Mohammad Ali Jinnah University

Prospectus 2017

Live, Learn and be Inspired!

Mohammad Ali Jinnah University
Karachi, Pakistan 1998
JINNAH

www.jinnah.edu

بسم الله الرحمن الرحيم

Welcome to the

Mohammad Ali Jinnah University

www.jinnah.edu

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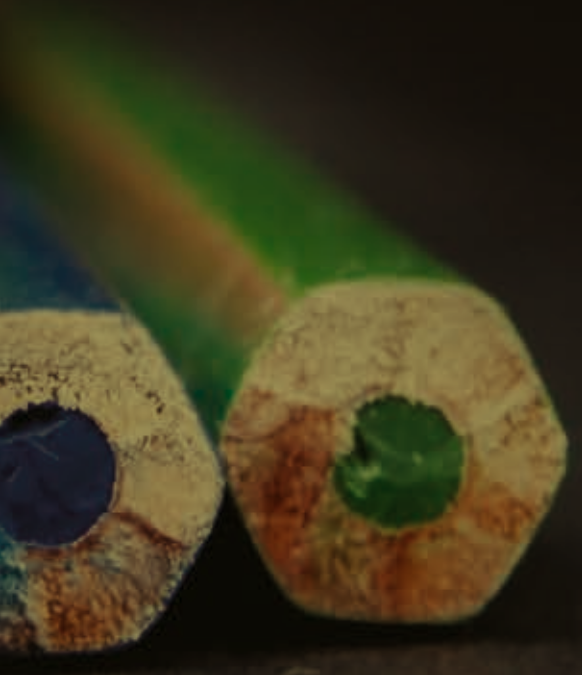
Mission

To be recognized as a leading institution for producing competent professionals who are instrumental in development of a prosperous society.

Vision

Mohammad Ali Jinnah University, through the pursuit of excellence in an ethical environment, is committed to providing to a diverse student population the intellectual and technological tools necessary to meet the challenges of the future.



Our Core Values

- Professional Integrity
- Teamwork & Leadership
- Punctuality & Discipline
- Conducive Learning & Research Environment
- Patriotism

Aims & Objectives

- To assist students in expanding their intellectual horizons by providing them with new skills and innovative ideas.
- To encourage students to be useful and equal partners in the new world order, by acquiring professional and technological skills that compare in all respects to international standards.
- To enrich the personal and professional acumen of students by appointing, recruiting and retaining a highly qualified and competent faculty.
- To provide facilities, resources and services that ensures an environment conducive to intellectual growth, research and learning for the students.
- To improve students' interpersonal communication, democratic leadership, analytical ability and creative thinking skills.

A Message From
The Chancellor

Mian Amer Mahmood

HILAL-E-IMTIYAZ
CHANCELLOR

Mr. Mian Amer Mehmood was born on 25 July in 1962 in Lahore, Pakistan. He is Chancellor of MAJU. After obtaining his MBA(CS) from the Punjab University, he chose to venture into the education sector of Pakistan, and launched the Punjab Group of Colleges (PGC) in 1985. He continued to serve people of Pakistan by opening many more institutes. He further established the following institutes:

- Punjab Law College (1987)
- Punjab College of Business Administration (1989)
- Punjab Institute of Computer Science (1993)
- Mohammad Ali Jinnah University (1998)
- The University of Central Punjab (2002)
- Resource Academia School System (2003)
- Allied Schools (2010)
- Dunya News (2008)

TODAY OUR WORLD IS IN A STATE OF FLUX; INFORMATION TECHNOLOGY HAS CHANGED VIRTUALLY EVERY FACET OF OUR LIVES, AND AN EVER-EVOLVING BUSINESS ENVIRONMENT AFFECTS EACH AND EVERY ONE OF US. IN ORDER TO KEEP PACE WITH THESE UNRELENTING CHANGES, WE MUST CONTINUE TO ACQUIRE THE SKILLS AND KNOWLEDGE REQUIRED TO EMBRACE THE INNOVATIONS THAT ARE ENGULFING THE GLOBAL ECONOMY.

