisite
MRK303	Digital Media and Marketing	3	MRK101
FNS202	Financial Management	3	FNS201
SCN301	Logistics and Operations Management	3	SCN101
SCN302	Import Export Management	3	SCN201
MGT402	Leadership and Business Ethics	3	MGT102
RES302	Business Research Methods	3	SCN101

Semester VI

Course Code	Course Title	Credit Hours	Pre-requisite
ERP310	Enterprise Resource Planning	3	BIA201
ACS301	Cost and Management Accounting	3	ACS101
SCN304	Supply Chain Analytics	3	SCN203
SCN305	Storage and Warehouse Techniques	3	SCN101
SCN306	Transportation Techniques and Management	3	SCN101
BIA310	AI in Business	3	

Semester VII

Course Code	Course Title	Credit Hours	Pre-requisite
MAN311	Technology & Innovation Management	3	MGT102
SCN401	Sustainability and Reverse Logistics	3	SCN301
MGT403	Strategic Management	3	MGT102
	Elective 1	3	
	Elective 2	3	
	Elective 3	3	

Semester VIII

Course Code	Course Title	Credit Hours	Pre-requisite
SCN402	Supply Chain Design	3	SCN304
SCN403	Six Sigma	3	SCN101
	Elective 4	3	
	Elective 5	3	
	Elective 6	3	
SCN480	Capstone Project	3	RES302

BS BUSINESS INTELLIGENCE AND ANALYTICS

The BS Business Intelligence and Analytics is designed for students who want to bridge the gap between business and technology. In today's data-driven world, companies rely on professionals who can interpret complex data, identify trends, and make informed business decisions. This program provides students with a strong foundation in business, computation, and technology, focusing on real-world applications of data analysis, artificial intelligence, and machine learning in business settings. With companies increasingly relying on data to gain a competitive edge, graduates of this program will be highly sought after in both corporate and entrepreneurial settings. The BS Business Intelligence and Analytics program integrates the S&P Capital IQ Pro platform, providing students access to extensive real time business/financial data, analytics tools, and industry insights.

BS Business Intelligence and Analytics degree requires completion of 146 credit hours over eight regular semesters (four years), including a mandatory internship (3 credit hours) and a Capstone project (3 credit hours). It will allow students to gain hands-on experience in industries where data-driven decision-making is essential. Graduates of this program will be prepared to work in industries such as banking, retail, healthcare, e-commerce, manufacturing, and consulting, HR, Supply chain domain. They will develop the skills to create and implement data-driven business strategies in the corporate world. In order to graduate, the students must maintain a CGPA of 2.5. The students are required to complete 12 General Education courses in the first four semesters. Courses are divided into general education, interdisciplinary, discipline-related Courses, and elective courses. A full load of six courses can be taken each in Fall and Spring semesters with an option of remedial courses (failure, improvement or pre-requisite past courses) for the shortfall in the summer semester.

General Education Courses

SSC101	Introduction to Psychology	(3 credit hours)
MAT102	Business Mathematics and Statistics	(3 credit hours)
BCN101	Academic English	(3 credit hours)
MAT105	Linear Algebra and calculus	(3 credit hours)
REL101	Islamic Studies/Ethics	(2 credit hours)
BCN203	Persuasive & Analytical Writing for Business	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
LAN30*	Foreign Language	(3 credit hours)
CSC210	Applications of Information Communications Technologies	(3 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
REL102	Understanding of Holy Quran I /General Education**	(1 credit hour)
REL103	Understanding of Holy Quran II /General Education**	(1 credit hour)

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

***Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.*

****BS Business Intelligence and Analytics students are required to complete relevant certification (equivalent to 3 credit hours) over the period of four-year program as a mandatory condition for degree completion. Students will select the certification with the consultation of the respective program head.*

BCN010 Intensive English (Pre-Sessional Course) ****

**** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester.*



Selection of foreign language

* Foreign Language Course

*1 Arabic

*2 French

*3 Italian

*4 German

*5 Chinese

Interdisciplinary Courses

ECN103	Principles of Economics	(3 credit hours)
BIA102	Fundamentals of Programming	(3 credit hours)
MGT401	Technology and Innovation Management	(3 credit hours)
STS202	Inferential Statistics	(3 credit hours)

Discipline/Core Business Related Courses

ACS101	Introduction to Financial Accounting	(3 credit hours)
MGT102	Introduction to Management and Organizational Behavior	(3 credit hours)
MRK101	Fundamentals of Marketing Management	(3 credit hours)
FNS201	Introduction to Business Finance	(3 credit hours)
HRM201	Human Resource Management	(3 credit hours)
MGT402	Leadership and Business ethics	(3 credit hours)
ACS301	Cost and Management Accounting	(3 credit hours)
FNS202	Financial Management	(3 credit hours)
MGT403	Strategic Management	(3 credit hours)
BIA101	Introduction to Business Analytics	(3 credit hours)
BIA201	SQL for Business Intelligence	(3 credit hours)
BIA202	Statistical modelling and Data Analytics	(3 credit hours)
BIA203	Business Intelligence & Data Visualization	(3 credit hours)
BIA204	Programming Applications for Business Analytics	(3 credit hours)
BIA302	HR Analytics for Business	(3 credit hours)
BIA303	Supply chain and Operations Analytics	(3 credit hours)
BIA304	Big Data for Business Intelligence	(3 credit hours)
RES301	Business Research Methods	(3 credit hours)
BIA306	Machine Learning for Business	(3 credit hours)
BIA307	Strategic Marketing Analytics	(3 credit hours)
BIA401	Time Series and Forecasting Models	(3 credit hours)
BIA402	Deep Learning and AI for Business	(3 credit hours)
BIA403	Analytics in Financial Decision Making	(3 credit hours)
BIA404	Digital Marketing and Social Media Analytics	(3 credit hours)
BIA481	Capstone -Business Intelligence and Analytics	(3 credit hours)
INTxxx	Internship	(3 credit hours)

Electives - 06 Courses (18 credit hours)

The students have to take 6 elective courses (18 credit hours) to complete their degree requirement.

BIA450	Customer Relationship Management Analytics
BIA451	Consumer Sentiment & Experience Analytics
BIA452	Cybersecurity & Data Privacy Analytics
BIA453	AI in Talent Strategy & Planning
BIA454	Real-Time Data & IoT Analytics
BIA455	Web Analytics & Conversion Optimization
BIA456	AI & Digital Transformation in Supply Chain
BIA457	Data scrapping
BIA458	Psychographic & Digital Behavior Analytics
BIA459	ESG & Sustainability Analytics
BIA460	Cryptocurrency & Blockchain Analytics
BIA461	Financial Markets & Analytics
BIA462	Healthcare Analytics



Course Structure

Semester I

Course Code	Course Title	Credit Hours	Pre-requisite
SSC101	Introduction to Psychology	3	
ECN103	Principles of Economics	3	
MAT102	Business Mathematics and statistics	3	
REL101	Islamic Studies	2	
BCN101	Academic English	3	
ACS101	Introduction to Financial Accounting	3	

Semester II

Course Code	Course Title	Credit Hours	Pre-requisite
PSC101	Pakistan studies	3	
BCN203	Persuasive & Analytical Writing for Business	3	BCN101
MAT105	Linear Algebra and calculus	3	MAT102
EEM101	Environmental Studies	3	
STS202	Inferential Statistics	3	MAT102
MGT102	Introduction to Management and Organizational Behavior	3	

Semester III

Course Code	Course Title	Credit Hours	Pre-requisite
LAN30*	Foreign language	3	
PSC201	Ideology and Constitution of Pakistan	2	PSC101
MRK101	Fundamentals of Marketing Management	3	
FNS201	Introduction to Business Finance	3	ACS101
BIA101	Introduction to Business Analytics	3	STS202
BIA102	Fundamentals of Programming	3	MAT105

Semester IV

Course Code	Course Title	Credit Hours	Pre-requisite
CSC210	Applications of Information Communications Technologies	3	
SSC303	Service-Learning and Civic Responsibility	2	
BSE101	Entrepreneurship	3	
BIA201	SQL for Business Intelligence	3	BIA102
HRM201	Human Resource Management	3	MGT102
ACS301	Cost and Management Accounting	3	ACS101

Semester V

Course Code	Course Title	Credit Hours	Pre-requisite
MGT402	Leadership and Business ethics	3	MGT102
BIA202	Statistical modelling and Data Analytics	3	STS202; BIA101
BIA203	Business Intelligence & Data Visualization	3	BIA201
BIA204	Programming Applications for Business Analytics	3	BIA102
FNS202	Financial Management	3	FNS201
BIA302	HR Analytics for Business	3	HRM201

Semester VI

Course Code	Course Title	Credit Hours	Pre-requisite
BIA303	Supply chain and Operations Analytics	3	
BIA304	Big Data for Business Intelligence	3	BIA201; BIA203
BIA305	Business Research Methods	3	BIA202
BIA306	Machine Learning for Business	3	BIA202; BIA204
MGT403	Strategic Management	3	MGT402
BIA307	Strategic Marketing Analytics	3	MRK101

Semester VII

Course Code	Course Title	Credit Hours	Pre-requisite
	Elective 1	3	
	Elective 2	3	
BIA401	Time Series and Forecasting Models	3	BIA202
BIA402	Deep Learning and AI for Business	3	BIA306
MGT401	Technology and Innovation Management	3	
BIA403	Analytics in Financial Decision Making	3	FNS202

Semester VIII

Course Code	Course Title	Credit Hours	Pre-requisite
	Elective3	3	
	Elective4	3	
	Elective5	3	
	Elective 6	3	
BIA404	Digital Marketing and Social Media Analytics	3	BIA307
BIA481	Capstone -Business Intelligence and Analytics	3	

BS DIGITAL AND NEURO MARKETING

The BS Digital and Neuro Marketing program is a forward-looking undergraduate degree program designed to equip students with the advanced skills required to understand, predict, and influence consumer behavior in today's digitally driven world. By integrating digital strategy, data analytics, and neuroscience, the program enables students to explore how attention, emotion, memory, and perception shape consumer choices across digital and physical environments. Students learn how to interpret behavioral patterns, decode engagement signals, and transform complex data into meaningful insights that drive impactful marketing strategies.

Moreover, in a highly competitive and rapidly evolving global marketplace, marketing success is no longer based on intuition or guesswork. Organizations increasingly depend on measurable insights, behavioral intelligence, and technological precision to stay ahead. This program responds to that shift by training students to approach marketing as a science as well as an art. Built on an experiential learning pedagogy, the program emphasizes hands-on practice through real-world projects, simulations, and lab-based experimentation. Students actively work in a state-of-the-art NeuroLab, using tools such as EEG, eye tracking, and biometric sensors to conduct experiments, analyze real consumer responses, and generate data-driven insights.

The BS Digital and Neuro Marketing curriculum spans four years, encompassing the completion of 146 credit hours, including a mandatory eight-week internship at IoBM-approved firm, a certification, and an industry-savvy Capstone Project. To fulfill degree requirements, students must successfully complete 48 courses, 1 certification, 1 capstone project, and 1 internship, and maintain a minimum CGPA of 2.5. Students are required to complete general education courses in the first four semesters to be eligible to proceed to the fifth semester.

General Education Courses

BCN101	Academic English	(3 credit hours)
MAT102	Business Mathematics and Statistics	(3 credit hours)
SSC101	Introduction to Psychology	(3 credit hours)
BCN203	Persuasive and Analytical Writing for Business	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
REL101	Islamic Studies/Ethics	(2 credit hours)
LAN30*	Foreign Language*	(3 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
STS202	Inferential Statistics	(3 credit hours)
CSC210	Applications of Information Communications Technologies	(3 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
REL102	Understanding of Holy Quran I /General Education**	(1 credit hour)
REL103	Understanding of Holy Quran II /General Education**	(1 credit hour)

BCN010 Intensive English (Pre-Sessional Course)

A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IoBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester

Selection of foreign language

* Foreign Language Course

*1 Arabic *2 French *3 Italian *4 German *5 Chinese

Understanding of Holy Quran

** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.

Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.



Interdisciplinary Courses

ECN103 Principles of Economics	(3 credit hours)
BCN202 Business and Professional Speech	(3 credit hours)
LWS103 Legal and Regulatory Environment of Business	(3 credit hours)
MGT401 Technology & Innovation Management	(3 credit hours)

Mandatory Core Courses

Course code and Title	Credit Hours	Pre-req
MGT102 Introduction to Management and Organizational Behavior	(3 credit hours)	
ACS101 Introduction to Financial Accounting	(3 credit hours)	
MRK101 Fundamentals of Marketing Management	(3 credit hours)	
FNS201 Introduction to Business Finance	(3 credit hours)	
MRK303 Digital Media and Marketing	(3 credit hours)	MRK101
HRM201 Human Resource Management	(3 credit hours)	
MGT402 Leadership and Business Ethics	(3 credit hours)	
RES301 Business Research Methods	(3 credit hours)	
ACS301 Cost and Management Accounting	(3 credit hours)	
BIA310 AI in Business	(3 credit hours)	
ETP101 Entrepreneurship	(3 credit hours)	
FNS202 Financial Management	(3 credit hours)	
MGT403 Strategic Management	(3 credit hours)	

Domain Core Courses

Course code and Title	Credit Hours	Pre-req
DNM101 Foundations of Neuroscience for Marketing	(3 credit hours)	
DNM201 Neuro-Behavioral Marketing	(3 credit hours)	DNM101
DNM202 Choice Architecture and Nudging	(3 credit hours)	DNM201
DNM203 Search Engine Marketing	(3 credit hours)	MRK303
DNM301 Digital Media Buying, Planning and Forecasting	(3 credit hours)	MRK303
DNM302 Content Marketing and Consumer Psychology	(3 credit hours)	DNM201
DNM303 Digital Gamification and Engagement	(3 credit hours)	MRK303
DNM304 Neuro-Digital Tools for Marketing	(3 credit hours)	RES301
DNM401 Brand and Sensory Management	(3 credit hours)	DNM201
DNM402 Certification course**	(3 credit hours)	
DNM403 Marketing Ethics and Consumer Aberrations	(3 credit hours)	DNM201
DNM404 Neuro-Advertising	(3 credit hours)	DNM201
DNMXXX capstone project	(3 credit hours)	

***BS Digital and Neuro Marketing students are required to complete relevant certification (equivalent to 3 credit hours) as a mandatory condition for degree completion. Students will select the certification with the consultation of the respective program head.*

Electives - 06 Courses (18 credit hours)

The students have to take 6 elective courses (18 credit hours) to complete their degree requirement.

Course code & Title	Pre-req
DNM501 Gig Economy and Q-commerce	MRK303
DNM502 Digital and Social Media Analytics	MRK303
DNM503 Digital Behavior and Venture Launch	MRK303
DNM504 Marketing of High-tech products and innovations	MRK101
DNM505 Artificial Intelligence in Digital Marketing	MRK303
DNM506 Data Visualization for Marketing Decisions	MRK303
DNM507 Interactive Web Design and analysis	MRK303
DNM508 Emotions and Sentiment Analysis	DNM201
DNM509 Merchandising and Service Design	DNM201
DNM510 Personality and Consumer Preferences	DNM201
DNM511 Consumer Persuasion and Strategic Marketing	DNM201
DNM512 Event and Neuromarketing	DNM201
DNM513 Dynamic Pricing and Growth Strategies	MRK101



Course Structure

Semester I

Course Code	Course Title	Credit Hours	Pre-requisite
BCN101	Academic English	3	
ECN103	Principles of Economics	3	
DNM101	Foundations of Neuroscience for Marketing	3	
MAT102	Business Mathematics and Statistics	3	
MGT102	Introduction to Management and Organizational Behavior	3	
SSC101	Introduction to Psychology	3	

Semester II

Course Code	Course Title	Credit Hours	Pre-requisite
ACS101	Introduction to Financial Accounting	3	
BCN203	Persuasive and Analytical Writing for Business	3	
EEM101	Environmental Studies	3	
MRK101	Fundamentals of Marketing Management	3	
PSC101	Pakistan Studies	3	
REL101	Islamic Studies/Ethics	2	

Semester III

Course Code	Course Title	Credit Hours	Pre-requisite
FNS201	Introduction to Business Finance	3	
LAN30*	Foreign Language	3	
MRK303	Digital Media and Marketing	3	MRK101
DNM201	Neuro-Behavioral Marketing	3	DNM101
PSC201	Ideology and Constitution of Pakistan	2	
STS202	Inferential Statistics	3	

Semester IV

Course Code	Course Title	Credit Hours	Pre-requisite
BCN202	Business and Professional Speech	3	
DNM202	Choice Architecture and Nudging	3	DNM201
CSC210	Applications of Information Communications Technologies	3	
LWS103	Legal and Regulatory Environment of Business	3	
DNM203	Search Engine Marketing	3	MRK303
SSC303	Service-Learning and Civic Responsibility	2	

Semester V

Course Code	Course Title	Credit Hours	Pre-requisite
DNM301	Digital Media Buying, Planning and Forecasting	3	MRK303
DNM302	Content Marketing and Consumer Psychology	3	DNM201
HRM201	Human Resource Management	3	
MGT401	Technology & Innovation Management	3	
MGT402	Leadership and Business Ethics	3	
RES301	Business Research Methods	3	

Semester VI

Course Code	Course Title	Credit Hours	Pre-requisite
ACS301	Cost and Management Accounting	3	
BIA310	AI in Business	3	
DNM303	Digital Gamification and Engagement	3	MRK303
	Electives I (See list)	3	(See list)
	Electives II (See list)	3	(See list)
DNM304	Neuro-Digital Tools for Marketing	3	RES301

Semester VII

Course Code	Course Title	Credit Hours	Pre-requisite
DNM401	Brand and Sensory Management	3	DNM201
DNM402	Certification course	3	
ETP101	Entrepreneurship	3	
FNS202	Financial Management	3	
	Electives III (See list)	3	(See list)
	Electives IV (See list)	3	(See list)

Semester VIII

Course Code	Course Title	Credit Hours	Pre-requisite
DNM403	Marketing Ethics and Consumer Aberrations	3	DNM201
DNM404	Neuro-Advertising	3	DNM201
MGT403	Strategic Management	3	
	Electives V (See list)	3	(See list)
	Electives VI (See list)	3	(See list)
DNMXXX	Capstone Project	3	

Summer Semester

Course code and Title

REL102 Understanding of Holy Quran I /General Education
 REL103 Understanding of Holy Quran II /General Education
 INTXXX Internship

Credit Hours

(1 credit hour)
 (1 credit hour)
 (3 credit hours)

Pre-req



MBA PROGRAM

MBA program is designed to produce transformational, ethical and change leadership for businesses and industry through an integrated curriculum, experiential learning and prepares graduates for business challenges emerging from globalization, connectivity and technology driven innovations. The program is designed to produce a skilled pool of business leaders possessing multidisciplinary expertise.

A distinguishing feature of the program is the academic ecosystem of experiential learning which immerses the student in a cycle of “learning by doing” through reflection. Case studies and project work are among the pedagogies used for delivery of the curriculum content. A significant value adding feature is the 4 credit hours of a Graduate Capstone Project divided into two 2 credit hour components. Students undertake, individually or in small groups, a real-life project with a company that addresses a real-life issue which, through the application of multidisciplinary knowledge and skills acquired during MBA studies, helps in more profitable and competitive decision making and implementation in the organization. This project is jointly supervised and evaluated by a faculty member with aligned skills and interest of an industry mentor and is evaluated in an open exhibition by executives and faculty members.

Structure of MBA program

MBA program at CBM is a 66 credit-hour program that most students can complete in two years corresponds to NQF Qualification level 7. It is designed for students with a minimum of 16 years of education with degrees both degrees in business and non-business relevant disciplines. MBA program at CBM shares a unified structure consisting of a foundation level followed by the advanced and the specialization level. The foundation level of the MBA program fulfills the minimum eligibility requirements of HEC to switch from a non-business major at the bachelor stage to a master level program. The foundation level consists of 32 credit hours of coursework and prepares the students for the higher-level MBA courses.

Course Composition of MBA Program

- Foundation Level: 10 courses, 30 credit hours
- General education: 2 Courses, 2 credit hours (Understanding of Holy Quran I and Understanding of Holy Quran II)
- Advanced Level: 6 courses, 18 credit hours
- Capstone Projects: 2 projects, 4 credit hours
- Specialization Level: 4 courses, 12 credit hours

Opting for Specialization

Students of 66 credit hours MBA will decide their specialization after completion of 30 credit hours (foundation courses of first two semesters). The students enrolled in 36 credit hours MBA will opt for specialization at the time of enrolment in MBA program.

Class schedules

Classes for the MBA program are offered during weekday evenings and on weekends to accommodate working professionals.

CBM offers MBA in the following disciplines

- Marketing
- Management
- Accounting
- Finance
- Business Intelligence & Analytics
- Human Resource Management
- Supply Chain Management
- Health and Hospital Management
- Media Management and Marketing
- Industrial Management
- Environmental and Energy Management
- Education Management
- Project Management
- Innovation Management and Entrepreneurship

Exemptions for IoBM Students

- MBA students, who have completed their business relevant* bachelor program from CBM, are exempted from the 30-credit hours of the Foundation Level of the standardized 66 credit hours MBA Program.
- Applicants with 4 years bachelor degree from IoBM in a non-business relevance discipline will not be allowed to get any exemption and will complete 66 credit hours of MBA program.

Exemptions for Non IoBM Students

- MBA applicants from NBEAC accredited Higher Education Institutions (HEIs) or Universities may be eligible for up to 30-credit hour exemption by fulfilling all other admission and exemption** requirements of IoBM.
- Students coming from NBEAC non-accredited business school will not be allowed to get any exemptions. These students will be enrolled in 66 credit hours MBA program.

** The business relevance of a program is determined if more than 60% of the course content taught in the degree program is from the business domain. The percentage of business content is calculated by dividing the total number of credit hours from business-related courses by the total credit hours of the program*

*** All exemptions are subject to approval from exemption committee. To avail the exemption of courses,*

1. B+ and above grade will be considered in a course
2. At least 90% of the course content from the previously studied course must match the IoBM course outline.
3. Students may apply for exemptions from the issuance of their student ID cards up to two weeks after the start of the semester.

Students joining CBM for the first time are expected to have qualified the MBA Boot Camp (Details on Page No. 53).
Foundation Level Course

Foundation Level Course

Accounting

ACS501 Accounting for Managers
ACS511 Managerial Accounting

Finance

FNS501 Financial Management Practices

Economics

ECN501 Microeconomics
ECN502 Macroeconomics

Management

MGT501 Management and Organizational Dynamics
HRM500 Managing Human Capital

Marketing

MRK501 Marketing Management

Quantitative

RES501 Applied Business Research

Artificial Intelligence

BIA512 AI for Business Decision Making

General Education: (Non-Muslim students will be required to do the alternative courses instead of Understanding of Holy Quran I and II)

REL502 Understanding of Holy Quran I

REL503 Understanding of Holy Quran II

REL512 Comparative Religion I (For Non-Muslim Students)

REL513 Comparative Religion II (For Non-Muslim Students)

MBA Structure – 66 Credit Hours

First Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS501	Accounting for Managers	3	
MRK501	Marketing Management	3	
ECN501	Microeconomics	3	
MGT501	Management and Organizational Dynamics	3	
RES501	Applied Business Research	3	



Second Semester

Course Code	Course Title	Credit Hours	Pre-requisite
ACS511	Managerial Accounting	3	ACS501
FNS501	Financial Management Practices	3	ACS501
ECN502	Macroeconomics	3	ECN501
HRM500	Managing Human Capital	3	MGT501
BIA512	AI in Business Decision Making	3	

Third Semester

Course Code	Course Title	Credit Hours	Pre-requisite
SCN501	Strategic Supply Chain Management	3	
BIA501	Business Analysis & Forecasting	3	MGT501
FNS511	Strategic Financial Analysis and Design	3	FNS501
	Capstone Project-I	2	
	Elective-I	3	
	Elective-II	3	
REL502	Understanding of Holy Quran I	1	

Fourth Semester

Course Code	Course Title	Credit Hours	Pre-requisite
MRK502	Marketing Strategies and Value Innovation	3	MRK501
MGT502	Leadership, Ethics and Change	3	BIA501
MGT503	Corporate Strategy	3	BIA501
	Capstone Project-II	2	Capstone Project I
	Elective-III	3	
	Elective-IV	3	
REL503	Understanding of Holy Quran II	1	REL502

MBA after Bachelors in Business Discipline (36 Credit Hours)

First Semester

Course Code	Course Title	Credit Hours	Pre-requisite
SCN501	Strategic Supply Chain Management	3	
BIA501	Business Analysis and Forecasting	3	
FNS511	Strategic Financial Analysis and Design	3	
	Elective-I	3	

Second Semester

Course Code	Course Title	Credit Hours	Pre-requisite
MRK502	Marketing Strategies and Value Innovation	3	
MGT502	Leadership, Ethics and Change	3	BIA501
REL502	Understanding of Holy Quran I	1	
	Capstone Project-I	2	
	Elective-II	3	

Third Semester

Course Code	Course Title	Credit Hours	Pre-requisite
MGT503	Corporate Strategy	3	BIA501
REL503	Understanding of Holy Quran II	1	REL502
	Capstone Project-II	2	Capstone Project I
	Elective-III	3	
	Elective-IV	3	

List of Elective/Specialization Courses

3 Credit Hours

Marketing

MRK650 Marketing Analytics
MRK651 Pricing Models and Strategies MRK653 Marketing of Financial Services MRK654 Strategic Brand Management
MRK655 Advertising Management and Strategy
MRK656 Marketing Research
MRK657 Marketing Strategies for Emerging Economies
MRK659 Pharmaceutical Marketing & Quality Assurance
MRK660 Business to Business Marketing
MRK661 Marketing for Social Impact
MRK662 Future Marketing Technologies
MRK663 Competitive Strategies
MRK664 Direct and Digital Marketing
MRK665 Growth Marketing
MRK666 Shopper Marketing

Management

MGT650 Management Hospitality & Tourism Management
MGT651 Total Quality Management
MGT652 Business Process Re-engineering
MGT653 Negotiation & Conflict Resolution
MGT654 Digital Leadership in VUCA World
MGT655 Organizational Psychology
MGT656 Production and Operations Management
MGT657 Technology Operations & Innovation
MGT658 Project Management
MGT659 Corporate Governance
MGT660 Emerging Organizational Models for Dynamic Change
MGT661 Crisis Management & Sustainability
MGT662 Change Management
MGT663 International Management
MGT664 Comparative Management
MGT665 Corporate Social Responsibility

Business Intelligence & Analytics

BIA650 Data Visualization Techniques
BIA651 Strategic Business Intelligence & Data Management
BIA652 Managerial Decision-Making with BI Tools
BIA653 Applied Business Analytics
BIA654 Digital Consumer Analytics & Insights
BIA655 Predictive Analytics for Business Strategy
BIA656 Big Data Technologies for Business
BIA657 Machine Learning Applications in Business
BIA658 Data Governance and Ethics in Business
BIA659 Business Process Analytics and Optimization
BIA660 Blockchain and Data Security for Business

Finance Electives

Accounting Courses

ACS651 Advanced Auditing and Control
ACS652 Advanced Financial Reporting
ACS653 Advanced Managerial Accounting
ACS654 Advanced Topics in Financial Accounting
ACS655 Forensic Accounting
ACS656 Mergers, Acquisitions, and Restructuring
ACS657 Sustainability Reporting
ACS658 Taxation Laws

Finance Courses

FNS651 Behavioral Finance
FNS652 Entrepreneurial Finance
FNS653 Financial Derivatives and Risk Management
FNS654 Financial Modeling for Investment Decisions
FNS655 Financial Regulations for Risk Management
FNS656 FINTECH & Digital Finance
FNS657 International Financial Management
FNS658 Project Risk Management

Banking Courses

ISF651 Accounting for Islamic Finance
FNS661 Asset Liability Management
ISF652 Economics for Islamic Finance
FNS662 International Banking
FNS663 Investment Banking
ISF653 Islamic Banking Practices
FNS664 Retail and Consumer Banking
ISF654 Takaful and Insurance

Supply Chain Management

SCN651 Introduction to ERP Systems
SCN652 Procurement and Inventory Management
SCN653 Risk Management in Supply Networks
SCN654 Innovation Management in Supply Chain and Logistics
SCN655 Supply Chain Project Management
SCN656 Import Export Management
SCN657 Lean Six Sigma and Lean Manufacture
SCN658 Supply Chain Analytics

Education Management

EDM651 Innovations and Technology in Education
EDM653 Global Trends in Education
EDM654 Lifelong Learning in Changing Contexts
EDM655 Distance Learning in the 21st Century
EDM656 Teacher Education
EDM657 Edupreneurship in the Changing World



Human Resource Management

HRM650 Strategic Human Resource Management
HRM651 HR Analytics
HRM652 Managing Diversity & Inclusion in Organization
HRM653 Talent Acquisition
HRM654 Labor Studies and Employee Relation
HRM655 Learning and Organizational Development
HRM656 Negotiations and Conflict Resolution Skills
HRM657 Managing Organizational Change
HRM658 Talent Management and Performance Development
HRM659 Rewards Management

Health and Hospital Management

MHM651 Health Policy and Analytics for decision Making
MHM652 Health Informatics
MHM653 Health Ethics, Law and Jurisprudence
MHM654 Health Service Delivery and Operation Management
MHM655 Pharmacovigilance
MHM656 Concept of Primary Health Care
MHM657 Marketing of Health Service
MHM658 Global and Local Public Health Challenges

Media Management and Marketing

MMM651 Entrepreneurship and E-Commerce
MMM652 Media and Social Change
MMM653 Seminar in strategic Media Marketing
MMM654 Screen writing for TV and Cinema
MMM655 Advanced Documentary Filmmaking
MMM656 Media Psychology
MMM657 Media and public opinion
MMM658 Digital Marketing

Industrial Management

INM651 Facilities Planning
INM652 Maintenance Management
INM653 Industrial Safety, Health, And Environment
INM654 Enterprise Life Cycle Management
INM655 Industrial Technology Management
INM656 Operation Research
INM657 Enterprise Risk Management
INM658 Logistic and Inventory control
INM659 Advance Production Planning & Control
INM660 Integrated Manufacturing Systems
INM661 Advance Manufacturing Processes
MGT651 Total Quality Management
MGT652 Business Process Reengineering
MGT656 Production and Operation Management
MGT658 Project Management

Environment and Energy Management

EEM651 Air and Noise Pollution Management
EEM652 Coastal Environment and Management
EEM653 Climatic Changes and its Impact
EEM654 Natural Resources Management
EEM655 Hospital Waste Management
EEM656 Solid and Hazardous Waste Management
EEM657 Energy Audit
EEM658 Energy Conservation
EEM659 Energy Planning
EEM660 Environmental Ethics
EEM661 Public Awareness for Environment and Energy Sector
EEM662 Risk and Disaster Management

Project Management

MGT658 Project Management
PMC651 Project Planning and Scheduling
PMC652 Project Finance and Budgeting
PMC653 Risk Management in Projects
PMC654 Project Management Software and Tools
PMC655 Sustainable Project Management Practices
PMC656 Project Quality Management
PMC657 Project Portfolio Planning and Execution

Innovation Management and Entrepreneurship

MGT657 Technology, Operations and Innovation
ETP651 Entrepreneurship and Small Management Enterprises
ETP652 Consultancy and Intrapreneurship
ETP653 Agile Project Management
ETP654 Technology Product Management
ETP655 Intellectual Property and Commercialization
ETP656 Design Thinking Methodology
ETP657 Entrepreneurship and Freelancing Platforms
ETP658 Prompt Engineering for GPTs

MBA Boot Camp: Orientation Program for New MBA Students

CBM challenges its incoming MBA students by offering a rigorous boot camp of orientation courses which fulfill the pre-requisite requirement to undertake foundation stage courses of the MBA program. Students with a four-year bachelor in commerce or business management are exempted from attending the camp. The exemption includes students with 2 years of B. Com plus 2 years of M.Com. The camp helps students from disparate backgrounds to bond quickly and prepare them for the intellectual challenge that they are going to encounter in the MBA program. They get a head-start with pre-requisite knowledge which acclimatizes them with the rigor and culture of CBM. This is an intensive 24-hour program which is spread over two weeks and conducted during weekends. Its objectives are:

1. To develop technical skills in statistical and IT tools
2. To develop a shared knowledge base in core areas of business
3. To bring their communication and presentation skills to the desired level
4. To provide orientation for personal organization and effectiveness
5. To familiarize them with pedagogies of case study, and experiential learning

Sr. No.	Modules	Number of Hours
1	Business Communication	6 hrs
2	Economics	6 hrs
3	Business Studies (Management, Marketing and Accounting)	6 hrs
4	Excel for Business Decision Making	6 hrs

MS IN BUSINESS MANAGEMENT

The MS in Business Management program has been designed to address the needs of both the corporate sector and academia. It offers a blend of industry-relevant skills and equips students with up-to-date research knowledge. The program also serves as a research pathway toward a PhD in Business Management. Career paths for graduates of the MS in Business Management program include roles such as faculty member, independent researcher, research associate, and management consultant.

Program Structure

The MS in Business Management is a 35-credit-hour program comprising nine courses (3 credit hours each) and a 6-credit-hour final research or coursework requirement. Muslim students are required to complete Understanding of the Holy Quran I and Understanding of the Holy Quran II (1 credit hour each), while non-Muslim students shall complete two alternative 1-credit-hour courses to fulfill the degree requirements.

Students shall complete the degree through one of the following pathways:

- MS with Thesis: Thesis (6 credit hours). The thesis shall be registered in two phases: Thesis I (3 credit hours) and Thesis II (3 credit hours). The thesis shall be completed under the supervision of a faculty member assigned through the Supervisor Allocation Committee.
- MS with Business Project: Business Project(s) (6 credit hours). The business project shall be registered in two phases: Business Project I (3 credit hours) and Business Project II (3 credit hours). The business project shall be completed under the supervision of a faculty member assigned through the Supervisor Allocation Committee.
- MS with Coursework: Two Coursework Electives or two Independent Research Studies (IRS) (3 credit hours each), totaling 6 credit hours, to be completed in accordance with the approved curriculum.

Students from intradisciplinary backgrounds may need to complete deficiency courses before starting MS coursework to bridge gaps in prior qualifications. Deficiency courses may be assigned on a case-by-case basis, depending on the student's educational background and identified academic deficiencies.

Deficiency courses

FNS501 Financial Management Practices
MGT501 Management and Organizational Dynamics
HRM500 Managing Human Capital
MRK501 Marketing Management
BIA501 Business Analysis & Forecasting
SCN501 Strategic Supply Chain Management
Any other course as required

Eligibility

- A minimum CGPA of 2.5 on a scale of 4.00 (or overall 60% marks) or equivalent
- A minimum of 16 years of schooling in a relevant field from HEC-recognized university/institution.
- *GAT general test conducted by the NTS is required with a minimum score of 50 marks.
- An interview conducted by the Institute
- Any other HEC stipulated requirement

*Applicants must qualify the GAT-General conducted by NTS with a minimum score of 50 marks or any other graduate admission test prescribed by the relevant regulatory authority at the time of transfer from Pre-MS to MS status.

Course Structure

The scheme of studies for MS(BM) is as follows:

- 02 GE Mandatory Courses (1 Credit Hours Each)
- 04 Mandatory Core Courses (12 Credit Hours)
- 05 Program Elective Courses (15 Credit Hours)
- 01 Thesis /Business Project(s) - 6 credit hours /02 Coursework Electives or 02 IRS of 3 credit hours each

Mandatory Core Courses

- MPM629 Research Writing and Methods
- MPM630 Digital and AI Strategy in Management
- MPM626 Qualitative Research
- MPM625 Quantitative Research

Program Elective Streams

(Program Electives can be selected from any of the following areas subject to course offering):

- Finance
- Marketing
- Human Resource Management
- Business Analytics
- Supply Chain Management
- Entrepreneurship

Admission Status – Pre-MS to MS

All newly admitted students shall initially be placed in Pre-MS status. Progression to MS status shall be subject to fulfillment of the prescribed transfer requirements.

• Students possessing the prescribed relevant academic background shall be eligible for progression to MS status upon qualifying the GAT-General (minimum score of 50 Marks), submitting all duly attested educational documents, equivalence of degree (if required), and completing the prescribed university formalities. Applicants who do not fulfill any of these requirements shall remain in Pre-MS status until the outstanding requirement(s) have been satisfied.

• Students with interdisciplinary academic backgrounds shall remain in Pre-MS status until they have successfully completed the prescribed deficiency courses, fulfilled the applicable graduate admission test requirement, submitted all duly attested educational documents and equivalence of degree (if required), and completed the prescribed University formalities.

Transitional Provision: Students who become eligible for progression to MS status by the end of Fall 2026 shall be required to qualify the GAT-General (minimum 50 marks). Those becoming eligible from Spring 2027 and onwards may be required to qualify the graduate admission test prescribed by HEC at that time (e.g., HAT), in accordance with the applicable HEC regulations.

Program Duration

- Regular/Minimum Duration: 1.5 Years (Three Regular Semesters)
- Maximum Duration: 3 Years (Six Regular Semesters)
- Further extendible for 1 Year (Two Regular Semesters) with the permission of the statutory bodies.
- Maximum course load for a semester is 13 credit hours.

Eligibility for Final Research Registration

• Students shall be eligible to register for the Thesis or Business Project upon successful completion of all mandatory core courses. In addition, students registering for the Thesis or business project must have a minimum Cumulative Grade Point Average (CGPA) of 3.00.

Mandatory Registration Policy

MS students are required to maintain continuous enrollment throughout the duration of their program. A student who remains inactive or fails to register for more than two semesters, whether consecutive or non-consecutive, shall have their admission cancelled. This policy shall take effect upon the commencement of the third semester of inactivity or non-registration.



Semester-wise distribution – MS Business Management - 35 Credit Hours

Semester I

MPM629 Research Writing and Methods	3 credit hours
MPM630 Digital and AI Strategy in Management	3 credit hours
MPM626 Qualitative Research	3 credit hours
Program Elective Course I	3 credit hours
REL502 Understanding of Holy Quran I /Alternative course for Non-Muslims	1 credit hour

Semester II

MPM625 Quantitative Research	3 credit hours
Program Elective Course II	3 credit hours
Program Elective Course III	3 credit hours
Program Elective Course IV	3 credit hours
REL503 Understanding of Holy Quran II /Alternative course for Non-Muslims	1 credit hour

Semester III

Program Elective V	3 credit hours
MPM631 Thesis I / MPM633 Business Project I/Course Work Elective I /	3 credit hours
MPM627 IRS I Course Work Elective II	3 credit hours
MPM628 IRS II (for coursework pathway only)	

Semester IV

MPM632 Thesis II/ MPM634 Business Project II	3 credit hours
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Program Electives

Marketing

MRK650 Marketing Analytics
MRK661 Marketing for Social Impact
MRK662 Future Marketing Technologies
MPM650 Digital Advertising Theory and Research
MPM651 Advance Marketing Strategy

HRM

HRM657 Managing Organizational Change
HRM650 Strategic Human Resource Management
HRM651 HR Analytics
HRM654 Labor Studies and Employee Relations
HRM655 Learning and Organizational Development
HRM657 Managing Organizational Change
HRM658 Talent Management and Performance Development
MPM656 Digital Recruitment Strategies and Tools
MPM657 Seminar in Human Resource Management

Supply Chain Management

SCN651 Introduction to ERP Systems
SCN652 Procurement and Inventory Management
SCN653 Risk Management in Supply Networks
SCN654 Innovation Mgmt. in Supply Chain and Logistics
SCN655 Supply Chain Project Management
SCN658 Supply Chain Analytics

Finance

MPM661 Econometrics (Mandatory Elective for Finance majors' students)
MPM665 Data Analytics for Finance
FNS65 Behavioral Finance
FNS654 Entrepreneurial Finance
FNS656 Financial Modelling for Investment Decisions
FNS658 Fintech & Digital Finance
ISF652 Economics for Islamic Finance
ISF653 Islamic Banking Practices
ISF651 Accounting for Islamic Finance
ISF655 Islamic Capital Markets
ISF656 International Islamic Finance Standards
FNS681 Financial Time Series
FNS682 Panel Data Analysis

Entrepreneurship

MPM670 Entrepreneurial Cognition and Behavioral Research
MPM671 Innovation, Technopreneurship, & Commercialization
MPM672 Social Entrepreneurship Impact Assessment
MPM673 Metaverse, Blockchain, & Entrepreneurial E-Commerce
MPM674 Diversity and Inclusion in Family Business

Business Analytics

MPM677 Advanced Business Simulation & Decision Modeling
MPM678 Consumer & Behavioral Analytics in Digital Ecosystems
MPM679 Advanced Predictive and Prescriptive Modeling
MPM680 Data Governance, Strategy, and Ethics
MPM681 Generative AI and Advanced Decision Analytics

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

It is mandatory for research students of MS and Ph.D. programs to attend the Multi-Disciplinary Research Seminar Series (MRSS) sessions on Saturdays (12:00 to 2:00 PM) each semester. At least 60% attendance is required.



PhD IN BUSINESS MANAGEMENT

The PhD in Business Management program fosters cutting-edge research and knowledge creation to advance the field of Business Management. It equips scholars with advanced analytical and research skills to investigate complex phenomena and develop theoretical insights. The program emphasizes ethical and sustainable research practices that contribute to both academic and societal development. It promotes interdisciplinary inquiry by integrating perspectives from business, economics, technology, and the social sciences. The program develops thought leaders, policymakers, and industry experts who drive innovation and influence the global business landscape through impactful, theory-driven scholarship.

Eligibility

MS/MPhil. or equivalent graduates from HEC-recognized institutes meeting the following criteria: A minimum CGPA of 3.00 on a scale of 4.00 or equivalent.