As a developing nation, it is imperative that we acquire professional management, technical and research skills in order to allow our nation to be able to compete in today's global arena. We must expand our intellectual horizons so that our country can become an equal participant in the global village that the technology of the 21st century has created.

By choosing Mohammad Ali Jinnah University (MAJU), you have assured yourself of an educational experience, which will enrich your personal life, and empower you professional life. We are committed to providing a stimulating and supportive environment, which allows each student to gain confidence and maximize their potential in their chosen field, be it business, engineering or computer science. Our educational programs and courses are designed to keep pace with the latest strides in technology and business.

Our faculty is eminently qualified, and is dedicated to equipping our younger generation with the essential academic, professional and personal skills required to compete in today's challenging employment environment. I welcome you to our institution, where you will not only gain practical knowledge in your chosen field, but also learn to lead, and serve humanity. We hope your stay with us will be a memorable one.

A Message From

The President

ENGR. DR. ZUBAIR AHMED SHAIKH

PRESIDENT

Prof. Engr. Dr. Zubair Ahmed Shaikh is a well recognized and highly innovative professional with over 20 years of experience as a senior administrator, academician, researcher, and IT / IS consultant for large scale complex business problems, for Wall Street and other National & International organizations. His expertise are to E-governance, educational planning, IT and technical & vocational education.

He is a PhD & MS (Computer Sc., New York, USA), and B.Engg in Computer Systems Engineering with over 15 years of experience as an IT consultant. He has previously served as the Dean & Director of FAST National University, founding Dean of DHA Suffa University, KIIT, Isra University and GIK Institute of Engineering. He has also worked as ED Sindh Teacher Education Development Authority and has worked as consultant for KIB, EU & CIDA.

THIS UNIVERSITY IS RIGHT IN THE HEART OF ONE OF THE MOST VIBRANT COSMOPOLITAN CITIES OF THE WORLD, IS ABOUT BOTH PEOPLE AND PLACE.

MAJU (AS WE ARE POPULARLY KNOWN) STRIVES TO LIBERATE STUDENTS AND FACULTY TO EXPLORE, CREATE, CHALLENGE, AND BECOME EFFECTIVE LEADERS. WE EMPOWER OUR STUDENTS BY HELPING THEIR VISIONS AND DREAMS GROW THROUGH SHARED VALUES, DIVERSITY, EXPERIENCE, RESPECT, AND FAITH. WITH SPECIAL PROGRAMS AND COMMUNITY OUTREACH PROGRAMS AVAILABLE AND ENCOURAGED, THE CURRICULUM AND OPPORTUNITIES AT MAJU ARE BOTH EXCITING AND ASPIRING.

The MAJU in recent days has initiated a mega transformation phase to make this university a top-ranking university of the region. We are enhancing the outlook of our faculty who are the top brains being drawn from all over the world to teach, perform, create, and study in a place where everyone belongs. The Industry faculty having minimum 10 years of experience are partnering with us by bringing in the diversity and practical exposure to our students. Technology and business incubators for our graduates and faculty are being created to develop a techno-preneurial eco system.

The Academic programs at MAJU are designed from Bachelors to PhD in disciplines of Management Sciences, Accounting, Economics & Finance, Computing Sciences, Electrical & Computer Engineering, Information Systems, Media Sciences and very soon other disciplines too. With an FM Radio station and partnerships with other leading Universities, we are initiating blended / distance education programs in diverse areas at MAJU. With flexible course plans one can craft his/her own Degree plans and majors.

As the President of MAJU, I believe in giving you a dream, and environment to accomplish your academic and professional goals: may you be a student, a faculty, a non-teaching staff member, an industry collaborator, an alumnus, a parent or just a passerby. Once you step in, you are part of our MAJU fraternity. We are also an important part of one of the largest educational conglomerate of Asia comprising of 3 universities, a college network of over 800 colleges and a network of over 3500 schools.

I hope you find Mohammad Ali Jinnah University as exhilarating and enriching as I do.

BOARD OF **GOVERNORS**

S. #	Name	Designation
1	Mian Amer Mahmood, HI	Chairman
2	Dr. Mukhtar Ahmed, Chairman, HEC	Member
3	Riaz Memon, Secretary Education, Sindh	Member
4	Prof. Sohail Afzal, MAJU Trust's Nominee	Member
5	Prof. Dr. M. Mansoor Ahmed, VC, CUST, MAJU Trust's Nominee	Member
6	Mr. Ali Muhammad G. Shaikh, MAJU Trust's Nominee	Member
7	Dr. S. M. Qureshi, MAJU Trust's Nominee	Member
8	Mr. Aslam Sanjrani, MAJU Trust's Nominee	Member
9	Barrister Shahida Jamil, MAJU Trust's Nominee	Member
10	Dr. Ali Muhammad Ansari, Chairman's Nominee	Member
11	Dr. Maham Munir, Chairman's Nominee	Member
12	Engr. Dr. Zubair A. Shaikh, President, MAJU, Chairman's Nominee	Member
13	Mr. Irfan Hussain, Director Finance	Secretary

ACADEMIC **COUNCIL**

S. #	Name		Designation
1	President		Chairman
2	All Deans	Ex-officio	Member
3	All Directors	Ex-officio	Member
4	Dr. M. Mansoor Ahmed	Vice Chancellor, CUST Board's Nominee	Member
5	Mr. Muhammad Ali Shaikh	President IBFI & Former Senior Executive of IBP Board's Nominee	Member
6	Dr. Faizullah Abbasi	VC, Dawood University Chancellor's Nominee	Member
7	Dr. M. Shahid Shaikh	Dean, Habib University Chancellor's Nominee	Member
8	Prof. Dr. Shafiq-ur-Rehman	HoD Economics& Social Sciences	Member
9	Mr. Hasnian Alam Kazmi	HoD Management Sciences	Member
10	Dr. Syed Ghazanfar Monir	HoD Electrical Engineering	Member
11	Dr. Syed Khaliq Raazi	HoD Computer System Engg.	Member
12	Dr. Shokat Wasi	HoD Computer Sciences	Member
13	Mr. Asif Saeed Naji	HoD Finance	Member
14	Dr. Shafqat Bukhari	Professor	Member
15	Dr. Ahmed Ali Shah	Professor	Member
16	Dr. M. Arif Hussain	Professor	Member
17	Controller of Examination	Ex-officio	Member
18	Librarian	Ex-officio	Member
19	Registrar	Ex-officio	Secretary

MAJU Genesis

The Punjab Group of Colleges (PGC) has been serving the community with quality education since 1985. The Punjab College of Commerce was the first institution established by the Group in Lahore. The Group continues to expand its horizons by establishing branches in various cities of the Pakistan. Under the umbrella of the PGC, Punjab College of Business Administration (PCBA) and Punjab Institute of Computer Sciences (PICS) have emerged as highly specialized business and computer science institutions. Punjab Law Colleges, Punjab Colleges of Information Technology and Punjab Colleges of Sciences are some more links to this rapidly expanding chain of colleges.

Besides the colleges all over the country, the group has also established three universities: the University of the Central Punjab, Lahore and Mohammad Ali Jinnah University (MAJU), Karachi through provincial Charters. Now the third one has been established at Islamabad with the name of Capital University of Science and Technology (CUST) which is a great contribution of the PGC in the higher education sector.

The Charter Inspection and Evaluation Committee of the Government of Sindh has ranked Mohammad Ali Jinnah University as "Very Good" (5 Star).

Why to Choose MAJU?

With outstanding teaching, curriculums and research initiatives, we are extremely proud to attract admissions at MAJU. Discover why discerning students and seasoned professionals from all corners of Pakistan choose Education at MAJU year after year.