- A minimum CGPA of 3.00 on a scale of 4.00 or equivalent.
- A minimum of 17.5* years of schooling that corresponds to MS/MPhil or Equivalent degree from HEC recognized institutions in a relevant discipline.
- GAT subject test conducted by the NTS with a minimum of 60% marks or a Minimum of 70% marks in the IoBM test**.
- An interview conducted by the Institute.
- Any other HEC stipulated requirements.

**HEC equivalency is required. The candidate may have to undergo additional deficiency courses wherever required.*

*** Applicants are required to qualify the GAT–Subject conducted by NTS with a minimum score of 60 marks.*

Transitional Provision: Students who complete their deficiency courses by the end of Fall 2026 shall be required to qualify the GAT–Subject (minimum 60 marks). Students who complete their deficiency courses by Spring 2027 and onward shall be required to qualify the graduate admission test prescribed by HEC at that time (e.g., HAT), in accordance with the applicable HEC regulations.

Program Structure

Pre-requisites/Deficiency Courses:

- a) An additional pre-requisites courses may be assigned on a case-by-case basis, depending on the student's educational background and identified academic deficiencies.
- b) Completion of pre-PhD requirements is mandatory within a three-semester timeframe.

MPM629 Research Writing and Methods

MPM661 Econometrics (For Finance Students Only)

MPM626 Qualitative Research

MPM625 Quantitative Research

Any other course as required

PhD in Business Management (BM) is a comprehensive 48+02-credit-hour program. It includes 06 compulsory courses

(18 credit hours) and a dissertation of 30 credit hours. In addition, Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) courses during the summer semesters, while non-Muslim students are required to take two alternative courses (01 credit hour each) to complete the degree requirement. The program offers four streams: Finance, Marketing, Supply Chain Management, and Human Resource Management, ensuring a well-rounded education. After successful completion of coursework and passing the comprehensive exam, students are required to carry out research under the guidance of a research supervisor assigned by the Supervisor Allocation Committee.



Courses of Ph.D. Business Management (18-Credit Hours)

PBM711 Advanced Qualitative Research & Philosophy
PBM712 Advanced Quantitative Research
PBM719 Advanced Research Writing and Techniques
PBM715 Theories in Business Management Program
PBM720 Artificial Intelligence and Management
REL702 Understanding of the Holy Quran I
REL703 Understanding of the Holy Quran II

Program Electives in Five Different Streams

Course Code	Course Title	Specialization / Field
PBM860	Advanced Theories of Entrepreneurship & Innovation	Entrepreneurship
PBM861	Global Entrepreneurship Ecosystems	Entrepreneurship
PBM862	Innovation Policy, Institutions & Governance	Entrepreneurship
PBM863	Social Innovation and Sustainability Research	Entrepreneurship
PBM850	Advanced Topics in Finance	Finance
PBM856	Empirical Asset Pricing Models	Finance
PBM857	Forecasting and Financial Time Series	Finance
PBM859	Data Analytics for Finance	Finance
PBM851	Advanced Topics in HRM	Human Resource Management (HRM)
PBM852	Organizational Behavior and Strategy	Human Resource Management (HRM)
PBM858	Digital Transformation in HRM	Human Resource Management (HRM)
PBM853	Marketing Theory	Marketing
PBM854	Strategic Marketing Decisions	Marketing
PBM855	Seminar in Supply Chain and Logistics Management	Supply Chain & Logistics Management

Comprehensive Exam

After Completion of the course work, a PhD student has to pass a written comprehensive exam, and viva-voce in front of a doctoral committee.

Dissertation (30-credit Hours)

After completing the courses and successfully passing the comprehensive exam, a student has to register for a research thesis and complete the following requirements:

- Proposal Development
- Get approval from the CBM Ethical Review Committee before Proposal Defense**
- Proposal Defense (Within first 02 semesters OR on or before completion of 12 Credit hours of dissertation)
- Approval of Proposal from the Board of Advanced Studies and Research (BASR)
- Continuous enrollment in supervised research is necessary during the thesis stage
- Semester-wise progress review is necessary for continuous enrollment during the thesis stage***
- Completion of Ph.D. Dissertation/Thesis
- Publication or official acceptance of at least one paper in an HEC recognized (Impact Factor)**** journal
- Foreign Evaluation of Ph.D. Dissertation after the approval from BASR
- Open defense of Ph.D. dissertation
- Final Dissertation/Thesis submission to BASR
- Any other HEC requirement
- Passing the Courses of Understanding of Quran I and II.

***Following the proposal defense, it is mandatory for students to obtain departmental ethical approval from CBM-ERT. No further research activities should be initiated prior to the approval.*

**** Students may register in PBM921 Research Thesis (3 Units), PBM922 Research Thesis (6 Units) based on the satisfactory semester-wise progress review. Further, the registration in the subsequent semester would be subject to the satisfactory comments of the semester progress review committee.*

***** HJRS, Category X and above.*

Mandatory Registration Policy

- Any PhD student who experiences more than two semesters of inactivity or non-registration (whether consecutive or non-consecutive) throughout their program will have their admission cancelled. This policy takes effect from the third semester of inactivity.
- PhD scholars need to complete course work, pass the comprehensive exam and research proposal within three years of admission in PhD as per the policy.

Duration

Minimum 3 Years, Maximum 8 Years

Semester-Wise Distribution First Year Fall/Spring Semester

PBM711 Advanced Qualitative Research & Philosophy

PBM712 Advanced Quantitative Research

PBM719 Advanced Research Writing & Techniques

REL702 Understanding of the Holy Quran I

Fall/Spring Semester

PBM720 Artificial Intelligence and Management

PBM715 Theories in Business Management

Program Elective

REL703 Understanding of the Holy Quran II

Second Year

Fall/Spring Semesters

PBM921/922/923 Research Thesis

Third Year

Fall/Spring Semesters

PBM921/922/923 Research Thesis

Course registrations are subject to course offerings. All courses may not necessarily be offered every semester. Program electives may vary from time to time. Alternate elective courses may be substituted as and when required. In a given semester, students may register for a maximum of three courses (09 credit hours).

It is mandatory for research students of MS and PhD programs to attend research proposal/ thesis defense and multi-disciplinary research seminar sessions in each semester on Saturdays (12:00 to 2:00 PM). At least 60% attendance is required.



PHD IN ENVIRONMENT AND ENERGY MANAGEMENT

The PhD in Environment and Energy Management program fosters cutting-edge research and knowledge creation to advance the field of Environment and Energy Management. It equips scholars with advanced analytical and research skills to investigate complex phenomena and develop theoretical insights. The program emphasizes ethical and sustainable research practices that contribute to both academic and societal development. It promotes interdisciplinary inquiry by integrating perspectives from environment, energy, climate change, business and technology. The program develops thought leaders, policymakers, and industry experts who drive innovation and influence the global environment and energy landscape through impactful, theory-driven scholarship.

Eligibility

MS/MPhil. or equivalent graduates from HEC-recognized institutes meeting the following criteria: A minimum CGPA of 3.00 on a scale of 4.00 or equivalent.

- A minimum CGPA of 3.00 on a scale of 4.00 or equivalent.
- A minimum of 17.5* years of schooling that corresponds to MS/MPhil or Equivalent degree from HEC recognized institutions in a relevant discipline.
- GAT subject test conducted by the NTS with a minimum of 60% marks or a Minimum of 70% marks in the IoBM test**.
- An interview conducted by the Institute.
- Any other HEC stipulated requirements.

**HEC equivalency is required. The candidate may have to undergo additional deficiency courses wherever required.*

*** Applicants are required to qualify the GAT–Subject conducted by NTS with a minimum score of 60 marks.*

Transitional Provision: Students who complete their deficiency courses by the end of Fall 2026 shall be required to qualify the GAT–Subject (minimum 60 marks). Students who complete their deficiency courses by Spring 2027 and onward shall be required to qualify the graduate admission test prescribed by HEC at that time (e.g., HAT), in accordance with the applicable HEC regulations.

Program Structure

Pre-requisites/Deficiency Courses:

- a) An additional pre-requisites courses may be assigned on a case-by-case basis, depending on the student's educational background and identified academic deficiencies.
- b) Completion of pre-PhD requirements are mandatory within a three-semester timeframe.

MPM 629 Research Writing and Methods

MPM626 Qualitative Research

MPM625 Quantitative Research

Any other course as required

PhD in Environment and Energy Management is a comprehensive 48+02-credit-hour program. It includes 06 compulsory courses (18 credit hours) and a dissertation of 30 credit hours. In addition, Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) courses during the summer semesters, while non-Muslim students are required to take two alternative courses (01 credit hour each) to complete the degree requirement. After successful completion of coursework and passing the comprehensive exam, students are required to carry out research under the guidance of a research supervisor assigned by the Supervisor Allocation Committee.

Courses of Ph.D. Environment and Energy Management (18-Credit Hours)

PBM711 Advanced Qualitative Research & Philosophy

PBM712 Advanced Quantitative Research

EEM703 Current Advancement and Trends in Environment and Energy Management

PBM720 Artificial Intelligence and Management



PBM719 Advanced Research Writing and Techniques
REL702 Understanding of the Holy Quran I
REL703 Understanding of the Holy Quran II

Program Electives (any one)

EEM801 Advanced Environment Toxicology & Epidemiology
EEM802 Advanced Pollution Control Technologies and Mitigation Options
EEM803 Advances in Green Technology Mechanism
EEM804 Disaster Risk Management and Mitigation Strategies
EEM805 Trade and Environment
EEM806 Sustainability and Conservation of Major Ecosystems

Comprehensive Exam

After Completion of the course work, a PhD student has to pass a written comprehensive exam, and viva-voce in front of a doctoral committee.

Dissertation (30-credit Hours)

After completing the courses and successfully passing the comprehensive exam, a student has to register for a research thesis and complete the following requirements:

- Proposal Development
- Get approval from the CBM Ethical Review Committee before Proposal Defense***
- Proposal Defense (Within first 02 semesters OR on or before completion of 12 Credit hours of dissertation)
- Approval of Proposal from the Board of Advanced Studies and Research (BASR)
- Continuous enrollment in supervised research is necessary during the thesis stage
- Semester-wise progress review is necessary for continuous enrollment during the thesis stage****
- Completion of Ph.D. Dissertation/Thesis
- Publication or official acceptance of at least one paper in an HEC recognized (Impact Factor) † journal
- Foreign Evaluation of Ph.D. Dissertation after the approval from BASR
- Open defense of Ph.D. dissertation
- Final Dissertation/Thesis submission to BASR
- Any other HEC requirement
- Passing the Courses of Understanding of Quran I and II.

*** Following the proposal defense, it is mandatory for students to obtain departmental ethical approval from CBM-ERT. No further research activities should be initiated prior to the approval.

**** Students may register in EEM 921 Research Thesis (3 Units), EEM 922 Research Thesis (6 Units) based on the satisfactory semester-wise progress review. Further, the registration in the subsequent semester would be subject to the satisfactory comments of the semester progress review committee.

† HEC Category X and above.

Mandatory Registration Policy

- Any PhD student who experiences more than two semesters of inactivity or non-registration (whether consecutive or non-consecutive) throughout their program will have their admission cancelled. This policy takes effect from the third semester of inactivity.
- PhD scholars need to complete course work, pass the comprehensive exam and research proposal within three years of admission in PhD as per the policy.

Duration

Minimum 3 Years, Maximum 8 Years



Semester-Wise Distribution First Year Fall/Spring Semester

PBM711 Advanced Qualitative Research & Philosophy PBM712 Advanced Quantitative Research
EEM703 Current Advancement and Trends in Environment and Energy Management
REL702 Understanding of the Holy Quran I

Fall/Spring Semester

PBM720 Artificial Intelligence and Management
PBM719 Advanced Research Writing and Techniques
Program Elective
REL703 Understanding of the Holy Quran II

Second Year

Fall/Spring Semesters

EEM 921/922/923 Research Thesis

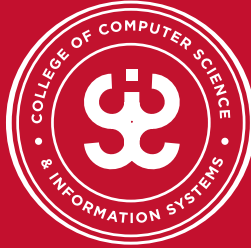
Third Year

Fall/Spring Semesters

EEM 921/922/923 Research Thesis

Course registrations are subject to course offerings. All courses may not necessarily be offered every semester. Program electives may vary from time to time. Alternate elective courses may be substituted as an when required. In a given semester, students may register for a maximum of three courses (09 credit hours).

It is mandatory for research students of MS and PhD programs to attend research proposal/ thesis defense and multi-disciplinary research seminar sessions in each semester on Saturdays (12:00 to 2:00 PM). At least 60% attendance is required.



COLLEGE OF COMPUTER SCIENCE AND INFORMATION SYSTEMS

Vision Statement

The College of Computer Science and Information System (CCSIS) is committed to emerge as one of the leading college, nationally and internationally, in computing and analytics by focusing on learning, research, technological innovation and enhancing value to society.

Mission Statement

The mission of Computer Science and Information System (CCSIS) is to empower learners and aspirants with technological and analytical tools & techniques following the local and global teaching paradigms so that they could explore new spectrums within a competitive world of technology by innovating in research activities, which will enable their personal, professional, social and intellectual capabilities for economic wellbeing.

BS COMPUTER SCIENCE (BS CS)

Graduates of this program will be equipped to develop computing solutions and pursue careers as technology entrepreneurs. They may also work as information systems managers, analysts, network engineers, or solutions architects. Additionally, they could take on management roles that require strong analytical abilities. The program emphasizes the need for overall development, including exposure to an integrated series of courses in technology, analytical thinking, reasoning and project management. These courses seek to impart a broad and deep knowledge of the theory, design, and application of digital computers and information processing techniques. The curriculum is designed to prepare students to meet the productive needs of Pakistan's software industry. It requires the completion of 136 credit hours including 124 credit hours of coursework, 6 credit hours of final year project, 3 credit hours of internship (approved by the institute) and 3 credit hours of professional certification (approved by the institute). Students must complete eight elective courses from the same specialization cluster to earn a specialization in BS Computer Science. Students who choose elective courses from different specialization clusters will receive a general BS Computer Science degree without a specialization title. A minimum CGPA of 2.5 is required for the conferment of the degree. Students from a pre-medical background are required to additionally complete the following two mathematics courses:

MAT011 Basic College Mathematics

MAT012 Intermediate College Mathematics

Eligibility Criteria: The eligibility criteria for admission into BS Computer Science is given on Page No. 191.

Learning Outcomes for BS Computer Science:

1. Successfully bring innovation in IT technology
2. To analyse, identify computing requirements appropriate to the solution
3. Appreciate the challenges of the IT industry with global changes
4. An ability to apply knowledge of computing and mathematics in IT
5. To design, implement, and evaluate a computer-based system

Career Path:

- | | |
|---------------------------------|--|
| 1. Software Engineer | 2. Web/Software Developer |
| 3. Computer Scientist | 4. Computer Programmer |
| 5. Network Security Expert | 6. Database Administrator |
| 7. Computer Systems Analyst | 8. Computer Network Architect |
| 9. Information Security Analyst | 10. Computer and Information Research Scientists |

Prospective Employers:

- | | |
|--------------------------------|--|
| 1. Cyber Internet Services | 2. Internet Service Providers |
| 3. Real Estate Sector | 4. Banking Sectors |
| 5. Hospital Sector | 6. Industrial Sector |
| 7. Software Houses | 8. Communication & Transportation Sector |
| 9. Government & Private Sector | |

Computer Science: Course Distribution

Area	Credit Hours	Courses
General Education Courses [GEC]	36	15
Computer Science Core Courses [CSC]	49	14
Specialization Electives [CSE]	24	8
Professional Certification	3	1
Interdisciplinary/Allied Courses [IDC]	15	5
Field Experience/Internship	3	1
Capstone Project/FYP	6	2
Total	136	46

Intensive English (Pre-Sessional Course)

A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester.

Program Structure (Semester Wise)

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
CSP111	Introduction to Information & Communication Technology [GER]	2+0	-
CSP111L	Introduction to Information & Communication Technology Lab	0+1	
CSP121	Programming Fundamentals [CC]	3+0	-
CSP121L	Programming Fundamentals Lab	0+1	
BCN101	Academic English [GER]	3+0	-
PHY112	Applied Physics [GER]	2+0	-
PHY112L	Applied Physics Lab	0+1	
MAT110	Calculus and Analytical Geometry [GER]	3+0	-
MAT103	Quantitative Reasoning-I [GEC]	3+0	-
Semester Total Credit Hours		19	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
CSP122	Object Oriented Programming [CC]	3+0	CSP111
CSP122L	Object Oriented Programming Lab	0+1	
CSP131	Discrete Structure [IDC]	3+0	-
CSP141	Digital Logic and Design [CSC]	3+0	PHY112
CSP141L	Digital Logic and Design Lab	0+1	
REL102 / REL112	Understanding of Holy Quran-I [GEC] / Comparative Religion-I [GEC]	0+1 0+1	-
MAT201	Linear Algebra [IDC]	3+0	MAT110
STS101	Probability Theory and Statistics [IDC]	3+0	
Semester Total Credit Hours		18	



Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
CSP221 CSP221L	Data Structures and Algorithms [CSC] Data Structures and Algorithms Lab	3+0 0+1	CSP121
CSP243 CSP243L	Computer Organization and Architecture [CSC] Computer Organization and Architecture Lab	3+0 0+1	CSP141
MAT104	Quantitative Reasoning-2 [GEC]	3+0	MAT103
SEP151	Introduction to Software Engineering [CSC]	3+0	
REL103 / REL113	Understanding of Holy Quran-II [GEC]/ Comparative Religion-II	0+1 0+1	REL102 REL112
BCN201	Persuasive & Analytical Writing for Business Communication [GEC]	3+0	BCN101
	Semester Total Credit Hours	18	

Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
CSP261 CSP261L	Introduction to Database Systems [CSC] Introduction to Database Systems Lab	3+0 0+1	CSP221
CSP222 CSP222L	Operating Systems [CSC] Operating Systems Lab	3+0 0+1	CSP221
CSP228	Design and Analysis of Algorithms [CSC]	3+0	CSP221
MAT211	Multivariable Calculus [IDC]	3+0	
PSC101	Pakistan Studies [GEC]	2+0	
REL101	Islamic Studies [GEC]	2+0	
	Semester Total Credit Hours	18	

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
CSP371 CSP371L	Computer Networks [CSC] Computer Networks Lab	2+0 0+1	-
LAN30*	Foreign Language [Arts & Humanities/GEC]	3+0	-
CSP381 CSP381L	Artificial Intelligence [CSC] Artificial Intelligence Lab	2+0 0+1	-
CSP334	Theory of Automata [CSC]	3+0	CSP131
PSC302	Ideology and Constitution of Pakistan [GEC]	2+0	>60 CHs
SSC101	Introduction to Psychology [Social Sciences/GEC]	3+0	-
	Semester Total Credit Hours	17	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
CSP479	Cloud Computing [CSC]	3+0	-
SSC303	Service Learning and Civic Responsibilities [GEC]	2+0	
	Elective I	3+0	-
	Elective II	3+0	-
	Elective III	3+0	-
	Elective IV	3+0	-
	Semester Total Credit Hours	17	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
	Elective V	3+0	-
	Elective VI	3+0	-
	Elective VII	3+0	-
	Elective VIII	3+0	-
CSP491	Final Year Project 1	0+3	
CSP490	Professional Certification	3+0	
	Semester Total Credit Hours	18	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
INTxxx	Internship	0+3	-
CSP314	IT Entrepreneurship [GEC]	2+0	-
CSP472	Information Security (CC)	3+0	-
CSO492	Final Year Project 2	0+3	CSP491
	Semester Total Credit Hours	11	

Domain Elective

Software Engineering		
SEP357	Software Requirement Engineering	2+1
SEP481	Software Project Management	2+1
SEP356	Software Quality Engineering	3+0
SEP473	DevOps	3+0
SEP355	Software Design and Architecture	3+0
CSP443	Parallel and Distributed Computing	3+0
SEP353	Software Construction and Development	2+1
CSP325	HCI and Computer Graphics	2+1
CSP422	Web Engineering	3+0
CSP424	Mobile Application Development	3+0
DSP481	Machine Learning	3+0
CSP474	Internet of Things	2+1
SEP455	Software Re-Engineering	3+0
SEP456	Formal Methods and Design	3+0
SEP457	Cross-platform Application Development	3+0
SEP458	Advanced Topics in Software Engineering	3+0
SEP459	Green Software Engineering	3+0
Data Science		
DSP162	Introduction to Data Science	2+1
DSP368	Data Visualization	2+1
DSP367	Data Warehouse and Business Intelligence	2+1
DSP467	Big Data Analytics	3+0
DSP481	Machine Learning	3+0
DSP485	Deep Learning	3+0
DSP463	Natural Language Processing	3+0
DSP487	Computer Vision	3+0
DSP465	Information Retrieval	3+0
AIP411	Generative AI	3+0
DSP366	Data Mining	3+0
DSP468	Social Network Analysis	3+0
DSP470	Computational Statistics	3+0
DSP471	Data Engineering	3+0

Artificial Intelligence		
AIP321	Programming for AI	2+1
DSP481	Machine Learning	3+0
DSP485	Deep Learning	3+0
AIP411	Generative AI	3+0
DSP487	Computer Vision	3+0
DSP463	Natural Language Processing	3+0
DSP366	Data Mining	3+0
DSP488	Reinforcement Learning	3+0
AIP412	Agentic AI	3+0
DSP489	Fuzzy Logic	3+0
AIP465	Knowledge Representation and Reasoning	3+0
MAT411	Optimization Techniques	3+0
MAT332	Stochastic Processes	3+0
AIP481	Machine Learning Operations (MLOps)	3+0
AIP482	Speech Processing	3+0
Cyber Security		
CSP476	Network Security	3+0
CYP421	Secure Software Design and Development	2+1
CYP411	Digital Forensics and Incident Response	2+1
CYP412	Applied Cryptography	2+1
CYP311	Vulnerability Assessment and Penetration Testing	2+1
CYP471	Cloud Security	3+0
CYP413	Blockchain and Web 3 Security	3+0
CYP472	Wireless and Mobile Security	3+0
CYP312	Ethics in Cyber Security	3+0
CYP414	Information Assurance	3+0
CYP441	Embedded Systems Security	2+1
CYP415	Cyber Threat Intelligence	2+1
CYP481	Artificial Intelligence for Cyber Security	2+1
DSP481	Machine Learning	3+0
CYP442	IoT Security	2+1
CYP416	Open-Source Intelligence Techniques	2+1
CYP417	Usable Security and Privacy	2+1
CYP451	Malware Analysis and Reverse Engineering	2+1
CYP418	Security Orchestration, Automation and Response	2+1
CYP419	Cyber Security Policy and Governance	3+0
CYP452	Security Analytics and DevSecOps	2+1
CYP449	Quantum Security	2+1

BS ACTUARIAL SCIENCE AND RISK MANAGEMENT

BS in the Actuarial Science and Risk Management equips graduates with mathematical and statistical skills and expertise of tools that help in assessing risk in insurance and relevant industries and professions.

A BS in the Actuarial Science and Risk Management program is intended to provide students with the tools of risk analysis, transfer and mitigate that are critical to the operation of private and public institutions, and to prepare them for careers in risk management and insurance. As an actuarial science and risk management major, a student will gain a broad insurance background with an emphasis on mathematics, statistics and finance, as well as a thorough knowledge of all types of life insurance and general insurance. BS in Actuarial Science and Risk Management is a four-year degree program. It requires completion of 138 credit hours of course work and 3 credit hours of internship of at least six weeks in an organization approved by the Institute. Total credit hours required for the degree is 142.

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

***Note for Non-Muslim Students*

Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.

*****BCN010 Intensive English (Pre-Sessional Course)**

A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week before the start of the Semester.

****Students from pre-medical/commerce/without mathematics at the F.Sc (pre-engineering) background are required to additionally complete the following two mathematics courses:*

MAT011 Basic College Mathematics

MAT012 Intermediate College Mathematics.

Learning Outcomes

- Gain sufficient technical understanding to solve very demanding real-world actuarial and risk management problems
- Develop confidence and analytical skills to define and solve real-world problems, particularly those involving risk
- Ability to translate data into a meaningful information
- Equip students with the knowledge related to risk management and insurance
- Use actuarial modeling and risk managements techniques to evaluate uncertainty and risk

Career Options

1. Actuarial Analyst/Trainees
2. Risk Managers
3. Financial Quantitative Analysts
4. Risk Management Analyst
5. Data Analyst
6. Treasury Analyst
7. Business Quantitative Analyst

Career Paths - Few examples of actuarial work

- Valuation - performs experience studies, cash flow testing and other tasks to set the amount of reserve and capital to be held by an insurer
- Pricing - determines product features and pricing of products
- Pension - pensions actuaries advise trustees and companies on the management of their pension schemes
- Consulting - advises clients on actuarial financial risks, usually associated with employee benefits and insurance
- Reinsurance - performs traditional actuarial duties for a reinsurer that would accept risk from a direct insurance company
- General Insurance - performs roles like a valuation or pricing actuary, with a specialty in property and casualty insurance
- Health Insurance - actuaries have long been involved in financial planning for the NHS and this is now a growing area for actuarial work as the government looks for ways to restructure the welfare state to meet the changing needs, demands and expectations of a changing population
- Product Line or Segment Risk Management - performs risk management functions for a specific line of business for an insurance company
- And many other non-traditional career paths

Eligibility Criteria: The eligibility criteria for admission into BS (Actuarial Science and Risk Management) is given on Page No. 191.

Required Courses

Functional English

BCN101 Academic English

Expository Writing

BCN301 Persuasive and Analytical Writing

Social Sciences

ECN101 Principles of Microeconomics

ECN102 Principles of Macroeconomics

ECN301 Econometrics I

Finance and Risk Management

ARM201 Principles of Risk Management ARM302 Life and Other Contingencies

ARM304 Enterprise Risk Practices

ARM301 Institutional Investments

ARM407 Computational Methods in Risk ARM402 Risk Transfer & Retention Techniques

ARM491 Project

Civics & Community Engagement

SSC303 Service-Learning and Civic Responsibility

Actuarial Science

ARM101 Introduction to Actuarial Science

ARM307 Stochastic Processes

ARM308 Models of Financial Economics I

ARM408 Models of Financial Economics II

Finance

FNS201 Introduction to Business Finance

ARM305 Quantitative Econometrics

FNS301 Corporate Finance

Arts and Humanities

LAN 30* Foreign Language

*1 = Introduction to Arabic

*2 = Introduction to French

*4 = Introduction to German

*6 = Introduction to Italian



Applications of Information and Communication Tech. (ICT)

CSP111 Introduction to Information and Communication Technology (2+1)

Natural Sciences

EEM101 Environmental Studies (2+1)

Entrepreneurship

ETP101 Entrepreneurship

Mathematics

MAT111 Applied Calculus

MAT211 Multivariable Calculus

MAT201 Linear Algebra

ARM102 Mathematical Theory of Interest I

ARM202 Mathematical Theory of Interest II

ARM203 Actuarial Mathematics MAT423 Numerical Analysis

Political Sciences

PSC302 Ideology & Constitution of Pakistan

Religious Studies

REL101 Islamic Studies

Statistics

STS101 Probability Theory and Statistics I

STS203 Probability Theory and Distributions

ARM306 Sampling Theory

STS201 Model and Inferences

STS301 Data Analysis and Decision Making

ARM411 Time Series Analysis and Forecasting

ARM401 Applied Regression Analysis

ARM412 Decision Theory

ARM303 Loss Models I

ARM403 Loss Models II

STS409 Industrial Analytics and Statistics

Elective Courses

ARM301 Institutional Investments

ARM402 Risk Transfer and Retention Techniques

ARM452 Theory of Risk and Insurance

ARM457 International Risk and Reporting

ARM458 Project Risk Management

ARM464 Application of R Programming

ARM465 Predictive Modeling in Actuarial Science

Course Structure

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
BCN101	Academic English	3+0	-
ECN101	Principles of Microeconomics	3+0	-
STS101	Probability Theory & Statistics	3+0	-
MAT111	Applied Calculus	3+0	-
REL101	Islamic Studies	2+0	-
ARM101	Introduction to Actuarial Science	3+0	-

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
STS203	Probability Theory and Distribution	3+0	STA101
MAT211	Multivariable Calculus	3+0	MAT111
ECN102	Principles of Macroeconomics	3+0	ECN101
ARM102	Mathematical Theory of Interest I	3+0	MAT111
PSC201	Ideology and Constitution of Pakistan	2+0	-
LAN30*	Foreign Language	3+0	-

Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
CSC111	Introduction to Information & Communication Technologies [Theory]	2+0	-
CSC111L	Introduction to information and communication technologies [Lab]	0+1	
MAT201	Linear Algebra	3+0	MAT111
STS201	Model & Inferences	3+0	STS203
FNS201	Introduction to Business Finance	3+0	-
BCN301	Persuasive And Analytical Writing	3+0	BCN101
ARM202	Mathematical Theory of Interest II	3+0	ARM102

Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
PSC101	Pakistan Studies	2+0	-
ECN301	Econometrics I	3+0	ECN102
STS301	Data Analysis and Decision Making	3+0	STS201
SSC303	Service-Learning and Civic Responsibility	0+2	-
ETP101	Entrepreneurship	3+0	-
EEM101	Environmental Studies	2+1	-



Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
ARM203	Actuarial Mathematics	3+0	ARM102
ARM307	Stochastic Processes	3+0	STS203, MAT111
ARM201	Principles of Risk Management	3+0	ARM101
ARM305	Quantitative Econometrics	3+0	ECN301
MAT423	Numerical Analysis	3+0	MAT211

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
FNS301	Corporate Finance	3+0	FNS201
ARM302	Life and Other Contingencies	3+0	ARM203
ARM304	Enterprise Risk Practices	3+0	ARM201
ARM306	Sampling Theory	3+0	STS203
ARM308	Models of Financial Economics I	3+0	FNS451
STS409	Industrial Analytics and Statistics	3+0	STS301

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
ARM401	Applied Regression Analysis	3+0	STS203, ECN301
ARM408	Models of Financial Economics II	3+0	ARM308
ARM407	Computational Methods in Risk	3+0	ARM202
ARM303	Loss Models I	3+0	ARM303
	Elective I (Risk Management)	3+0	
	Elective II	3+0	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
ARM411	Time Series Analysis and Forecasting	3+0	ARM401
ARM412	Decision Theory	3+0	STS203, ARM401
ARM403	Loss Models II	3+0	ARM303
ARM491	Project	0+3	
	Elective III (Risk Management)	3+0	
	Elective IV	3+0	

BS MATHEMATICS AND ECONOMICS

BS (Mathematics & Economics) is an interdisciplinary undergraduate joint program of CCSIS and CESD, for students with robust mathematical skills and a keen interest in economics. This program is a perfect blend of pure and applied mathematics which does not only ensure a solid quantitative foundation for both disciplines but also provides phenomenal coverage of Statistics, Actuarial Sciences, and Finance. Graduates with this degree are increasingly valued by employers because of their critical reasoning and sound knowledge as much of the economic theory is currently presented in terms of mathematical models. This opens more career options than the ones traditionally available to either mathematics or economics majors. This degree is also a paragon for those who aim for Master's/Doctoral degree in Economics, Finance, Mathematics, Statistics, Actuarial Sciences or other related fields.

The 4-year Bachelor of Science in Mathematics and Economics requires completion of 138 credit hours across eight semesters, comprising 35 credits of general education courses (all 13 must be completed within the first four semesters—failure blocks fifth-semester enrollment), 94 credits of major/minor and interdisciplinary courses, a 6-credit capstone project, and a 3-credit Mathematical Economics internship (minimum 6 weeks with an approved firm).

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

***Note for Non-Muslim Students*

Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.

****BCN010 Intensive English (Pre-Sessional Course)*

A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week before the start of the Semester.

****Students from pre-medical background are required to additionally complete the following two mathematics courses:*

MAT011 Basic College Mathematics

MAT012 Intermediate College Mathematics.

BS Mathematics and Economics students learn to:

- Develop mathematical thinking, evolving from a computational / procedural understanding of mathematics to a broad understanding that involves logical reasoning, generalization, inference and formal proof.
- Explore the fundamental aspects of economics, formulation and use of quantitative models arising in social science, business and other contexts.
- Acquire an understanding of basic pure mathematics, and of the role of logical argument in mathematics.
- Use basic econometric methods to quantify uncertainty with confidence intervals; use regression to infer causal relationships; and use regressions for prediction.

Learning Outcomes for BS Mathematics & Economics Students include:

- An ability to communicate effectively with the educational and business community and with society at large about mathematical and economical principles, concepts, and solution to problems with precision and adherence in written, oral and graphical form
- An ability to optimally apply economic analysis to everyday economic problems in the real world. This shall allow them to understand current events and evaluate potential policy proposals.
- Be equipped with skills to apply optimization models to consumer, producer, and market theories and to use game theory to analyze the strategic behavior of individuals and firms
- Be equipped with the investigative skills necessary for conducting original economic research and participating effectively in project teams.



Career opportunities of Mathematics and Economics Graduates

Upon completion of an undergraduate program BS in Mathematics and Economics, an individual may find job as:

1. Data Analyst/ Data Scientist/ Data engineer
2. Performance Analyst
3. Customer Satisfaction Analyst
4. Research Executive
5. META game designer
6. Economist / Financial Planner.
7. Investment Manager

Eligibility Criteria

The BS (Mathematics and Economics) is a four-year program. Applicants who have successfully completed H. Sc with minimum 50% marks in Science Group (Pre-Engineering) or in General Group (with Mathematics/Statistics/Computer Science) or A-Levels with a maximum 2 'Cs in three principal subjects (with Mathematics/Statistics/Computer Science) are eligible to apply for admission.

Required Courses

General Education Courses

Religious Studies

REL101 Islamic Studies

Political Sciences

PSC101 Pakistan Studies

PSC201 Ideology and Constitution of Pakistan

Natural Science Course

EEM101 Environmental Studies

Civics and Community Engagement

SSC303 Service-Learning and Civic Responsibility

Arts and Humanities (1 course, 3 credit hours)

LAN 30* Foreign Language

*1 = Introduction to Arabic *2 = Introduction to French

*4 = Introduction to German *6 = Introduction to Italian

*8 = Introduction to Chinese

Management

MGT102 Intro. to Management & Organizational Behavior

Functional English

BCN101 Academic English

Expository Writing

BCN201 Persuasive. & Analytical Writing for Business Comm

Application of Information and Communication Technologies

CSP111 Intro. to Information and Communication Technologies

Quantitative Reasoning

STS101 Probability Theory and Statistics

STS201 Model and Inference

Entrepreneurship

ETP101 Entrepreneurship

Interdisciplinary Courses

Programming

CSP123 Programming for Analyst

CSP381 Artificial Intelligence

Core Courses

Statistics

STS302 Data Analysis and Decision Making

STS402 Time Series Analysis and Forecasting

STS405 Statistical Machine Learning

STS415 Deep Learning

Mathematics

MAT111 Applied Calculus

MAT201 Linear Algebra

MAT211 Multivariable Calculus

MAT221 Introduction to Formal Mathematics

MAT321 Applied Real Analysis

MAT311 Modelling and Simulation

MAT322 Introduction to Differential Equations

MAT411 Optimization Techniques

MAT422 Partial Differential Equations

MAT423 Numerical Analysis

Economics

ECN101 Principles of Microeconomics

ECN102 Principles of Macroeconomics

ECN205 Managerial Economics

ECN202 Macroeconomics Analysis

ECN204 Development Economics

ECN304 International Trade

ECN301 Econometrics I

ECN305 Financial Economics

ECN401 Econometrics II

ECN404 Pakistan Economic Policy

ECN405 Monetary Theory and Policy

Final Year Project

PME491 Final Year Project I

PME492 Final Year Project II

Mathematics Elective

MAT330	Actuarial Mathematics
MAT331	Theory of probability
MAT451	Advanced Optimization Technique
MA452	Functional Analysis
MAT453	Dynamical Systems
MAT454	Cryptography
MAT455	Complex Analysis
MAT456	Topology
MAT457	Econophysics

Economics Electives

ECN402	Contemporary Issues in Macroeconomics
ECN451	Growth Theories
ECN452	Resource & Environmental Economics
ECN454	Public Finance
ECN455	Economics of Logistics
ECN306	General Equilibrium and Welfare Economics
ECN206	History of Economic Thoughts

Course Structure

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
BCN101	Academic English	3+0	-
MAT111	Applied Calculus	3+0	-
MGT102	Introduction to Management and Organizational Behavior	3+0	-
ECN101	Principles of Microeconomics	3+0	-
CSP111	Introduction to information and communication technologies [Theory]	2+0	-
CSP111L	Introduction to information and communication technologies [Lab]	0+1	
REL101	Islamic Studies	2+0	-
	Total	17 (16+1)	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
BCN201	Persuasive & Analytical Writing for Business Communication	3+0	BCN101
MAT201	Linear Algebra	3+0	MAT111
STS101	Probability Theory & Statistics	3+0	-
ECN102	Principles of Macroeconomics	3+0	ECN101
SSC303	Service-Learning and Civic Responsibility	0+2	-
LAN30*	Foreign Language	3+0	-
	Total	17 (15+2)	

Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
MAT211	Multivariable Calculus	3+0	MAT111
STS201	Model & Inferences	3+0	STS101
ECN205	Managerial Economics	3+0	ECN101, ECN102
PSC101	Pakistan Studies	2+0	-
MAT221	Introduction to Formal Mathematics	3+0	MAT211
EEM101	Environmental Studies	2+1	-
	Total	18 (16+2)	



Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
ETP101	Entrepreneurship	3+0	-
CSP123 CSP123L	Programming for Analyst (Theory) Programming for Analyst (Lab)	3+0 0+1	MAT211
ECN202	Macroeconomics Analysis	3+0	ECN102
PSC201	Ideology and Constitution of Pakistan	2+0	-
MAT321	Applied Real Analysis	3+0	MAT211
MAT322	Introduction to Differential Equations	3+0	MAT211
	Total	17 (17+0)	

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
ECN204	Development Economics	3+0	ECN102
STS301	Data Analysis and Decision Making	3+0	STS201
ECN304	International Trade	3+0	ECN202
MAT311	Modelling and Simulation	2+1	MAT211
CSP381 CSP381L	Artificial Intelligence [Theory] Artificial Intelligence [Lab]	2+0 0+1	STS201 CSC116
MAT423	Numerical Analysis	3+0	MAT201
	Total	18 (16+2)	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
MAT422	Partial Differential Equations	3+0	MAT322
ECN405	Monetary Theory and Policy	3+0	ECN304
ECN301	Econometrics I	3+0	STS301
STS405	Statistical Machine learning (Theory) Statistical Machine learning (Lab)	2+0 0+1	STS301
ECN305	Financial Economics	3+0	ECN205
MAT411	Optimization Technique	3+0	MAT211
	Total	18 (17+1)	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
ECN401	Econometrics II	2+1	ECN301
STS415	Deep Learning (Theory) Deep Learning (Lab)	2+0 0+1	STS405
XXXXXX	Elective I (Mathematics)	3+0	-
XXXXXX	Elective II (Economics)	3+0	-
PME491	Final year Project I	0+3	-
	Total	15 (10+5)	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
ECN404	Pakistan Economic Policy	3+0	ECN202
STS402	Time Series Analysis and Forecasting	2+1	STS401
XXXXXX	Elective III (Mathematics)	3+0	-
XXXXXX	Elective IV (Economics)	3+0	-
PME492	Final Year Project II	0+3	PME491
	Total	15 (11+4)	

BS DATA SCIENCE

BS (Data Science) focuses on statistical analysis and theoretical computer science to develop solutions that employ robust mathematical models. These models help AI (Artificial Intelligence) and other predictive tools for data mining and reliable analysis.

This program has a twofold approach: basic principles and foundational training of statistical and mathematical aspects of data analysis. This program is, additionally, based on broad computer science principles, including algorithms, data structures, data management, and machine learning. The program is suitable for students interested either in a career in industry or more specialized graduate study. This program will prepare students for a career in data analysis, combining foundational statistical concepts with computational principles from computer science. Students must complete a minimum of 140 credit hours of coursework including 128 credit hours of coursework, 6 credit hours of final year project, 3 credit hours of mandatory 6-week internship (approved by the institute) and 3 credit hours of professional certification (approved by the institute).

Students from pre-medical background are required to additionally complete the following two mathematics courses:

MAT011 Basic College Mathematics

MAT012 Intermediate College Mathematics

Eligibility Criteria: The eligibility criteria for admission into BS Data Science is given on Page No. 191.

Learning Outcomes for Data Science:

1. Knowledge of how to apply analytical techniques and algorithms (including statistical and data mining approaches) to large data sets for extracting meaningful insights.
2. Acquisition of hands-on experience with relevant software tools, languages, data models, and environments for data processing and visualization.
3. Ability to communicate results (visually and verbally) to a broad audience.

Career Path

1. Data Architect
2. Infrastructure Architect
3. Data Scientist
4. Data Analyst
5. Data Engineer
6. Machine Learning Engineer & Architect

Prospective Firms/Companies

1. Real Estate Industry
2. Hospital Industry
3. Social Media Data Analytics Firms
4. Food and Supply Industry
5. Banking Sector
6. Airline Industry
7. Comm. & Transp. Industry
8. Government & Private Sector
9. Insurance Industry

BS Data Science: Course Distribution

Area	Credit Hours	Courses
Computing Core [CC]	49	14
Domain Core [DC]	18	6
Domain Elective [DE]	21	7
Mathematics & Supporting Courses [MSC]	12	4
Elective Supporting Courses [ESC]	3	1
General Education Requirements [GER]	31	14
Professional Certification	3	1
Internship	3	1
Total	140	48

Intensive English (Pre-Sessional Course)

A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week before the start of the Semester.