Faculty

With a strong reputation for teaching, research, community work, and industry engagement, MAJU faculty is highly competent and educated having more than 25 doctoral and 32 master degrees from U.S.A., Canada, U.K. and reputed institutions in Pakistan. Dedicated to academic excellence and motivated to inspire students, the faculty includes some of the best educationists in the country. Faculty members are encouraged to work on research projects and involve students in their research. Students actively participate in these projects to apply the knowledge acquired in the classroom. Our faculty uses innovative teaching methods to produce graduates that are well prepared to cope up the challenges a productive human resource must face in today's dynamic work environment.

Contemporary Courses

MAJU offers an array of prominent undergraduate, postgraduate, research and professional development courses. Our students study through a range of learning modes. We continually adapt and refine each curriculum in response to international, national and local demands. And we continue to enrich our program suite to meet the needs of students pursuing careers outside the formal education sector.

MAJU is constantly updating its curriculum to ensure that it is always in-line with the demand of time. The programs are tailored not only for the popular market, but also for the real need of our country's economy and manpower development. In addition to pure academic programs, MAJU offers training programs, seminars and workshops.

Professional Experience

The MAJU Professional Experience Model is based on an understanding that practice is complex and must be responsive to change. Central to all our programs, the model promotes collaboration across professions and the university to create meaningful learning environments. As such, professional experience is critical to ensuring our students learn about practice.

Research Focus

Moreover, MAJU views research as one of its core responsibilities and is deeply conscious of the fact that research and development are the main tools, which countries use to transform their developing economies into developed nations. MAJU is investing heavily in facilities, technology and faculty development to promote research in a meaningful and purposeful manner. We are incredibly proud of our acclaimed research fellows and the rigorous investigations they passionately pursue. The Faculty maintains healthy enrolments in our research programs and the diversity of students in our postgraduate program continues to evolve.

Engagement

MAJU has close ties with many influential partners within Pakistan and around the globe. These strategic alliances are central to the ongoing improvement of our teaching and research expertise.

We firmly believe that students should be given an exposure to real life experiences and situations along with classroom instructions. To achieve the objective of engaging with industry, we frequently invite heads of reputed national and multinational organizations to share their experiences with our students.

We also enjoy a strong academic alliance with Microsoft Dynamics, Tameer Commonwealth of Pakistan, Madadgar, AiSoft USA, CISCO, SAP, Microsoft and AIMS USA. This gives our students an updated knowledge of the various trends in the industry, so that they are well equipped to serve when they enter the practical fields.

Our Strength at a Glance

- Foreign PhD Faculty and Industry Professionals as Faculty
- Well Equipped Labs
- Competitive Curriculum
- Conducive Learning & Research Environment
- Entrepreneurial Training
- Seminar, Workshops and Colloquiums
- Industrial Collaborations
- Personality Grooming
- Ethical Orientation
- Projects & Case Based Studies
- Inspiration for Community Service
- Talent Appraisal and Scholarships
- Continuous Quality Improvement

Admissions **Information**

MAJU announces admissions in different degree programs in Fall and Spring semesters, usually in the month of June and December of calendar year. Admissions in Bachelors Engineering degree programs are offered only once in December every year.

The admission in each degree program is based on:

a) Past academic record
b) Performance in MAJU admission test / NTS
c) Interview

Result Awaiting Candidates

Result awaiting candidates can also apply for the admission, but they are required to fill out the certificate certifying that:

a) They have already appeared in the exam on the basis of which they are seeking admission.

b) They will obtain the minimum percentage required for admission in the program of their choice. Failing to do so, their admission shall be cancelled or they may be required to transfer to any other discipline where the admission requirements are met.

c) They will provide a copy of the result as soon as it is announced, but not later than the completion of the first semester, attested by the board/HEC whichever is applicable. In case they fail to do so, their admission may be cancelled and no fee refund/adjustment will be made.