Program Structure (Semester Wise)

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
CSP111 CSP111L	Introduction to Information & Communication Technology [GER] Introduction to Information & Communication Technology Lab	2+0 0+1	-
CSP121 CSP121L	Programming Fundamentals [CC] Programming Fundamentals Lab	3+0 0+1	-
BCN101	Academic English [GER]	3+0	-
PHY112 PHY112L	Applied Physics [GER] Applied Physics Lab	2+0 0+1	-
MAT110	Calculus and Analytical Geometry [GER]	3+0	-
Semester Total Credit Hours		16 (13+3)	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
CSP122 CSP122L	Object Oriented Programming [CC] Object Oriented Programming Lab	3+0 0+1	CSP121
BCN201	Persuasive & Analytical Writing for Business Communication [MSC]	3+0	BCN101
CSP231	Discrete Structure [GER]	3+0	-
CSP141 CSP141	Digital Logic and Design [CC] Digital Logic and Design Lab	3+0 0+1	PHY112
REL102 / REL112	Understanding of Holy Quran-I [GER] / Comparative Religion-I [GER]	0+1 0+1	-
MAT211	Multivariable Calculus [MSC]	3+0	MAT110
Semester Total Credit Hours		18 (15+3)	

Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
CSP221 CSP221L	Data Structures and Algorithms [CC] Data Structures and Algorithms Lab	3+0 0+1	CSP121
BCN202	Business and Professional Speech [GER]	3+0	BCN101
CSP241 CSP241L	Computer Organization & Assembly Language [CC] Computer Organization & Assembly Language Lab	3+0 0+1	-
MAT201	Linear Algebra [MSC]	3+0	MAT110
REL103 / REL113	Understanding of Holy Quran-II [GER] / Comparative Religion-II GER	3+0 0+1	REL102 / REL112
REL101	Islamic Studies [GER]	2+0	-
Semester Total Credit Hours		17 (14+3)	



Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
CSP261 CSP261L	Introduction to Database Systems [CC] Introduction to Database Systems Lab	3+0 0+1	-
DSP162 DSP162	Introduction to Data Science [DC] Introduction to Data Science Lab	2+0 0+1	-
STS101	Probability Theory and Statistics [MSC]	3+0	-
CSP222 CSP222L	Operating Systems [CC] Operating Systems Lab	3+0 0+1	CSP221
CSP228	Design & Analysis of Algorithms [CC]	3+0	CSP221
Semester Total Credit Hours		17 (14+3)	

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
DSP365 DSP365L	Advanced Statistics [DC] Advanced Statistics Lab	2+0 0+1	STS101
CSP371 CSP371L	Computer Networks [CC] Computer Networks Lab	2+0 0+1	-
MGT102	Introduction to Management & Organizational Behavior [GER]	2+0	-
CSP311	Professional Practices [GER]	2+0	> 60 Credit Hours
DSP366 DSP366L	Data Mining [DC] Data Mining Lab	3+0	-
CSP381 CSP381	Artificial Intelligence [CC] Artificial Intelligence Lab	2+0 0+1	STA203
PSC101	Pakistan Studies [GER]	2+0	
Semester Total Credit Hours		18 (15+3)	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
DSPxxx	DS Elective 1 [DE]	3+0/ 2+1	-
DSPxxx	DS Elective 2 [DE]	3+0/ 2+1	-
SEP151	Introduction to Software Engineering [CC]	3+0	-
DSP368 DSP368L	Data Visualization [DC] Data Visualization Lab	2+0 0+1	-
DSP367 DSP367L	Data Warehouse and Business Intelligence [DC] Data Warehouse and Business Intelligence Lab	2+0 0+1	-
CSP314	Tech Entrepreneurship [GER]	2+0	-
Semester Total Credit Hours		17 (15+2#)	
Summer Semester (Internship 3 Credit Hours)			

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
BDSxxx	DS Elective 3 [DE]	3+0/ 2+1	-
BDSxxx	DS Elective 4 [DE]	3+0/ 2+1	-
SSC303	Service Learning and Civic Responsibilities [GER]	2+0	-
CSP443	Parallel and Distributed Computing [DC]	3+0	CSP222
DSP491	Final Year Project I [CC]	0+3	-
DSP490	Professional Certification	3+0	-
	Semester Total Credit Hours	17 (14+3#)	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
DSPxxx	DS Elective 5 [DE]	3+0/ 2+1	
DSPxxx	DS Elective 6 new [DE]	3+0/ 2+1	
DSPxxx	DS Elective 7 new [DE]	3+0/ 2+1	
CSP472	Information Security [CC]	3+0	
PSC302	Ideology and Constitution of Pakistan [GER]	2+0	
DSP492	Final Year Project II [CC]	0+3	DSP491
	Semester Total Credit Hours	17 (14+3#)	

Total 140 Credit Hours

#Lab depends on the selection of elective courses by students

Domain Elective

DSP486 Large Language Models	DSP468 Social Network Analysis
DSP481 Machine Learning	DSP462 Information Extraction
DSP483 Artificial Neural Networks	CSP331 Theory of Automata & Formal Lang.
DSP465 Information Retrieval	DSP485 Deep Learning
DSP461 Platform & Architecture for Data Science	CSP325 HCI and Computer Graphics CSP325 HCI and Computer Graphics Lab
DSP464 Speech Processing	DSP467 Big Data Analytics
CSP362 Advanced Database Systems CSP362 Advanced Database Systems Lab	DSP463 Natural Language Processing
DSP469 Topics in Data Science	CSP479 Cloud Computing
CSP472 Information Security	



BS COMPUTER ENGINEERING

The Bachelor of Science in Computer Engineering is a four-year degree program that integrates principles of electrical engineering with core concepts from computer science, providing students with a strong foundation in both hardware and software systems. The program emphasizes the design, development, and implementation of computer systems, embedded systems, and digital communication technologies. Students gain proficiency in programming, circuits, microprocessors, data structures, algorithms, computer architecture, and operating systems. With a curriculum grounded in analytical reasoning and problem-solving, the program prepares students for diverse roles in industry or further graduate studies. A significant feature of the program is the final-year project, which challenges students to design and implement engineering solutions to real-world problems. Students must complete a minimum of 140 credit hours of coursework including 128 credit hours of coursework, 6 credit hours of final year project, 3 credit hours of mandatory 6-week internship (approved by the institute) and 3 credit hours of professional certification (approved by the institute).

A minimum CGPA of 2.5 is required for the conferment of the degree. Students from a pre-medical background are required to additionally complete the following two mathematics courses:

MAT011 Basic College Mathematics

MAT012 Intermediate College Mathematics

Eligibility Criteria: The eligibility criteria for admission into BS Computer Engineering is given in the Admissions section of this catalog.

Learning Outcomes for BS Computer Engineering:

1. Effectively drive innovation in Computer Engineering.
2. Analyze and determine computing needs suitable for complex engineering problems.
3. Recognize and adapt to the evolving challenges in the global IT landscape.
4. Demonstrate the ability to integrate computing, engineering and mathematical principles.
5. Design, develop, and assess computer-based systems to meet desired requirements.

Career Path:

- | | |
|---------------------------------|--|
| 1. Embedded systems Engineer | 2. Hardware Design Engineer |
| 3. IoT Engineer | 4. Systems Software Engineer |
| 5. Network Security Expert | 6. Database Administrator |
| 7. Computer Systems Analyst | 8. Computer Network Architect |
| 9. Information Security Analyst | 10. Computer and Information Research Scientists |

Prospective Employers:

- | | |
|--------------------------------|--|
| 1. Cyber Internet Services | 2. Internet Service Providers |
| 3. Real Estate Sector | 4. Banking Sectors |
| 5. Hospital Sector | 6. Industrial Sector |
| 7. Software Houses | 8. Communication & Transportation Sector |
| 9. Government & Private Sector | |

Bs Computer Engineering Course Distribution

Area	Credit Hours	Courses
Computing Core [CC]	49	14
Domain Core [DC]	18	6
Domain Elective [DE]	21	7
Mathematics & Supporting Courses [MSC]	12	4
Elective Supporting Courses [ESC]	3	1
General Education Requirements [GER]	31	14
Internship	3	1
Professional Certification	3	1
Total	140	48



Intensive English (Pre-Sessional Course)

A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week prior to the start of the Semester.

Program Structure (Semester Wise)

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
CSP111	Introduction to Information & Communication Technology [GER]	2+0	-
CSP111L	Introduction to Information & Communication Technology Lab	0+1	-
CSP121	Programming Fundamentals [CC]	3+0	-
CSP121L	Programming Fundamentals Lab	0+1	-
PHY112	Applied Physics [GER]	2+0	-
PHY112L	Applied Physics Lab	0+1	-
BCN101	Academic English [GER]	3+0	-
MAT110	Calculus and Analytical Geometry [GER]	3+0	-
	Total	16	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
CSP122	Object-Oriented Programming [CC]	3+0	CSP121
CSP122L	Object-Oriented Programming Lab	0+1	CSP121
BCN201	Persuasive & Analytical Writing for Business [GER]	3+0	BCN101
CSP131	Discrete Structure [GER]	3+0	-
CSP141	Digital Logic and Design [CC]	3+0	-
REL102/ REL112	Understanding of Holy Quran-I [GER] / Comparative Religion-I [GER]	0+1 0+1	-
CSP141	Digital Logic and Design Lab	0+1	-
MAT211	Multivariable Calculus [MSC]	3+0	MAT110
	Total	18	

Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
CSP221	Data Structures and Algorithms [CC]	3+0	CSC213
CSP221	Data Structures and Algorithms Lab	0+1	CSC213
MAT201	Linear Algebra [MSC]	3+0	MAT110
CSP241	Computer Organization & Assembly Language [CC]	3+0	-
CSP241	Computer Organization & Assembly Language Lab	0+1	-
SSC303	Service-Learning and Civic Responsibility [GER]	2+0	-
REL101	Islamic Studies [GER]	2+0	-
REL103/ REL113	Understanding of Holy Quran-II [GER] / Comparative Religion-II GER	0+1 0+1	REL102/ REL112
CEP111	Linear Circuit Analysis [DC]	3+0	-
	Total	19	



Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
CSP261	Introduction to Database Systems [CC]	3+0	CSP211
CSP261	Introduction to Database Systems Lab	0+1	CSP211
SEP151	Introduction to Software Engineering [CC]	3+0	-
STS101	Probability Theory and Statistics [MSC]	3+0	-
CSP222	Operating Systems [CC]	3+0	CSP211
CSP222	Operating Systems Lab	0+1	CSP211
CSP228	Design & Analysis of Algorithms [CC]	3+0	CSP211
	Total	17	

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
CSP311	Professional Practices [GER]	2+0	-
CSP371	Computer Networks [CC]	2+0	-
CSP371	Computer Networks Lab	0+1	-
CSP381	Artificial Intelligence [CC]	2+0	-
CSP381	Artificial Intelligence Lab	0+1	-
CEP211	Signals & Systems [DC]	2+0	-
CEP211	Signals & Systems Lab	0+1	-
MGT102	Introduction to Management & Organizational Behavior [GER]	2+0	-
PSC101	Pakistan Studies [GER]	2+0	-
	Total	15	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
CSP472	Information Security [CC]	3+0	-
CSP342	Computer Architecture [DC]	2+0	CSP241
CSP342	Computer Architecture Lab	0+1	CSP241
CEP311	Electrical Network Analysis [DC]	2+0	-
CEP311	Electrical Network Analysis Lab	0+1	-
CEPxxx	Domain Elective 1 [DE]	3+0/ 2+1	-
CEPxxx	Domain Elective 2 [DE]	3+0/ 2+1	-
COM202	Business & Professional Speech [GER]	3+0	-
	Total	18	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
CEP411	Electronic Device & Circuits [DC]	2+0	-
CEP411	Electronic Device & Circuits Lab	0+1	-
CSP443	Parallel and Distributed Computing [DC]	3+0	CSP222
CEPxxx	Domain Elective 3 [DE]	3+0/ 2+1	-
CEPxxx	Domain Elective 4 [DE]	3+0/ 2+1	-
CEP490	Professional Certification	3+0	-
CEP491	Final Year Project I [CC]	0+3	CSP151
	Total	18	

Summer Semester (Internship 3 Credit Hours)

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
CSP314	Tech Entrepreneurship [GER]	2+0	-
PSC301	Ideology and Constitution of Pakistan [GER]	2+0	-
CEPxxx	Domain Elective 5 [DE]	3+0/ 2+1	-
CEPxxx	Domain Elective 6 [DE]	3+0/ 2+1	-
CEPxxx	Domain Elective 7 [DE]	3+0/ 2+1	-
CEP492	Final Year Project II [CC]	0+3	CEP491
	Total	16	

Total 140 Credit Hours

#Lab depends on the selection of elective courses by students

Domain Elective:

CEP485 Artificial Neural Network & Deep Learning
 CSP331 Theory of Automata & Formal Language
 CSP325 HCI and Computer Graphics
 CEP443 Embedded System
 CEP481 Expert Systems
 CEP347 Digital System Design
 CEP486 Digital Image Processing
 DSP487 Computer Vision
 AIP411 Generative AI
 CSP485 Cybersecurity
 CSP474 Internet of Things
 CSP476 Network Security
 CYP442 IoT Security



BS SOFTWARE ENGINEERING (BS SE)

This program is designed to help students build competencies in software development. It addresses the challenges involved in creating reliable software and provides a solid foundation in problem-solving methods, software quality, testing, and effective management practices. Graduates of this program will possess the confidence and expertise to become technology-driven entrepreneurs and software architects. They may also begin their careers as software engineers, with the potential to advance into roles such as analysts, designers, or architects within software companies or as independent solution providers. The program is designed to satisfy general requirements and meet the criteria adopted by the Higher Education Commission (HEC) of Pakistan. The aim is to prepare students to serve the productive needs of Pakistan's software industry.

Students must complete a minimum of 140 credit hours of coursework including 128 credit hours of coursework, 6 credit hours of final year project, 3 credit hours of mandatory 6-week internship (approved by the institute) and 3 credit hours of professional certification (approved by the institute). Students must maintain a CGPA of 2.5 for the conferment of the degree.

Students from pre-medical background are required to additionally complete the following two mathematics courses:

MTH011 Basic College Mathematics

MTH012 Intermediate College Mathematics

Eligibility Criteria: The eligibility criteria for admission into BS Software Engineering is given in the Admissions section of this catalog.

Learning Outcomes for BS Software Engineering:

1. Equip themselves with the latest software development tools
2. An ability to develop software systems of varying complexity
3. An ability to function effectively on teams to accomplish a common goal
4. An ability to communicate effectively with a range of audiences
5. An understanding of professional, legal, and ethical issues regarding the software industry
6. Successfully bring innovation in the software industry

Career Path:

- | | | |
|------------------------|----------------------------------|------------------------------|
| 1. Web Developer | 2. Software Engineer / Developer | 3. System Analyst |
| 4. Front End Developer | 5. Software Project Manager | 6. Software-Trainee Engineer |
| 7. SQL Developer | 8. Software QA Engineer | 9. Data Engineer |
| 10. Technical Writer | | |

Prospective Employers:

- | | | |
|----------------------------|-------------------------------|--------------------------------|
| 1. Cyber Internet Services | 2. Internet Service Providers | 3. Banking Sector |
| 4. Real Estate Industry | 5. Hospital Industry | 6. Software Houses |
| 7. Communication Industry | 8. Transportation Sector | 9. Government & Private Sector |

BS Software Engineering: Course Distribution

Area	Credit Hours	Courses
Computing Core [CC]	49	14
Domain Core [DC]	18	6
Domain Elective [DE]	21	7
Mathematics & Supporting Courses [MSC]	12	4
Elective Supporting Courses [ESC]	3	1
General Education Requirements [GER]	31	14
Internship	3	1
Professional Certification	3	1
Total	140	48

**An additional 2 credit hours (Understanding of Holy Quran I & II, or the approved alternative for non-Muslim students) are required as noted below and are not included in the 135-credit-hour / 45-course total.*

Program Structure (Semester Wise)

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
CSP111	Introduction to Information & Comm. Technology [GER]	2+0	-
CSP111L	Introduction to Information & Comm. Technology Lab	0+1	-
CSP121	Programming Fundamentals [CC]	3+0	-
CSP121L	Programming Fundamentals Lab	0+1	-
BCN101	Academic English [GER]	3+0	-
PHY112	Applied Physics [GER]	2+0	-
PHY112L	Applied Physics Lab	0+1	-
MAT110	Calculus and Analytical Geometry [GER]	3+0	-
	Total	16 (13+3)	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
CSP122	Object Oriented Programming [CC]	3+0	CSP121
CSP122L	Object Oriented Programming Lab	0+1	CSP121
BCN201	Persuasive & Analytical Writing for Business Communication [MSC]	3+0	BCN101
CSP231	Discrete Structure [GER]	3+0	-
CSP141	Digital Logic and Design [CC]	3+0	PHY112
CSP141L	Digital Logic and Design Lab	0+1	PHY112
MAT211	Multivariable Calculus [MSC]	3+0	MAT110
REL102 / REL112	Understanding of Holy Quran-I [GER] / Comparative Religion-I [GER]	0+1 0+1	-
	Total	18 (15+3)	



Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
CSP221	Data Structures and Algorithms [CC]	3+0	CSP121
CSP221L	Data Structures and Algorithms Lab	0+1	CSP121
BCN202	Business and Professional Speech [GER]	3+0	-
CSP241	Comp. Organization & Assembly Lang. [CC]	3+0	-
CSP241L	Comp. Organization & Assembly Lang. Lab	0+1	-
MAT201	Linear Algebra [MSC]	3+0	MAT110
REL101	Islamic Studies [GER]	2+0	-
REL103 / REL113	Understanding of Holy Quran-II [GER] / Comparative Religion-II [GER]	0+1 0+1	REL102 / REL112
	Total	17 (14+3)	

Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
CSP261	Introduction to Database Systems [CC]	3+0	-
CSP261L	Introduction to Database Systems Lab	0+1	-
SEP151	Introduction to Software Engineering [CC]	3+0	-
STS101	Probability Theory and Statistics [MSC]	3+0	-
CSP222	Operating Systems [CC]	3+0	CSP221
CSP222L	Operating Systems Lab	0+1	CSP221
CSP228	Design & Analysis of Algorithms [CC]	3+0	CSP221
	Total	17 (15+2)	

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
SEP353	Software Construction and Development [DC]	2+0	-
SEP353L	Software Construction and Development Lab	0+1	-
CSP371	Computer Networks [CC]	2+0	-
CSP371L	Computer Networks Lab	0+1	-
MGT102	Introduction to Management & Organizational Behavior [GER]	2+0	-
CSP311	Professional Practices [GER]	2+0	-
SEP355	Software Design & Architecture [DC]	3+0	SEP151
CSP381	Artificial Intelligence [CC]	2+0	STS101
CSP381L	Artificial Intelligence Lab	0+1	STS101
PSC101	Pakistan Studies [GER]	2+0	-
	Total	18 (15+3)	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
SEPxxx	SE Elective 1 [DE]	3+0/2+1	-
SEPxxx	SE Elective 2 [DE]	3+0/2+1	-
SEP356	Software Quality Engineering [DC]	2+0	-
SEP356L	Software Quality Engineering Lab	0+1	-
SEP357	Software Requirement Engineering [DC]	2+0	-
SEP357L	Software Requirement Engineering Lab	0+1	-
CSP314	Tech Entrepreneurship [GER]	2+0	-
CSP472	Information Security [CC]	3+0	-
	Total	17 (15+2#)	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
SEPxxx	SE Elective 3 [DE]	3+0/2+1	-
SEPxxx	SE Elective 4 [DE]	3+0/2+1	-
CSP443	Parallel and Distributed Computing [DC]	3+0/	CSP222
SSC303	Service Learning and Civic Responsibilities [GER]	2+0	-
SEP481	Software Project Management [DC]	2+0	-
SEP481L	Software Project Management Lab	0+1	-
SEP491	Final Year Project I [CC]	0+3	SEP151
	Total	17 (13+4#)	
Summer Internship		3+0	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
SEPxxx	SE Elective 5 [DE]	3+0/2+1	-
SEPxxx	SE Elective 6 [DE]	3+0/2+1	-
SEPxxx	SE Elective 7 [DE]	3+0/2+1	-
PSC302	Ideology and Constitution of Pakistan [GER]	2+0	-
SEP490	Professional Certification	3+0	-
SEP492	Final Year Project II [CC]	0+3	SEP491
	Total	17 (14+3#)	

Total 140 Credit Hours

#Lab depends on selection of elective courses by students.



Domain Elective

DSP162 Introduction to Data Science DAP162L Introduction to Data Science Lab	SEP421 Semantic Web
CSP331 Theory of Automata & Formal Languages	DSP463 Natural Language Processing
CSP362 Advanced Database Systems CSP362L Advanced Database Systems Lab	SEP452 Real-Time Systems DSP481 Machine Learning
CSP422 Web Engineering	CSP479 Cloud Computing
CSP325 HCI and Computer Graphics[DC] CSP325L HCI and Computer Graphics Lab	DSP467 Big Data Analytics
CSP342Computer Architecture [DC] CSP342L Computer Architecture Lab	SEP471 Multimedia Communication
CSP462 Enterprise Systems	SEP453 Software Verification and Validation
SEP424 Visual Programming	SEP428 Object Oriented Analysis & Design
CSP426 E-Commerce	SEP472 Management Information Systems
SEP426 Systems Programming	CSP475 Information Systems Audit
SEP427 Game Application Development	SEP429 Global Software Development
CSP424 Mobile Application Development	SEP454 Topics in Software Engineering
SEP451 Agent Based Software Engineering	SEP473 DevOps

BS STATISTICS & BUSINESS ANALYTICS

The BS in Statistics and Business Analytics is designed to provide students with strong analytical and digital skills by combining statistical theory with applied data analysis techniques. The program emphasizes hands-on learning, enabling students to apply these skills to real-world challenges in domains such as marketing, finance, economics, and the social sciences. Students also gain exposure to international and sustainable management perspectives, preparing them to address contemporary global issues. With the rapid advancement of analytics technologies, the program ensures students are well-prepared to leverage modern tools that support data-driven decision-making. Analytics today is recognized as a critical enabler, offering organizations valuable insights and a competitive advantage across diverse industries. This four-year degree requires the completion of 138 credit hours over eight semesters, including 35 credits of general education courses, 94 credits of major/minor and interdisciplinary courses, a 6-credit capstone project, and a 3-credit internship (minimum 6 weeks with an approved organization).

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

***Note for Non-Muslim Students*

Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.

****BCN010 Intensive English (Pre-Sessional Course)*

A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week before the start of the Semester.

****Students from pre-medical background are required to additionally complete the following two mathematics courses:*

MAT011 Basic College Mathematics

MAT012 Intermediate College Mathematics.

Statistics and Business Analytics students learn to:

1. Apply knowledge of Computing, Mathematics, and Statistics and integrate it with applied domains relevant to the program.
2. Demonstrate a thorough understanding of analytical tools and research methods to conduct in-depth investigations.
3. Analyze data to identify problems and explore evidence-based solutions across diverse fields.
4. Acquire the knowledge and skills to gain insights into real-world challenges faced by organizations and industries.
5. Apply data analytics to areas such as Marketing, Finance, Risk Management, Human Resource Management, and Supply Chain Management.
6. Contribute to positive societal impact in areas such as healthcare, transportation, education, and sustainability.

Learning Outcomes for Statistics and Business Analytics Students include:

1. Design, implement and evaluate a computer-based system, process, component or program to meet desired needs.
2. Communicate effectively with different audiences.
3. Improve business-related decision-making skills by exploring and mining data from various aspects.

Eligibility Criteria

The BS (Statistics and Business Analytics) is a four-year program. Applicants who have successfully completed H. Sc with minimum 50% marks in Science Group (Pre-Engineering) or in General Group (with Mathematics/Statistics/Computer Science) or A-Levels with a maximum 2 'Cs in three principal subjects (with Mathematics/Statistics/Computer Science) are eligible to apply for admission.



Required Courses

General Education Courses

Religious Studies

REL101 Islamic Studies

Civics & Community Engagement

SSC303 Service-Learning and Civic Responsibility

Functional English

BCN101 Academic English

Expository Writing

BCN301 Persuasive & Analytical Writing

Political Sciences

PSC101 Pakistan Studies

PSC201 Ideology & Constitution of Pakistan

Arts & Humanities

LAN 30* Foreign Language

*1 = Introduction to Arabic *2 = Introduction to French

*4 = Introduction to German *6 = Introduction to Italian

*8 = Introduction to Chinese

Natural Science

EEM101 Environmental studies

Entrepreneurship

ETP101 Entrepreneurship

Social Science

ECN101 Principles of Microeconomics

Application of Information and Communication Technologies

CSP111 Intro. to Information and Communication Technologies

Quantitative Reasoning

MAT101 College Algebra

MAT111 Applied Calculus

Interdisciplinary Courses

Economics

ECN102 Principles of Macroeconomics

Accounting

ACS101 Introduction to Financial Accounting

Management

MGT102 Intro. to Management and Organizational Behavior

HRM201 Human Resource Management

Finance

FNS201 Introduction to Business Finance

FNS202 Financial Management

Core Courses

Programming

CSP123 Programming for Analyst

CSP381 Artificial Intelligence

CSP368 Data Visualization

DSP467 Big Data Analytics

Mathematics

MAT103 Introduction to Applied Analytics

MAT201 Linear Algebra

MAT211 Multivariable Calculus

MAT311 Modeling and Simulation

Statistics

STS101 Probability Theory and Statistics

STS201 Model and Inferences

STS203 Probability Theory and Distributions

STS204 Statistical Packages

STS301 Data Analysis and Decision Making

STS302 Sampling Theory

STS401 Applied Econometrics

STS402 Time Series Analysis and Forecasting

STS404 Applied Multivariate Analysis

STS405 Statistical Machine Learning

STS407 Decision Theory

STS408 Design of Experiments

STS409 Industrial Analytics and Statistics

Elective Courses

MAT458 Operations Research

STS451 Loss Model

STS452 Statistical Quality Control

STS453 Bayesian Analysis

DSP366 Data Mining

DSP583 Artificial Neural Networks

DSP465 Information Retrieval

DSP468 Social Network Analysis

Analytics (maximum two)

BIA433 Marketing Intelligence and Analytics

BIA434 Big Data in Finance

BIA435 Applied Financial Analytics

BIA 437 Applied Supply Chain Analytics

Course Structure

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
BCN101	Academic English	3+0	-
MAT101	College Algebra	3+0	-
STS101	Probability Theory and Statistics	3+0	-
ECN101	Principles of Microeconomics	3+0	-
CSP111	Introduction to information and communication technologies [Theory]	2+0	-
CSP111L	Introduction to information and communication technologies [Lab]	0+1	
REL101	Islamic Studies	2+0	
	Total	17 (16+1)	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
BCN301	Persuasive & Analytical Writing	3+0	BCN101
MAT111	Applied Calculus	3+0	MAT101
STS201	Model & Inferences	3+0	STS101
ECN102	Principles of Macroeconomics	3+0	ECN101
EEM101	Environmental Studies	2+1	-
PSC101	Pakistan Studies	2+0	-
	Total	17(16+1)	

Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
MAT201	Linear Algebra	3+0	MAT111
MGT102	Introduction to Management and Organizational Behavior	3+0	-
ACS101	Introduction to Financial Accounting	3+0	-
CSP123	Programming for Analyst (Theory)	3+0	-
CSP123L	Programming for Analyst (Lab)	0+1	
STS203	Probability Theory & Distributions	3+0	STS101
PSC201	Ideology and Constitution of Pakistan	2+0	PSC101
	Total	18 (17+1)	

Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
STS301	Data Analysis and Decision Making	2+1	STS201
MAT202	Introduction to Applied Analytics	3+0	MAT101
MAT211	Multivariable Calculus	3+0	MAT111
ETP101	Entrepreneurship	3+0	-
SSC303	Service-Learning and Civic Responsibility	0+2	-
LAN30*	Foreign Language	3+0	-
	Total	17 (14+3)	



Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
STS401	Applied Econometrics	2+1	STS301
STS302	Sampling Theory	2+1	STS101
FNS201	Introduction to Business Finance	3+0	ACC101
STS404	Applied Multivariate Analysis	3+0	MAT201, STS203
CSP381	Artificial Intelligence [CC]	2+0	STS101
CSP381L	Artificial Intelligence Lab	0+1	
STS204	Statistical Packages	2+1	STS101
	Total	18 (14+4)	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
FNS202	Financial Management	3+0	FIN201
MAT411	Modelling and Simulation	2+1	MAT201
STS408	Design of Experiments	3+0	STS301
STS407	Decision theory	3+0	STS201
HRM201	Human Resource Management	3+0	MGT102
CSP368	Data Visualization [Theory]	2+0	CSP123
CSP368L	Data Visualization [Lab]	0+1	
	Total	18 (16+2)	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
STS409	Industrial Analytics and Statistics	2+1	STS301
STS405	Statistical Machine Learning [Theory]	2+0	CSP111, MAT201, STS101
STS405L	Statistical Machine Learning [Lab]	0+1	
STSXXX	Elective I	2+1	-
STSXXX	Elective II	2+1	-
STS491	Final Year Project I	0+3	
	Total	15 (8+7)	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
DSP467	Big Data Analytics [Theory]	2+0	STS405
DSP467L	Big Data Analytics [Lab]	0+1	
STS402	Time Series Analysis and Forecasting	2+1	STS301
STSXXX	Elective III	3+0	-
XXXXXX	Elective IV	2+1	-
STS492	Final Year Project II	0+3	STS491
	Total	15 (9+6)	

BS TECHNOLOGY MANAGEMENT

BS in Technology Management is inspired to combine the advancements in technology with a hands-on management approach to solve the problems of 21st Century.

The focus of this program is to produce graduates that can ensure sustainable digital future. The key for which is automation and digital transformation. This program aims to produce graduates that can identify, plan, and execute the conversation of an existing organization. Students, by the end of the program, will be able to enter an Industry 4.0 enabled company and optimize the process and streamline the workflow and to improve efficiency productivity.

1. Apply knowledge of strategy, marketing, digital technology, and big data analysis to complex Industry 4.0 based problems / situations / scenarios including 3D printer, AI, Block chain and Cyber Physical Systems
2. Develop expertise in mapping processes of an industry and strategize the conversion to digital platform
3. Identify operations that can be automated to reduce resources (time, raw material, people etc.)

Career Prospects:

- | | | | |
|-------------------------------|-------------------------|-----------------------|---------------------------|
| 1. Technology Managers | 2. System Analysts | 3. Management Analyst | 4. Management Consultants |
| 5. Computer Network Architect | 6. Engineering Managers | | |

Main Features:

- a. Name of the proposed Program: Bachelor of Science in Technology Management
- b. Total Credit Hours for completion of the program: 137
- c. Program duration: eight semester/ four years
- d. Proposed initial date for implementation of the program: Spring 2022

Eligibility:

Applicants who have successfully completed HSC with minimum 50% marks in pre-engineering, pre-medical or in General Group (with Mathematics/ Computer Science) or A-Levels with a maximum of 2-Cs in three principal subjects are eligible to apply for admission.

Students from a pre-medical background are required to additionally complete the following two mathematics courses:

MAT011 Basic College Mathematics

MAT012 Intermediate College Mathematics

PEOs

PEO 1: Will have demonstrated knowledge of Technology Management and management tools appropriate for career pursuits and workplace needs.

PEO 2: Will have the ability to understand, diagnose, communicate and provide solutions to technical problems/situations to ensure sustainable digital future.

PEO 3: Will demonstrate the intellectual curiosity to actively pursue the acquisition of new knowledge and skills necessary to refine and improve his/her abilities to contribute to the Technology domain to enhance industrial productivity.

PEO 4: Ethical commitment that allows them to deal successfully with social, technical and professional situations in their lives and work.

PLOs

Program outcomes are the narrower statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills and attitude that the students acquire while progressing through the program. The program must demonstrate that the students have attained a certain set of knowledge, skills and behavioral traits, at least to some acceptable minimum level. Specifically, it is to be demonstrated that the students have acquired the following graduate attributes but not limited to:



1. Engineering Technology Knowledge (SA1): An ability to apply knowledge of mathematics, natural science, Technology fundamentals and Engineering Technology specialization to defined and applied procedures, processes, systems or methodologies.
2. Problem Analysis (SA2): An ability to Identify, formulate, research literature and analyze broadly-defined Engineering Technology problems reaching substantiated conclusions using analytical tools appropriate to the discipline or area of specialization.
3. Design/Development of Solutions (SA3): An ability to design solutions for broadly- defined Engineering Technology problems and contribute to the design of systems, components or processes to meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations
4. Investigation (SA4): An ability to conduct investigations of broadly-defined problems; locate, search and select relevant data from codes, data bases and literature, design and conduct experiments to provide valid conclusions.
5. Modern Tool Usage (SA5): An ability to Select and apply appropriate techniques, resources, and modern technology and IT tools, including prediction and modelling, to broadly-defined Engineering Technology problems, with an understanding of the limitations.
6. The Engineering Technologist and Society (SA6): An ability to demonstrate understanding of the societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to Technology Management practice and solutions to broadly defined Technology Management problems.
7. Environment and Sustainability (SA7): An ability to understand and evaluate the sustainability and impact of Technology Management work in the solution of broadly defined Technology Management problems in societal and environmental contexts.
8. Ethics (SA8): Understand and commit to professional ethics and responsibilities and norms of Technology Management practice
9. Individual and Team Work (SA9): An ability to Function effectively as an individual, and as a member or leader in diverse teams.
10. Communication (SA10): An ability to communicate effectively on broadly defined activities with the Technologist community and with society at large, by being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project Management (SA11): An ability to demonstrate knowledge and understanding of Technology management principles and apply these to one's own work, as a member or leader in a team and to manage projects in multidisciplinary environments.
12. Lifelong Learning (SA12): An ability to recognize the need for, and have the ability to engage in independent and life-long learning in specialist Technologies.

Degree Requirements:

Minimum duration:	4 years	Number of semesters:	8
Number of weeks per semester:	16-18	Total number of credit hours:	137
Number of credit hours per semester:	15-18	Laboratory work:	03 hrs.
Total number of courses:	45 Courses		

Major Courses

Disciplinary Core Domain

CSP121	Programming Fundamentals	(3+1 credit hours)
BTM104	Basic Electrical Circuits	(3+1 credit hours)
CSP122	Object Oriented Programming	(3+1 credit hours)
CSP141	Digital Logic Design	(3+1 credit hours)
CSP131	Discrete Structure	(3+0 credit hours)
BTM202	Operating Systems	(2+1 credit hours)
CME204	Data Structure & Algorithms	(2+1 credit hours)
ELE102	Basic Electronics	(3+1 credit hours)
TCE202	Signals and Systems	(2+1 credit hours)
CME205	Microprocessor & Microcontroller Systems	(3+1 credit hours)
BTM301	Data Communication & Networks	(2+1 credit hours)
ELE419	Linear Control System	(3+1 credit hours)
BTM304	Sensors and Instrumentation	(2+1 credit hours)
CSP261	Introduction to Database System	(3+1 credit hours)
BTM406	Wireless Sensor Networks	(3+0 credit hours)
BTM430	Internet of Things	(2+1 credit hours)
BTM418	Digital Image Processing	(2+1 credit hours)
CSP381	Artificial Intelligence	(2+1 credit hours)

Management Domain

MRK101 Fundamentals of Marketing Management	(3+0 credit hours)
SCM501 Supply Chain Management	(3+0 credit hours)
MGT403 Strategic Management	(3+0 credit hours)
CSP462 Enterprise Systems	(3+0 credit hours)

General Education

Arts & Humanities

LAN30* Foreign Language	(3+0 credit hours)
*1 Arabic *2 French *4 German *6 Italian *8 Chinese	

Social Sciences

MGT102 Introduction to Management & Organizational Behavior	(3+0 credit hours)
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Natural Sciences

PHY111 Applied Physics	(2+1 credit hours)
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Expository Writing

COM202 Business and Professional Speech	(3+0 credit hours)
BCN201 Persuasive & Analytical Writing for Business Communication	(3+0 credit hours)

Functional English

BCN101 Academic English	(3+0 credit hours)
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Quantitative Reasoning

MAT105 Calculus & Linear Algebra	(3+0 credit hours)
MAT211 Multivariable Calculus	(3+0 credit hours)

Ideology and Constitution of Pakistan

PSC301 Pakistan Studies	(2+0 credit hours)
PSC302 Ideology and Constitution of Pakistan	(2+0 credit hours)

Religious Education

REL101 Islamic Studies	(2+0 credit hours)
REL102 Understanding the Holy Quran I	(1+0 credit hours)
REL103 Understanding the Holy Quran II	(1+0 credit hours)

Entrepreneurship

ENT403 Small Business & Entrepreneurship	(3+0 credit hours)
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Applications of Information and Communication Technologies (ICT)

CSP111 Introduction to Information and Communication Technology	(2+1 credit hours)
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Civics and Community Engagement

SSC303 Service Learning and Responsibility	(2+0 credit hours)
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Capstone Project

BTM452 Final Year Project I	(0+3 credit hours)
BTM453 Final Year Project II	(0+3 credit hours)



Course Structure

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
BCN101	Academic English	3+0	-
PHY111	Applied Physics	2+1	-
CSP111	Introduction to Information & Communication Technology	2+1	-
MAT105	Calculus & Linear Algebra	3+0	-
CSP121	Programming Fundamentals	3+1	-
	Total	16 (13+3)	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
BTM104	Basic Electrical Circuits	3+1	PHY111
BCN201	Persuasive & Analytical Writing for Business Communication	3+0	BCN101
CSP122	Object Oriented Programming	3+1	CSP121
CSP141	Digital Logic and Design	3+1	PHY111
PSC301	Pakistan Studies	2+0	-
	Total	17 (14+3)	

Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
CSP131	Discrete Structure	3+0	-
CME204	Data Structure & Algorithms	2+1	CSP121
ELE102	Basic Electronics	3+1	BTM104
LAN30*	Foreign Language	3+0	-
MAT211	Multivariable Calculus	3+0	MAT105
REL102	Understanding of the Holy Quran I	1+0	-
	Total	17 (15+2)	

Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
BTM202	Operating Systems	2+1	CME204
TCE202	Signals and Systems	2+1	MAT211
CME205	Microprocessor & Microcontroller Systems	3+1	CSP141
COM202	Business and Professional Speech	3+0	BCN201
MRK101	Fundamentals of Marketing Management	3+0	-
REL103	Understanding of the Holy Quran II	1+0	-
	Total	17 (14+3)	
INT302	Internship	3+0	-

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
ENT403	Small Business & Entrepreneurship	3+0	-
BTM301	Data Communication & Networks	2+1	-
BTM304	Sensors and Instrumentation	2+1	-
ELE419	Linear Control System	3+1	TCE202
BTM302	Technology Management	2+0	-
REL101	Islamic Studies	2+0	-
	Total	17 (14+3)	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
MGT102	Introduction to Management & Organizational Behavior	3+0	-
SCM501	Supply Chain Management	3+0	-
CSP261	Introduction to Database Systems	3+1	CME204
CSP381	Artificial Intelligence	2+1	-
	Elective I	2+1/3	-
	Total	16 (14+2)	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
	Elective II	2+1/3	-
	Elective III	2+1/3	-
BTM406	Wireless Sensor Networks	3+0	-
BTM430	Internet of Things	2+1	-
MGT403	Strategic Management	3+0	MGT102
BTM452	Final Year Project I	0+3	-
	Total	18 (12+6)	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
PSC302	Ideology and Constitution of Pakistan	2+0	-
CSP462	Enterprise Systems	3+0	-
BTM453	Final Year Project II	0+3	BTM452
BTM418	Digital Image Processing	2+1	-
	Elective IV	2+1/3	-
SSC303	Service Learning and Responsibilities	2+0	-
	Total	16 (11+5)	

Note:

Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no pre-requisites.



Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.

COM010 Intensive English (Pre-Sessional Course)

A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week before the start of the Semester.

Elective Courses

Course	Stream	Credit Hours
DSP483 Neural Network	Digital Technology Transformation	3+0
IDE409 Philosophy of Technology	Digital Technology Transformation	3+0
IDE405 Business and Technology Strategy	Digital Technology Transformation	3+0
CME415 Management Information System	Digital Technology Transformation	3+0
CME417 UI/UX Design Development	Digital Technology Transformation	3+0
CME418 IoT Business Case	Digital Technology Transformation	3+0
BTM405 Nano Technology Fundamentals	Digital Technology Transformation	3+0
EPE432 Wireless Power Transmission	Digital Technology Transformation	3+0
BTM407 Information Theory and Coding	Digital Technology Transformation	3+0
DSP481 Machine Learning	Digital Technology Transformation	3+0
CSP479 Cloud Computing	Digital Technology Transformation	3+0
DSP467 Big Data Analytics	Digital Technology Transformation	3+0
BTM429 Artificial Intelligence in Technology	Digital Technology Transformation	3+0
BTM430 Agentic AI	Digital Technology Transformation	3+0
BTM431 Scalable AI	Digital Technology Transformation	3+0
DSP481 Machine Learning	Digital Technology Transformation	3+0
BTM412 Business Transformation	E-Business	3+0
IDE406 Production Planning & Control	E-Business	3+0
IDE407 Software Project Management	E-Business	3+0
CSP311 Professional Practices	E-Business	3+0
FNS202 Financial Management	E-Business	3+0
CSP426 E-Commerce	E-Business	3+0
BTM416 Opto Electronics	Emerging Trends in Technology	2+1
BTM419 Industrial Electronics	Emerging Trends in Technology	2+1
BTM424 Digital Communication Systems	Emerging Trends in Technology	2+1
BTM425 Network Communication Protocols	Emerging Trends in Technology	2+1
BTM426 Power Electronics	Emerging Trends in Technology	2+1
BTM427 FPGA	Emerging Trends in Technology	2+1
CME416 IoT System Development	Emerging Trends in Technology	2+1
DSP368 Data Visualization	Emerging Trends in Technology	2+1

MS COMPUTER SCIENCE

The Master of Science program in Computer Science provides intensive preparation in the concepts and techniques related to the design, programming, and application of computing systems. The program requires students to take a broad spectrum of courses and simultaneously allows for emphasis on the desired areas of specialization.