Fee Structure

Admisison Fee	
Admission Fee	Rs. 15,000 (Payable once at the time of admission)

Tution Fee	
Programs	Per Cr. Hr.
Bachelor of Engineering	Rs. 4,200/- Cr. Hr.
Bachelor of Media Sciences	
All other Programs	Rs. 3,850/- Cr. Hr.

Other Fee	
Semester Freeze Fee	Rs. 3,000/-
Degree Fee	Rs. 2,000/-

Fee Details

Programs	Courses	Cr. Hrs.	Fee (Rs.) per semester
BBA BS (Accounting & Finance) BS (Computer Science) BS (Software Engineering) BE (Electrical Engineering) BE (Computer Systems Engineering)	5 – 6	15 - 18	57,750 – 69,300
			63,000 – 75,600
MCS MBA (Professional) MBA (Regular)	4 – 5	12 – 15	46,200 – 57,750
MBA (Graduate) MS (Project Management) MS (Computer Science) MS (Electrical Engineering) MS (Management Science) MS (Economics & Finance)	3 – 4	9 – 12	34,650 – 46,200
PhD. (Management Science) PhD. (Electrical Engineering) PhD. (Computer Science)	2 – 3	6 – 9	23,100 – 34,650

Fee Refund Policy

If a 1st semester student decides to withdraw from the University after having registered he/she shall be entitled for full tuition fee refund provided that:

- Admission Fee is non-refundable.
- The withdrawal is requested, in writing, within 7 calendar days of the start of semester.
- If the applicant was a result awaiting candidate and failed to achieve minimum percentage required for the program then he must request for refund within 1st week after the announcement of result.

Assessment of Tuition Fee

- Fee shall be charged per credit hr as determined by the university from time to time.
- Tuition fee for the registered courses shall be paid within due time period to validate the registration.
- A student with fee default status shall not appear in the attendance roll and there shall be no attendance correction afterwards.
- If the fee is not paid, within the prescribed time, the registration of the course(s) shall stand cancelled.
- For all practical purposes cancelled course(s) shall be deemed as if they were never registered.

Credit Transfer Policy

- Transfer credits may be accepted for work completed at a recognized Pakistani or foreign university and an original transcript issued by the university which administered the examination shall be submitted.
- Only those courses/credits shall be transferred in which the candidate has got grade B or higher and they can be part of applicants' degree program at MAJU.
- Each transfer credit case shall be examined on its merit by the Admission Department in consultation with the respective HoD.
- Accepted credit hours, without grades, shall appear on the transcript.
- Maximum credits transferred shall not exceed 50% of the total credit hours required for the degree program.
- The department has the exclusive right to accept or reject any request of transfer of course / courses.
- A student with transfer credit hours shall not be eligible for a university medal.

Add / Drop

- A student may add or drop a course within first 2 weeks of the semester. A course dropped will be deemed as if it was never registered.

Withdrawal

- If a student decides not to continue in a course, and add/drop time has expired, he/she may withdraw from the course within twelve weeks from the start of the semester.
- A course withdrawn will be reported on the transcript with a W status.
- A withdrawn course shall not be counted towards the calculation of GPA.
- A withdrawn course shall be treated as a registered course for the evaluation of tuition fee.

Repeat & Substitute a Course

- Repeated courses shall replace originally taken course in the transcript. However, in the remarks section repeat counted shall be mentioned.
- A student may substitute an elective course with another elective course. Such a substitution shall be treated as a repeat course.
- A student can repeat not more than 6 courses in undergraduate program and 3 courses in graduate program within permitted time duration but prior to the degree completion.
- Substitution shall be allowed, with the recommendation of HoD and approved by the dean, at the end of a degree program.

Semester Freeze

- A student, under special circumstance, may apply for a semester break to the concerned HoD. However, to maintain his/her registration the student has to pay the semester break fee as determined by the university from time to time.
- A student who is not registered in a semester shall lose his registration if he/she is not on semester freeze.
- A consecutive two-semester non registered status shall lead to the cancellation of admission.
- A student with cancelled admission is required to apply for readmission on the prescribed form.
- A re-admission case shall only be considered if it is within the maximum time duration allowed for a degree program.