The program is designed in accordance with the guidelines of the Higher Education Commission (HEC). It spans a minimum duration of two years, comprising at least four semesters, and requires the successful completion of 32 credit hours. Students must maintain a CGPA of 3.0 for the conferment of the degree.

The following Program Objectives are articulated for the MS CS program:

1. Equip students with in-depth technical knowledge while fostering critical thinking, creativity, and research capabilities.
2. Develop skilled software engineers and computer scientists with strong problem-solving and analytical abilities to design effective solutions.
3. Instill ethical, professional, and leadership values to prepare graduates for responsible and impactful careers that create positive societal impact and meaningful change.
4. Promote lifelong learning through continuous professional development, adaptability to emerging technologies, and pursuit of advanced studies.

Learning Outcomes for MS Computer Science students include:

1. Acquisition of hands-on experience with relevant software tools, languages, data models, and environments for data processing.
2. Ability to communicate results of analysis effectively (visually and verbally) to a broad audience in the fields of biology, environment, finance and risk management, data science, business management, and other disciplines.
3. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution.
4. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs.
5. Be well-prepared for research and development in Computer Science in industry or academia.
6. Deal with the challenges of the IT industry with global changes.
7. Develop logical thinking process

Career Path:

- | | | |
|--------------------------------|---------------------------|-----------------------------|
| 1. Application Analyst | 2. Applications Developer | 3. Data Analyst |
| 4. UX Designer | 5. IT Consultant | 6. Cybersecurity Consultant |
| 7. Information Systems Manager | 8. Multimedia Programmer | 9. Systems Analyst |
| 10. Games Developer | | |

Prospective Employers:

- | | | |
|--|-------------------------------|---------------------------|
| 1. Cyber Internet Services | 2. Internet Service Providers | 3. Banking Sectors |
| 4. Industrial Sectors | 5. Software Houses | 6. Real Estate Sector |
| 7. Communication & Transportation Sector | 8. Colleges & Universities | 9. Govt. & Private Sector |

Eligibility

BS(CS) / MCS / BE in Computer Engineering candidates are required to fulfill the requirement as proposed by the Department Board of Studies. Minimum CGPA of 2.5 (on a scale of 4.0). MS (Computer Science) program consists of two groups of courses, core and elective.

The following core courses are recommended to be completed before entering the MS (CS) program.

- | | | |
|---------------------------|---|-----------------------|
| 1. Analysis of Algorithms | 2. Assembly Lang. / Computer Architecture | 3. Computer Networks |
| 4. Computer Programming | 5. Data Structures | 6. Database Systems |
| 7. Operating Systems | 8. Software Engineering | 9. Theory of Automata |



A student selected for admission having a deficiency in the above-stated courses may be required to study a maximum of FOUR courses, which must be passed in the first two semesters. A student cannot register in MS courses unless all specified deficiency courses have been passed.

Program Requirements

To fulfill the degree requirements, students must complete eight taught courses along with 6 credit hours of research thesis for MS by Thesis-I and Thesis-II, or 6 credit hours of Independent Research Studies, namely IRS-I and IRS-II, for MS by Independent Research Study, or 6 credit hours through two courses, Elective IV and Elective V, each carrying 3 credit hours, for MS by Coursework. The MS by Coursework option shall be subject to the approval of the departmental committee. For MS Thesis requirement, the students must refer to the MS Policy Manual available at <https://basr.iobm.edu.pk/ms-mphil-and-phd-policy-and-thesis/> Core Courses

Course Code

CSP511	Research Methodology	3 credit hours
CSP521	Advanced Operating Systems	3 credit hours
CSP522	Theory of Programming Languages	3 credit hours
CSP531	Advanced Analysis of Algorithm	3 credit hours
CSP541	Advanced Computer Architecture	3 credit hours

Elective Courses

CSP551	Advanced Software Engineering	CSP552	Software Requirement Engineering
CSP553	Software Testing Strategies	CSP554	Software Quality Assurance
CSP555	Object-Oriented Software Engineering	CSP512	Communication and Information Policy
CSP542	Distributed Systems	CSP543	Parallel and Distributed Algorithms
CSP561	Advanced Database Management Systems	CSP562	Data Warehousing
AIP581	Advanced Artificial Intelligence	CSP582	Machine Learning
CSP583	Data Mining	DSP584	Pattern Recognition
AIP585	Artificial Neural Networks	CSP586	Fuzzy Systems
CSP587	Deep Learning		

Note: Students must select at least three electives from the above list

Thesis / IRS

CSP691	MS Thesis - I	3 credit hours
CSP692	MS Thesis - II	3 credit hours
CSP693	Independent Research Study - I	3 credit hours
CSP694	Independent Research Study - II	3 credit hours

Note: Students must choose either the MS Thesis, the Independent Research Study, or two elective courses from the Elective Courses List. If a student opts for the MS Thesis, enrollment in MS Thesis-II is mandatory to maintain continuous registration until the thesis is formally submitted to the Board of Advanced Studies and Research (BASR) for further processing.

Course Structure

Semester One Research Methodology Advanced Computer Architecture Advanced Analysis of Algorithm Elective I	Semester Two Advanced Operating Systems Theory of Programming Languages Elective II Elective III
Semester Three IRS-1/ Elective IV * / MS Thesis-I Understanding of Holy Quran-I ** / Comparative Religion-I **	Semester Four IRS – II / and Elective V * / MS Thesis-II Understanding of Holy Quran-II ** / Comparative Religion-II **

* Subject to the approval of departmental committee

** Muslim students are required to take Understanding of Holy Quran-I (1 Credit hour) and Understanding of the Holy Quran-II (1 Credit hour) and Non-Muslim students are required to take Comparative Religion-I and Comparative Religion-II.



MS ARTIFICIAL INTELLIGENCE

The MS in Artificial Intelligence program offers students a strong base of essential skills and knowledge that are vital for adapting to the swift shifts occurring in this dynamic field. This AI degree curriculum lays the groundwork and advanced proficiencies in the fundamental principles and technologies underpinning AI. These include logic, knowledge representation, probabilistic models, and machine learning. Students have the opportunity to delve into specific areas through specialized courses, such as computer vision, remote sensing, and natural language processing. Artificial Intelligence stands as a rapidly evolving and demanding domain, poised to be a major driving force across various industries in the immediate future. The transformative impacts it introduces are becoming increasingly evident, whether it is in the functionality of smartphones or the imminent realization of self-driving vehicles.

The program is designed in accordance with Higher Education Commission (HEC) guidelines. It spans a minimum of 2 years, comprising at least 4 semesters, and requires the successful completion of 32 credit hours.

The following Program Objectives are articulated for the MS Artificial Intelligence program:

1. Develop advanced programming and design proficiency to conceptualize, implement, and scale state-of-the-art artificial intelligence systems using high-level programming languages, software architectures, components, and application programming interfaces.
2. Apply machine learning, natural language processing, computer vision, knowledge representation, probabilistic models, and contemporary AI architectures to translate abstract AI challenges into specific project requirements and measurable performance criteria.
3. Conduct simulations and experiments, apply appropriate performance metrics, and systematically validate, evaluate, and improve the performance of AI-based software solutions.
4. Develop independent research capability through problem formulation, literature review, method development, experimentation, testing, result analysis, thesis preparation, and professional reporting in artificial intelligence.

Learning Outcomes for MS Artificial Intelligence students include:

1. Demonstrate a profound understanding of advanced artificial intelligence and machine learning practices, encompassing conceptualization, analysis, design, verification, and deployment.
2. Address complex challenges in machine learning and artificial intelligence by applying contemporary principles, algorithms, technologies, methodologies, and tools.
3. Assume leadership roles and contribute effectively within collaborative teams engaged in the development of artificial intelligence and machine learning applications.
4. Demonstrate awareness of the ethical, economic, social, and environmental implications associated with artificial intelligence systems and professional practice.
5. Achieve continued professional success while maintaining a commitment to lifelong learning in artificial intelligence, engineering, and related professional domains.
6. Communicate technical concepts, methods, findings, and recommendations effectively and persuasively to diverse audiences.

Career Path:

- | | | |
|----------------------------------|---------------------------------|------------------------------|
| 1. Machine Learning Engineer | 2. Data Scientist | 3. Data Analyst/Engineer |
| 4. Business Intelligence Analyst | 5. Big Data Engineer | 6. Computer Vision Engineer |
| 7. Data Product Manager | 8. Data Mining Engineer | 9. Healthcare Data Scientist |
| 10. Data Architect | 11. Operations Research Analyst | 12. Data Science Consultant |

Prospective Employers:

- | | | |
|--------------------------------|-----------------------------|--------------------------|
| 1. Technology Companies | 2. Research Institutions | 3. Automotive Industry |
| 4. Healthcare Industry | 5. Financial Services | 6. E-commerce and Retail |
| 7. Manufacturing and Logistics | 8. Educational Institutions | 9. Aerospace and Defense |

Eligibility

To be eligible for the MS in Artificial Intelligence (MSAI) program, candidates must hold a four-year Bachelor's degree (16 years of education) in a relevant computing discipline, such as BS Artificial Intelligence, BS Computer Science, or BS Information Technology, from an HEC-recognized university, with a minimum CGPA of 2.5 on a 4.0 scale or Second Division. If the student is coming from irrelevant background, then the student must pass 4 deficiency courses.



Program Requirements

To fulfill the degree requirements, students must complete eight taught courses along with 6 credit hours of research thesis for MS by Thesis, or 6 credit hours of Independent Research Studies, namely IRS-I and IRS-II, for MS by Independent Research Study, or 6 credit hours through two courses, Elective IV and Elective V, each carrying 3 credit hours, for MS by Coursework. The MS by Coursework option shall be subject to the approval of the departmental committee. For MS Thesis requirement, the students must refer to the MS Policy Manual available at <https://basr.iobm.edu.pk/ms-mphil-and-phd-policy-and-thesis/>.

Core Courses

CSP511	Research Methodology	3 credit hours
AIP581	Advanced Artificial Intelligence	3 credit hours
AIP582	Advanced Machine Learning	3 credit hours
AIP583	Advanced Deep Learning	3 credit hours
AIP584	Information Retrieval Techniques	3 credit hours

Elective Courses

AIP531	Information Theory	AIP532	Automated Reasoning
AIP541	Parallel Algorithms	AIP542	Ubiquitous Computing and Intelligent Systems
AIP571	Internet of Things and Sensor Networks	AIP585	Artificial Neural Networks
AIP586	Pattern Classification and Recognition	AIP587	Evolutionary Computing
AIP588	Knowledge Engineering	AIP589	Knowledge Graphs for Explainable Artificial Intelligence
AIP681	Statistical Relational Artificial Intelligence	AIP682	Design of Intelligent Information Systems
AIP683	Image Processing	AIP684	Computer Vision: From Theory to Applications
AIP685	Medical Image Processing and Analysis	AIP686	Intelligent Video Analytics
AIP687	Brain-Computer Interface	AIP688	Advanced Natural Language Processing
AIP689	Web Mining	AIP512	Social Network Analysis
AIP513	Artificial Intelligence in Sports Analytics	AIP514	Artificial Intelligence in Automation
AIP515	Artificial Intelligence in Cryptography	AIP516	Artificial Intelligence in Information Security
AIP517	Artificial Intelligence in Secure Network Analysis		

Note: Students must select at least three electives from the above list

Thesis / IRS

AIP691	MS Thesis - I	3 credit hours
AIP692	MS Thesis - II	3 credit hours
AIP693	Independent Research Study - I	3 credit hours
AIP694	Independent Research Study - II	3 credit hours

Note: Students must choose either the MS Thesis, the Independent Research Study, or two elective courses from the Elective Courses List. If a student opts for the MS Thesis, enrollment in MS Thesis-II is mandatory to maintain continuous registration until the thesis is formally submitted to the Board of Advanced Studies and Research (BASR) for further processing.

Course Structure

Semester One Research Methodology Advanced Artificial Intelligence Advanced Machine Learning Elective I	Semester Two Advanced Deep Learning Information Retrieval Techniques Elective II Elective III
Semester Three IRS-1/ Elective IV * / MS Thesis-I Understanding of Holy Quran-I ** / Comparative Religion-I **	Semester Four IRS – II / and Elective V * / MS Thesis-II Understanding of Holy Quran-II ** / Comparative Religion-II **

* Subject to the approval of the departmental committee.

** Muslim students are required to take Understanding of Holy Quran-I (1 Credit hour) and Understanding of the Holy Quran-II (1 Credit hour) and Non-Muslim students are required to take Comparative Religion-I and Comparative Religion-II.

MS DATA SCIENCE

The MS Data Science (MS DS) program is a gateway to a world of opportunities. It prepares students to convert data into actionable insights, enabling them to make complex business decisions. Students will learn to handle large, complex data sets using computational, statistical, and machine learning techniques. The program offers exposure to the latest trends and technologies in data science, producing skilled professionals to meet the growing demand for data science products in national and international markets. The demand for data scientists is not just increasing; it's rising steeply, and there is a significant need for data science specialists across the public and private sectors worldwide.

The program is designed in accordance with Higher Education Commission (HEC) guidelines. It spans a minimum of 2 years, comprising at least 4 semesters, and requires the successful completion of 32 credit hours.

The following Program Objectives are articulated for the MS Data Science program:

1. To translate data analysis into actionable business insights.
2. To collaborate effectively in diverse teams.
3. To design, implement, and evaluate machine learning models to solve complex data problems.
4. create clear and impactful data visualizations and reports to present findings effectively.
5. To effectively operate and communicate as leaders or team members while understanding professional ethics and social responsibility.
6. To embrace technological advancements in data science research and development and actively engage in lifelong learning.

Learning Outcomes for MS Data Science students include:

1. The capacity to use knowledge to solve data science research and practical challenges efficiently.
2. The capacity to evaluate intricate issues and find and create creative, data-driven solutions.
3. The capacity to obtain the necessary information and abilities to preprocess and assess data efficiently.
4. The capacity to regulate data science initiatives while being thoroughly aware of social concerns, professional ethics, and obligations.
5. The capacity to interact with a variety of audiences effectively.

Career Path:

- | | | |
|----------------------------------|---------------------------------|------------------------------|
| 1. Machine Learning Engineer | 2. Data Scientist | 3. Data Analyst/Engineer |
| 4. Business Intelligence Analyst | 5. Big Data Engineer | 6. Computer Vision Engineer |
| 7. Data Product Manager | 8. Data Mining Engineer | 9. Healthcare Data Scientist |
| 10. Data Architect | 11. Operations Research Analyst | 12. Data Science Consultant |

Prospective Employers:

- | | | |
|--------------------------------|-----------------------------|--------------------------|
| 1. Technology Companies | 2. Research Institutions | 3. Automotive Industry |
| 4. Healthcare Industry | 5. Financial Services | 6. E-commerce and Retail |
| 7. Manufacturing and Logistics | 8. Educational Institutions | 9. Aerospace and Defense |

Eligibility

To be eligible for the MS in Data Science (MSDS) program, candidate must have a 4-year Bachelor's degree (16 years of education) in a relevant computing discipline (such as BS Data Science, BS Computer Science, BS IT, etc.) from an HEC-recognised university, with a minimum 2.5 CGPA on a 4.0 scale or a 2nd Division. If the student is coming from irrelevant background, then the student must pass 4 deficiency courses.



Program Requirements

To fulfill the degree requirements, students must complete eight taught courses along with 6 credit hours of research thesis for MS by Thesis, or 6 credit hours of Independent Research Studies, namely IRS-I and IRS-II, for MS by Independent Research Study, or 6 credit hours through two courses, Elective IV and Elective V, each carrying 3 credit hours, for MS by Coursework. The MS by Coursework option shall be subject to the approval of the departmental committee. For MS Thesis requirement, the students must refer to the MS Policy Manual available at <https://basr.iobm.edu.pk/ms-mphil-and-phd-policy-and-thesis/>

Core Courses

CSP511	Research Methodology	3 credit hours
DSP531	Statistics & Probability for Data Science	3 credit hours
DSP561	Advanced Big Data Analytics	3 credit hours
DSP581	Advanced Data Mining and Machine Learning	3 credit hours
DSP582	Deep Learning and Neural Networks	3 credit hours

Elective Courses

DSP512	Data Ethics and Privacy	DSP521	Programming for Data Science (Python/R)
DSP532	Numerical Linear Algebra	DSP533	Design and Analysis of Algorithms
DSP534	Optimization Methods	DSP535	Advanced Modeling and Simulation
DSP541	Distributed Computing	DSP542	Cloud Computing for Data Science
DSP562	Advanced Database Techniques	DSP563	Advanced Data Warehousing
DSP564	Advanced Data Analytics and Visualization	DSP565	Financial Data Analysis
DSP566	Geospatial Data Analysis	DSP567	Business Intelligence
DSP583	Time Series Analysis & Forecasting	DSP584	Pattern Recognition
DSP585	Knowledge-Based System	DSP586	Text Processing
AIP584	Information Retrieval Techniques	DSP587	Natural Language Processing
DSP588	Speech Processing	DSP681	Image Processing and Computer Vision
DSP682	Generative AI	DSP683	Web Mining
DSP684	Social Media Analysis	DSP685	Web Intelligence and Big Data
DSP686	Distributed Intelligence System	DSP687	Deep Reinforcement Learning

Note: Students must select at least three electives from the above list

Thesis / IRS

DSP691	MS Thesis - I	3 credit hours
DSP 692	MS Thesis - II	3 credit hours
DSP693	Independent Research Study - I	3 credit hours
DSP 694	Independent Research Study - II	3 credit hours

Note: Students must choose either the MS Thesis, the Independent Research Study, or two elective courses from the Elective Courses List. If a student opts for the MS Thesis, enrollment in MS Thesis–II is mandatory to maintain continuous registration until the thesis is formally submitted to the Board of Advanced Studies and Research (BASR) for further processing.

Course Structure

Semester One Research Methodology Advanced Data Mining and Machine Learning Statistics & Probability for Data Science Elective I	Semester Two Deep Learning and Neural Networks Advanced Big Data Analytics, Tools, And Techniques Elective II Elective III
Semester Three IRS-1/ Elective IV */ MS Thesis-I Understanding of Holy Quran-I **/ Comparative Religion-I **	Semester Four IRS – II / and Elective V * / MS Thesis-II Understanding of Holy Quran-II **/ Comparative Religion-II **

* Subject to the approval of departmental committee

** Muslim students are required to take Understanding of Holy Quran-I (1 Credit hour) and Understanding of the Holy Quran-II (1 Credit hour) and Non-Muslim students are required to take Comparative Religion-I and Comparative Religion-II.



MS MATHEMATICS AND SCIENTIFIC COMPUTING

The MS program in Mathematics & Scientific Computing develops rigorous foundational mathematical tools that help in careers as researchers and solution providers.

The MS program in Mathematics & Scientific Computing prepares students for careers in research, applications, and teaching. Students choose courses from two areas of concentration for their coursework: Mathematics and Computations. The program is designed in accordance with the guidelines of the Higher Education Commission (HEC). It spans a minimum duration of two years, comprising at least four semesters, and requires the successful completion of 32 credit hours. Students must maintain a CGPA of 3.0 for the conferment of the degree.

MS Mathematics & Scientific Computing students learn to:

- Develop a thorough understanding of mathematical methods before going to apply analytical skills to solve real-life problems
- Apply rigorous mathematical and computational skills used to handle problems to get meaningful results
- Establish and understand a connection between the techniques of mathematical analysis and scientific computing and their link with the real-life problems

Learning Outcomes for MS Mathematics & Scientific Computing students include:

1. Use knowledge to apply mathematical and scientific computing techniques and algorithms to real-life problems to extract meaningful insights
2. Acquisition of hands-on experience with relevant software tools, languages, data models, and environments for data processing
3. Ability to communicate results of analysis effectively (visually and verbally) to a broad audience in the fields of biology, environment, finance and risk management, data science, business management, and other disciplines

Career Path:

- | | | |
|---------------------|----------------------|--------------------------------|
| 1. Big Data Analyst | 2. Budget Analyst | 3. Business Metrics Analyst |
| 4. Economist | 5. Financial Analyst | 6. Operations Research Analyst |

Prospective Employers:

- | | |
|---|---|
| 1. Banking and Financial Institutions | 2. Investment and Asset Management Firms |
| 3. Government Economic and Statistical Agencies | 4. Consulting and Business Analytics Firms |
| 5. Technology Companies and Software Houses | 6. Research Organizations and Think Tanks |
| 7. Manufacturing and Industrial Organizations | 8. Universities and Higher Education Institutions |
| 9. Telecommunications and Energy Companies | |

Eligibility

16 Years of education in Computer Science, Engineering, Mathematics, Statistics, or any other relevant field. Minimum CGPA of 2.5 (on a scale of 4.0).

A student selected for admission having a degree other than mathematics may be required to study a maximum of FOUR courses as deficiency courses, which must be passed in the first two semesters. A student cannot register in MS courses unless all specified deficiency courses have been passed.

Program Requirements

To fulfill the degree requirements, students must complete eight taught courses along with 6 credit hours of research thesis for MS by Thesis, or 6 credit hours of Independent Research Studies, namely IRS-I and IRS-II, for MS by Independent Research Study, or 6 credit hours through two courses, Elective IV and Elective V, each carrying 3 credit hours, for MS by Coursework. The MS by Coursework option shall be subject to the approval of the departmental committee. For MS Thesis requirement, the students must refer to the MS Policy Manual available at <https://basr.iobm.edu.pk/ms-mphil-and-phd-policy-and-thesis/>



Core Courses

CSP511	Research Methodology	3 credit hours
MAT601	Advanced Real Analysis	3 credit hours
MAT621	Advanced Numerical Analysis	3 credit hours
STS611	Statistical Modeling and Computing	3 credit hours
MAT602	Advanced Topics in Algebra	3 credit hours

Elective Courses

Mathematics Concentration

MAT622	Numerical Methods for ODEs and PDEs	MAT624	Advanced Numerical Linear Algebra
MAT626	Financial Mathematics	MAT627	Numerical Computing and Optimization
MAT605	Advance Linear Algebra	MAT607	Introduction to Calculus of Variations
MAT623	Dynamical System	MAT625	Computational Fluid Dynamics
MAT603	Advance Functional Analysis	MAT604	Special Topics in Mathematics
MAT606	Advance Partial Differential Equations		

Computer Concentration

CSP513	Special Topics in Computing	CSP535	Advanced Design Analysis and Algorithm
CSP585	Information Retrieval and Data Mining	CSP534	Fundamentals of Algorithms
CSP588	Machine Learning		

Note: Students must select at least three electives from the above list

Thesis / IRS

MAT691	MS Thesis-I	6 credit hours
MAT692	MS Thesis - II	3 credit hours
MAT693	Independent Research Study - I	3 credit hours
MAT694	Independent Research Study - II	3 credit hours

Note: Students must choose either the MS Thesis, the Independent Research Study, or two elective courses from the Elective Courses List. If a student opts for the MS Thesis, enrollment in MS Thesis–II is mandatory to maintain continuous registration until the thesis is formally submitted to the Board of Advanced Studies and Research (BASR) for further processing

MS Thesis–II ensures continuous registration until the student’s research thesis is formally submitted to BASR for further processing.

Course Structure

Semester I Research Methodology Advanced Real Analysis Advanced Numerical Analysis Elective I	Semester II Statistical Modeling and Computing Advanced Topics in Algebra Elective II Elective III
Semester Three III IRS-1/ Elective IV */ MS Thesis-I Understanding of Holy Quran-I **/ Comparative Religion-I **	Semester Four IV IRS – II / and Elective V */ MS Thesis-II Understanding of Holy Quran-II **/ Comparative Religion-II **

** Subject to the approval of departmental committee*

*** Muslim students are required to take Understanding of Holy Quran I (1 Credit hour) and Understanding of the Holy Quran II (1 Credit hour) and Non-Muslim students are required to take Comparative Religion-I and Comparative Religion-II.*

MS STATISTICS & SCIENTIFIC COMPUTING

The MS program in Statistics & Scientific Computing develops rigorous foundational mathematical and statistical tools that help in careers as researchers and solution providers.

The MS program in Statistics & Scientific Computing prepares students for careers in research, applications, and teaching. Students choose courses from two areas of concentration for their coursework: Statistics and Computations. The program is designed in accordance with the guidelines of the Higher Education Commission (HEC). It spans a minimum duration of two years, comprising at least four semesters, and requires the successful completion of 32 credit hours. Students must maintain a CGPA of 3.0 for the conferment of the degree.

MS Statistics & Scientific Computing students learn to:

- Develop a thorough understanding of statistical methodology before applying statistical skills to solve real-life problems
- Apply rigorous statistical techniques to handle data and obtain meaningful results
- Select and transform data to increase its usefulness for solving particular problems
- Create information visualizations for data exploration and presentation
- Establish and understand a connection between the techniques of data analysis and scientific computing and their link with real-life data

Learning Outcomes for MS Statistics & Scientific Computing students include:

1. Knowledge of how to apply statistical and scientific computing techniques and algorithms to real-life datasets to extract meaningful insights.
2. Acquisition of hands-on experience with relevant software tools, languages, data models, and environments for data processing.
3. Ability to communicate results of analysis effectively, both visually and verbally, to a broad audience in the fields of biology, environment, finance and risk management, data science, business management, and other disciplines.

Career Path:

- | | | |
|---------------------|----------------------|--------------------------------|
| 1. Big Data Analyst | 2. Budget Analyst | 3. Business Metrics Analyst |
| 4. Economist | 5. Financial Analyst | 6. Operations Research Analyst |

Prospective Employers:

- | | |
|--|---|
| 1. Banking and Financial Institutions | 2. Government Statistical and Planning Agencies |
| 3. Insurance and Actuarial Firms | 4. Consulting and Business Analytics Firms |
| 5. Technology Companies and Software Houses | 6. Healthcare and Pharmaceutical Organizations |
| 7. Manufacturing and Quality Control Organizations | 8. Research Organizations and Think Tanks |
| 9. Universities and Higher Education Institutions | |

Eligibility

16 Years of education in Computer Science, Engineering, Mathematics, Statistics, or any other relevant field. Minimum CGPA of 2.5 (on a scale of 4.0).

A student selected for admission having a degree other than statistics may be required to study a maximum of FOUR courses as deficiency courses, which must be passed in the first two semesters. A student cannot register in MS courses unless all specified deficiency courses have been passed.

Program Requirements

To fulfill the degree requirements, students must complete eight taught courses along with 6 credit hours of research thesis for MS by Thesis, or 6 credit hours of Independent Research Studies, namely IRS-I and IRS-II, for MS by Independent Research Study, or 6 credit hours through two courses, Elective IV and Elective V, each carrying 3 credit hours, for MS by Coursework. The MS by Coursework option shall be subject to the approval of the departmental committee. For MS Thesis requirement, the students must refer to the MS Policy Manual available at <https://basr.iobm.edu.pk/ms-mphil-and-phd-policy-and-thesis/>



Core Courses

CSP511	Research Methodology	3 credit hours
STS601	Advanced Statistical Inference	3 credit hours
STS602	Mathematical Statistics	3 credit hours
STS612	Advanced Numerical Computing	3 credit hours
STS611	Statistical Modeling & Computing	3 credit hours

Elective Courses

Statistics Concentration

STS631	Advanced Design of Experiments	STS641	Stochastic Processes
STS623	Theory & Practice of Forecasting	STS651	Survey Sampling
STS622	Time Series Analysis	STS621	Applied Regression Models
STS632	Statistical Quality Control	STS652	Advanced Distribution Theory

Computer Concentration

CSP534	Fundamental of Algorithms	CSP632	Decision Theory
DSP584	Pattern Recognition	CSP581	Advanced Artificial Intelligence
CSP585	Information Retrieval & Data Mining	CSP588	Machine Learning
CSP633	Simulation & Modeling		

Note: Students must select at least three electives from the above list

General Completion Requirement (in case coursework is not selected)

Thesis / IRS

STS691	MS Thesis-I	6 credit hours
STS692	MS Thesis - II	3 credit hours
STS693	Independent Research Study - I	3 credit hours
ST 694	Independent Research Study - II	3 credit hours

Note: Students must choose either the MS Thesis, the Independent Research Study, or two elective courses from the Elective Courses List. If a student opts for the MS Thesis, enrollment in MS Thesis–II is mandatory to maintain continuous registration until the thesis is formally submitted to the Board of Advanced Studies and Research (BASR) for further processing

MS Thesis–II ensures continuous registration until the student’s research thesis is formally submitted to BASR for further processing.

Course Structure

Semester I Research Methodology Mathematical Statistics Advanced Numerical Computing Understanding of Holy Quran I **	Semester II Statistical Modeling & Computing Advanced Statistical Inference Elective I Understanding of Holy Quran II **
Semester Three III IRS-1/ Elective IV * / MS Thesis-I Understanding of Holy Quran-I ** / Comparative Religion-I **	Semester Four IV IRS – II / and Elective V * / MS Thesis-II Understanding of Holy Quran-II ** / Comparative Religion-II **

* Subject to the approval of departmental committee

** Muslim students are required to take Understanding of Holy Quran I (1 Credit hour) and Understanding of the Holy Quran II (1 Credit hour) and Non-Muslim students are required to take Comparative Religion-I and Comparative Religion-II.

MS ENGINEERING MANAGEMENT

The Master of Science program in Engineering Management program provides students with a strong foundation in engineering and management principles integrated with emerging Artificial Intelligence (AI) technologies to address the evolving needs of modern industries. The program equips students with the knowledge and skills required to enhance efficiency, productivity, quality, and strategic decision-making in technology-driven organizations. It emphasizes the effective planning, organization, allocation of resources, and control of engineering activities while leveraging AI-enabled tools and data-driven approaches.

Students can develop specialized expertise through focused streams in AI for Project Management, AI in Supply Chain and Operations Management, and AI for Quality Engineering and Process Optimization, with opportunities to explore advanced topics such as predictive analytics, smart logistics, digital twins, intelligent automation, and machine learning applications in engineering systems. The program spans a minimum duration of two years, comprising at least four semesters, and requires the successful completion of 32 credit hours. Students must maintain a CGPA of 3.0 for the conferment of the degree.

The following Program Objectives are articulated for the MS Engineering Management program:

1. To exemplify excellence in engineering management through in-depth knowledge and skills in the field of engineering management and applied sciences
2. To engage in continuous professional development and exhibit a quest for lifelong learning
3. To demonstrate professional integrity and commitment to social and ethical responsibilities required of them as leaders and entrepreneurs.

Learning Outcomes for the MS Engineering Management program:

After completion of the program, students will have the following:

1. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, engineering, technical, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
2. An ability to plan, organize, allocate resources, and direct and control activities
3. An ability to function on multidisciplinary teams.
4. An ability to identify, formulate, and solve engineering problems.
5. An understanding of professional and ethical responsibility.
6. An ability to communicate effectively.
7. A broad education is necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
8. A recognition of the need for and ability to engage in life-long learning
9. A knowledge of contemporary issues.
10. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Career Path:

- | | |
|-----------------------------------|--------------------------------------|
| 1. Engineering Manager | 2. Quality Engineering Manager |
| 3. AI Project Manager | 4. Process Optimization Specialist |
| 5. Operations Manager | 6. Digital Transformation Consultant |
| 7. Supply Chain Analytics Manager | 8. Technology and Innovation Manager |

Prospective Employers:

- | | |
|---|---|
| 1. Manufacturing and Process Industries | 2. Healthcare and Pharmaceutical Industry |
| 3. Technology and Software Companies | 4. Consulting and Engineering Services Firms |
| 5. Supply Chain and Logistics Organizations | 6. Research and Development Institutions |
| 7. Automotive Industry | 8. Government and Public Sector Organizations |



Eligibility

Sixteen years of education in any engineering \ computing discipline with minimum 55% marks in overall academic career in annual system and CGPA 2.5 in a semester system or equivalent from HEC recognized Institutes/Universities having PEC registration status.

Program Requirements

To fulfill the degree requirements, students must complete eight taught courses along with 6 credit hours of research thesis for MS by Thesis-I and Thesis-II, or 6 credit hours of Independent Research Studies, namely IRS-I and IRS-II, for MS by Independent Research Study, or 6 credit hours through two courses, Elective IV and Elective V, each carrying 3 credit hours, for MS by Coursework. The MS by Coursework option shall be subject to the approval of the departmental committee. For MS Thesis requirement, the students must refer to the MS Policy Manual available at <https://basr.iobm.edu.pk/ms-mphil-and-phd-policy-and-thesis/>

Core Courses

1. AI for Project Management

MEM611 Project Management	3 credit hours
CSP511 Research Methodology	3 credit hours
MEM581 AI and Machine Learning for Engineering Managers	3 credit hours
MEM582 AI for Project Planning & Scheduling	3 credit hours
MEM583 Predictive Analytics for Project Risk and Cost Management	3 credit hours

Elective Courses

MEM588 Generative AI for Project Managers	3 credit hours
MEM589 AI in Agile and Lean Project Management	3 credit hours
MEM681 Digital Twin Applications in Project Management	3 credit hours
MEM682 Big Data Analytics for Projects	3 credit hours
MEM683 AI in Project Controls	3 credit hours
MEM684 AI and Machine Learning in Decision-Making	3 credit hours

2. AI in Supply Chain and Operations Management

MEM611 Project Management	3 credit hours
CSP511 Research Methodology	3 credit hours
MEM581 AI and Machine Learning for Engineering Managers	3 credit hours
MEM584 AI for Demand Forecasting and Inventory Optimization	3 credit hours
MEM585 Smart Logistics and Transportation Systems	3 credit hours

Elective Courses

MEM685 AI-Driven Procurement and Supplier Analytics	3 credit hours
MEM686 Blockchain and AI for Supply Chain Transparency	3 credit hours
MEM687 Resilient and Adaptive Supply Chain Systems	3 credit hours
MEM688 Warehouse Automation and Robotics	3 credit hours
MEM689 Predictive Maintenance in Operations	3 credit hours
MEM571 Intelligent Supply Chain Analytics	3 credit hours

Note: Students must select at least three electives from the above list

3. AI for Quality Engineering and Process Optimization

MEM611 Project Management	3 credit hours
CSP511 Research Methodology	3 credit hours
MEM581 AI and Machine Learning for Engineering Managers	3 credit hours
MEM586 AI for Quality Control and Assurance	3 credit hours
MEM587 Machine Learning for Process Optimization	3 credit hours

Elective Courses

MEM572 Computer Vision for Industrial Inspection	3 credit hours
MEM573 AI-Driven Six Sigma and Lean Systems	3 credit hours
MEM574 Digital Manufacturing and Smart Factories	3 credit hours
MEM575 Process Mining and Intelligent Automation	3 credit hours
MEM576 Predictive Quality Analytics	3 credit hours
MEM577 Statistical Learning for Engineering Systems	3 credit hours
MEM578 AI-Based Root Cause Analysis and Reliability Engineering	3 credit hours

Note: Students must select at least three electives from the above list

MEM691 MS Thesis - I	3 credit hours
MEM692 MS Thesis - II	3 credit hours
MEM693 Independent Research Study - I	3 credit hours
MEM694 Independent Research Study - II	3 credit hours

Note: Students must choose either the MS Thesis, the Independent Research Study, or two elective courses from the Elective Courses List. If a student opts for the MS Thesis, enrollment in MS Thesis–II is mandatory to maintain continuous registration until the thesis is formally submitted to the Board of Advanced Studies and Research (BASR) for further processing.

Course Structure

Semester One

Research Methodology
Project Management
AI and Machine Learning for Engineering Managers
Elective I

Semester Two

Core Course I
Core Course II
Elective II
Elective III

Semester Three

IRS-1/ Elective IV */ MS Thesis-I
Understanding of Holy Quran I **

Semester Four

IRS – II / and Elective V * / MS Thesis-II
Understanding of Holy Quran II **

** Subject to the approval of departmental committee*

*** Muslim students are required to take Understanding of Holy Quran-I (1 Credit hour) and Understanding of the Holy Quran-II (1 Credit hour) and Non-Muslim students are required to take Comparative Religion-I and Comparative Religion-II.*



PhD (COMPUTER SCIENCE)

PhD (MATHEMATICS & SCIENTIFIC COMPUTING)

PhD (STATISTICS & SCIENTIFIC COMPUTING)

PhD programs connect knowledge of mathematics, statistics, and computer science to policy-relevant decision-making in business and government. The programs aim to train researchers to contribute to theory, develop inventive and useful models and methods, and conduct applied scientific investigations. Although individual researchers may vary in their emphases, the field includes all these aspects. The programs emphasize rigorous coursework and high-quality research that should be published in international conferences and HEC-recognized journals. Course and research work are designed according to HEC criteria.

Learning Outcomes:

1. Develop an in-depth understanding of academic theory and prepare high-quality research.
2. Lead and manage research projects.
3. Support and participate in academic, government, and industrial projects.
4. Apply theories and models to solve real-world problems.

Career Path:

- | | | |
|--------------------------------|----------------------------|---------------------------------|
| 1. IT Consultant | 2. Data Scientists | 3. Cyber-security Consultant |
| 4. Information Systems Manager | 5. Machine Learning Expert | 6. Technical Writer |
| 7. Data Modeler | 8. Security Architect | 9. Software Development Manager |
| 10. Educationist | | |

Prospective Employers:

- | | |
|----------------------------|--|
| 1. Cyber Internet Services | 2. Internet Service Providers |
| 3. Real Estate Sector | 4. Banking Sectors |
| 5. Hospital Sector | 6. Communication & Transportation Sector |
| 7. Colleges & Universities | 8. Government & Private Sector |

Eligibility for PhD Computer Science

M.Phil./M.S. in a Computer Science-related field, or an equivalent qualification, from an HEC-recognized institution, meeting the following criteria:

- A minimum CGPA of 3.00 on a scale of 4.00, or at least 60% marks, or an equivalent qualification.
- A minimum of 18 years of education corresponding to an M.S./M.Phil. degree or an equivalent qualification in Computer Science or a closely related discipline from an HEC-recognized institution.
- A valid score of at least 60% in the GRE (Subject), GAT (Subject) conducted by NTS, or an equivalent test in the relevant discipline, as prescribed by HEC.
- Successful completion of an interview conducted by the Department.
- Fulfillment of all other admission requirements stipulated by the Higher Education Commission (HEC) of Pakistan.

Eligibility for PhD Mathematics and Scientific Computing

Applicants seeking admission to the PhD in Mathematics program must possess an M.Phil./M.S. in Mathematics or an equivalent qualification from an HEC-recognized institution and meet the following criteria:

- A minimum CGPA of 3.00 on a scale of 4.00, or at least 60% marks, or an equivalent qualification.
- A minimum of 18 years of education corresponding to an M.S./M.Phil. degree or an equivalent qualification in Mathematics or a closely related discipline from an HEC-recognized institution.
- A valid score of at least 60% in the GRE (Subject), GAT (Subject) conducted by NTS, or an equivalent test in the relevant discipline, as prescribed by HEC.
- Successful completion of an interview conducted by the Department.
- Fulfillment of all other admission requirements stipulated by the Higher Education Commission (HEC) of Pakistan.

Eligibility for PhD Statistics and Scientific Computing

Applicants seeking admission to the PhD in Statistics program must possess an M.Phil./M.S. in Statistics or an equivalent qualification from an HEC-recognized institution and meet the following criteria:

- A minimum CGPA of 3.00 on a scale of 4.00, or at least 60% marks, or an equivalent qualification.
- A minimum of 18 years of education corresponding to an M.S./M.Phil. degree or an equivalent qualification in Statistics or a closely related discipline from an HEC-recognized institution.
- A valid score of at least 60% in the GRE (Subject), GAT (Subject) conducted by NTS, or an equivalent test in the relevant discipline, as prescribed by HEC.
- Successful completion of an interview conducted by the Department.
- Fulfillment of all other admission requirements stipulated by the Higher Education Commission (HEC) of Pakistan.

Program Requirements for ALL PhD Programs

PhD requires completion of coursework and dissertation/thesis. In addition, each PhD scholar shall be required to publish at least one research paper based on the dissertation as a first author along with his/her supervisor/co-supervisor in a Clarivate Analytics Impact Factor Journal listed in Journal Citation Reports (Web of Science Group). The minimum duration is three years and the maximum are eight years. For further requirements, refer to PhD Policy Manual available at <https://basr.iobm.edu.pk/ms-mphil-and-phd-policy-and-thesis/>

A PhD student must additionally complete the following requirements:

- Comprehensive examination.
- PhD proposal/synopsis development.
- PhD proposal/synopsis defense.
- BASR approval of the PhD proposal/synopsis.
- Continuous enrollment in supervised research courses to meet full-time residency requirements.
- Completion of the PhD dissertation/thesis.
- Selection of external evaluators by BASR.
- Publication or official acceptance of at least one paper in an ISI impact factor journal as a first author.
- Evaluation of the PhD dissertation by two foreign faculty members from developed countries, as per HEC criteria.
- Dissertation/thesis finalization.
- Open defense of the PhD dissertation.
- Fulfillment of any other HEC requirement.
- Final dissertation/thesis submission to BASR.

Core Course for ALL PhD Programs

CSP711	Formal Research Methods	3 credit hours
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PhD (Computer Science) - Electives (3 credit hours)

CSP761	Big Data Analytics and Knowledge Discovery
CSP781	Natural Language Processing Information Retrieval
CSP731	Advance Theory of Computation
CSP782	Advances in Machine Learning
CSP783	Computational Intelligence
CSP784	Heuristic Search Theory & Methods
CSP785	Advanced Neural Network
CSP786	Intelligent Web Technologies
CSP741	Parallel and Distributed Systems
CSP787	Computer Vision and Robotics
CSP762	Temporal and Spatial Database Management System
CSP742	Advanced Digital Signal Processing
CSP763	Advanced Decision Support System
CSP732	Advances in Simulation and Modeling
CSP733	Fuzzy Topologies with Human Centric Computing
CSP734	Advanced Algorithm Analysis
CSP735	Seminar on Logic and Scientific Computing
CSP712	Seminar on Emerging Computing Technologies



CSP788 Advances in Artificial Intelligence
 CSP789 Advances in Deep Learning
 CSP764 Distributed Systems
 CSP881 Deep Learning Methods for NLP
 CSP882 Generative AI with LLM
 CSP736 Advanced Cloud Computing
 CSP791 Research Thesis (3 Units)
 CSP792 Research Thesis (6 Units)
 CSP793 Research Thesis (9 Units)

PhD (Mathematics & Scientific Computing) Electives (3 credit hours)

MAT701 Convex and Stochastic Optimization
 MAT702 Mathematical Analysis of Machine Learning Algorithms
 STS802 Advanced Mathematical Statistics
 MAT703 Continuum Mechanics
 MAT704 Advanced Numerical Computing
 MAT804 Advanced Partial Differential Equations
 MAT805 Advanced Topics in Number Theory
 MAT705 Linear Algebra and Lie Algebra
 MAT706 Applied Matrix Theory
 MAT707 Numerical Methods for PDEs
 MAT708 Topics in Inverse Problems
 MAT709 Topics in Numerical Differential Equations
 STS801 Advanced Statistical Computing & Graphics
 STS702 Nonlinear and Integer Programming
 MAT710 Stochastic Differential Equations (SDEs)
 MAT801 Advanced Fluid Dynamics
 MAT802 Advanced Modeling and Simulation
 MAT711 Mathematical Economics
 MAT712 Quantum Finance
 MAT713 Mathematics of Fuzzy Sets and Fuzzy Logic
 MAT714 Topological Data Analysis
 MAT803 Advanced Dynamical Systems
 MAT715 Calculus of Variations
 MAT716 Optimization Methods
 MAT921 Research Thesis (3 Units)
 MAT922 Research Thesis (6 Units)
 MAT923 Research Thesis (9 Units)

PhD (Statistics & Scientific Computing) Electives (3 credit hours)

MSS701 Advanced Statistical Computing and Graphics
 MSS703 Regression Modeling and Computing
 MSS705 Advanced Mathematical Statistics
 MSS707 Advanced Bayesian Inference and Stochastic Modeling
 MSS713 Nonlinear and Integer Programming
 MSS715 Advanced Design and Analysis of Experiments
 MSS717 Advances in Time Series Analysis
 MSS719 Advances in Bioinformatics & Biostatistics
 MSS721 Statistical Quality Control
 MSS723 Stochastic Modeling
 MSS725 Special Topics in Statistics
 MSS726 Advanced Operations Research
 MSS921 Research Thesis (3 Units)
 MSS922 Research Thesis (6 Units)
 MSS923 Research Thesis (9 Units)

Course Structure of ALL PhD Courses:

Semester 1

Formal Research Methods	3 credit hours
Elective I	3 credit hours
Elective II	3 credit hours
Understanding of Holy Quran I **	1 credit hour
Total	9/10**

Semester 2

Elective III	3 credit hours
Elective IV	3 credit hours
Elective V	3 credit hours
Understanding of Holy Quran II **	1 credit hour
Total	9/10**

Semester 3

Thesis	6 credit hours
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Semester 4

Thesis	6 credit hours
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Semester 5

Thesis	9 credit hours
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Semester 6

Thesis	9 credit hours
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Five elective courses shall be selected from each respective PhD program





COLLEGE OF ECONOMICS AND SOCIAL DEVELOPMENT

The College of Economics and Social Development (CESD) is a social science and liberal arts college with postgraduate and undergraduate programs in areas such as Economics, Business Psychology, Education, Media studies, and Policy & Area Studies.

Vision

To be the leading Social Science and Economics institution engaged in creation of knowledge through research and its dissemination through teaching.

Mission

To meet the multifarious challenges afflicting the society, economy and the people with a view towards bringing peace, prosperity and healthy lifestyles in Pakistan and the developing world.

BS (HONORS) MEDIA STUDIES

BS (Honors) Media Studies is a hands-on multidisciplinary program, designed to provide students with a strong grounding in, and a broad academic base for, pursuing a professional career - institutional or entrepreneurial - in the wider field of media and film arts. Although the program has been progressively strengthened since its inception in Fall-2010, by refining the curriculum and pedagogy backed by investments in infrastructure upgrades, major curricular changes incorporated over the last couple of years, now allow students to delve deeper into the realm of new media and arts, and acquire the skillsets necessary for success in the emerging world of media and visual communication.

Students have the option to major in either one of two streams i.e. Journalism and Filmmaking offered in the program. However, they share common foundation courses in the first four semesters, before branching out towards their chosen major to concentrate on their mandatory core courses and electives. A total of 144 credit hours of coursework needs to be undertaken for completing the degree requirement under both majors, along with a compulsory 6-week internship to be completed after the sixth semester.

The program owes its success to the support it has received over the years from media experts, practitioners, and specialists from the field of journalism and filmmaking who still contribute toward the department's work, as well as from media organizations, digital marketing agencies, and production studios among others.

General Education Courses

BCN101	Academic English	3 credit hours
MAT102	Business Math	3 credit hours
REL101	Islamic Studies or SSC105 Ethics (for non-Muslims)	2 credit hours
SSC101	Introduction to Psychology	3 credit hours
PSC101	Pakistan Studies	3 credit hours
PSC201	Ideology and Constitution of Pakistan	3 credit hours
CSC210	Application of Information Communications Technologies	3 credit hours
LAN112	Urdu I	3 credit hours
EEM101	Environmental Studies	3 credit hours
ETP101	Entrepreneurship	3 credit hours
SSC303	Service Learning and Civic Responsibility	2 credit hours
MMM385	Writing for Digital Media	3 credit hours
BDS101	Data Visualization	3 credit hours

Interdisciplinary Courses

MMD303	Design Thinking	3 credit hours
COM112	Appreciation of Vernacular Literature	3 credit hours
COM202	Business and Professional Speech	3 credit hours
MMM102	Introduction to Creative Arts	3 credit hours



Core Courses

MMM104 Introduction to Photography	3 credit hours
MMM107 Introduction to Video Production	3 credit hours
MMM101 Introduction to Design Tools	3 credit hours
MMM106 Introduction to Journalism	3 credit hours
MMM103 Media History	3 credit hours
MMM206 Cinematography	3 credit hours
MMM202 Edit and Post Production	3 credit hours
MMM204 Audio Production	3 credit hours
MMM201 Introduction to Performing Arts	3 credit hours
MMM203 Screenwriting I	3 credit hours
MMD307 Production Design	3 credit hours
MMM208 Introduction to 3D Animation	3 credit hours
MMM207 Podcast and Audio Journalism	3 credit hours
MMD306 Screenwriting II	3 credit hours
MMD312 Direction	3 credit hours
MMD309 Production Management	3 credit hours
N/A Media and Interpretation	3 credit hours
MMD301 Studio Production	3 credit hours
MMM355 Production of Documentary	3 credit hours
MMDXX Digital Marketing Basics	3 credit hours
MMD402 Media Studies Thesis I	6 credit hours
MMD403 Media Studies Thesis II	6 credit hours

Electives (6 Courses)

MMD310 Content Creation	XXXXXX AI Tools for Media Production
Influencer Marketing	XXXXXX Meme: The Art of Micro Storytelling
MMD317 Sports Journalism	MMM209 Advance Sound Design
Investigative Storytelling and Verification	XXXXXX Topics in Media Studies
Public Relations and Corporate Communications	MMD311 Discovering Films
Branded Content & Creative Campaigns	XXXXXX Acting for Screen
PSY331 Media Psychology and Audience Behavior	MMM402 Introduction to Unreal Engine
UI/UX	XXXXXX Media politics and Public opinion
MMD308 Creative Portfolio Management (Mandatory Elective)	

Summer Courses

REL102 Understanding of Holy Quran I	1 credit hour
REL103 Understanding of Holy Quran II	1 credit hour
INT312 Internship	3 credit hours

Semester-wise Course Structure

Semester I

Course Code	Course Name	Credit Hours
BCN101	Academic English	3
MAT102	Business Math	3
REL101	Islamic Studies	2
SSC101	Introduction to Psychology	3
PSC101	Pakistan Studies	2
MMM104	Introduction to Photography	3

Semester II

Course Code	Course Name	Credit Hours
PSC201	Ideology and Constitution of Pakistan	2
CSC210	Application of Information Communications Technologies	3
LAN112	Urdu I	3
MMM103	Media History	3
MMM107	Introduction to Video Production	3
MMM101	Introduction to Design Tools	3

Semester III

Course Code	Course Name	Credit Hours
EEM101	Environmental Studies	3
MMM106	Introduction to Journalism	3
MMM203	Screenwriting I	3
MMM102	Introduction to Creative Arts	3
MMD303	Design Thinking	3
MMM206	Cinematography	3

Semester IV

Course Code	Course Name	Credit Hours
ETP101	Entrepreneurship	3
MMM202	Edit and Post Production I	3
MMM385	Writing for Digital Media	3
SSC303	Service Learning and Civic Responsibility	2
COM202	Business and Professional Speech	3
BDS101	Data Visualization	3

Semester V

Course Code	Course Name	Credit Hours
MMM201	Introduction to Performing Arts	3
MMD306	Screenwriting II	3
MMD309	Production Management	3
MMM208	Introduction to 3D Animation	3
MMM204	Audio Production	3
MMDXXX	Digital Marketing Basics	3



Semester VI

Course Code	Course Name	Credit Hours
MMM355	Production of Documentary	3
MMD312	Direction	3
MMD307	Production Design	3
N/A	Media and Interpretation	3
MMM207	Podcast and Audio Journalism	3
MMD301	Studio Production	3

Semester VII

Course Code	Course Name	Credit Hours
COM112	Appreciation of Vernacular Literature	3
	Elective I	3
	Elective II	3
	Elective III	3
MMD402	Media Studies Thesis I	6

Semester VIII

Course Code	Course Name	Credit Hours
	Elective IV	3
	Elective V	3
	Elective VI	3
MMD308	Elective VII	3
MMD403	Media Studies Thesis II	6

BS ECONOMICS

This program is designed to provide students with a solid foundation in economic theory, quantitative techniques, and applied analysis. In a rapidly changing global and national environment, the program develops graduates who can understand and evaluate how markets function, how policies shape economic outcomes, and how organizations and countries respond to challenges such as growth, trade, finance, development, and sustainability. Students will study core areas of microeconomics, macroeconomics, mathematics, and econometrics, while also exploring applied fields such as development economics, monetary and fiscal policy, international trade, and environmental economics. To broaden their academic and professional horizons, students have the opportunity to pursue minors in two areas: Data Science, Finance, International Relations, Media, and Psychology. The program also emphasizes practical exposure through a compulsory internship (3 credit hours) at an IoBM-approved firm, allowing students to connect theory with real-world applications. With 144 credit hours of comprehensive coursework spread over four years, the BS Economics program prepares graduates to excel in banking, finance, government, research, civil service, industry, and international organizations. Consistent with IoBM's tradition of building Pakistan's human capital, this program equips students with the knowledge, skills, and versatility to meet the pressing needs of the economy and to contribute meaningfully at both national and global levels.

Join IoBM's BS in Economics program and become part of a new generation of economists and business leaders who will shape the future of Pakistan's economy.

Learning Outcomes:

- Students should not only be well familiar with economic theories and laws but also with applied economics.
- They should be able to enhance their contribution towards the growth of the whole country/economy.
- Students should be able to apply quantitative techniques and modeling to analyze key economic indicators for the performance of an organization.
- Students should be well equipped with mathematical/statistical/economic tools to demonstrate strong analytical and problem-solving skills.
- They should be well versed with EViews, R, STATA, and SPSS software.
- Students should be able to produce a research paper or article independently in any journal of international repute.
- They should develop a thirst for research-based studies like going for an M.Phil. or Ph.D.
- They can further set an example by achieving success in their lives for their juniors to go for research-based studies
- Students should be able to focus on the humanistic aspect of Economics w.r.t social sciences and its impact on society.
- Students should be prepared for future careers in our interconnected society, whether in mass media or advanced study
- Students should be able to analyze financial data, reports, and federal budgets critically.
- Students will be capable of analyzing fiscal, monetary, and trade policy to provide problem-solving solutions.
- Students should be able to get admission to institutes of international repute.
- They should get international or national scholarships.
- Understanding of the institutions, processes, constitutional background, and policy outcomes of the Pakistani government and the ability to compare the Pakistani government to other countries around the world
- Knowledge of key theories and concepts, historical developments, organizations, and modern issues in international relations.

Career Path:

- | | |
|---|--|
| • Policy analyst/Research Economist | • Banking Sector/Financial Analyst |
| • Business Journalist/Content Developer | • Portfolio Manager/ Quantitative Risk Analyst |
| • Domestic and International Financial institutions | • Public Sector/Civil Service |
| • Development Sector | |



General Courses

REL101	Islamic Studies	(2 credit hours)
BCN101	Academic English	(3 credit hours)
MAT110	Calculus and Analytical Geometry	(3 credit hours)
CSC210	Applications of Info. & Communication Technologies	(3 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
STA203	Probability Theory & Statistics	(3 credit hours)
BCN201	Persuasive & Analytical Writing for Business Comm	(3 credit hours)
PSY300	Introduction to Psychology	(3 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
REL102	Understanding of Holy Quran I**	(1 credit hour)
REL103	Understanding of Holy Quran II**	(1 credit hour)

Interdisciplinary Courses

LAN30*	Foreign Language	(3 credit hours)
MAT211	Multivariable Calculus	(3 credit hours)
STS201	Models and Inferences	(3 credit hours)
ECN302	Research Methodology in Economics	(3 credit hours)

Economics (Core Courses)

ECN101	Principles of Microeconomics	(3 credit hours)
ECN102	Principles of Macroeconomics	(3 credit hours)
ECN201	Microeconomics Analysis	(3 credit hours)
ECN202	Macroeconomics Analysis	(3 credit hours)
ECN203	Mathematical Economics	(3 credit hours)
ECN204	Development Economics	(3 credit hours)
ECN205	Managerial Economics	(3 credit hours)
ECN206	History of Economic Thought	(3 credit hours)
ECN301	Econometrics-I	(3 credit hours)
ECN303	Game Theory	(3 credit hours)
ECN304	International Trade	(3 credit hours)
ECN305	Financial Economics	(3 credit hours)
ECN306	General Equilibrium and Welfare Economics	(3 credit hours)
ECN401	Econometrics-II	(3 credit hours)
ECN402	Contemporary Issues in Macroeconomics	(3 credit hours)
ECN404	Pakistan Economic Policy	(3 credit hours)
ECN405	Monetary Theory & Policy	(3 credit hours)
ECN406	Analysis of Pakistan Industry	(3 credit hours)
ECN407	Programming for Economics	(3 credit hours)

Non-specialization Courses

Data Science

DSP161	Introduction to Data Science
DSP261	Data Visualization for Economists
DSP262	Data Analytics for Economists
DSP361	Machine Learning for Economists

Finance

FNS201	Introduction to Business Finance
FNS202	Financial Management
FNS203	Financial Institutions and Markets
FNS301	Corporate Finance

International Relations

- BIR301 Introduction to IR
- BIR401 Political Geography
- BIR303 World Politics
- BIR402 Globalization

Media

- JOR101 Introduction to Journalism
- JOR302 Digital Journalism
- HIS101 Media History
- DER302 Writing for Digital Media

Psychology

- PSY305 Contemporary Social Psychology
- PSY308 Psychological Aspects of Advertising
- PSY311 Consumer Psychology
- PSY440 Cyber Psychology, Behaviour and Social Networking

Economics (Electives)

- ECN450 Islamic Economics
- ECN451 Growth Theories
- ECN452 Resources & Environmental Economics
- ECN453 Agriculture and Food Security
- ECN454 Public Finance
- ECN455 Economics of Logistics
- ECN456 Issues in Political Economy
- ECN457 Labor Economics
- ECN458 Behavioral Economics

Selection of Foreign Language

*1 = Arabic *2 = French *4 = German *6 = Italian *8 = Chinese

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

*Note for Non-Muslim Students ***

***Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.*

*BCN010 Intensive English (Pre-Sessional Course) ****

**** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week before the start of the Semester.*



Course Structure

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
BCN101	Academic English	3+0	-
PSY300	Introduction to Psychology	3+0	-
MAT110	Calculus and Analytical Geometry	3+0	-
REL101	Islamic Studies (02 Credit Hours)	2+0	-
STS101	Probability Theory and Statistics	3+0	-
ECN101	Principles of Microeconomics	3+0	-
	Total	17	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
STS201	Model & Inferences	3+0	STS101
EEM101	Environmental Studies	3+0	
PSC101	Pakistan Studies	3+0	
BCN201	Persuasive & Analytical Writing for Business Communication	3+0	BCN101
ECN102	Principles of Macroeconomics	3+0	ECN101
ETP101	Entrepreneurship	3+0	
	Total	18	

Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
ECN201	Microeconomic Analysis	3+0	ECN101
ECN202	Macroeconomic Analysis	3+0	ECN102
ECN203	Mathematical Economics	3+0	MAT110
PSC201	Ideology and Constitution of Pakistan	2+0	
MAT211	Multivariable Calculus	3+0	MAT110
LAN30*	Foreign Language	3+0	
	Total	17	

Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
CSC210	Applications of Information Communications Technologies	3+0	
ECN204	Development Economics	3+0	ECN202
ECN205	Managerial Economics	3+0	ECN201
ECN206	History of Economic Thought	3+0	ECN202
	Non-Specialization Course A1	3+0	
	Non-Specialization Course B1	3+0	
	Total	18	

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
ECN301	Econometrics-I	3+0	STS201
ECN302	Research Methodology in Economics	3+0	ECN202
ECN303	Game Theory	3+0	ECN203
ECN304	International Trade	3+0	ECN204
	Non-Specialization Course A2	3+0	
	Non-Specialization Course B2	3+0	
	Total	18	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
ECN305	Financial Economics	3+0	ECN205
SSC303	Service-Learning and Civic Responsibility	2+0	
ECN306	General Equilibrium and Welfare Economics	3+0	ECN201
ECN401	Econometrics-II	3+0	ECN301
	Non-Specialization Course A3	3+0	
	Non-Specialization Course B3	3+0	
	Total	17	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
ECN402	Contemporary Issues in Macroeconomics	3+0	ECN202
ECN404	Pakistan Economic Policy	3+0	ECN204
ECN407	Programming for Economics	3+0	ECN401
	Non-Specialization Course A4	3+0	
	Economics Elective I	3+0	ECN301
	Economics Elective II	3+0	ECN301
	Total	18	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
ECN405	Monetary Theory & Policy	3+0	ECN305
ECN406	Analysis of Pakistan Industry	3+0	ECN404
	Non-Specialization Course B4	3+0	
	Economics Elective III	3+0	ECN301
	Economics Elective IV	3+0	ECN301
	Capstone Project	3+0	
	Internship	3+0	
	Total	21	



BS BUSINESS PSYCHOLOGY

The BS Business Psychology program provides students with a strong foundation in the social sciences while integrating psychological principles with applied aspects of business. It aims to produce graduates who can apply the science of human behavior to organizational and business challenges by analyzing workplace issues, applying psychological theories, and using research-based approaches to develop effective solutions. With its focus on critical thinking, research skills, and evidence-based decision-making, the program prepares students for diverse professional roles at the intersection of psychology and business. This four-year program requires completion of 144 credit hours of coursework including a mandatory six-week internship (03 credit hours) at an Institute-approved firm and an industry- savvy Capstone Project (03 credit hours). Students can take minimum load of 12 credit hours (4 courses per semester) or maximum load of 18 credit hours (6 courses per semester).

Entry Requirement: HSSC /F.Sc /FA /A level

General Education Courses

PSY300	Introduction to Psychology	(3 credit hours)
MAT102	Business Mathematics & Statistics	(3 credit hours)
BCN101	Academic English	(3 credit hours)
PSY315	Statistics in Psychology	(3 credit hours)
BCN401	Persuasive & Analytical Writing	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
REL101	Islamic Studies	(2 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
CSC210	Applications of Information Communications Technologies	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
LAN30*	Foreign Language	(3 credit hours)

*1 Arabic *2 French *4 German *6 Italian *8 Chinese

MAT001 Basic Mathematics***

COM010 Intensive English***

Interdisciplinary Courses

ECN101	Principles of Microeconomics	(3 credit hours)
ECN102	Principles of Macroeconomics	(3 credit hours)
BCN202	Business & Professional Speech	(3 credit hours)
DSP163	Fundamentals of Data Analytics	(3 credit hours)
REL301	**Understanding of Holy Quran I	(1 credit hour)
REL302	**Understanding of Holy Quran II	(1 credit hour)

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

***Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.*

**** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week before the start of the Semester.*

Psychology Core Courses

PSY325	Research Methods in Psychology
PSY327	Writing Psychological Research
PSY303	Introduction to Psychological Testing
PSY304	Experimental Psychology
PSY305	Contemporary Social Psychology
PSY309	Developmental Psychology
PSY310	Positive Psychology
PSY335	Psychology of Buying Behavior
PSY312	Psychology Capstone Project
PSY328	Environmental Psychology
PSY317	Personality psychology
PSY320	Health Psychology
PSY322	Cross-cultural Psychology
PSY324	Fundamentals of Psychological Counselling
PSY333	Work & Organizational Psychology
PSY329	Psychological Crisis Management
PSY330	Sports Psychology

Elective Courses

Elective Courses (6 Courses)

PSY306	Understanding Individual: Personal Construct
PSY443	Psychology of Change & Adaptation
PSY444	Psychology of Persuasion & Influence
PSY440	Cyber Psychology, Behavior and Social Networking
PSY441	Work Place Health & Well-being
PSY442	Projective Methods

Applied Psychology Core Courses

PSY405	Group Dynamics
PSY409	Psychological Foundation of Leadership
PSY410	Negotiation & Conflict Psychology
PSY334	Psychology of Diversity and Gender
PSY412	Psychology of Human Resource Development
PSY414	Applied Behavior Change in Organization

Elective Courses (2 Courses)

PSY436	Current Trends in Applied Psychology
PSY437	Mental Health and Safety in Organizations
PSY438	Work Motivation & Attitude in Applied Settings
PSY439	Quality of Work Life & Well-being

Course Structure

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
BCN101	Academic English	3+0	-
MAT102	Business Mathematics & Statistics	3+0	-
REL101	Islamic Studies	2+0	-
ECN101	Principles of Microeconomics	3+0	-
PSY300	Introduction to Psychology	3+0	-
PSC101	Pakistan Studies	3+0	-
Semester Total Credit Hours		17	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
PSC201	Ideology and Constitution of Pakistan	2+0	PSC101
PSY315	Statistics in Psychology	3+0	PSY300
ECN102	Principles of Macroeconomics	3+0	ECN101
PSY325	Research Methods in Psychology	3+0	PSY300
EEM101	Environmental Studies	3+0	
ETP101	Entrepreneurship	3+0	
Semester Total Credit Hours		17	



Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
BCN401	Persuasive & Analytical Writing	3+0	BCN101
PSY305	Contemporary Social Psychology	3+0	PSY300
PSY333	Work & Organizational Psychology	3+0	PSY300
PSY328	Environmental Psychology	3+0	PSY301
LAN30**	Foreign Language	3+0	
PSY309	Developmental Psychology	3+0	PSY300
	Semester Total Credit Hours	18	

Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
BCN202	Business and Professional Speech	3+0	BCN401
SSC303	Service-Learning and Civic Responsibility	2+0	
CSC110	Applications of Information Communications Technologies	3+0	
PSY303	Introduction to Psychological Testing	3+0	PSY325
PSY317	Personality Psychology	3+0	PSY300
PSY327	Writing Psychological Research	3+0	PSY325- PSY315
	Semester Total Credit Hours	17	

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
DSP163	Fundamentals of Data Analytics	3+0	
PSY335	Psychology of Buying behavior	3+0	PSY300
PSY322	Cross-cultural Psychology	3+0	PSY300
PSY320	Health Psychology	3+0	PSY300
PSY304	Experimental Psychology	3+0	PSY303
PSY414	Applied Behavior Change in Organization	3+0	PSY317
	Semester Total Credit Hours	18	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
PSY310	Positive Psychology	3+0	
PSY324	Fundamentals of Psychological Counselling	3+0	
PSY329	Psychological Crisis Management	3+0	
PSY405	Group Dynamics	3+0	
PSY410	Negotiation & Conflict Psychology	3+0	
PSY412	Psychology of Human Resource Development	3+0	
	Semester Total Credit Hours	18	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
PSY333	Psychological Foundation of Leadership	3+0	PSY407
PSY334	Psychology of Diversity and Gender	3+0	
PSY***	Elective I (Psychology)	3+0	
PSY***	Elective II (Psychology)	3+0	
PSY***	Elective III (Business)	3+0	
PSY***	Elective IV (Psychology)	3+0	
Semester Total Credit Hours		18	

Summers

Course Code	Course Name	Credit Hours	Pre-requisite
PSY333	Internship	3+0	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
PSY330	Sports Psychology	3+0	
PSY***	Elective V (Business)	3+0	
PSY***	Elective VI (Psychology)	3+0	
PSY***	Elective VII (Psychology)	3+0	
PSY***	Elective VIII (Psychology)	3+0	
PSY312	Psychology Capstone Project	3+0	
Semester Total Credit Hours		18	

BS PSYCHOLOGY

The program offers an opportunity to learn about the subject, conventionally, and to see how the notions /theories /models work in the social ecology. Courses like; Psychological crises management; Forensic psychology; Psychology of diversity; Human promotion in corporate settings; Cyber psychology, behavior, and social networking; Work motivation and attitude; Projective methods; Health psychology; Consumer psychology – are phenomenal in imparting knowledge [along with conventional courses] and developing understanding to incorporate the learned ideas in the living situations.

This four-year program requires completion of 144 credit hours of coursework including a mandatory six-week internship (03 credit hours) at an Institute-approved firm and Capstone Project (03 credit hours). Students can take minimum load of 12 credit hours (4 courses per semester) or maximum load of 18 credit hours (6 courses per semester)

Entry Requirement: HSSC /FSc /FA /A level

General Education Courses

PSY300	Introduction to Psychology	(3 credit hours)
MAT102	Business Mathematics and Statistics	(3 credit hours)
BCN101	Academic English	(3 credit hours)
PSY315	Statistics in Psychology	(3 credit hours)
BCN401	Persuasive & Analytical Writing	(3 credit hours)
EEM101	Environmental Studies	(3 credit hours)
REL101	Islamic Studies	(2 credit hours)
PSC201	Ideology and Constitution of Pakistan	(2 credit hours)
SSC303	Service-Learning and Civic Responsibility	(2 credit hours)
ETP101	Entrepreneurship	(3 credit hours)
CSC210	Applications of Information Communications Technologies	(3 credit hours)
PSC101	Pakistan Studies	(3 credit hours)
LAN30*	Foreign Language	(3 credit hours)

*1 Arabic *2 French *4 German *6 Italian *8 Chinese

MAT001 Basic Mathematics***

COM010 Intensive English***

Interdisciplinary Courses

ECN101	Principles of Microeconomics	(3 credit hours)
ECN102	Principles of Macroeconomics	(3 credit hours)
BCN202	Business & Professional Speech	(3 credit hours)
DSP163	Fundamentals of Data Analytics	(3 credit hours)
**	Understanding of Holy Quran, I	(1 credit hour)
**	Understanding of Holy Quran II	(1 credit hour)

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

****Note for Non-Muslim Students: Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.*

**** A nine-hour non-credit 'Pre-sessional Intensive English module' is mandatory for freshmen who scored below 50% in the English portion of the IOBM admission test. This nine-hour pre-sessional course is conducted one week before the start of the Semester.*

Core Courses

PSY320	Health Psychology	PSY303	Introduction to Psychological Testing
PSY321	Psychology of Education	PSY304	Experimental Psychology
PSY322	Cross-cultural Psychology	PSY305	Contemporary Social Psychology
PSY323	Ethics in Psychology	PSY309	Developmental Psychology
PSY324	Fundamentals of Psychological Counselling	PSY310	Positive Psychology
PSY325	Research Methods in Psychology	PSY335	Psychology of Buying Behavior
PSY333	Work and Organizational Psychology	PSY313	History of Psychology
PSY327	Writing Psychological Research	PSY314	Psychopathology
PSY328	Environmental Psychology	PSY329	Psychological Crisis Management
PSY316	Physiological Psychology	PSY317	Personality Psychology
PSY312	Psychology Capstone Project	PSY318	Cognitive Psychology
PSY330	Sports Psychology	PSY319	Clinical Psychology

Elective Courses [opt for any 6]

PSY438	Work Motivation and Attitude in Applied Setting	PSY442	Projective Methods
PSY440	Cyber Psychology, Behavior and Social Networking	PSY441	Work Place Health and Well-being
PSY334	Psychology of Diversity and Gender	PSY417	Forensic Psychology
PSY308	Psychology of Persuasion and Influence	PSY416	School Psychology
PSY436	Current Trends in Applied Psychology		

Course Structure

Semester I

Course Code	Course Name	Credit Hours	Pre-requisite
BCN101	Academic English	3+0	-
MAT102	Business Mathematics and Statistics	3+0	-
REL101	Islamic Studies	2+0	-
ECN101	Principles of Microeconomics	3+0	-
PSY300	Introduction to Psychology	3+0	-
PSC101	Pakistan Studies	3+0	-
	Semester Total Credit Hours	17	

Semester II

Course Code	Course Name	Credit Hours	Pre-requisite
PSC201	Ideology and Constitution of Pakistan	2+0	PSC101
PSY315	Statistics in Psychology	3+0	PSY300
ECN102	Principles of Macroeconomics	3+0	ECN101
PSY325	Research Methods in Psychology	3+0	PSY300
PSY313	History of Psychology	3+0	
PSY316	Physiological Psychology	3+0	
	Semester Total Credit Hours	17	



Semester III

Course Code	Course Name	Credit Hours	Pre-requisite
BCN401	Persuasive & Analytical Writing	3+0	BCN101
PSY305	Contemporary Social Psychology	3+0	PSY325
EEM101	Environmental Studies	3+0	
ETP101	Entrepreneurship	3+0	
PSY327	Writing Psychological Research	3+0	PSY325
PSY323	Ethics in Psychology	3+0	
	Semester Total Credit Hours	18	

Semester IV

Course Code	Course Name	Credit Hours	Pre-requisite
BCN202	Business and Professional Speech	3+0	BCN401
SSC303	Service-Learning and Civic Responsibility	2+0	
CSC210	Applications of Information Communications Technologies	3+0	
PSY303	Introduction to Psychological Testing	3+0	PSY325
PSY310	Positive Psychology	3+0	
PSY309	Developmental Psychology	3+0	
	Semester Total Credit Hours	17	

Semester V

Course Code	Course Name	Credit Hours	Pre-requisite
DSP163	Fundamentals of Data Analytics	3+0	
PSY304	Experimental Psychology	3+0	PSY303
PSY318	Cognitive Psychology	3+0	
PSY333	Work and Organizational Psychology	3+0	
LAN**	Foreign Language	3+0	
PSY317	Personality Psychology	3+0	
	Semester Total Credit Hours	18	

Semester VI

Course Code	Course Name	Credit Hours	Pre-requisite
PSY319	Clinical Psychology	3+0	
PSY324	Fundamentals of Psychological Counselling	3+0	
PSY322	Cross-cultural Psychology	3+0	
PSY335	Psychology of Buying Behavior	3+0	
PSY328	Environmental Psychology	3+0	
PSY321	Psychology of Education	3+0	
	Semester Total Credit Hours	18	

Semester VII

Course Code	Course Name	Credit Hours	Pre-requisite
PSY***	Elective I	3+0	
PSY314	Psychopathology	3+0	
PSY320	Health Psychology	3+0	
PSY329	Psychological Crisis Management	3+0	
PSY334	Psychology of Diversity and Gender	3+0	
PSY***	Elective II	3+0	
	Semester Total Credit Hours	18	

Summers

Course Code	Course Name	Credit Hours	Pre-requisite
PSY333	Internship	3+0	

Semester VIII

Course Code	Course Name	Credit Hours	Pre-requisite
PSY330	Sports Psychology	3+0	
PSY***	Elective III	3+0	
PSY***	Elective IV	3+0	
PSY***	Elective V	3+0	
PSY***	Elective VI	3+0	
PSY312	Psychology Capstone Project	3+0	
	Semester Total Credit Hours	18	



B.Ed. 2.5 Year

The B.Ed. (2.5 Years) programme is offered to pre-service and in-service teachers, educational entrepreneurs, and current or prospective administrators of schools and other educational organisations. It provides a strong foundation in education and connects learning theory, pedagogy, assessment, educational management, and school-based practice. The programme also provides a pathway to higher studies in Education.

Duration:	2.5 years / 5 semesters
Total Credit Hours:	90
Mode:	Weekend
Entry Qualification:	A minimum of 14 years of education in a discipline other than Education
Additional Requirement:	Understanding of Holy Quran I and II: 1 credit hour each, Pass/Fail

Areas of Specialization

- Artificial Intelligence in Education
- Teacher Professional Development
- STEM Education

Eligibility Criteria

- A minimum of 14 years of education in a discipline other than Education.
- Fulfilment of institutional merit and admission criteria.
- Successful completion of the entry or admission test, where applicable.
- The University may define merit and selection procedures as approved by its statutory bodies.

Courses by Category

Professional Courses (12 courses)

Course Code	Course Name	Credit Hours
BED306	Educational Psychology	3
BED304	Philosophy of Education and its Psychological Roots	3
BED301	Curriculum Development	3
BED333	Evaluation and Assessment	3
BED446	Education for Sustainable Development	3
BED375	Contemporary Trends, Innovations and Issues in Education	3
BED656	Teacher Education	3
BED331	Educational Policy and Economics	3
BED357	Critical Thinking and Reading	3
BED405	Inclusive Education	3
BED352	Strategic Management of Schools	3
BED363	Research Methods in Education	3

Pedagogy Courses (6 courses)

Course Code	Course Name	Credit Hours
BED431	Teaching of Social Studies	3
BED432	Teaching of English	3
BED433	Teaching of Science	3
BED434	Teaching of Mathematics	3
BED435	Teaching of ECCE, Arts and Craft	3
BED436	Teaching of ICT	3

Specialization Courses (6 courses)*

Artificial Intelligence in Education	Teacher Professional Development	STEM Education
BED412: Introduction to AI and Education Technologies	BED420: Teacher Education Theories and Models	BED430: Introduction to STEM Education
BED450: Artificial Intelligence in Schools	BED422: Teacher Education in Pakistan: Emerging Trends	BED440: Integrating STEM Education Methods
BED414: Artificial Intelligence for Teachers in Schools	BED424: Teacher Education in Global perspective	BED441: Instructional Scaffolding in STEM Education
BED416: AI-Supported Technologies for Modern Education	BED425: Teacher Education: Problems and Prospects	BED442: STEM Curriculum Design and Instructional Materials
BED449: Artificial Intelligence: Ethics in Education	BED427: Transforming Teacher Learning with Technology	BED443: Learning in STEM
BED418: Future Trends and Innovations in AI for Education	BED428: Teacher Professional Development	BED445: Innovative STEM Education

Teaching Practice (2 courses)

Course Code	Course Name	Credit Hours
BED490	Teaching Practicum-1	3
BED493	Teaching Practicum-2	3

Internship and Research Project

Course Code	Course Name	Credit Hours
INT312	Internship	3
BED492	Research Project (3 credit hours)	3

Course Structure

Semester I

Course Code	Course Name	Credit Hours
BED306	Educational Psychology	3
BED304	Philosophy of Education and its Psychological Roots	3
BED301	Curriculum Development	3
BED446	Education for Sustainable Development	3
BED656	Teacher Education	3
BED432	Teaching of English	3



Semester II

Course Code	Course Name	Credit Hours
BED333	Evaluation and Assessment	3
BED357	Critical Thinking and Reading	3
BED405	Inclusive Education	3
BED434	Teaching of Mathematics	3
BED433	Teaching of Science	3
BED347	STREAM Education	3

Semester III

Course Code	Course Name	Credit Hours
BED375	Contemporary Trends, Innovations and Issues in Education	3
BED351	Edupreneurship	3
BED331	Educational Policy and Economics	3
BED431	Teaching of Social Studies	3
BED436	Teaching of ICT	3
BED401	Area of Specialization 1	3

Semester IV

Course Code	Course Name	Credit Hours
BED352	Strategic Management of Schools	3
BED363	Research Methods in Education	3
BED435	Teaching of ECCE, Arts and Craft	3
BED411	Area of Specialization 2	3
BED423	Area of Specialization 3	3
BED490	Teaching Practicum-1	3

Semester V

Course Code	Course Name	Credit Hours
BED444	Area of Specialization 4	3
BED455	Area of Specialization 5	3
BED466	Area of Specialization 6	3
BED493	Teaching Practicum-2	3
INT312	Internship	3
BED492	Research Project (3 credit hours)	3

**The student will choose one stream as their area of specialisation.*

***Non Muslim students will be required to take 'Comparative Religion I' and 'Comparative Religion II' in place of 'Understanding of Holy Quran I' and 'Understanding of Holy Quran II'*

B.Ed. 1.5 Year

The B.Ed. (1.5 Years) programme is designed for graduates with sixteen years of education who wish to enter or progress within the teaching profession. It develops knowledge and skills in learning, curriculum, assessment, inclusive education, educational leadership, technology, pedagogy, teaching practice, and research.

Duration:	1.5 years / 3 semesters
Total Credit Hours:	54
Mode:	Weekend
Entry Qualification:	Sixteen years of education in a recognised discipline
Additional Requirement:	Understanding of Holy Quran I and II: 1 credit hour each, Pass/Fail

Areas of Specialisation

- Teaching of Science
- Teaching of Social Studies
- Teaching of Biology
- Teaching of Mathematics
- Teaching of Physics
- Teaching of English
- Teaching of Chemistry

Eligibility Criteria

- Sixteen years of education (BS Hons, MA, MSc, MCom or equivalent) in Sciences, Social Sciences, Humanities, or another discipline.
- At least 45% marks or a 2.00 CGPA from an HEC-recognised university.
- Successful completion of the aptitude test and interview conducted by IoBM.

Courses by Category

Professional Courses (10 courses)

Course Code	Course Name	Credit Hours
BED306	Educational Psychology	3
BED304	Philosophy of Education and its Psychological Roots	3
BED301	Curriculum Development	3
BED333	Evaluation and Assessment	3
BED446	Education for Sustainable Development	3
BED453	Teacher Education	3
BED331	Educational Policy and Economics	3
BED405	Inclusive Education	3
BED352	Strategic Management of Schools	3
BED363	Research Methods in Education	3

Pedagogy Courses (2 courses)

Course Code	Course Name	Credit Hours
BED451	Teaching Pedagogy I	3
BED452	Teaching Pedagogy II	3



Teaching Practice (2 courses)

Course Code	Course Name	Credit Hours
BED490	Teaching Practicum-1	3
BED493	Teaching Practicum-2	3

Capstone Project / Thesis

Course Code	Course Name	Credit Hours
BED492	Research Project (3 credit hours)	3

Interdisciplinary Courses

Course Code	Course Name	Credit Hours
BED347	STREAM Education	3
BED351	Edupreneurship	3
BED407	Innovation and Technology in Education	3

**The student will choose one stream as their area of specialisation.*

***Non Muslim students will be required to take 'Comparative Religion I' and 'Comparative Religion II' in place of 'Understanding of Holy Quran I' and 'Understanding of Holy Quran II'*

Course Structure

Semester I

Course Code	Course Name	Credit Hours
BED306	Educational Psychology	3
BED304	Philosophy of Education and its Psychological Roots	3
BED301	Curriculum Development	3
BED333	Evaluation and Assessment	3
BED656	Teacher Education	3
BED451	Teaching Pedagogy I	3

Semester II

Course Code	Course Name	Credit Hours
BED407	Innovations and Technology in Education	3
BED331	Educational Policy and Economics	3
BED446	Education for Sustainable Development	3
BED451	Teaching Pedagogy I	3
BED405	Inclusive Education	3
BED375	Teaching Practicum I	3

Semester III

Course Code	Course Name	Credit Hours
BED352	Strategic Management of Schools	3
BED363	Research Methods in Education	3
BED452	Teaching Pedagogy II	3
BED347	STREAM Education	3
BED493	Teaching Practicum II	3
BED492	Research Project (3 credit hours)	3



MPhil IN ORGANIZATIONAL PSYCHOLOGY

The MPhil program in Organizational Psychology is designed specifically for the training of professional industrial-organizational psychologists. Students will receive comprehensive training in utilizing psychological knowledge for improving organizational effectiveness and employee satisfaction.

Eligibility

Candidates with 16 years of education holding a master's degree in Psychology with 1st division/CGPA with at least 3 on a scale of 4 from an HEC recognized university are eligible for admission to the MPhil program at IoBM.

Candidates holding 16 years of education with a degree in Psychology, awarded with a 1st division or a minimum CGPA of 3.0 on a 4.0 scale from an HEC-recognized university, and having secured at least 50% cumulative score in the GAT-B, are eligible for admission to the MPhil program at IoBM.

Program Structure

MPhil is a 30-credit hour program with 8 courses and one thesis of 6 credit hours. Each of the eight courses will be of 3 credit hours. After successful completion of course work, students are required to undertake research for a thesis under the guidance of a research supervisor assigned by IoBM.

Course Structure

Semester One

MPP601 Qualitative Research Methods in Psychology	(3 credit hours)
MPP603 Quantitative Research Methods in Psychology	(3 credit hours)
MPP605 Psychological Testing and Measurement	(3 credit hours)
MPP609 Personnel Psychology at Workplace	(3 credit hours)

Semester Two

MPP607 Independent Study in Organizational psychology	(3 credit hours)
MPP611 Human Factors in Work Environment	(3 credit hours)
MPP613 Organizational Conflict Management	(3 credit hours)
MPP615 Project Practicum in organizational Psychology	(3 credit hours)

Semester Three & Four

MPP620 Thesis	(3 credit hours each Semester)
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**Understanding of Holy Quran I (1 credit hour)

**Understanding of Holy Quran II (1 credit hour)

It is mandatory for research students of MPhil programs to attend at least five sessions of the Psychology Research Seminar Series in each semester.

"To establish residency, continuous enrolment in the thesis program from the start until submission is mandatory."

*** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

***Note for Non-Muslim Students*

Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies.

MS ECONOMICS

The MS in Economics program equips students with strong theoretical and applied research skills, preparing them for roles in academia, policy analysis, and consultancy. It also serves as a pathway to a PhD in Economics.

Program Structure

MS in Economics is a 30-credit-hour program with 08 courses and one thesis of 06 credit hours. Each of the eight courses are of 03 credit hours. After successful completion of course work, students are required to carry out research study for the thesis under the guidance of a research supervisor assigned by the college.

Eligibility

- A minimum CGPA of 2.5 on a scale of 4.00 (or overall 60% marks) or equivalent
- A minimum of 16 years of schooling in a relevant field from HEC-recognized university/institution.
- GAT general test conducted by the NTS is required with a minimum of 50% marks.
- An interview conducted by the Institute
- Any other HEC stipulated requirement

Deficiency Courses (without Economics background only)

ECN501 Microeconomics
ECN502 Macroeconomics
STS501 Quantitative Analysis for Decision Making

Required Courses

ECO601 Microeconomics
ECO602 Macroeconomics
ECO603 Econometrics and Research Methods
ECO607 Development Economics
ECO606 Financial Econometrics
ECO608 Theory and Practice of Economic Policy

Elective Courses

ECO706 Monetary Economics
ECO708 Mathematical Economics
ECO709 Industrial Economics
ECO710 Mergers, Acquisitions and Restructuring
ECO711 Taxation and Business Strategy
ECO712 Trade and Globalization
ECO720 Health Economics
ECO721 Environmental and Resource Economics
ECO891 Thesis writing

Course Structure

Semester I ECO601 Microeconomics ECO602 Macroeconomics ECO603 Econometrics and Research Methods ECO607 Development Economics	Semester II ECO608 Theory and Practice of Economic Policy ECO606 Financial Econometrics ECOXXX Elective I ECOXXX Elective II
Semester III ECO891 Thesis Writing (3 credit hours) **Understanding of Holy Quran I (1 credit hour)	Semester IV ECO891 Thesis Writing (3 credit hours) **Understanding of Holy Quran II (1 credit hour)

Research students of MS and Ph.D. programs must attend the Multi-Disciplinary Research Seminar Series (MRSS) sessions on Saturdays (12:00 to 2:00 PM) each semester. At least 60% attendance is required.

"To establish residency, continuous enrolment in the thesis program from the start until submission is mandatory."

** Muslim students are required to take Understanding of the Holy Quran I (1 credit hour) and Understanding of the Holy Quran II (1 credit hour) during the Summer semesters to complete the degree requirement. Both courses are graded on a Pass/Fail basis and have no prerequisites.

**Note for Non-Muslim Students Non-Muslim students will take a suitable 2-credit-hour General Education course in place of Understanding of the Holy Quran, as approved by the Institute's statutory bodies



MPhil EDUCATION

The MPhil Education program is aligned with the HEC and NACTE Curriculum Framework 2025. It emphasizes contemporary educational research, technological integration, innovation, interdisciplinary thinking, and responsiveness to emerging educational realities. The program supports advanced study in educational research, policy, curriculum, assessment, teacher education, inclusion, STEM education, and sustainable development.

Minimum Duration:	1.5 years / 3 semesters
Maximum Duration:	4 years
Coursework:	24 credit hours
Research Thesis:	6 credit hours
Additional Requirement:	Understanding of Holy Quran I and II: 1 credit hour each, Pass/Fail

Eligibility Criteria

- Sixteen years of education with a minimum 2.5 CGPA or C grade, as per HEC policy.
- Candidates from a relevant degree background must complete 24 credit hours of coursework.
- Candidates must have cleared the GAT General (NTS) at the time of admission.
- Candidates from other disciplines are required to complete six deficiency courses of 18 credit hours before enrolling in any courses of the MPhil programme.
- Fulfilment of any other HEC requirements

Areas of Specialisation

- Artificial Intelligence in Education
- Educational Leadership and Policy
- Curriculum and Assessment
- Teacher Education and Professional Development
- STEM Education

Courses by Category

Core Courses

MPE604	Developing a Research Project	3 credit hours
MPE615	Qualitative Research Methods in Education	3 credit hours
MPE617	Statistical Testing and Inferences in Education	3 credit hours
MPE657	Innovations and Technology in Education	3 credit hours

Elective Courses*

Stream 1: Artificial Intelligence in Education

MPE681	Introduction to AI in Education	3 credit hours
MPE682	AI Supported Educational Technologies	3 credit hours
MPE683	AI for Teachers and Educational Leaders	3 credit hours
MPE684	Ethics and Future Trends in AI in Education	3 credit hours

Stream 2: Educational Leadership and Policy

MPE685	Advanced Educational Leadership and Governance	3 credit hours
MPE665	Educational Policy Analysis and Implementation	3 credit hours
MPE667	Strategic Planning and Institutional Development	3 credit hours
MPE668	Leadership for Educational Change and Innovation	3 credit hours

Stream 3: Curriculum and Assessment

MPE669	Advanced Curriculum Theory and Development	3 credit hours
MPE670	Curriculum Evaluation and Reform	3 credit hours
MPE671	Advanced Assessment and Evaluation in Education	3 credit hours
MPE672	Contemporary Approaches to Assessment	3 credit hours

Stream 4: Teacher Education and Professional Development

MPE673	Theories and Models of Teacher Education	3 credit hours
MPE674	Teacher Education Trends	3 credit hours
MPE675	Global Perspectives in Teacher Education	3 credit hours
MPE676	Transforming Teacher Learning through Technology	3 credit hours

Stream 5: STEM Education

MPE677	Foundations of STEM Education	3 credit hours
MPE678	Integrated Methods of Teaching STEM	3 credit hours
MPE679	Designing a STEM Curriculum	3 credit hours
MPE680	Innovative Teaching Approaches to STEM Education	3 credit hours

Additional Courses

REL501	Understanding of Holy Quran I**	1 credit hour
REL502	Understanding of Holy Quran II**	1 credit hour

Thesis

MPE690	Research Thesis	6 credit hours
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*Note: *Students shall select one Area of Specialisation and complete the prescribed four courses (12 credit hours) within that specialisation.*

*** Non-Muslim students will be required to take 'Comparative Religion I' and 'Comparative Religion II' in place of 'Understanding of Holy Quran I' and 'Understanding of Holy Quran II'*

Course Structure**Semester I**

Course Code	Course Name	Credit Hours
MPE657	Innovations and Technology in Education	3
MPE615	Qualitative Research Methods in Education	3
MPE617	Statistical Testing and Inferences in Education	3
MPE661	Specialisation / Elective I	3
REL501	Understanding of Holy Quran I	1

Semester II

Course Code	Course Name	Credit Hours
MPE604	Developing a Research Project	3
MPE662	Specialisation / Elective II	3
MPEX663	Specialisation / Elective III	3
MPE664	Specialisation / Elective IV	3
REL502	Understanding of Holy Quran II	1

Semester III**Thesis**

MPE690	Research Thesis	6 credit hours
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PhD IN EDUCATION

The PhD in Education programme promotes scholarship, research, and service at national and international levels. This research-oriented doctoral programme enables scholars to engage critically with research literature and conduct socially relevant and intellectually rigorous studies in specialised areas. The programme offers advanced courses in educational research, knowledge, technology, and development, preparing scholars for academic and leadership roles.

Minimum Duration:	3 years / 6 semesters
Maximum Duration:	8 years
Doctoral Coursework:	Eight courses: four core courses and four electives
Dissertation / Thesis:	30 credit hours awarded on successful completion
Additional Requirement:	Understanding of Holy Quran I and II: 1 credit hour each, Pass/Fail

Eligibility Criteria

- MS/MPhil or equivalent from an HEC-recognised institution in a relevant discipline.
- A minimum CGPA of 3.00 on a 4.00 scale, or equivalent.
- A minimum of 18 years of education corresponding to an MS/MPhil or equivalent degree.
- A GAT Subject test conducted by NTS with a minimum of 60% marks, or another test accepted under HEC requirements.
- Successful completion of an interview conducted by the Institute.
- Fulfilment of any other HEC requirements.

Requirement

- The Graduate Record Examination (GRE) administered by the Educational Testing Service, or a subject-specific Graduate Admission Test accepted under HEC requirements.

Programme Requirements

- Completion of seven doctoral courses: five core courses and two electives.
- Publication of at least one research paper in a W category journal during the PhD studies.
- Completion and successful defence of the dissertation/thesis.
- Mandatory attendance at defence sessions conducted by MPhil and PhD candidates.
- Continuous thesis enrollment from the start of the research phase until submission.
- Fulfilment of any other HEC requirements.

Core Courses (4 courses)

PED701	Methods and Issues in Advanced Qualitative Research	3 credit hours
PED703	Methods and Issues in Advanced Quantitative Research	3 credit hours
PED705	Ways of Knowing	3 credit hours
PED733	Designing and Developing a Research Framework	3 credit hours

Elective Courses (select 4 courses)

PED850	Application of Research Methods in Education	3 credit hours
PED851	Writing Proposals for Grants	3 credit hours
PED852	Independent Research Study	3 credit hours
PED853	Global Insights in Teacher Education	3 credit hours
PED854	Research and Innovation in Educational Leadership	3 credit hours
PED855	Innovation and Pedagogies in Teacher Education	3 credit hours
PED856	Designing and Conducting Action Research in Education	3 credit hours
PED857	Academic Reading in Research	3 credit hours
PED858	Academic Writing in Research	3 credit hours
PED859	Mixed Methods Research in Education	3 credit hours

Additional Pass/Fail Courses

REL702	Understanding of Holy Quran I**	1 credit hour
REL703	Understanding of Holy Quran II**	1 credit hour

Thesis Registrations

PED991	Research Thesis I	3 credit hours
PED992	Research Thesis II	6 credit hours
PED993	Research Thesis III	9 credit hours

***Non Muslim students will be required to take 'Comparative Religion I' and 'Comparative Religion II' in place of 'Understanding of Holy Quran I' and 'Understanding of Holy Quran II'*

Course Structure

Semester I

PED701	Methods and Issues in Advanced Qualitative Research	3 credit hours
PED705	Ways of Knowing	3 credit hours
PEDXXX	Elective I	3 credit hours
PED706	Understanding of Holy Quran I	1 credit hour

Semester II

PED703	Methods and Issues in Advanced Quantitative Research	3 credit hours
PEDXXX	Elective II	3 credit hours
PED707	Understanding of Holy Quran II	1 credit hour

Semester III

PED733	Designing and Developing a Research Framework	3 credit hours
PEDXXX	Elective III	3 credit hours
PEDXXX	Elective IV	3 credit hours

Semester IV

PED991	Research Thesis I	3 credit hours
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Semester V

PED992	Research Thesis II	6 credit hours
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Semester VI

PED993	Research Thesis III	9 credit hours
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The completed dissertation/thesis carries 30 credit hours; the staged thesis registrations will follow approved University rules.



PhD IN ECONOMICS

The mission of the PhD program in Economics is to develop scholars capable of advancing economic knowledge through rigorous and original research, fostering independent and critical thinking, and contributing to policy, industry, and society. The program emphasizes adherence to ethical standards and the promotion of sustainable economic practices.

Eligibility

MS/MPhil. or equivalent graduates from HEC-recognized institutes meeting the following criteria: A minimum CGPA of 3.00 on a scale of 4.00 or equivalent.

- A minimum CGPA of 3.00 on a scale of 4.00
- A minimum of 18 years of schooling that corresponds to MS/MPhil equivalent degree from HEC recognized institutions in a relevant discipline
- GRE subject specific or GAT subject test conducted by the NTS, or equivalent in the relevant discipline. A minimum of 60% (percentage) marks is required
- Pass interview conducted by the Institute
- Meet all other HEC stipulated requirements,

*HEC equivalency is required. The candidate may have to undergo additional deficiency courses wherever required

Program Requirements

PhD requires completion of course work and dissertation/thesis. Minimum duration is three years and maximum is eight years. The candidate having MS/MPhil degree with Economics background consist of six graduate level courses (18 credit hours). For Candidates having MS/MPhil degree with non-economics background completion of four deficiency courses (12 credit hours) is also required.. On completion of dissertation/thesis the student is awarded 30 credit hours.

Comprehensive Exam

After Completion of the course work, a PhD student has to pass a written comprehensive exam, and viva-voce in front of a doctoral committee.

Dissertation (30-credit Hours) After completing the courses and successfully passing the comprehensive exam, a student has to register for research thesis and complete the following requirements

- PhD proposal/synopsis development
- PhD proposal/synopsis Défense
- BASR approval of PhD proposal/synopsis
- Continuous enrolment in supervised research courses for meeting the full-time residency requirements
- Completion of PhD dissertation/thesis
- Selection of external evaluators by BASR
- Publication of at least one paper in an ISI indexed journal or an official acceptance of the paper
- Evaluation of PhD dissertation by two foreign faculty members from developed countries as per HEC criteria
- Dissertation/thesis finalization
- Open Défense of PhD dissertation
- Final dissertation/thesis submission to BASR
- Any other HEC requirement

PhD Course Structure

Deficiency Courses

MS (Without Economics background) (Maximum 12 Credit hours)

ECO601 Microeconomics

ECO602 Macroeconomics

ECO603 Econometrics and Research Methods

ECO708 Mathematical Economists

PhD (18 Credit hours)

Core Courses

PDE701 Advanced Research Methodology

PDE704 New Dimensions in Economics and Public Policies

PDE702 Advanced Applied Econometrics

PDE705 Advance Microeconomics

Elective Courses

PDE711 Industrial Economics in a Globalized World

PDE714 Selected Topics in Monetary Economics

PDE717 Topics in Labor Economics

PDE719 Political economy and Economic Policy Analysis

PDE 721 Economics of Governance

PDE723 Agricultural Policy

PDE712 Public Finance

PDE715 Selected Topics in Islamic Economics

PDE718 Topics in Financial Economics

PDE720 Topics in Environmental Economics

PDE722 Topics in Health Economics

Research Thesis (30 credit hours) For fall and spring semesters

PDE990 Research thesis (3credit hours)

PDE991 Research thesis (6credit hours)

Course Structure (MS with Economics background)

Semester I Advanced Research Methodology Advanced Applied Econometrics Advanced Microeconomics Understanding of Holy Quran I	Semester II New Dimensions in Economics and Public Policy Understanding of Holy Quran II Elective I Elective II
Semester III Research Thesis	

Course Structure (MS without Economics background)

Semester I Microeconomics (Deficiency Course) Macroeconomics (Deficiency Course) Econometrics & Research Methods (Deficiency Course) Understanding of Holy Quran I	Semester II Mathematical Economists (Deficiency Course) Advanced Research Methodology Advanced Applied Econometric Understanding of Holy Quran II
Semester III New Dimensions in Economics and Public Policy Advance Microeconomics	Semester IV Elective I Elective II
Semester V Research Thesis	

"To establish residency, continuous enrolment in the thesis program from the start until submission is mandatory."

"It is mandatory for research students of MS and PhD programs to attend research proposal/ thesis defense and multi-disciplinary research seminar sessions in each semester on Saturdays (12:00 to 2:00 PM). At least 60% attendance is required"

** Muslim students are required to complete Understanding of Holy Quran I (1 credit hour) and Understanding of Holy Quran II (1 credit hour) as a mandatory requirement for the PhD in Education program. These credit hours are in addition to the program's total credit requirement of 30 credit hours. Both courses are graded on a Pass/Fail basis and have no prerequisites.*

**For Non-Muslim Student will take a suitable 2 credit hour General Education course in place of understanding of the Holy Quran, as approved by the institute's statutory bodies*



Course Structure (MS Without Economics background)

Semester One Microeconomics (Deficiency Course) Macroeconomics (Deficiency Course) Econometrics & Research Methods (Deficiency Course)	Semester Two Mathematics for Economists (Deficiency Course) Advanced Research Methodology Advanced Applied Econometric	Semester Three New Dimensions in Economics and Public Policy Advance Microeconomics
Semester Four Elective I Elective II		

Course Structure (BS with Economics background)

Semester One Microeconomics Macroeconomics Econometrics & Research Methods	Semester Two Development Economics I Theory and Practice of Economic Policy Mathematics for Economists	Semester Three Applied Econometrics Qualitative Research Methods International Trade & Globalization
Semester Four Independent Study I Independent Study II	Semester Five Advanced Research Methodology Advanced Applied Econometric Advance Microeconomics	Semester Six New Dimensions in Economics and Public Policy Elective I Elective II
Semester Seven Research Thesis		

Course Structure (BS without Economics background)

Semester One Deficiency Course I Deficiency Course II Deficiency Course III	Semester Two Deficiency Course IV Microeconomics Macroeconomics	Semester Three Econometrics & Research Methods Development Economics I Theory and Practice of Economic Policy
Semester Four Mathematics for Economists Applied Econometrics Qualitative Research Methods	Semester Five International Trade & Globalization Independent Study I Independent Study II	Semester Six Advanced Research Methodology Advanced Applied Econometric Advance Microeconomics
Semester Seven New Dimensions in Economics and Public Policy Elective I Elective II	Semester Eight Research Thesis	

"To establish residency, continuous enrolment in the thesis program from the start until submission is mandatory."

INTERNSHIP PROGRAM

At IoBM the Internship Program is designed to allow students to work on meaningful assignments and gain real-world experience; thus, making them immediately valuable for the organisations they join upon graduation. The internship aims to provide IoBM students with relevant corporate experience in reputed organisations. An internship bridges the gap between the theoretical knowledge and practical skills needed in professional life. Real-world experience related to their field and knowledge is of vital importance to students in two main areas:

Work Experience

An internship is a means to gain hands-on work experience, develop specific skills and knowledge, and network with people from the student's chosen field. Moreover, employers assess the skills and abilities of prospective employees by evaluating their previous experience. Students pursue career-related opportunities before graduation, thereby obtaining an edge over other candidates in the competitive job market.

Career Choices

An internship provides a more accurate picture of what individuals would do in certain professions. After experiencing a particular job environment and observing what it entails, students may decide if this is the right career. The internship is compulsory for MBA regular and Bachelors' students. MBA weekend program and evening program students are exempted from the internship program as they are already on the job.

Eligibility for Internship

MBA: Minimum CGPA = 2.8
Bachelors Degree CGPA = 2.4

Semesters completed at IoBM = Two
Semesters completed at IoBM = Four or Five

- Candidates must have completed MKT 404, Methods in Business Research (MBR) or any other equivalent course according to their degree program.
- Interested and eligible students are required to register INT 302 (Non credit) on SMARTZ.
- A registration fee may apply.
- The internship is for a minimum of six continuous weeks.
- Students are not allowed to take any weekday course along with official internship program.
- The internship is allowed only in organisations approved by the Internships & Placements Department.
- All interns are required to write a report based on the given guidelines.
- SOPs of internship will be provided to registered interns prior to the start of internship.

LIST OF COMPANIES IN WHICH IOBM STUDENTS DO INTERNSHIP

10Pearls	Alternate Research Pvt. Ltd.
14th Street Pizza	Aman Foundation
360 Training	American Pacific Enterprises LLC
360Training.com	AMFCO International
3M Pakistan Pvt. Limited	Amir Adnan
A.F. Ferguson & Co. Chartered Accountants	Amreli Steels Limited
A.I. MIR LLC	Anjum Asim Shahid Associates Limited
AAJ News TV	APL Pakistan Pvt. Ltd.
Aaj TV	Apna Karachi FM 107
AASA Consulting (Pvt) Ltd.	APTECH Computers Education
Aba Ali Habib Securities	Arif Habib Bank Limited
Abacus-Global	Arif Habib Limited
ABAMCO Limited	ARMTECH Business Solutions (Pvt.) Ltd.
Abbott Laboratories Pakistan Ltd.	Arpatech
Abudawood Trading Company	Arpatech Pvt. Ltd.
ACCA Pakistan	Artal Group of Companies
Ace Insurance Limited	Artistic Milliners
ACM Gold Pvt. Ltd.	ARY Communications
Adam Motor Co. Limited	ARY Digital Television Network
Adamjee Life Insurance Company	AsiaCare Health & Life Insurance
Adcom Pvt. Limited	Asiatic Public Relations Network Ltd.
ADM Denim	Askari Bank Limited
ADVANS Micro Finance Bank	Asktourism
Aftab Associates	Atco Laboratories (Pvt) Limited
Aga Khan Education Services	Atlas Honda
Aga Khan Health Services	Attock Cement Pvt. Limited
Aga Khan University	Auspak
Agha Steel	Automobile Corporation Pakistan
Ahmed Foods	Avanza Solutions
AIG Pakistan	Aventis Pharma Pakistan Limited
Airlift	Axis Communications
Airmen Golf Course & Recreational Park	Badar Expo Solutions (BXSS)
Aisha Steel Mills Ltd.	Bandhani Group
Akber Ali & Sons	Bank Al Baraka
AKD Commodities	Bank Al Habib
AKD Securities	Bank Alfalah Limited
Akhuwat Foundation	Bank Al-Habib Limited
Al Marai, Saudia Arabia	Bank Islami Limited
Al Meezan Investment Management Ltd	Bank of Punjab
Albaraka Bank Limited	Barclays Bank Limited
Alfalah Securities	BASF Pakistan
Ali Asghar Textile Mills Ltd.	Bayer Pakistan
Ali Gohar & Co. Limited	BDO Ebrahim & Co. Chartered Accountants
Allianz EFU Health Insurance Limited	BenchMatrix
Al-Mughal Trading Corporation	Bentham Science Publishers
Alstom Pakistan (Pvt.) Limited	Berger Paints Pakistan Limited

Berlitz
 Beyond Profits
 Blitz Advertising (Pvt.) Limited
 Blue Communications
 BMA Capital Management Limited
 BOC Pakistan Limited
 BOL Network
 Boom Group Pakistan
 Bosch Pharmaceuticals
 Bottomline Pvt. Ltd.
 Bounty Studio
 Brand Mileage
 Brand Synario
 Breezecom Pvt. Ltd
 Bridgestone Tires Pakistan Limited
 Bullseye 360
 Burj Bank Ltd.
 Business Plus
 Business Recorder
 Byco Petroleum Pakistan Ltd.
 Cadbury Pakistan Ltd.
 Calibre Vintage
 Candyland Industries Limited
 Capital Management (Pvt.) Limited
 Carbonated TV
 Careem
 CDC Pakistan
 Celentas Digital Solutions
 Centegy Technologies (Pvt.) Ltd.
 Central Depository Company of Pakistan
 CIM Shipping
 Citi Security
 Citibank N.A.
 Citizen Archive of Pakistan
 Citizens Foundation
 Clariant Pakistan Limited
 Classic Designs
 Clicktrade
 Cloud BPO
 Clouds Innovators Solution
 CM Pak Ltd.
 Coats Pakistan Pvt. Ltd.
 Coca-Cola Beverages Pakistan Ltd.
 Colgate Palmolive Pakistan Ltd.
 Collective Wizdom
 Commtel Digital
 Contact Plus
 Continental Biscuits Pvt. Limited
 Contract Advertising
 Converge Technologies Pvt Ltd.
 Creative Chaos Pvt. Ltd.
 Creative Edge Communications
 Creative Factor
 Creek Developers

Crescent Insurance
 Crescent Steel and Allied Products Limited
 Crown Group of Companies
 Crystal-Lite
 Cubix Labs
 Cupola Pakistan Limited
 Custom HR Solutions
 Cybernet
 Dadabhoy Investments Pvt. Ltd.
 Dadex
 Dalda Foods Pvt. Ltd.
 DAMCO Pakistan (Pvt) Ltd.
 Dany Technologies
 Daraz Pakistan
 Daraz.Com
 Dawlance (Pvt.) Limited
 DAWN News
 Dawood Hercules Corporation
 Deal Club
 Deal Today
 Dealon
 Deloitte Pakistan
 Descon Engineering
 Deutsche Bank
 Dewan Group of Companies
 Dewan Mushtaq Trade Ltd.
 DG Harbour
 DGS Pvt. Ltd.
 DHL Global Forwarding
 DHL Pakistan Limited
 Digital Tribe
 Directing Edge
 DMK Consultancy
 Dollar Industries
 Dolmen Group
 Dot Images
 Drug Information Systems
 Dubai Islamic Bank Limited
 Duleaf
 Dupont Pakistan
 EDGE Financials
 EFU General Insurance Limited
 EFU Life Assurance Limited
 Elixir Securities Pakistan Ltd.
 Empact
 Engage 24X7
 Engage Consulting
 English Biscuits Manufacturers Ltd.
 Engro Corp.
 ENI Pakistan Limited
 EPFirms
 Ephlux
 EPlanet Communication
 Epoxy Industries (Pvt.) Limited



Escape Advertisement
 eSys Pakistan
 Etihad Airways
 Etilize Pvt. Ltd.
 Evaluation Factor (Pvt) Ltd.
 Evernew Entertainment
 Evolution Advertising
 Excelebrate
 Express News
 Express News Tv
 Ey Fords
 Faysal Asset Management Ltd.
 Faysal Bank Limited
 Fidelity Insurance
 Finja Pvt Ltd
 First Capital Equities Pvt. Limited
 First Women Bank Ltd.
 Fitness Republic
 Flight Connections
 FM91
 Folio 3
 Food Connections Pakistan
 Forex Financial Products
 Forte Pakistan Pvt. Ltd.
 Foundation Public School
 Freight Systems Co. Ltd.
 Friends of Literacy & Mass Education
 FYSL Trade
 Gatron Industries Ltd./Novatex Ltd.
 GEMCO Pakistan Ltd.
 General Tyre & Rubber Company Ltd.
 Genix Pharma Private Limited.
 Getz Pharma
 Ghulam Farooq Group
 Giga Group of Companies
 GlaxoSmithKline Pakistan Limited
 Global Food Marketing
 Global Securities Pvt. Ltd.
 Goodcore Technologies
 Greaves Airconditioning (Pvt) Ltd.
 Green Cherry Solutions
 Green Star Social Mkt. Pvt. Ltd.
 Gul Ahmed Textile Mills
 Gul-Ahmed Textile Mills Pvt. Ltd.
 Gumcorp Pvt. Ltd.
 Habib Bank AG Zurich
 Habib Bank Limited
 Habib Metropolitan Bank Ltd.
 Habib Oil Mills Limited
 Habib University Foundation
 Habitt
 Haleeb Foods,
 HANDS Pakistan
 Hasnain Tanveer Associates (Pvt) Ltd.

HBL Asset Management Ltd.
 Herbion International Inc.
 Hilal Confectionary Pvt. Ltd.
 Himont Pharmaceutical Pvt. Ltd.
 Hinopak Motors Limited
 Hirelabs
 Home Express
 HR Outsourcing & Consulting
 HRS Global
 HRS International
 HRS Total Solutions
 HRSG (PVT) LTD
 HSBC Bank Middle East Ltd.
 Huawei Internship Program
 HUBCO
 HUB-PAK SALT REFINERY
 HUM Network Limited
 Hum TV
 Human Capital Solutations
 Human Resource Solutions
 HURD
 IAL Satchi & Satchi
 IBEX Global
 IBEX Global Pvt Ltd
 IBL Group
 IBM Pakistan
 ICE Animation
 ICI Pakistan Limited
 Icon Global
 ICS Group of Companies
 Ifrasoft Technology Limited
 IGI Financial Services
 IGI Life Insurance
 IJARA
 imrooz.com
 Inbox Business Technology
 Indus Bank Limited
 Indus Motors Company
 Industrial & Commercial Bank of China
 Industrial Development Bank of Pakistan
 Information Technology Services
 Inforox Limited
 Institute of Chartered Accountants of Pakistan
 Intel Pakistan
 Interactive Cell
 Interactive Health Solutions
 Interflow Communications Pvt. Ltd.
 International Advertising Pvt. Ltd.
 International Asset Management Company Ltd.
 International Foundation and Garments (PVT) Ltd
 International Industries Limited (IIL)
 Interwood Mobel
 INVATERRA
 Invest & Finance Securities Limited

Invortex Technologies
 Iris Communication
 Islamic Investment Bank
 Ismail Industries
 Ismail Iqbal Securities
 IT Link Online
 J. Walter Thompson Asiatic (Pvt.) Ltd.
 Jaag Broadcasting Systems Pvt Ltd.
 Jaffer Brothers Limited
 Jahangir Siddiqui & Co. Limited
 Jason Group of Companies
 Jazz Warid
 JCR -VIS
 Jeem Solutions
 Johnson & Johnson Pakistan Ltd.
 Jotun Paints
 JS Bank Limited
 JS Global Capital Limited
 JS Investment
 Junctionz
 KalSoft (Pvt.) Limited
 Karachi Deals
 Karachi International Container Terminal Ltd.
 Karachi Stock Exchange Limited
 Karachi Vocational Training Institute
 KASB Bank Limited
 KASB Capital
 KASB Funds Limited
 KASB Securities
 K-Electric
 Khaliq Fashion
 Khwaja Ghareeb Nawaz Trust
 KNYSYS
 Kopak Shipping Company
 KPMG Taseer Hadi & Co.
 KZR Associates
 Lakson Group of Companies
 Lalani & Associates
 Land O'Lakes Inc.
 Lane 12
 Lasmo Oil Pakistan Limited
 LGS Matrix
 Liberty Books
 Lilly Pakistan (Pvt) Ltd.
 Linde Pakistan
 Live Securities Pvt. Ltd.
 Lo'real Pakistan
 Logic Information's
 Logicose
 Lootlo.pk
 Lucky Cement
 Lucky Textile Mills
 Lucky Knits
 M. Yousuf Adil Saleem & Co. Chartered Accountants

Maersk Sealand
 Magnus Investment Advisors Ltd.
 Majsons Corporation
 MAL Pakistan Limited
 Manhattan Leo Burnet
 Manzar Pakistan
 Maple Pharmaceuticals Pvt. Ltd.
 Marie Stopes Society
 Markematics Pvt. Ltd.
 Martin Dow Pharmaceutical
 Mass Advertising Pvt. Ltd.
 Mazars
 MCB Bank Limited
 MCB-Arif Habib Savings & Investments Limited
 Meat One
 Media Axis
 Media Max Pvt. Limited
 Media Pulse Pvt. Limited
 Meezan Bank Ltd.
 Mehran Enterprises
 Merck Marker Pvt. Ltd.
 Merit Packaging Pvt. Ltd.
 Meritocracy
 Metro Cash & Carry Pakistan
 Metropolitan Bank Limited
 MGH Group
 Microsoft Corporation
 Midas Safety
 Mindshare Pakistan Pvt. Limited
 Mitsubishi Corporation
 Mobil Askari Lubricants
 Mobilink
 Mobitel, KSA
 Mondelez
 Monsieur
 Mother and Child Welfare Foundation
 MS Associates
 MullenLowe & Rauf
 Muller & Phipps Pakistan Pvt. Ltd.
 Multinet Pakistan Pvt Ltd
 Multinet Pakistan Pvt. Ltd.
 Mushawar Consulting
 Mustafa & Co. Pvt. Limited
 MWM Studio
 Nabiqasim Industries
 Najmi Bilrami Collaborative Pvt. Ltd.
 Nanosoft Technologies Pvt. Ltd.
 Narejo Human Resources
 National Bank of Pakistan
 National Clearing Company of Pakistan Ltd.
 National Commodity Exchange
 National Foods Limited
 National Fullerton Asset Management Ltd.
 National Industrial Parks Ltd. (NIP)



National Insurance Company
 National Investment Company of Pakistan
 National Investment Trust
 National Marketing Services
 Naveena Export Pvt. Limited
 NBP Funds Management
 Nedo Corporation
 Nestle Pakistan
 Net Space Systems
 New Era Industries
 New Jubilee Insurance Co. Limited
 Next Degree
 Next Generation Innovations
 NIB Bank Ltd.
 Nielsen Pakistan
 Nike Pakistan Limited
 Nizami Bijli
 Nolin BPO
 Novartis Pharma Pakistan Limited
 OBS Group
 Oceanic Star Line (Pvt) LTD
 Oman National Electronics, Dubai
 OMD Pakistan
 OMV Pakistan Exploration
 Oratech Systems Pvt. Limited
 Orient Public Relations
 Orix Pakistan Limited
 Oxford University Press
 Oxygene Pakistan
 P&O Nedlloyd
 Packages Limited
 Pak Mediacom Pvt. Limited
 Pak Oman Microfinance Bank
 Pak-Arab Refinery Limited
 Pakistan Institute of Corporate Governance
 Pakistan Institute of Management
 Pakistan Petroleum Ltd.
 Pakistan Refinery Ltd.
 Pakistan Services Limited
 Pakistan State Oil Company Ltd.
 Pakistan Super League (PSL)
 Pakistan Telecommunication Co. Ltd.
 Pakistan Television Corporation
 Pakistan Tobacco Company (British American Tobacco)
 Pakistan Vehicle Engineering (Pvt) Ltd.
 Pak-Kuwait Investment Co. Ltd.
 Pak-Petrochemical
 Pak-Suzuki Motors Co. Limited
 Parke Davis & Co. Limited
 Pastel Communications
 Path Group of Companies
 PCI Group
 Pearl Packages
 Pegasus Consultancy (Pvt.) Ltd.
 Pfizer Laboratories Limited

PharmEvo Pvt. Ltd.
 Pharmatec
 Philip Morris International
 Philip Pakistan
 Philips Electrical Co. of Pakistan
 PIRANA Group
 Pixarch
 Pizza Hut
 Pizza Hut – MCR (Pvt) Ltd.
 Pizza Next - MFC Pvt. Ltd.
 Plastech Products (Pvt.) Ltd.
 Polaris
 Premier Systems Pvt. Ltd.
 Prestige Communications Ltd.
 Prestige Grey
 Price Solution Pvt. Ltd.
 Prime HR
 Procter & Gamble
 Promotech Media Solution (Pvt) Ltd.
 Protege Global
 Qineqt
 Qordata
 Qubee
 Rain Bargain
 Reactivate Pvt. Ltd
 Reckitt Benckiser Pakistan Ltd.
 Red Tape Media
 Resources Linked
 Reveal Pakistan
 RG Blue Communications (Pvt) Limited
 Rhone Poulenc Rorer Pakistan Ltd.
 Rising Technologies
 Robotics Labs
 Roche Pharmaceuticals Limited
 Rohi International Pvt. Ltd.
 Roshan Media
 S13 - Systems Innovations Pvt. Ltd.
 Sach International
 Sagacious Business Consultancy
 Salsoft Technologies Pvt. Ltd
 Samba Bank Ltd.
 Sana Safinaz
 Sanofi Aventis Pakistan Ltd.
 Sapphire Textile Mills Limited
 SBT Japan
 Schneider Electric
 School of Leadership
 SCT Group
 Sea Gold limited
 Searle Pharmaceuticals
 Security Papers Limited
 Service Sales Co.
 Shabbir Tiles & Ceramics Ltd.
 Shafi-Reso Chemicals
 Shaheen Air International

Shaheen Airlines
 Shajar Capital
 Shamrock
 Shan Foods Pvt. Ltd.
 Shangrila Pvt. Ltd.
 Sharaf Shipping Agency
 Shell Pakistan Limited
 SibiSoft Inc.
 Sidat Hyder Morshed Associates Private Limited
 Siemens Pakistan Engineering Co. Limited
 Signium International
 Silk Bank
 Sindh Education Foundation
 Singer Pakistan Limited
 SKF Pakistan Pvt. Ltd
 Small & Medium Enterprise Development Authority (SM-EDA)
 Snack Bites Company
 So Safe Pakistan
 Social Sell
 Socially Global
 Solutionicks
 Soorty Enterprises
 Spark Communication
 SSG Consulting
 Stancos Pvt. Limited
 Standard Chartered Bank Limited
 Starcom Pakistan
 Starcrest Communications
 State Bank of Pakistan
 Statuspro Inc.
 STEP Consultants
 Stitchers International
 Stork Prints Pakistan
 Strategic HR Promotion (SHRP)
 Streebo
 Strongman Medline
 Structure Lab Services Pakistan
 Sufi Brothers
 Sui Southern Gas Company Ltd.
 Sukoon.Com
 Summit Bank Limited
 Sun Consultants
 Sun Enterprises
 Sun Systems
 Super Trading Inc.
 SWVL
 Symbios.pk
 Synapse Consulting
 Sysnet Pakistan Pvt. Ltd.
 Systems Limited
 Talent Optimizers
 Tameer Micro Finance Bank Ltd.
 Tapal Tea Pvt. Ltd.
 Target Resourcing

Tarzz
 Tata Group of Industries
 Tata Textile Mills Ltd.
 Taurus Securities Ltd.
 TBH Employment and Consulting Services
 TCS (Pvt.) Limited
 TCS E-COM
 Teach for Pakistan
 Teamants
 Teamz International
 TeleCard Ltd.
 Telemart
 Telenor Pakistan Limited
 TenPearls
 The Bank of Khyber
 The Brand Consultant
 The Express Tribune
 The First Micro Finance Bank Ltd.
 The Learning Organisation
 The Leatger Grandeur
 The Recruiters
 The Snack Bites Company
 Thinkline
 Third Eye Managed Services
 Time & Vision Advertising
 Times Consultant (Pvt) Ltd.
 TIPU Associates
 TNI - Worldwide Partners Inc.
 Together
 Top Boss
 Total Lubricants
 Touchpoint (Pvt) Ltd.
 Toyota Indus Motor Company
 TPL Holdings
 TPL Trakker Limited
 TPS
 TradeKey
 Transit HR Consulting
 Transworld Associates
 Travel Mate
 Travel Solutions
 Travelport
 Tri Pack
 Triple E Pvt. Limited
 TV One - Airwaves Media Pvt. Ltd.
 Uber
 UBL Fund Manager
 UBL Insurers
 Ufone
 Uniferoz
 Unilever Pakistan Limited
 Unique Pakistan
 Unisys Pakistan Pvt. Limited
 United Assets Management Co. Ltd.
 United Bank Limited



United Consultants Pvt. Limited
United Energy Pakistan Ltd.
United Marine Agencies
United Registrar of Systems Limited
United Sales Pvt. Limited
Unity Foods
Universal Brush Ware Pvt. Ltd.
Universal Brushware
Urbanite
US Consulate, Karachi
USAID Pakistan
Utopia Pvt Ltd
Versa Canada Inc.
Visa International (Asia Pacific) Ltd.
Vision Express
Walnut Communications
Ward Howell International
Warid Telecom
Waterlink Group of Companies
Wavetec Pvt. Ltd.
Weekend World Marketing Limited
Westminster & Eastern Financial Services Ltd.
Winstar Pvt. Ltd.
World Tel
WorldCall Broadband Limited
Wrap n Roll
WWF Pakistan
Xenith Public Relations (Pvt.) Ltd.
Younus Brothers Group
Yunus Textile Mills Ltd.
Zameen.com
ZAP Infotech Inc.
ZEPCOM
ZH Technologies Inc.
ZIL Limited
Zishan Engineers Pvt. Ltd
Zong China Mobile
ZRG International

PLACEMENT PROGRAM

IoBM emphasises close collaboration with the government, firms, banks and leading HR consultants to ensure appropriate induction of its graduates into these organisations. Close links are maintained with CEOs and Heads of Departments in organisations to provide graduates with the best possible career prospects. Efforts are made to match students' talents with the requirements of both multi-national and local organisations.

IoBM's Placement Department provides a firm commitment to its graduates for developing their careers. This begins when the student is inducted and continues with a lifelong partnership. Some of the activities designed students' placement include but are not limited to the following.

Publishing Graduate Directory

Graduates are invited to showcase their resumes in IoBM's Graduate Directory. GD is circulated to 150 national and multinational companies and is an essential tool for being placed in the market.

Career Counselling Sessions

The placement department holds Career Counselling Sessions for the final semester students. In these sessions, executives of renowned companies mentor the graduating batch students in one-to-one sessions. The purpose of these sessions is to

- uncover the underlying concerns of students about their area of interest,
- answer their questions regarding professional life,
- guide them in building their career road map and prepare them to step into the corporate world.

Job Announcements

IoBM's placement department manages a database of job opportunities of reputed companies/organisations in the market. These opportunities are communicated regularly to our students, graduates & alumni via group emails.

Career Fairs

Career Fair is the annual feature of IoBM. It provides a meeting ground between the corporate world and students/graduates with resumes to HR representatives. Students are selected for jobs against companies' requirements immediately or later since their data remains readily available with such organisations for possible employment.

Employability Enhancement

The department organises workshops and sessions on employability enhancement for our students. These workshops are on how to give interviews, CV writing, professional personality development etc. These workshops are conducted by professionals having extensive corporate experience and provide the students with a boardroom perspective, valuable practical tips and a unique networking opportunity with industry gurus. It helps our students & graduates to get good jobs and achieve rapid progression therein.

On-Campus Recruitment Drives

The department facilitates companies to conduct on-campus recruitment drives. On the day of the recruitment drive, employers can conduct information sessions, as well as conduct employment tests or on-the-spot interviews

Career Counseling advice

Guidance and counselling are essential aspects of development for young adults at IoBM. The department is constantly engaged in assisting students in preparing for and finding jobs for them.



LIST OF COMPANIES IN WHICH IOBM GRADUATES ARE EMPLOYED

10Pearl	Ali Gohar and Company (Pvt) Limited
14th Street Pizza	Al-Khair Distributor
1LINK (Guarantee) Limited	Allianz EFU Health Insurance Limited
360 Training	Al-Mughal Trading Corporation
3M Pakistan Pvt. Limited	Alstom Pakistan (Pvt.) Limited
A.F. Ferguson & Co. Chartered Accountants	Alternate Research Pvt. Ltd.
A.I. MIR LLC	Aman Foundation
AAJ News TV	American Pacific Enterprises LLC
Aaj TV	AMFCO International
AASA Consulting (Pvt) Ltd.	Amir Adnan
Aba Ali Habib Securities	Amreli Steels Limited
Abacus Consulting	Anjum Asim Shahid Associates Limited
Abacus-Global	APL Pakistan Pvt. Ltd.
ABAMCO Limited	Apna Karachi FM 107
Abbott Laboratories Pakistan Ltd.	APTECH Computers Education
Abudawood Pakistan	Arif Habib Bank Limited
ACCA Pakistan	Arif Habib Limited
Ace Insurance Limited	ARMTECH Business Solutions (Pvt.) Ltd.
ACM Gold Pvt. Ltd.	Arpatech Pvt. Ltd.
Adam Motor Co. Limited	Artal Group of Companies
Adamjee Life Insurance Company	Artistic Milliners
Adcom Leo Burnett	ARY Communications
ADM Denim	ARY Digital Television Network
ADVANS Micro Finance Bank	AsiaCare Health & Life Insurance
Aftab Associates	Asiatic Public Relations Network Ltd.
Aga Khan Education Services	Askari Bank Limited
Aga Khan Health Services	Askari General Insurance Co. Ltd.
Aga Khan University	Asktourism
Agha Steel Mills	Atco Laboratories (Pvt) Limited
Agility Logistics Pakistan	Atlas Asset Management
Agro Processors and Atmospheric Gases (Pvt.) Ltd.	Atlas Honda
Ahmed Foods	Attock Cement Pvt. Limited
AIG Pakistan	Auspak
Airlift Technologies	Automobile Corporation Pakistan
Airmen Golf Course & Recreational Park	Avanza Solutions
Aisha Steel Mills Ltd.	Aventis Pharma Pakistan Limited
Akber Ali & Sons	Axis Communications
AKD Commodities	Badar Expo Solutions (BXSS)
AKD Investment Management Ltd	Bakri Energy (formerly Bakri Pakistan Pvt. Ltd.)
AKD Securities	Bandhani Group
Akhuwat Foundation	Bank Al Baraka
Al Marai, Saudia Arabia	Bank Alfalah Limited
Al Meezan Investment Management Limited	Bank Al-Habib Limited
Albaraka Bank Limited	Bank Islami Limited
Alfalah Securities	Bank of Punjab
Ali Asghar Textile Mills Ltd.	BankIslami Pakistan Limited
Ali Gohar & Co. Limited	BASF Pakistan

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 BOL Network
 Boom Group Pakistan
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 Bounty Studio
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 Brand Synario
 Breezecom Pvt. Ltd
 Bridgestone Tires Pakistan Limited
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 Brookes Pharma
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 Central Depository Company of Pakistan
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 Cloud Innovators Solution
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 Coca-Cola Beverages Pakistan Ltd.
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 Dewan Mushtaq Trade Ltd.
 DG Harbour
 DGS Pvt. Ltd.
 DHL Global Forwarding
 DHL Pakistan Limited
 Digital Tribe
 Directing Edge
 DMK Consultancy
 Dollar Industries
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 Dupont Pakistan
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 EFU Life Assurance Limited
 Ellahi Group
 Elixir Securities Pakistan Ltd.
 Empact
 Engage 24X7



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Engage Consulting Limited
English Biscuits Manufacturers Ltd.
Engro Corp.
Engro Fertilizer
Engro Foods
Engro Polymer
ENI Pakistan Limited
EPFirms
Ephlux
EPlanet Communication
Epoxy Industries (Pvt.) Limited
Escape Advertisement
eSys Pakistan
Etihad Airways
Etilize Pvt. Ltd.
Evaluation Factor (Pvt) Ltd.
Evernew Entertainment
Evolution Advertising
Excelerate
Express Media Network
Express News
EY Ford Rhodes
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Faysal Bank Limited
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First Women Bank Ltd
First Women Bank Ltd.
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Gentipak
Getz Pharma
GfK Etilize Pakistan
Ghulam Faruque Group
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Global Food Marketing

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Habib Bank Limited
Habib Metropolitan Bank Ltd.
Habib Oil Mills Limited
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Hasnain Tanveer Associates (Pvt.) Ltd
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Himont Pharmaceutical Pvt. Ltd.
Hinopak Motors Limited
Hirelabs
Home Express
House of Habib
HR Outsourcing & Consulting
HRS Global
HRS International
HRSG
HSBC Bank Middle East Ltd.
HUBCO
HUBCO Laraib Energy Limited
Hudson Pharma
Hum Network Ltd
Hum TV
Human Resource Solutions
Hurd Consultancy
IAL Satchi & Satchi
IBEX Global
IBL Group
IBM Pakistan
ICE Animation
ICI Pakistan Limited
Icon Group of Companies
ICS Group
ICS Group of Companies
Ifrasoft Technology Limited
IGI Financial Services
IGI Life Insurance
IJARA
imrooz.com

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 Indus Motors Company
 Industrial & Commercial Bank of China
 Industrial Development Bank of Pakistan
 Information Technology Services
 Institute of Chartered Accountants of Pakistan
 Intel Pakistan
 Interactive Cell
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 International Advertising Pvt. Ltd.
 International Asset Management Company Ltd.
 Interwood Mobel
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 Iris Communication
 Islamic Investment Bank
 Ismail Industries
 Ismail Iqbal Securities
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 JS Global Capital Limited
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 KASB Funds Limited
 KASB Securities
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 Lo'real Pakistan
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 Lucky Cement Ltd.
 Lucky Knits
 Lucky Textile Mills
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 Manzar Pakistan
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 Markematics Pvt. Ltd.
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 Media Pulse Pvt. Limited
 Meezan Bank Ltd.
 Mehran Enterprises
 Merck Marker Pvt. Ltd.
 Merit Packaging Pvt. Ltd.
 Meritocracy
 Metro Cash & Carry Pakistan
 Metropolitan Bank Limited
 MGH Group



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 Microsoft Corporation
 Midas Safety
 Mindshare Pakistan Pvt. Limited
 Minha Soft
 Mitchell's Fruit Farms
 Mitsubishi Corporation
 Mobil Askari Lubricants
 Mobilink
 Mobitel, KSA
 Mondelz
 Monsieur
 MS Associates
 MullenLowe & Rauf
 Muller & Phipps Pakistan Pvt. Ltd.
 Multinet Pakistan Pvt. Ltd.
 Mushawar Consulting
 Mustafa & Co. Pvt. Limited
 MWM Studioz
 Nabiqasim Industries
 Najmi Bilrami Collaborative Pvt. Ltd.
 Nanosoft Technologies Pvt. Ltd.
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 National Bank of Pakistan
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 Nielsen Pakistan
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 Nizam Bijli
 Novartis Pharma Pakistan Limited
 OBS Group
 Oman National Electronics, Dubai
 OMD Pakistan
 OMV Pakistan Exploration
 Optimus Capital Management
 Oratech Systems Pvt. Limited
 Orient Automotive Industries (PVT.) LTD
 Orient Public Relations
 ORIX Leasing Company
 Orix Pakistan Limited

Oxford University Press
 Oxygene Pakistan
 P&O Nedlloyd
 Packages Limited
 Pak Mediacom Pvt. Limited
 Pak Oman Microfinance Bank
 Pak Petrochemical Industries
 Pak-Arab Refinery Limited
 Pakistan Institute of Corporate Governance
 Pakistan Institute of Management
 Pakistan Mercantile Exchange Limited
 Pakistan Petroleum Ltd.
 Pakistan Refinery Ltd.
 Pakistan Services Limited
 Pakistan State Oil Company Ltd.
 Pakistan Telecommunication Co. Ltd.
 Pakistan Television Corporation
 Pakistan Tobacco Company (British American Tobacco)
 Pakistan Vehicle Engineering (Pvt) Ltd.
 Pak-Kuwait Investment Co. Ltd.
 Pak-Petrochemical
 Pak-Suzuki Motors Co. Limited
 Parke Davis & Co. Limited
 Pastel Communications
 Path Group of Companies
 PCI Group
 Pearl Packages
 Pegasus Consultancy (Pvt.) Ltd.
 Pfizer Laboratories Limited
 Pharmatec
 PharmEvo (Pvt.) Ltd
 Philip Morris International
 Philips Electrical Co. of Pakistan
 Philips Pakistan
 PIRANA Group
 Pixarch
 Pizza Hut – MCR (Pvt) Ltd.
 Pizza Next - MFC Pvt. Ltd.
 Plastech Products (Pvt.) Ltd.
 Point Blanc Media
 Polaris
 Premier Software (Pvt.) Ltd
 Premier Systems Pvt. Ltd.
 Prestige Communications Ltd.
 Prestige Grey
 Price Solution Pvt. Ltd.
 Price Waterhouse Coopers Pakistan (PWC)
 Primatics Financial
 Prime HR
 Procter & Gamble
 Promotech Media Solution (Pvt) Ltd.
 Protege Global
 Qineqt
 Qubee
 Rafi Securities

Rain Bargain
 Reckitt Benckiser Pakistan Ltd.
 Red Tape Media
 Red Tape Media
 Resource Linked Private Limited
 Reveal Pakistan
 RG Blue Communications (Pvt) Limited
 Rhone Poulenc Rorer Pakistan Ltd.
 Rising Technologies
 Robotics Labs
 Roche Diagnostics
 Roche Pharmaceuticals Limited
 Rohi International Pvt. Ltd.
 Roshan Media
 S13 - Systems Innovations Pvt. Ltd.
 Sach International
 Sagacious Business Consultancy
 Salsoft Technologies Pvt. Ltd
 Samba Bank Ltd.
 Sana Safinaz
 Sanofi Aventis Pakistan Ltd.
 Sapphire Textile Mills Limited
 SASPAK Cargo Pvt Ltd.
 SBT Japan
 Schneider Electric
 School of Leadership
 SCT Group
 Searle Pharmaceuticals
 Service Sales Co.
 Shabbir Tiles & Ceramics Ltd.
 Shafi-Reso Chemicals
 Shaheen Airlines
 Shajar Capital
 Shajar Capital Pakistan (pvt) Ltd
 Shamrock
 Shan Foods Pvt. Ltd.
 Shandaar Corporation
 Shangrila Pvt. Ltd.
 Sharaf Shipping Agency
 Sheild Corporation
 Shekha & Mufti
 Shell Pakistan Limited
 Shipco Transport Pakistan (Pvt.) Ltd
 SibiSoft Inc.
 Sidat Hyder Morshed Associates Private Limited
 Siddiqsons Limited
 Siemens Pakistan Engineering Co. Limited
 Signium International
 Silk Bank
 Sindh Education Foundation
 Singer Pakistan Limited
 SKF Pakistan Pvt. Ltd
 Snack Bites Company
 So Safe Pakistan
 Social Investment Managers and Advisors (SIMA)

LLC
 Social Sell
 Socially Global
 Sofcom (Private) Limited
 Softech Microsystems
 Solutionicks
 Soorty Enterprises
 South Asia Pakistan Terminals Limited
 Spark Communication
 SSG Consulting
 Stancos Pvt. Limited
 Standard Chartered Bank Limited
 Starcom Pakistan
 Starcrest Communications
 State Bank of Pakistan
 Statuspro Inc.
 STEP Consultants
 Stitchers International
 Stork Prints Pakistan
 Strategic HR Promotion (SHRP)
 Streebo
 Strongman Medline
 Sufi Brothers
 Sui Southern Gas Company Ltd.
 Sukoon.pk.com
 Summit Bank Limited
 Sun Consultants
 Sun Enterprises
 Sun Systems
 Super Trading Inc.
 SWVL
 Symbios.pk
 Synapse Consulting
 Sysnet Pakistan Pvt. Ltd.
 Systems Limited
 Talent Optimizers
 Tameer Micro Finance Bank Ltd.
 Tameer Microfinance Bank Limited
 Tapal Tea Pvt. Ltd.
 Target Resourcing
 Tarzz
 Tata Group of Industries
 Tata Textile Mills Ltd.
 Taurus Securities Ltd.
 TBH Employment and Consulting Services
 TCS – E Com
 TCS (Pvt.) Limited
 Teach for Pakistan
 Teamants
 Teamz International
 TeleCard Ltd.
 Telenor Pakistan Limited
 TenPearls
 Thal Ltd
 Thatta Cement Company Limited



The Arkadians, AKD Group
 The Bank of Khyber
 The Bank of Tokyo, MUFG
 The Brand Consultants (TBC)
 The Citizen Foundation
 The Express Tribune
 The First Micro Finance Bank Ltd.
 The Hub Power Company Ltd
 The Learning Organisation
 The Leatger Grandeur
 The Recruiters
 The Searle Company Ltd
 The Snack Bites Company
 Thinkline
 Third Eye Managed Services
 Time & Vision Advertising
 Times Consultant (Pvt) Ltd.
 TIPU Associates
 TNI - Worldwide Partners Inc.
 Top Boss
 Torque Corporation Pvt. Ltd
 Total Lubricants
 Touchpoint (Pvt) Ltd.
 TPL Holdings
 TPL Trakker Limited
 TPS
 TradeKey
 Transit HR Consulting
 Transworld Associates
 Travel Mate
 Travel Solutions
 Travelport
 TripleE Pvt. Limited
 TV One - Airwaves Media Pvt. Ltd.
 Uber
 UBL Fund Manager
 UBL Insurers
 Ufone
 UNDP Pakistan
 Uniferoz
 Unilever Pakistan Limited
 Unique Pakistan
 Unisys Pakistan Pvt. Limited
 United Assets Management Co. Ltd.
 United Bank Limited
 United Consultants Pvt. Limited
 United Energy Pakistan Ltd.
 United Marine Agencies
 United Registrar of Systems Limited
 United Sales Pvt. Limited
 Unity Foods
 Universal Brush Ware Pvt. Ltd.
 Urbanite
 US Consulate, Karachi
 USAID Pakistan

Versa Canada Inc.
 Visa International (Asia Pacific) Ltd.
 Vision Express
 Vivo Mobile Pvt Ltd
 Ward Howell International
 Warid Telecom
 Waterlink Group of Companies
 Wavetec Pvt. Ltd.
 Weekend World Marketing Limited
 Wemsol Pvt. Ltd (KEENU)
 Westminster & Eastern Financial Services Ltd.
 Winstar Pvt. Ltd.
 World Tel
 WorldCall Broadband Limited
 Wrap n Roll
 WWF Pakistan
 Xenith Public Relations (Pvt.) Ltd.
 YB Holdings
 Younus Brothers Group
 Yunus Textile Mills Ltd.
 Zameen.com
 ZAP Infotech Inc.
 ZEPCOM
 ZH Technologies Inc.
 ZIL Limited
 Zishan Engineers Pvt. Ltd
 Zong China Mobile
 ZRG International

ENTREPRENEURSHIP & MANAGEMENT EXCELLENCE CENTER (EMEC)

Introduction

The Entrepreneurship & Management Excellence Center (EMEC) is the executive education and consultancy wing of Institute of Business Management. EMEC is responsible for conducting specialized management training programs by closely working with its clients. It provides a wide range of open enrolment, customized training programs, post-graduate diploma and summer school. These programs are designed for professionals, business personnel and leaders from various public and private sector organizations who aspire to seek new perspectives and insights on management issues. These training programs are conducted by our distinct faculty members and leading industry scholars with research interests ranging from global business issues to local problems. Many of our trainers are leaders in their fields and bring in new knowledge and experiences in their sessions.

Initiatives by EMEC

- Trainings, seminars and conferences
- Lectures by foreign experts on specialized topics
- Collaboration with relevant organizations, institutes and Associations
- Public & private partnerships administration of entrance tests
- Advisory/consultancy services
- Entrepreneur skills development

Programs at EMEC

Customized Training & Need Assessment Services

In order to bridge the gap between the actual and perceived market demand of organization's most important resource, their people, EMEC employs a need assessment tool customized for each client. The customized and effective need analysis would translate goals in to realistic achievable target determining in what areas the training is needed with a clear outcome. This process helps EMEC develop customized training programs for its clients.

Open Enrolment Training

With an aim of enhancing your skills and understanding to achieve your organizational, personal development and career objective, EMEC offers wide range of training programs. We offer training in the areas of Management, Marketing, Human Resources, Information Technology, Finance and Accounting, Leadership, Supply Chain.

Past Training Programs

Human Resource Management

- Executive Diploma in Human Resources
- Leading HR Change
- Developing Talent Management & Employer Branding Strategy
- Maximizing Return on Training
- Result Driven Performance Management
- Maximize your Sales Force Performance
- Recruitment, Interviewing and Selection
- Management of Contract / Outsourced Labour
- Competency Based People Management



- Compensation and Benefit Management
- New Approaches- Employer Branding and Talent Management
- Fundamentals of Effective Mentoring
- HR as Business Partner
- Management of Contract Labor
- Sindh Labour Laws & Updates

Sales and Marketing

- Diploma in CRM
- Competitive Advantages through Channel Management in FMCG
- Digital Marketing
- Ali Baba store selling
- Strategic Marketing Management
- Digital Marketing

Communication

- Assertive Communication for Managers
- Personal Branding Toolkit
- Business Report Writing
- Company Secretary: Master class

Banking & Finance

- Financial Modeling
- Block chain for Executives
- Pool Management and Profit Distribution
- Halal Audit for Halal Certification

Leadership & Strategy

- Introduction to Design Thinking
- Developing Leadership Excellence
- Consultative Simulation Workshop on Value Innovation
- Aligning HR with Business Strategy
- Pedagogical Leadership Teaching Training
- Design thinking for Business Innovation
- Project Sizing & Costing
- Introduction to Systematic Reviews
- Impression Management
- Criticality and Risk Assessment
- Re-energizing Teams in a New Environment
- Teamwork Skills
- Leadership in Post Pandemic

Soft Skills

- Basic to Advanced Excel
- Advanced Excel & Dashboard Reporting
- Microsoft Power Pivot, Power Query and Power BI

Logistics & Supply Chain Management

- Supply Chain Excellence
- Asset Performance Management - using Blended Learning

Entrepreneurship

- Diploma in Tech Entrepreneurship
- Creative Digital Art Skills for Business Start-ups

Training Facilities

1. A semicircular u-shape Lecture Theatre with a capacity of 85 persons equipped with microphones/speakers on individual desks, BenQ flat-panel interactive touch screen (android based) for sharing whiteboard and other contents with the audience.
2. Flexibility with room layout with plenty of space to move around for games and activities
3. Fully air-conditioned training rooms with a backup power supply.
4. Good acoustics and soundproofing
5. Participant breakout spaces with Mira-cast-based smart screens and flip chart boards
6. Catering – appropriate provision of refreshments/ lunch
7. Location – easy to find on a map, convenient location with access to public transport
8. Ample and secured on-campus parking
9. Trainers Lounge for use of office staff and trainers
10. Wireless Internet access
11. Photocopying/printing/ email on-demand from USB

EMEC Programs

July 2024- August 2025

Workshops

- Import Export Regulations & Documentation Processes, July 27, 2024
- Cross Border Payment Mechanism & Risk Mitigation Techniques, October 12, 2024
- Category Management in Fashion & Textile Supply Chain, December 7, 2024
- Excellence in Supervision, February 22, 2025
- Excellence in Core Administrative Skills, June 21, 2025
- Advanced Predictive Maintenance Using AI, IoT, Data Visualization & Power BI, August 27 & 28, 2025

Diploma

- Diploma in International Politics & Global Economics Batch 1, July 1-31, 2024
- Certified Supply Chain Professional (CSCP) Exam Preparatory Course Batch 3, July 7- October 16, 2024
- Certified Supply Chain Professional (CSCP) Exam Preparatory Course Batch 4, August 24. 2024- January 11, 2025
- Diploma in International Politics & Global Economics Batch 2, September 14- November 16, 2024
- Diploma in Logistics & Distribution Management, December 15, 2024- February 16, 2025
- Executive Diploma in Human Resource Management Batch 1, December 28, 2024-April 19, 2025
- Certified Supply Chain Professional (CSCP) Exam Preparatory Course Batch 5, January 18- May 17, 2025
- Executive Diploma in Human Resource Management Batch 2, June 14 -August 23, 2025
- Certified Supply

Training Programs

- Effective Business Communication Skills, capacity building one-day training for the officers of the School of Logistics, Pakistan Air force (PAF) Airmen Academy on November 11, 2024
- Leadership Excellence, capacity building one-day training for the officers of the School of Logistics, Pakistan Air Force (PAF) Airmen Academy on November 12, 2024
- Supply Chain Excellence, capacity building two-day training for the technicians of the Pakistan Air Force (PAF) Directorate LOG Administration, Islamabad, November 18 & 19, 2024
- Effective Inventory Management, customize two-day training program for K-Electric, delivered at the client's premises on June 2 & 3, 2025
- Supply Chain Best Practices, customize two-day training program for K-Electric, delivered at the client's premises on June 23 & 24, 2025



OFFICE OF RESEARCH INNOVATION AND COMMERCIALIZATION (ORIC)

IoBM's Office of Research Innovation and Commercialization (ORIC) is the focal point for all research, Innovation, and commercialization-related activities of IoBM. The IoBM's ORIC offers opportunities and infrastructure to exhibit the Innovation of Faculty and research students and simultaneously facilitates university-industry linkages for commercialization. The IoBM's ORIC was notified by the Higher Education of Pakistan on December 12, 2017.

Under the guidelines and directives of HEC, ORIC has started working to organize the research activities by ensuring the availability of well-established and fully functional offices with the required staff as per the minimum criteria. The ORIC is headed by a Director of Research supported by a Manager of Research Operations & Development, a Manager of University Industry Linkages and Manager of Technology Transfer, a Manager of Intellectual Property, a Communication specialist, and other staff members. By having strong coordination among proposed staff, ORIC will set the pace to catch the challenges in the field of Research and Innovation.

The ORIC provides strategic and operational support to the IoBM's research activities and will have an eternal role in facilitating the university- Industry linkages. By and large, the ORIC is the focal point for all research-related activities of the institute. It facilitates the Institute's researchers to promote their research work nationally and internationally by addressing the important factors for creating a research environment.

ORIC Vision

ORIC at IoBM strives to be a leading hub for research, innovation, and industry collaboration, both nationally and internationally.

ORIC Mission

To drive impactful research, innovation, and entrepreneurship by fostering critical thinking, interdisciplinary collaboration, and ethical leadership, creating a dynamic environment that empowers learners, engages society, and delivers sustainable solutions to local and global challenges.

ORIC Outstanding Achievements

The Office of Research Innovation and Commercialization at the Institute of Business Management achieved several significant milestones, reflecting its continued commitment to strengthening the institutional research and innovation ecosystem in alignment with the standards of the Higher Education Commission.

1. Maintenance of X Category in HEC ORIC Scorecard

A major accomplishment for ORIC in 2025 was the successful maintenance of its "X Category" ranking in the HEC ORIC Scorecard. This achievement signifies sustained excellence in key performance areas, including research management, governance, industry engagement, innovation, and compliance. Maintaining this category demonstrates institutional stability, effective strategic execution, and adherence to national quality benchmarks.

2. Enhancement in Research Proposal Submissions

There was a notable increase in research proposal submissions by faculty during the year. ORIC actively facilitated this growth through:

- Targeted grant writing workshops and proposal development trainings
- Continuous support in budget preparation and compliance requirements
- Encouragement of interdisciplinary and collaborative research proposals

This upward trend reflects improved research culture and increased faculty confidence in securing competitive funding.

3. Successful Completion of NRPU Projects

ORIC ensured the timely completion and closure of multiple National Research Program for Universities (NRPU) projects, maintaining compliance with all regulatory and financial requirements. This demonstrates:

- Strong project monitoring and evaluation mechanisms
- Effective coordination between Principal Investigators and ORIC
- Institutional commitment to accountability and deliverables

The successful closure of these projects contributes to institutional credibility and strengthens future funding prospects.

4. Winning of Competitive Research Grants

Faculty members successfully secured research grants through national competitive funding programs, marking a significant achievement in enhancing the university's research portfolio. ORIC played a key role by:

- Providing end-to-end facilitation from proposal development to submission
- Reviewing proposals for quality and alignment with funding priorities
- Supporting faculty in identifying suitable funding opportunities

These achievements highlight the growing research capacity and competitiveness of the institution.

5. Increase in Trademark Filings

A significant increase was observed in the filing of trademarks, reflecting ORIC's growing emphasis on intellectual property protection and commercialization. This progress was driven by:

- Awareness sessions on IP rights and protection mechanisms
- Support in documentation and filing processes
- Encouragement of innovation-driven projects with commercial potential

This indicates a shift toward protecting and leveraging institutional intellectual assets.

6. Expansion of MoUs and Strategic Partnerships

ORIC facilitated the signing of multiple Memoranda of Understanding (MoUs) with national and international partners, strengthening industry-academia linkages. These collaborations enabled:

- Joint research initiatives
- Knowledge exchange and capacity building
- Opportunities for funding, internships, and applied research

The increase in MoUs reflects ORIC's proactive role in expanding the university's collaborative network and enhancing research impact.

Overall, the achievements of 2025-2026 demonstrate ORIC's strong performance across all major domains, including research development, innovation, intellectual property, and partnerships. These accomplishments reinforce ORIC's strategic direction and its vital role in advancing the university's research excellence and societal impact.

Institutional Quality Assurance & Enhancement (IQAE)

The IQAE is an independent department at IoBM, established in 2008 under the directive of the Higher Education Commission (HEC) and is headed by a director. The purpose of IQAE is to implement the guidelines provided by the HEC. It is also involved in planning, guiding, and monitoring quality assessment and enhancement activities. Since its inception, IQAE has been successfully functioning over the last ten years, amassing an excellent record. IQAE was able to contribute to the implementation of qualitative and quantitative data for several academic programs

IQAE has consecutively been in the W category for the last ten years. In the recent ranking, the QAA of HEC has shown satisfaction in the overall performance of the IQAE of IoBM, which is a strong reflection of the quality assurance system at IoBM.

HEC IQAE monitors plagiarism policies provided by HEC and serves as a focal point for the implementation of HEC quality criteria. All research papers are checked for plagiarism by software and reported to HEC on a regular basis.

The IQAE is rated very highly by the Asia-Pacific Quality Network (APQN). It has received the best internal quality assurance award from APQN. APQN has recognized that IQAE designed a post-graduate diploma in quality assurance in tertiary education which can be conducted locally and internationally. IQAE is an active member in the IoBM linkage with APQN, AMDISA, CHEA, ASQ, INQAAHE, the Tallories network, etc.

IQAE, has been the focal agency to coordinate acquiring accreditation by NBEAC for IoBM's BBA and MBA programs, accreditation by the Pakistan Engineering Council (PEC) for its Engineering programs and is currently assisting in acquiring AACSB accreditation

IQAE is also responsible for developing policies, procedures, and their revisions. HEC utilizes the services of IQAE in its assessment of Institutional Performance Evaluations of other HEIs on a regular basis. Uploading of all IoBM programs on the e-portal (PQR) of HEC and HEDR statistics data management and reporting has been done successfully by IQAE.

IoBM has actively participated in three major global rankings: QS Ranking, THE Impact Ranking, and UI Green Matrix. In THE Impact Ranking, IoBM demonstrated strong performance, particularly in Sustainable Development Goals (SDGs) 17 (Partnerships for the Goals), 4 (Quality Education), 5 (Gender Equality), and 8 (Decent Work and Economic Growth). This showcases the institution's commitment to addressing global challenges and driving sustainable development. Additionally, IoBM's participation in the UI Green Matrix emphasizes its dedication to environmental sustainability and green campus initiatives. IoBM proudly holds a rank of 238 in the Asian University Rankings, reflecting its growing prominence in the region. This achievement highlights the institution's dedication to academic excellence and continuous improvement towards sustainability.

IoBM Research Office (IRO)

At IoBM, we recognize that ground-breaking research is the cornerstone of academic distinction and societal impact. Our dedicated Research Office serves as a dynamic hub for fostering a vibrant research culture across the Institute. We are committed to supporting our faculty and students in producing relevant, high-quality research that addresses Pakistan's unique challenges and contributes to global knowledge creation. From providing guidance on research policies and funding opportunities to facilitating publications in top-tier journals and participation in prestigious conferences, the IoBM Research Office is dedicated to empowering our researchers at every stage of their journey. We strive to create a supportive environment where innovation thrives, collaboration flourishes, and research excellence is celebrated and rewarded.

The Office of the Research has been established to pursue following objectives:

- To establish a culture of research wherein research remains an integral component of academic activities at IoBM
- To ensure that IoBM research is relevant and sustainable in the context of Pakistan
- To encourage and facilitate IOBM researchers for publication and presentation of their research work in quality journals and quality conferences, respectively
- To support local efforts in growth of journals, hosting of conferences
- To benchmark, monitor, evaluate, and reward research work as well as recommend means to uplift research where necessary
- To maintain efficient and productive communication channels with relevant agencies, organizations, and offices for the support of IOBM research

ADMINISTRATIVE AND ACADEMIC REQUIREMENTS

COMPREHENSIVE EXAMINATION

After completion of their MBA program, all students are required to pass a comprehensive examination conducted by the Institute. The comprehensive examination provides students an opportunity to integrate, synthesize and apply the various aspects of academic achievements and overall work done in their chosen majors and the core courses studied during their MBA. Preparation for the comprehensive examination would develop a broader understanding of the significance of the major chosen by the students within the framework of their overall educational experience.

Structure

The comprehensive examination is of a three hour duration divided equally into three segments and consisting of three case studies, each of a one hour duration.

The case studies/questions are related to all majors available to MBA students.

1. To pass the comprehensive examination, a students must get satisfactory grades in one of their majors and in one non-major. The examination is to be conducted thrice a year in the month of March, June and September. Students will be charged Rs. 5,000 as comprehensive examination fee. Passing the comprehensive examination is a mandatory requirement for obtaining the MBA degree.
2. Students are allowed a maximum of two attempts to qualify for the comprehensive examination. A third attempt may be availed only after the Dean's permission. The comprehensive examination is taken only after the students have completed all course requirements and attained a CGPA of at least 3.0 in their program.
3. A refresher course will be arranged by EMEC in the month of August for students who will appear in the comprehensive exam in September and will be conducted by faculty from within IoBM or hired from outside. Students will be charged a nominal fee for attending the refresher course.

PROCEDURE FOR SUBMITTING MS, MPhil & PhD THESIS

MS / MPhil Thesis

- Candidates must pass NTS (50% or more marks in General Exam) or equivalent test taken by IoBM / GRE
- Candidates must pass 08 courses (24 credit hours) with a minimum CGPA of 3.0. D grades will not be considered
- Qualified candidates to inform MPhil program coordinator/ HoD to decide on a specialized area for research
- Candidates to suggest supervisor as per relevant area of interest
- BASR's decision to be shared with the candidate and supervisor in writing
- Candidates to submit thesis on a CD for plagiarism (19% acceptable) check to the program BASR Office (Reference section to be excluded from thesis)
- After Plagiarism check, candidates will submit four copies of final thesis to the BASR
- BASR to approve the examiners' names: 2 for Thesis Evaluation and 1 for Thesis Defense (equal number of alternative names will also be shared with the BASR) which will be provided by the supervisor
- Reports from the examiners to be directed to the respective Deans
- Dean to submit the report to BASR for recommendations (if any)
- Final copy of the thesis to be submitted to BASR for thesis defense
- Supervisor, coordinator, respective Dean, external examiner, relevant department faculty to form the thesis defense committee
- Candidates to defend the thesis through PowerPoint presentation
- Viva report to be submitted to the respective dean
- Dean to forward the examiners' report to BASR for the final approval of degree
- The Rector to confirm the award of the degree

PhD Thesis / Dissertation

For prescribed forms and details, refer to PhD manual for students

- Candidates must pass NTS (60% or more marks in subject exam) or equivalent test i.e. GRE or by IoBM
- Candidates must pass 06 courses (18 credit hours) with a minimum CGPA of 3.0. D grades will not be considered
- Qualified candidates to inform PhD program coordinator/HoD to decide on a specialized area for research
- Candidate to suggest supervisor as per relevant area of interest
- BASR's decision to be shared with the candidate and supervisor in writing
- Candidates to submit thesis on a CD for plagiarism (19% acceptable) check to the BASR Office (Reference section to be excluded)
- After Plagiarism check, candidates submit four copies of final thesis to the BASR Office
- BASR to approve the examiners' names: Two international thesis evaluators and one national evaluator (equal number of alternative names will also be shared with the BASR committee members) which will be provided by the supervisor
- Reports from the examiners to be directed to the respective deans
- Dean to submit the report to BASR for recommendations (if any)
- Final copy of the thesis to be submitted to BASR for thesis defense.
- Supervisor, coordinator, respective dean, external examiners, relevant department faculty to form the thesis defense committee
- Candidates to defend the thesis through PowerPoint presentation
- Examiners' report to be submitted to the respective dean
- Dean to forward the examiners' report to BASR for final approval of degree
- The Rector to confirm the award of the degree

TEACHING AND LEARNING AT IOBM

IoBM has been, and continues to aim at harnessing the best researched and the most widely implemented methods of dissemination of information to support excellence in teaching, learning and research. Multifaceted teaching strategies at IoBM include experiential learning, cooperative learning, directed class discussions and activities in critical thinking.

- Experiential learning methodology enables industry engagement through “learning by doing” approach. Adoption of experiential learning in all programs is a strategic initiative of IoBM.
- The case method of instruction continues to be a significant classroom teaching strategy at IoBM with a view to integrating the best practices with management theory.
- Field-based learning encourages students to complement their conceptual knowledge with off-campus learning experiences that deepen their understanding of business issues.
- Research-based assignments under the supervision of trained faculty aim to hone the research skills of students and maximize participant-centered learning experiences by exploring specific topics of interest related to real business situations.
- Specially-designed classrooms reinforce instruction through multimedia technology.
- Understanding being the purpose of instruction, the process of assessment at IoBM is more than just evaluation. It is a substantive contribution to learning that aims to identify gaps in student learning. IoBM’s approach to learning is rooted deeply in assessment that fosters understanding and is more than an end-of-the-semester test. It informs students and faculty about what students currently understand and how to proceed with subsequent teaching and learning.

Performance Evaluation and Standards

The performance of students is constantly evaluated through surprise quizzes, hourly examinations, assignments throughout the semester, submission of term reports, presentations and final examinations at the end of the semester. The grades awarded are as follows:

Grade	Marks	Grade Points
A+	96-100	4.00
A	91-95	3.89
A-	87-90	3.78
B+	84-86	3.67
B	79-83	3.33
B-	74-78	3.00
C+	68-73	2.75
C	65-67	2.67
C-	62-64	2.50
D	60-61	1.75
F	<60	0.00

Grade points are assigned to the given grades for calculation of the cumulative Grade Point Average (CGPA).



'I' Grade Policy

Eligibility criteria for approval of 'I' grade: Student missing final examination of a course due to a genuine reason, for example, serious illness/death in immediate family or official assignment may apply for 'I' grade with documentary evidence.

Conditions for I grade : Absences should not exceed the allowed limit; marks obtained in 1st & 2nd hourlies/midterm and final exam should be at least 60% and I grade processing fee of Rs.1000/= per course to be paid. Marks obtained should be at least 60% 'I' grade final exam otherwise 'I' grade will be changed to F grade.

Weightage Policy

Eligibility criteria for approval of Weightage : Student missing any of the two hourly examination of a course due to a genuine reason, for example, serious illness/death in immediate family or official assignment may apply for weightage with documentary evidence.

Conditions for weightage : Absences should not exceed the allowed limit; marks obtained in final examination should be at least 60% and weightage processing fee of Rs.2000/= per course to be paid.

Rechecking Policy

Eligibility criteria for Rechecking : After the final exam results have been posted, a student can apply for rechecking of final exam answer script/term project.

Conditions for rechecking : Absences should not exceed the allowed limit; marks obtained in 1st & 2nd hourlies/midterm and final examination should be at least 60% and rechecking processing fee of Rs.1000/= per course to be paid.

Note: Detailed policies are available on website in examination section.

Leave for Absences

A student shall apply for leave for his/her absence from class in advance, duly supported with concrete evidence, for approval of the Rector. Following tables shows the approved absences for a course during a semester.

Regular Semester:	Approved Absences:
Weekdays	4 days
Weekend	2 days
Summer Semester:	
Weekdays (Crash)	3 days
Weekend	2 days

The above absences are allowed on account of serious illness or emergencies and after approval by the Rector.

If a student accumulates more than the approved number of absences in a course, he/she will automatically be awarded an "F" grade in that particular course.

A student will not be eligible to apply for weightage or 'I' grade in case the absences exceed the allowed limit.

In case of a severe constraint, a student may apply for condoning of excess absences supported with concrete evidence to Academics Officer, who will forward the application along with evidence and attendance record duly verified by him, to the Rector for approval. After the Rector's approval, the student will have to sign an attendance undertaking.

DISCIPLINE

IoBM stands out among other universities for its special emphasis on maintaining good order and discipline among its students. It reserves the right to prescribe such regulations from time to time as may be considered expedient for effectively maintaining the highest standards of conduct. The regulations set out below are IoBM's General Regulations for discipline.

The General Regulations provide that:

No student of IoBM shall

1. disrupt the activities and functions of the Institute;
2. damage any property of the Institute or of any faculty member, visitor or an employee of the Institute or knowingly misappropriate such property;
3. forge or falsify any certificate/degree issued by IoBM or knowingly make false statements concerning standing or results obtained in examinations;
4. engage in violent, indecent, disorderly, threatening, or offensive behavior or language;
5. engage in the harassment/disrespect of any faculty member, peer, visitor, employee of the Institute;
6. exhibit behavior that is inappropriate in terms of the norms and cultural values of the Institute and society in general;
7. engage in any political activity while enrolled at IoBM;
8. disrespect/disregard any guidelines/instructions prescribed by faculty and management of the Institute;
9. assist or encourage directly or indirectly any person to act in breach of the above-mentioned regulations.

No student of IoBM shall breach any regulation

- a) relating to the use of the libraries or the information and communication technology facilities at IoBM;
- b) relating to conduct in examinations;
- c) assist or encourage directly or indirectly any person or persons to act in breach of the above-mentioned regulations.

The Disciplinary Committee

The Disciplinary Committee, IoBM, comprises a Chairman, Vice President, FHE & Chief Advisor IoBM, Academic Heads of Departments, Controller of Examinations, and other members notified by IoBM. If the Disciplinary Committee is satisfied that a student is guilty of breach of conduct it may:

1. impose a fine of such amount as it thinks fit;
2. order the student to pay compensation to any person or body suffering injury, damage, or loss as a result of the student's conduct;
3. make an order banning the student from specified premises or facilities for a certain period or on such terms as it thinks fit;
4. rusticate the student for such period as it thinks fit;
5. expel the student;
6. ask the parents of the student to give an undertaking that henceforth their wards will not get involved in any activity warranting disciplinary action and should any such incident occur, the Disciplinary Committee reserves the right to expel him/her permanently from the Institute without even asking him/her to appear before the Committee for the consideration of his/her case.

If the Disciplinary Committee is satisfied that a student has committed a breach of the disciplinary regulations relating to plagiarism it may:

- (i) exclude any part of the work submitted from assessment;
- (ii) award no mark / reduce or disregard any piece of work;
- (iii) permit a student to re-sit an examination or resubmit a piece of work on such conditions as it thinks fit.

Appeal / Review of the decision:

The review of the decision taken by the committee shall rest with the President, IoBM.

ATTENDANCE POLICY

- If students know they will miss a class (for a valid reason), they should be required to inform the instructor in advance and provide appropriate documentation.
- Students need to submit the required documents for medical reasons, family emergencies, and participation in university-related activities.
- Students must maintain a minimum attendance requirement to be eligible for exams.

Important Note: Regular absences are not to be taken without valid reasons. Exhausting regular allowed absences without justification does not entitle a student to automatic additional absences.

Category	Regular Policy ¹	Umrah Leaves ²	Sports Activities ³	Medical Issues ⁴	Other Issues (Compassionate Grounds) ⁵
Weekday Classes (1.5 hours)	4 absences allowed (Maximum 6 hours)	Included in regular absences (No special Permission)	Regular policy + 1 additional (with Head of Sports approval and proper documentation)	Regular policy + up to 2 additional (with proper medical documentation)	Regular policy + up to 1 additional with documentation
Weekend Classes (3 hours)	2 absences (Maximum 6 hours)				
Summer Session	Maximum 6 hours				

1. Regular Policy¹:

- Weekday Classes (1.5 hours): Students are allowed to avail 4 absences.
- Weekend Classes (3 hours): Students are allowed to avail 2 absences.
- Summer Classes: Students are allowed to avail 6 Hours only.

2. Umrah Leaves²:

- Umrah leave of TWO weeks (FOUR absences) for weekdays and (TWO absences) for weekend are allowable for a course on production of sufficient evidence, and are subject to the approval by the Relevant HoD. Total absences, however, should not exceed the allowed absence limit.
- There are no extra leaves allotted for Umrah. Students need to plan their Umrah within the allowed regular absences.

3. Sports/Society Activities³:

- The Head of Sports/society adviser must justify and approve absences due to official sports activities. Student must plan their regular absences accordingly
- For Weekday classes: regular policy 1 additional absence permitted.
- For Weekend classes: regular policy + 1 additional absence permitted.

4. Medical Issues⁴:

- Absences due to medical emergencies require hospital documents, lab reports, diagnoses, and prescriptions from registered doctors; diagnoses written on the prescription are not allowed.
- For Weekday and Weekend classes: 2 additional absences may be adjusted, subject to the severity and documentation of the medical emergency.

5. Compassionate Grounds⁵ (for situations like the death of an immediate family member or marriage (own)).

- One additional absence may be considered under compassionate grounds for both Weekday and Weekend classes.



Note:

- If a student accumulates more than the approved number of absences in a course, he/she will automatically be awarded an "F" grade in that particular course.
- A student will not be eligible to apply for weightage/special "I" grade or "I" grade in case the absences exceed the allowed limit.
- In case of the circumstances beyond the control of students, Rector may condone further absences, case to case bases.

Hajj leave:

- Hajj leave of THREE weeks (SIX absences) for weekdays and (THREE absences) for weekend are allowable for a course on production of sufficient evidence, and are subject to the approval by the Dean. Total absences, however, should not exceed the allowed absence limit.

DRESS CODE POLICY

A. For Female students:

- At least mid-thigh shirts should be worn with pants ,although knee-length shirts are desirable and preferred. Tucked in shirts with pants or jeans will be treated as a dress code violation.
- Ripped jeans are not allowed.
- Tights to be worn only with closed slit long shirts, otherwise to be avoided ,if worn in an exposed and indecent manner, as judged by the Proctor.
- All sort of revealing and indecent dress-up is not permitted.
- Trousers and shalwars above ankles are to be avoided.
- Clothes offensive in terms of cuts and style ,or by way of messages printed on them are to be avoided.
- Only light make-up, jewelry and perfume is permitted.

B. For Male Students:

- Only full-length trousers, jeans and shalwars are allowed. Track/sports lowers ,Bermudas and shorts are strictly not allowed.
- Footwear: Slippers are strictly not allowed . Dress shoes and shoes with back-strap are allowed.
- Male students are advised to maintain a proper hair-cut and refrain from piercing their ears and faces
- Offensive messages printed on shirts are not permitted.
- Ripped jeans are not allowed.

Grade Improvement Policy

- Institute provides an opportunity to the students for improvement of CGPA if it is below 2.5 in undergraduate and 3.0 in Graduate program. Student wishing to improve his grade in any course is eligible to reappear in that course with exemption in attendance provided he has secured at least C- in that course in undergraduate and C in Graduate program.
- Student will only appear in both hourlies (30 marks) or midterm (30 marks) and final exam (40 marks), of the subject course.
- Grade and GPA will be determined on the basis of aggregate marks secured in both the hourlies or Midterm (30) and final exam (40) out of total 70 marks.
- Previously obtained Marks and grade will be compared with the new one and whichever is greater will be considered for CGPA.
- Only courses for which grades C, D or F are received may be repeated for credit. Only one repetition is permitted, unless authorized in writing by the Dean. On repetition of a course, credit hours are applied towards a degree only once. In case of third time repeat, Rector is authorize to allow, based on case to case bases.

- Duration of graduation period might be extended due to repeat courses.
- BBA (Honors) and BS students must maintain a minimum CGPA of 2.0 on a cumulative basis in order to maintain good standing. Any deficiency should be made up in the following semester. Otherwise, the concerned student may be dropped from the rolls of the College. A CGPA of 2.5 is required for conferment of the degree.
- MBA and MPhil students are expected to maintain a CGPA of 2.5 to remain in good standing. Any deficiency should be made up in the following semester; otherwise the concerned student may be dropped from the rolls of the College. The cumulative GPA should be 3.0 in order for a student to receive the degree. MBA and MS students are required to repeat those courses in which they receive F and D grades.

Below Good Standing Policy

As per Institute of Business Management (IoBM) Policy, admission will be cancelled on the following grounds:

- Bachelor's students scoring a CGPA below 2.00 for two consecutive semesters and Summer Crash in an academic year
- Master's (Regular Program) students scoring a CGPA below 2.5 for two consecutive semesters and Summer Crash in an academic year
- Master's weekend and evening program students scoring a CGPA below 2.5 for three consecutive semesters in an academic year (which includes three regular semesters)

Please note that if you have a below good standing CGPA, you cannot take semester gap/s unless approved by ED / Registrar.

Rounding Off Policy

Grading scales as prescribed by the institute are without decimal points and same have to be followed for the grade book in CMS (Smartz). Some of the faculty members indicates aggregate marks of a course in the grade book in decimal point that creates confusion in assigning letter grades.

Following method needs to be adopted:

1. In case the number to the right of decimal place is 0.50 or higher than 0.50, round it off and increase the aggregate marks by 1.
2. Where number to the right of decimal place is less than 0.50 drop it off with no change in aggregate marks to left of decimal point.

Please follow this rounding off method invariably for Grade Book in CMS (Smartz) for convenience in assigning the letter grade.

EXAMINATION NORMS

Each semester has two hourly exams (6th & 11th week) or single midterm (8th week) and final exam in the (17th & 18th week). Mark distribution is explained to the students at the beginning of the semester. Traditionally, 15 marks are given for each hourly/30 marks for single midterm and 40 marks for the final exam. 30 marks are assigned for quizzes and assignments. In some cases, there might be a slight variation if the concerned faculty so desires.

In its pursuit of excellence, IoBM believes in providing a congenial atmosphere to the students during exams in order to get them to perform at an optimum level. However, there are certain norms which the students are expected to be aware of and observe both in letter and spirit. These norms are as follows:

- Impersonation may lead to permanent expulsion from the Institute.
- Cell phones are strictly prohibited in the exam hall/ room. Defying this rule may result in confiscation or a fine of Rs. 1000/=.
- Valid college ID card is mandatory for entry to the exam room/hall. There is absolutely no relaxation in this rule.
- Punctuality is most important at all times. Students are expected to reach their exam location and be seated at least 10 minutes prior to the exam time. Late comers will be made to wait for five minutes in case of hourlies and 15 minutes in the final exam before they are allowed entry. Students arriving late by more than 15 minutes will not be allowed to appear in the exam.
- As per Institute's policy, all question papers are to be returned along with answer scripts.
- Students are required to bring their own stationary and calculators as no lending or borrowing is permitted during examinations.
- Programmable calculators or other kinds of electronic devices are strictly prohibited inside the exam area.
- Indiscipline in the exam hall/room will not be tolerated. Such cases are to be reported to the controller of examinations immediately for appropriate action.
- Possession of any written material related to the subject or communication with their fellow students will result in disciplinary action through the decision of the Disciplinary committee.

Mid-Term Policy

Students are required to take two hourly/single midterm and final examinations. There would be no N-1 given to a student. All students must take both the hourly/midterm exams, as the aggregate of these would be included in the final grade. The Institute does not exempt students from completing course requirements on medical grounds nor is leave granted for any personal reasons. This is to ensure the market credibility of the Institute's teaching programs and degrees.

Policy for Course Repetition

Student failing a course twice will not be allowed to register for a third attempt. If it is a compulsory course, a second failure will lead to failure in the degree and withdrawal from the Institute.

Academic Dishonesty

To maintain credibility and uphold its reputation, the Institute has certain procedures to deal with academic dishonesty which are uniform and should be respected by all. Violations of academic integrity include:

- Unauthorized assistance during an examination
- Falsification or invention of data
- Unauthorized collaboration on an academic exercise
- Plagiarism

Definition of Plagiarism

Students are required to submit original work. Papers and/or projects submitted as part of a group effort must be clearly identified, with the team members specifically acknowledged. Ideas, data, direct quotations, paraphrasing, or any other indirect incorporation of the work of others must be clearly referenced to avoid plagiarism. Examples of plagiarism include:

- Direct quotation or paraphrasing from published sources that are not properly acknowledged;
- The use of other persons or services to prepare work that is submitted as one's own;
- The use of previously submitted papers or work, written by other students or individuals;
- Misappropriation of research materials;
- Any unauthorized access to an instructor's file or computer account;
- Any other serious violations of academic or moral integrity as established by the instructors of the Institute;
- Conduct during examinations.

Cheating is unacceptable. Examples of cheating are:

- Any written or oral communication among students during an examination
- Providing information about the content of an examination
- Impersonation by another student during an examination
- Using cell phones, programmable calculators or any other kind of electronic devices during an examination
- Using cheat sheet during an examination
- Material written on palm, hand or any other part of the body

IoBM is a no smoking campus. Any violation of this rule can lead to serious consequences. The penalty for this can amount to the extent of cancellation of registration. Use of drugs is a serious offense and any student found guilty will be rusticated permanently.

ADMISSION AND FINANCE

ADMISSION DEPARTMENT

Admissions Department performs various functions to admit eligible and quality students. These functions are performed with full transparency and accuracy while maintaining due confidentiality of personal data of all potential candidates for admission.

Admissions Department ensures that admissions are purely merit based depending upon the candidates' scholastic achievements, performance in aptitude tests and interviews.

Admission to IoBM is on a highly competitive basis, and only those who compete successfully on merit are selected for admission. They come from a variety of backgrounds. After joining IoBM, students continue to pursue their studies with a high level of competitiveness aimed at professional development. The admission criteria for the Institute's academic programs are described below:

Eligibility for entrance to Bachelor's Programs:

The admission for Bachelor's Programs would be based on the following:

- A Higher Secondary School (HSC) Certificate with at least 55%* marks awarded by a recognized Provincial Intermediate Board
- 3 A-Levels with at least 2C grades, Urdu will be accepted as a 3rd subject and not as a grade as long as the candidate has passed the course
- American High School Diploma with CGPA 2.5 or any other equivalent diploma
- Any other qualification if an authority has issued an equivalence certificate with minimum 55%
- IBCC equivalence may be required for A-Level and other foreign qualifications

In addition:

- At least 5C grades in O-Level exams (you need a total of eight subjects including: English, Urdu, Islamiyat, Pakistan Studies, and Math's as compulsory subjects and three electives)
- IBCC equivalence may be required for O-Level and other foreign qualifications
- Minimum 55% marks in SSC or equivalent
- Success in aptitude test and the panel interview conducted by IoBM

Exemption from Aptitude Test on SAT-1

The applicant can apply for exemption in appearing in the IoBM Aptitude Test:

- A score of 550 (out of 800) in Mathematics
- A score of 550 (out of 800) in Evidence-Based Reading and Writing

Total score of 1100 is required for the exemption

**Subject to revision by the IoBM Management*



Programs List:

- BBA (Honors)
- BS Joint (Honors) Accounting and Finance
- BS Joint (Honors) Economics and Finance
- BS Business Psychology
- BS (Honors) Accountancy, Management and Law
- BS (Honors) Media Studies
- BS Entrepreneurship
- BS Supply Chain Management
- BS Economics
- BS Technology Management
- BS Psychology

Eligibility for entrance to the undermentioned Bachelor's Programs:

- BS Computer Science
- BS Data Science
- BS Actuarial Science and Risk Management
- BS Mathematics and Economics
- BS Software Engineering

The admission in these Programs would be based on the following:

- A Higher Secondary School (HSC) Pre-Engineering Certificate with at least 55%* marks awarded by a recognized Provincial Intermediate Board
- 3 A-Levels with atleast 2C grades including Mathematics subject, Urdu will be accepted as a 3rd subject and not as a grade as long as the candidate has passed the course
- American High School Diploma with CGPA 2.5 or equivalent
- Recognized Overseas Equivalence Diploma
- Any other qualification if an authority has issued an equivalence certificate with minimum 55%
- Students from pre-medical track will be required to complete few additional courses
- For BS Actuarial Sciences and Risk Management students other than pre-engineering group will be required to complete additional deficiency courses

In addition:

- Atleast 5C grades in O-Level exams (you need a total of eight subjects including: English, Urdu, Islamiyat, Pakistan Studies, and Math's as compulsory subjects and three electives)
- IBCC equivalence is required for O-Level, A-Level and other foreign qualifications
- Minimum 55% marks in SSC or equivalent
- Success in aptitude test and the panel interview conducted by IoBM

Exemption from Aptitude Test on SAT-1

The applicant can apply for exemption in appearing in the IoBM Aptitude Test:

- A score of 550 (out of 800) in Mathematics
- A score of 550 (out of 800) in Evidence-Based Reading and Writing

Total score of 1100 is required for the exemption

**Subject to revision by the IoBM Management*

Eligibility for entrance to BE Electrical Engineering Program:

The admission for Engineering Programs would be based on the following:

- A Higher Secondary School (HSC) Pre-Engineering Certificate with at least 60%* marks awarded by a recognized Provincial Intermediate Board
- 3 A-Levels with atleast one C grade either in Mathematics, Chemistry and Physics
- American High School Diploma with CGPA 2.5 or any other qualifications
- Any other qualification if an authority has issued an equivalence certificate with minimum 55%
- IBCC equivalence certificate will be required for A-Levels and other foreign qualifications

In addition:

- Atleast 5 C grades in O-Level exams (you need a total of eight subjects including: English, Urdu, Islamiyat, Pakistan Studies, and Math's as compulsory subjects and three electives)
- IBCC equivalence may be required for O-Level and other foreign qualifications
- Minimum 55% marks in SSC or equivalent
- Success in aptitude test and panel interview

Exemption from Aptitude Test on SAT-1

The applicant can apply for exemption in appearing in the IoBM Aptitude Test:

- A score of 550 (out of 800) in Mathematics
- A score of 550 (out of 800) in Evidence-Based Reading and Writing

Total score of 1100 is required for the exemption

**Subject to revision by the IoBM Management*

Eligibility for entrance to B.Ed. Programs:

B.Ed. (Honors) 1.5 years Weekend Program:

For admission in the B.Ed (Honors) 1.5 years Weekend program, the candidate must possess:

16 years of Education (MA / MSc / MCom or equivalent degree) in any discipline like Sciences, Social Sciences, Humanities and others, with at least 45% or 2.00 CGPA out of 4 from a University/Institution recognized by HEC.

B.Ed. (Honors) 2.5 years Weekend Program:

For admission in the B.Ed (Honors) 2.5 years Weekend program, the candidate must possess:

14 years of education (BA / BSc / BCom or equivalent degree), with minimum 45% or 2.00 CGPA out of 4 from a University/Institute recognized by HEC.

Exemption from Aptitude Test on SAT-1

The applicant can apply for exemption in appearing in the IoBM Aptitude Test:

- A score of 550 (out of 800) in Mathematics
- A score of 550 (out of 800) in Evidence-Based Reading and Writing

Total score of 1100 is required for the exemption

**Subject to revision by the IoBM Management*

Eligibility for MBA (offered in Morning):

Please refer to Page No. 50 for specializations

The admission for this program would be based on the following:

- Sixteen years of Education in Arts, Science, Law, Commerce, Engineering, Medicine, Pharmacy or any other degree with high second division or equivalent from HEC/Provincial Government approved Institutes/Colleges/Universities in Pakistan.
- A final qualification examination of a professional body recognized by the Higher Education Commissions of Pakistan, for example, ACMA, CA, ACCA (HEC equivalence / membership certificate required)
- Four years overseas Bachelor's degree or equivalent recognized by HEC

In addition:

- Minimum 55% marks in overall academic career in annual examination system or 5C's in O-Level and 3 A-level with minimum 2C's excluding General Paper and Urdu or equivalent
- Minimum CGPA 2.5 on a scale of 4 in semester system (CGPA will be considered, if both CGPA & Percentage are mentioned in the Transcript)
- Success in aptitude test and interview conducted by IoBM

Eligibility criteria is subject to revision by the IoBM Management.

Eligibility for MBA (offered on Weekends/Evening):

Please refer to page No. 50 for specializations

The admission in MBA (offered on Weekends/Evening) would be based on the following:

- Sixteen years of Education in Arts, Science, Law, Commerce, Engineering, Medicine, Pharmacy or any other degree with high second division or equivalent from HEC/Provincial Government approved Institutes/Colleges/Universities in Pakistan
- A final qualification examination of a professional body recognized by the Higher Education Commissions of Pakistan, for example, ACMA, CA, ACCA (HEC equivalence certificate required)
- Four years overseas Bachelor's degree or equivalent recognized by HEC

In addition:

- Minimum 55% marks in last qualification in annual examination system
- Minimum CGPA 2.5 on a scale of 4 in semester system (CGPA will be considered, if both CGPA & Percentage are mentioned in the Transcript)
- Success in aptitude test and interview conducted by IoBM
- Candidates once admitted, not having a four year degree in business management/commerce will attend a Bootcamp of six weeks before the semester begins

Eligibility for MSc Organizational Psychology and HRM:

The admission in this program would be based on the following:

- Sixteen years of Education in Arts, Science, Law, Commerce, Engineering, Medicine, Pharmacy or any other degree with high second division or equivalent from HEC/Provincial Government approved Institutes/Colleges/Universities in Pakistan
- A final qualification examination of a professional body recognized by the Higher Education Commissions of Pakistan, for example, ACMA, CA, ACCA (HEC equivalence certificate required)
- Four years overseas Bachelor's degree or equivalent recognized by HEC

In addition:

- Minimum 55% marks in last qualification in annual examination system
- Minimum CGPA 2.5 on a scale of 4 in semester system (CGPA will be considered, if both CGPA & Percentage are mentioned in the Transcript)
- Success in aptitude test and interview conducted by IoBM
- Candidates once admitted, not having a four year degree in business management/commerce will attend a Bootcamp of six weeks before the semester begins

Eligibility for entrance to MS/MPhil Programs:

The admission in MS/MPhil Programs would be based on the following:

- Sixteen years of education in relevant field with high second division or equivalent from HEC recognized Institutes/Universities in Pakistan

OR

- Four years overseas Bachelor's degree or equivalent recognized by HEC

In addition:

- Minimum 55% marks in overall academic career in annual examination system or 5C's in O-Level and 3 A-level with minimum 2C's excluding General Paper and Urdu or equivalent
- Minimum CGPA 2.5 on a scale of 4 in semester system (CGPA will be considered, if both CGPA & Percentage are mentioned in the Transcript)
- Candidates must score minimum 50% marks in NTS/ETC test
- Success in panel interview conducted at IoBM

Programs List:

- MS Business Management
- MS Computer Science
- MS Mathematics and Scientific Computing
- MS Statistics and Scientific Computing
- MS Engineering Management
- MS in Electrical Engineering
- MS in English-Applied Linguistics
- MS in Economics
- MPhil in Education
- MPhil in Organizational Psychology

Admission Requirements for PhD Programs:

- Candidate having 18 years of education from an HEC recognized university is eligible to apply. For admission into the PhD program, minimum CGPA 3.0 on scale of 4 or first division in MPhil/MS/ degree is required
- Minimum CGPA 3.0 is required for candidates having MBA or equivalent degrees. They will have to do pre-requisite courses recommended by the committee (HEC equivalence certificate required)
- Students with HEC recognized professional degrees i.e., ACMA, CA, ACCA may also apply subject to equivalence certificate issued by the HEC

In addition:

- Minimum 55% marks in overall academic career in annual examination system or 5 Cs in O-Level and 3 A-Levels with atleast C grades in any subjects
- Success in interview
- Candidates must score minimum 60% marks in NTS/ETC test

PhD Eligibility Policy:

1) MS with relevant degree

18 Credit Hours of Courses plus 30 Credit Hours of Thesis

2) MS with irrelevant degree

Minimum 12 Credit Hours of deficiency Courses (from BS approved by Doctorial Committee) plus 18 Credit Hours of Courses plus 30 Credit Hours of Thesis

Program List

- PhD in Business Management
- PhD in Economics
- PhD in Education
- PhD Computer Science
- PhD Statistics & Scientific Computing

Policy and Procedure for Transfer of Credit Hours

Students desiring credit transfer in a specific degree program will be required to submit application along with their transcripts and course outlines/descriptions soon after their admission formalities have been completed. The request for transfer of credit hours will be reviewed if the previous program was incomplete and courses were done during the last three years. The credit equivalence committee (CEC) will examine such cases and decide accordingly, keeping in view the following:

- All requests must be for the same level of program. Courses completed in Bachelor's program cannot be considered for Master's program
- The credit hours will not be considered from program which has been completed and the student has been graduated.
- Transfer applications can be submitted once and atleast two weeks before commencement of the first semester, late applications for transfer of credits will not be considered nor any second application will be accepted.
- Student will be required to submit the application along with course outlines and an official transcript
- Student must have secured B or better grade as per the IoBM grading plan in each course meant to be transferred and the course title /outline must match with IoBM course plan. However, the decision of the subject specialist or Credit Equivalence Committee will be final.

- The Committee has the right to reject any course or an application
- Maximum of three courses can be transferred in PhD programs
- Maximum of four courses can be transferred in MPhil/MS programs
- Maximum courses of two semesters can be transferred in Bachelor's / MBA Programs from highly reputed and HEC recognized institutes of Pakistan and abroad. However, each case will be reviewed separately and the decision will be taken considering the grades and the reasons for the transfer

Re-Admission and Continuation Policy

- Students who stop attending classes at the Institute, for any reason, without informing the concerned authorities about their absence for more than one semester, their admission shall be suspended.
- Admissions can be deferred for maximum of two semesters with justification and approval of the Chief Advisor, IoBM.
- Any relaxation not beyond two years is subject to approval of Chief Advisor, IoBM.
- Students who complete their Bachelor program from IoBM are eligible to register for MBA if there were no any disciplinary issues. However, if security deposit has been withdrawn, candidates may apply for restoration of admission to office of the Chief Advisor, IoBM.
- Students dropped due to below good standing (for Master's program below 2.5 CGPA and for Bachelor's below 2 CGPA) may also apply for re-admission and to qualify both the entry test and interview.
- Students dropped out from the Institute for any reason will not be considered for enrollment as an external candidate
- On successful completion of readmission process in undergraduate and graduate program: the degree/transcript section will consider transfer of previous courses completed in IoBM based on grades and their relevancy.
- A MPhil or a PhD student dropped due to below good standing / time barred or absent for more than two years and CGPA is below 3.00, may also apply for readmission and to qualify both the entry test and Interview.
- After readmission, the student will follow current program structure and obsolete courses will not be considered. However, the Program Head and OGS Office may recommend transfer of previous courses having minimum C+ grades to degree/transcript section for consideration.
- The students dropped out due to below good standing CGPA (Master's program below 2.50 and for Bachelor's below 2.0) may apply for re-admission. After successfully completing readmission procedures, students are required to submit a copy of the readmission letter issued by the Admissions Department to the Office of the Registrar for transfer of course(s). For Bachelors all the similar courses of the last four years passed with "Grade C" and above are transferred, whereas for Masters all similar courses of the last four years passed with "Grade C+" and above are considered.
- If a student willingly transfers from one program to another program with a good standing CGPA, he/she will be required to approach the Admission Department and fulfill the readmission requirement. The relevant courses of the last four years with 'C' and above grades for Bachelors and 'C+' and above grades for Masters will be transferred to his/her credit. All such transfers are to be documented in the transcript.



SCHOLARSHIPS AND FINANCIAL ASSISTANCE PROGRAMS

Internal

IoBM has established a financial assistance fund for students who are unable to afford the financial costs associated with an academic program. Financial assistance is provided to students on the basis of merit and need. Currently, about 25% of the students are receiving some form of financial aid and scholarships. Special scholarship programs are available under CSR activity for deserving students of selected districts in Sindh through IoBM Outreach Program, TCF Alumni Program and Kiran Foundation.

President's Merit Scholarship

This scholarship is awarded to students who uphold the specified CGPA throughout an academic year:

Programs

Undergraduate students
Graduate students (Weekends/Evening)

Eligibility Criteria

CGPA 3.75 with minimum 5 courses or 14 credit hours
CGPA 3.80 with minimum 4 courses

The tuition fee waiver is 50%.

Merit Scholarships

IoBM offers Merit Scholarships to its meritorious students which is 50% of the tuition fee and automatically renewed for the next semester, subject to maintaining the mentioned below criteria in regular semesters.

Programs

Bachelors
MBA (offered on Weekends/Evening)
MPhil / MS*
PhD*

Eligibility Criteria

Semester GPA 3.60 and CGPA 3.50 with minimum 14 credit hours
Semester GPA 3.70 and CGPA 3.60 with minimum 4 courses
Semester GPA 3.70 and CGPA 3.60 with minimum 2 courses
Semester GPA 3.80 and CGPA 3.70 with minimum 2 courses

Educational Assistance on Need cum Merit

IoBM grants Educational Assistance (EA) to its regular students. It is a 50% waiver of the tuition fee and is automatically renewed for the next semester, subject to maintaining the mentioned below criteria in regular semesters.

Programs

Bachelors
MBA (offered on Weekends/Evening)
MS / MPhil *

Eligibility Criteria

Semester GPA 2.80 and CGPA 2.50 with minimum 14 credit hours
Semester GPA 3.20 and CGPA 3.00 with minimum 4 courses
Semester GPA 3.20 and CGPA 3.00 with minimum 4 courses

* Only applicable on tuition fee.

"D" and "F" grades are not allowed.

Educational Assistance on Need

IoBM grants Educational Assistance (EA) to its regular students. It is a 50% waiver of the tuition fee and is automatically renewed for the next semester, subject to maintaining the mentioned below criteria in regular semesters.

Programs

Bachelors
MBA (offered on Weekends/Evening)

Eligibility Criteria

Semester GPA and CGPA 2.50 with minimum 14 credit hours
Semester GPA and CGPA 3.00 with minimum 4 courses

Important: Please note that a survey of your House/Apartment is mandatory.

"D" and "F" grades are not allowed.

Sports Scholarship

Sports scholarship awarded to the students who have achievements at a regional, national or international level in the last 8-12 months and are the active player of the IoBM sports team. After the endorsement of a student's application by the HoD sports, scholarship is awarded to the student which is 50% of tuition fee.

Programs

Bachelors
MBA (offered on Weekends/Evening)

Eligibility Criteria

Semester GPA and CGPA 2.50 with minimum 14 credit hours
Semester GPA and CGPA 3.00 with minimum 4 courses

Important: Please refer to the website for details regarding the required sports achievements.
“D” and “F” grades are not allowed.

Program Promotional Waiver

B. Ed (1.5 and 2.5 years) GPA 2.5 with minimum 12 credit hours or 4 courses in a semester

External

Endowment Fund

Various endowment funds have been set up by IoBM, public and private donors to provide financial assistance for students who deserve and in need.

Following external financial assistance are being provided to students:

- Bashir Janmohammad CCSIS Endowment Fund
- Dr. Ahmer Syed Karim Endowment Fund
- IoBM Endowment Fund
- Lucky Cement Scholarships
- Shan Foods Endowment fund
- Mitsubishi Corporation Scholarships
- Ms. Sabina Mohsin Endowment Fund
- Mehbooba and Syed Karim Uddin Ahmed Endowment Fund
- Student Scholarship Fund
- Sindh Educational Endowment Fund (SEEF), Govt. of Sindh
- Faysal Bank Zakat Fund
- Pakistan Stock Exchange (PSX) Endowment Fund

Scholarships are also available on reciprocal basis to:

- Bilkent University, Turkey
- University of Florence, Italy
- University of Kuala Lumpur, Malaysia
- Guilin University of Technology, China
- Institute of Business Studies RANEP, Russia
- MacQuarie University, Australia
- Nagoya University of Commerce and Business, Japan
- Hanyang University, South Korea
- Erfurt University, Germany



FEE STRUCTURE*

Sindh Sales Tax:

It is to inform you of the imposition of Sindh Sales Tax (SST) on education services under Tariff Heading 9857.0000, as enacted in the Finance Act, 2024. In accordance with this legislation, a 3% SST will be levied on the total annual fee exceeding Rs. 500,000/- effective from 1st July 2024. The term "fee" encompasses all types of fees and charges. This tax will be collected directly from each student whose fee liability exceeds the specified threshold.

Admission Fee:

One- time Admission fees, non-refundable and non- transferable, of Rs.50,000/= will be charged.

The fee structure for various degree programs, per semester, is as follows:

	Registration Fee	Tuition Fee* (per course)	Fee on the basis of Per Credit Hour	Tuition Fee Full Load	Total Fee* (per semester)
All Bachelor's Programs	10,000.00	29,400.00	9,800.00	176,400.00	186,400.00
All Master's (Weekend / Evening) Programs	10,000.00	31,800.00	10,600.00	190,800.00	200,800.00

* Subject to change

Note:

Additional fee will be charged for remedial (non-credit) courses such as MTH100 or COM010 which have to be taken by those students who have not been able to reach the desired level of competence in the relevant section of the admission test.

- Rs. 25,000.00/- will be additional per semester for usage of Media Studios and Labs for BS Media Studies Program
- Rs. 53,460.00/- will be additional Lab Charges for BE Electrical Engineering in Electronics and Telecommunication program.
- Rs. 53,460.00/- will be additional Lab Charges for BS Computer Science and BS Software Engineering program.
- Rs. 20,000.00/- will be charged for MBA Boot Camp for MBA students joining IoBM for the first time.

MBA (Weekend / Evening) students, planning to take less than a full load, would be charged registration and tuition fees accordingly.

Post Graduate Programs	Registration Fee (1-2 Courses)	Tuition Fee Per Course	Thesis, External Examiner, Viva Voce, Exam, Supervisors and Foreign Examiner Fee
MS / MPhil Programs	3,500.00	21,600.00	110,200.00
PhD Programs	5,000.00	23,400.00	556,600.00

The registration duration of thesis is one year (3 consecutive semesters) after 3rd semester. Students will be required to get themselves re-registered in thesis by paying registration fee and one course fee for the subsequent semesters.

Convocation Fee:

Rent for gown and cap	1,500.00
Degree folder including degree cost	5,000.00
Physical arrangement and lunch cost for the Graduate only	6,000.00
Printing Material	750.00
Administrative charges	1,750.00
Convocation Fee	1,5000.00

Convocation Fee	15,000.00
Security deposit for the gown and cap (refundable)	5,000.00
Total amount with security deposit	20,000.00

Note:

- *Rs. 5,000.00 will be refunded after the gown and cap are returned in good condition*
- *Rs. 6,000.00 will be charged for parents (per person).*

HEC NATIONAL FEE REFUND POLICY

1. Cancellation / Withdrawal

- 1.1. Students canceling or withdrawing from a program of study may be entitled to a refund of Tuition Fee. Generally, those students will qualify for a refund whose request for a fee refund falls under one of the categories:
 - i. Personal Emergencies.
 - ii. Health Reasons,
 - iii. Care of and medical reasons for Family Members.
 - iv. Legal/Immigration Matters.
 - v. Delay in admission in other Universities.
 - vi. Other (these reasons will be considered on an individual case basis).
- 1.2. If a student is required to leave the program due to non-fulfillment of entry/admission requirements upon official announcement of examination results, he/she will be eligible for a 100% tuition fees refund, provided that he/she submits the examination result within seven(7) days of announcement of results.

2. Postponement

- 2.1. The Tuition Fee can be carried forward and utilized for the following subsequent semester if a student seeks postponement of his/her studies within Two (2) weeks of the commencement of the semester.
- 2.2. However, after the above-mentioned time frame, any request for the Tuition Fee to be carried forward shall only be permitted on medical grounds, duly verified by a medical officer of the University or by a Doctor of a Government Hospital. The HEI, however, may inquire about the authenticity/validity of the medical certificate/advice of the doctor.

3. REFUNDABLE FEE

4. Tuition Fee:

- 4.1. Application for a refund of Fee can be made by completing the appropriate form and submitting the proof of payment. Any refund will be paid to the student or his/her parents/guardians/ sponsoring body.



4.2. The refund amount of Tuition Fee is subject to the following schedule:

Timeline	Percentage of Fee
Upto 10th day of commencement of classes	100% fee refund
Upto 15th day of commencement of classes	80% fee refund
Upto 20th day of commencement of classes	60% fee refund
Upto 30th day of commencement of classes	50% fee refund
31st day onwards of commencement of classes	No Refund

Note: The timelines for refund of tuition fee are inclusive of the weekends.

5. Laboratory Fee:

The Laboratory fee contains the following types:

- a. Computer Laboratory: Compulsory for all students
- b. Science Laboratory: Compulsory for all students who enroll in one or more science subjects such as Biology, Chemistry, Physics etc.
- c. Engineering Laboratory: Compulsory for all engineering students.
- d. Medical Laboratory: Compulsory for Medical and Health Sciences students.
- e. Other Laboratory: Compulsory for students
- f. The laboratory fee is 100% refundable minus (-) the days a student has availed of that facility(es).

6. Library Fee:

- 6.1. The library/digital library fee is completely refundable.

7. Transport Fee:

- 7.1. The fee submitted for transportation is completely refundable.
- 7.2. The transport fee is 100% refundable minus (-) the days a student has availed of that facility(es).

8. Utilities Fee:

- 8.1. The fee submitted for utilities/services is completely refundable.
- 8.2. The Utilities fee is 100% refundable minus (-) the days a student has availed of that facility(es).

9. Security/Deposit Fee:

- 9.1. Payable by all new students together with the first-semester tuition fee, this fee is refundable after deductions are made for the damage/loss (if any) caused by the student.
- 9.2. The deposit is fully refundable after the student has completed his/her duration of studies or has withdrawn/transferred to another university.

10. Examination Fee:

- 10.1. The fee submitted as an examination fee is completely refundable.

11. Fee for Curricular/Co-Curricular Activities:

- 11.1. The fee submitted for curricular, co-curricular, extra-curricular, sports, tours, field trips etc. activities is completely refundable.

The Curricular/co-curricular, extra-curricular, fee is 100% refundable minus (-) the days a student has availed of that activity(es).

12. Fee Transfer:

- 12.1. A student who transfers to another program within the university will be eligible for fee transfer to the new program. If there's difference of fee in between the two programs of that university than:
- a. In case the fee difference is Positive then the difference will be paid by the student.
 - b. In case the fee difference is negative then the difference will be paid to the student.

13. NON-REFUNDABLE FEE

14. Admission Fee:

- 14.1. The fee paid as an admission fee is nonrefundable.
- 14.2. However, it may be noted that in case, a student paid admission fee in one of the constituents/affiliated colleges of the university, and he/she/transgender is also offered admission in another college in the same program, then the admission fee paid to the earlier college is to be transferred to the later college in respect of that student.

15. Registration/Application Fee:

- 15.1. Any Fee, payable at the time of initial application is non-refundable under any circumstances.

16. No Refund:

- 16.1. A student expelled from the university due to disciplinary misconduct, shall not be eligible for any refund, except for the refundable Security/Deposit Fee.
17. Any refund on account of courses dropped without penalty in any given semester, provided that tuition fees on account of drop courses without penalty remains un utilized in subsequent semesters, shall be refunded as per clause 4.2 on admission cancellation or program completion, including suspension / freeze for one semester.
- 17.1 Tuition fees for courses dropped with penalty will be forfeited.

ORGANIZATION

Board of Governors

The Board of Governors exercises the powers to hold, control and administer the property, funds and resources of the Institute. It also approves the annual report, plan of work, statements of accounts and the annual budget estimates as recommended by the Executive Council. It is also responsible for ensuring the effectiveness of the Institute's operations and the continuity and preservation of its autonomy.

Members of the Board of Governors (listed on Page No. 8)

Executive Council

The Executive Council is responsible for formulating and approving the principles, policies and plans governing the activities and operations of the Institute so as to facilitate teaching and other academic work. It can appoint faculty, researchers and officers on the recommendation of the Selection Board. It can also create new components of the Institute such as faculties/departments/college, and constitute standing committees, subcommittees, councils, and other administrative or academic advisory bodies, if necessary. It can undertake initiatives to ensure efficient and effective management and functioning of the Institute. It proposes plans of work for the approval of the Board of Governors.

Members of the Executive Council

- Mr. Bashir Janmohammad, Chairman
- Mr. Talib Syed Karim, President, IoBM
- Mr. Justice Jawad Akbar Sarwana
- Secretary, Universities & Board Department, Govt. of Sindh or his nominee
- Representative of Chairman HEC
- Dr. Muhammad Ali Shaikh, Vice Chancellor, Ziauddin University
- Mr. Muhammad Ali Tabba
- Mr. Masood Hashmi
- Dr. Tariq Rahim Soomro, Recor IoBM
- Dr. Muhammad Kashif, Dean CBM
- Dr. Muhammad Abbas, Dean CCSIS
- Dr. Nadia Ayub, Dean CESD
- Mr. Nabhan Shah Karim, Acting Director QEC (non-voting)
- Dr. Seema Ansari, Director ORIC, (non-voting)

Academic Council

The Academic Council is responsible for:

- Advising the Executive Council on academic matters
- Regulating the conduct of teaching, research, publications and examinations
- Regulating the admission of students to courses of studies and examinations at the Institute
- Regulating the conduct and discipline of the students of the Institute
- Regulating award of financial assistance, exhibitions, medals and prizes
- Formulating courses of study, syllabi and outlines of all examinations conducted by the Institute

External Members of the Council:

- Mr. Mazhar ul Haq Siddiqui
- MS Rukhsana Asghar
- Mr. Khalid M. Nagra



Board of Advanced Studies and Research

IoBM has a Board of Advanced Studies and Research (BASR) advice on matters related to postgraduate research and proposes regulations regarding the award of research degrees. BASR also appointed research supervisors and approved the synopsis of the thesis. In addition, approve the evaluator and examiners for the evaluation of the thesis.

Board of Studies

The following departments exist in the Institute:

College of Business Management (CBM)

Communication, Management, Marketing, Human Resource Management, Health & Hospital Management, Accounting and Finance, Environment & Energy Management, Risk Management, Industrial Management, Advertising & Media Management and MPhil Business Management

College of Computer Science and Information Systems (CCSIS)

Mathematics and Statistics, Computer Science & MIS and Actuarial Science

College of Economics and Social Development (CESD)

Business Psychology, Economics, Media Studies, Education, Policy & Area Studies.

College of Engineering and Sciences (CES)

Electrical (Electronics & Telecommunication), MS-Engineering Management and MS-Electrical Engineering

HoDs report to the Dean and the academic work of each department is governed by a departmental board of studies consisting of both internal and external members.

Foundation for Higher Education

Foundation for Higher Education was established in 1994 under the Societies Registration Act, 1860 as a non-profit institution committed to the provision of quality education in Pakistan. IoBM is the first educational institution established by the Foundation. Following are the members of the Foundation:

- Mr. Talib Syed Karim, President
- Ms. Sabina Mohsin, Vice President
- Dr. Mehtab Syed Karim
- Dr. Musarrat Hasan
- Mr. Mohsin Furquan
- Mr. Mehboob Syed Karim
- Mr. Nabhan Shah Karim
- Mr. Talha Syed Karim
- Mr. Masood Hashmi
- Mr. Naveed Qazi
- Mr. Amr Ali Karim

ACADEMIC CALENDAR

FALL 2026

Registration of Courses and Fee Payment (On board students)	Monday, August 31, 2026 Onwards
Orientation for newly admitted students	Saturday, September 12, 2026
Commencement of Classes	Monday, September 14, 2026
Midterm/Assessments	Monday, November 2, 2026 to Sunday November 8, 2026
Iqbal Day	Monday, November 9, 2026
Last day to drop courses without penalty*	Friday, November 20, 2026
Last day to drop courses with penalty**	Friday, December 4, 2026
Quaid-e-Azam's Birthday	Friday, December 25, 2026
Revision and Presentation Week	Monday, December 28, 2026 to Sunday, January 3, 2027
Classes End	Sunday, January 3, 2027
Final Exam	Monday, January 4, 2027 to Sunday, January 17, 2027

Exam/Assessments Schedule

Week	Exams	Dates
8th	Midterm/Assessments	Monday, November 2, 2026 to Sunday November 8, 2026
17th & 18th	Final	Monday, January 4, 2027 to Sunday, January 17, 2027

* As per HEC/IoBM refund Policy

** Grade 'W' will appear in Transcript

Note:

All dates are subject to change. Students will be informed of the changes well in advance.

The institute reserves the right to correct typographical errors or to adjust the Academic Calendar at any time it deems necessary.

SPRING 2027

Registration of Courses and Fee Payment (On board students)	Monday, January 18, 2027 Onwards
Orientation for newly admitted students	Saturday, January 30, 2027
Commencement of Classes	Monday, February 1, 2027
Kashmir Day	Friday, February 5, 2027
Eid-ul-Fitr*	Wednesday, March 10, 2027 to Friday, March 12, 2027
Pakistan Day	Tuesday, March 23, 2027
Midterm/Assessments	Monday, March 29, 2027 to Sunday, April 4, 2027
Last day to drop courses without penalty**	Friday, April 16, 2027
Last day to drop courses with penalty***	Friday, April 30, 2027
Labor Day	Saturday, May 1, 2027
Eid-ul-Adha*	Monday, May 17, 2027 to Tuesday, May 18, 2027
Revision and Presentation Week	Monday, May 17, 2027 to Sunday, May 23, 2027
Classes End	Sunday, May 23, 2027
Final Exam	Monday, May 24, 2027 to Sunday, June 6, 2027

Exam/Assessments Schedule

Week	Exams	Dates
9th	Midterm/Assessments	Monday, March 29, 2027 to Sunday, April 4, 2027
17th & 18th	Final	Monday, May 24, 2027 to Sunday, June 6, 2027

- * Subject to the appearance of moon
- ** As per HEC/IoBM refund Policy
- *** Grade 'W' will appear in Transcript

Note:

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SUMMER CRASH 2027

Registration of Courses and Fee Payment (On board students)	Monday, June 7, 2027 Onwards
Ashura*	Monday, June 14, 2027 to Tuesday, June 15, 2027
Commencement of Classes	Saturday, June 19, 2027
Midterm/Assessments	Saturday, July 10, 2027 to Thursday, July 15, 2027
Last day to drop courses without penalty**	Thursday, July 29, 2027
Last day to drop courses with penalty***	Thursday, August 12, 2027
Independence Day	Saturday, August 14, 2027
Eid Milad-un-Nabi (SAW)*	Sunday, August 15, 2027
Classes End	Sunday, August 15, 2027
Final Exam	Monday, August 16, 2027 to Sunday, August 22, 2027

Exam/Assessments Schedule

Week	Exams	Dates
4th	Midterm/Assessments	Saturday, July 10, 2027 to Thursday, July 15, 2027
9th	Final	Monday, August 16, 2027 to Sunday, August 22, 2027

* Subject to the appearance of moon

** As per HEC/IoBM refund Policy

*** Grade 'W' will appear in Transcript

Note:

All dates are subject to change. Students will be informed of the changes well in advance.

The institute reserves the right to correct typographical errors or to adjust the Academic Calendar at any time it deems necessary.

Institute of Business Management

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