For Bachelor's Program	Criteria	Scholarship (In Tution Fee)
Merit scholarships on Intermediate marks for all Bachelor Programs	80% or Above	100%
	75% to 79.9%	75%
	70% to 74.9%	50%

For Master's Program	Criteria	Scholarship (In Tution Fee)
Merit scholarships on Undergrad Grades (For MBA only)	80% or Above	50%
	70% to 79.9%	25%

Subsequent continuation of above scholarships is based on semester based academic performance **AND** on taking full teaching load without any interruption of studies.

	Criteria	Scholarship (In Tution Fee)
Academic Performance Based Scholarship	4.00 GPA	100%
	3.9 to 3.99 GPA	50%
	3.75 to 3.89 GPA	25%

	Admission Fee Waiver	Tuition Fee Waiver
Scholarship for Professional Bodies Students (ICMAP, ACCA, PIPFA)	33%	10%

	Admission Fee Waiver	Tuition Fee Waiver
Scholarship for World Memon Organization (WMO) (Sponsored Student)	100%	20%

1. Scholarship on Kinship
2. Scholarship to MAJU Alumnus
3. Scholarship to PGC Students

Tuition Fee Waiver
25%

4. Need Cum Merit Based Scholarship
5. Scholarship Grants from Industry

} Subject to approval of Financial Aid Committee

Programs Offered

Academic Programs	Eligibility	Minimum Duration
BBA BS (Economics) BS (Accounting & Finance) BS (Media Sciences)	Intermediate / A-levels or equivalent with minimum 45% marks	4 Years
BS (Computer Science) BS (Software Engineering)		
BE (Electrical Engineering) BE (Computer Systems Engineering)	Intermediate / A-levels (Pre-Engg) or equivalent with minimum 60% marks	
MCS	Graduation in any discipline with minimum 45% marks or CGPA of 2.0	2 Years (equivalent to 16 years of education as per HEC criteria)
MBA (Professional)		
MBA (Regular)		3.5 Years (equivalent to 18 years of education as per HEC criteria)
MBA (Graduate)	16 years Graduation in any discipline with minimum 45% marks or CGPA of 2.0	1.5 – 2 Years
MS (Project Management)		
MS (Computer Science) MS (Project Management) MS (Electrical Engineering) MS (Management Science) MS (Economics & Finance)	16 years Graduation in relevant discipline with minimum 50% marks or CGPA of 2.0	
PhD. (Management Science) PhD. (Electrical Engineering) PhD. (Computer Science)	17 / 18 years of relevant education with minimum CGPA of 3.0 or equivalent	3 – 4 Years

Deficiency Courses may be applied in MBA Graduate, MS and PhD Programs.
Result awaiting applicants can also apply.

Selection Criteria:

- Admission Test + Past Academic Performance
- Interview (for MBA / Masters and PhD only)

All Bachelors' classes are held in Morning.
All Master's classes are held in Morning and weekends.

Academic Calendar Spring 2017

Admission Announcement	Sunday	December 18, 2017
Pre - Admission Seminar	Saturday	January 07, 2017 at 06:00 pm
Last Date to Receive Application Forms	Friday	January 13, 2017
Admission Tests (All Programs)	Online	Jan 15 - 22, 2017
Last Date to Deposit Fee	Friday	January 27, 2017
Orientation for New Intake (Morning)	Saturday	January 28, 2017 at 11:00 am
Orientation for New Intake (Evening & Weekend)	Saturday	January 28, 2017 at 06:00 pm
Commencement of Classes	Monday	January 30, 2017

Admission Schedule Fall 2017

Admission Announcement	Sunday	June 18, 2017
Pre - Admission Seminar	Saturday	July 22, 2017 at 11:00 am and 06:00 pm
Last Date to Receive Application Forms	Friday	July 28, 2017
Admission Tests (All Programs)	Sunday	July 30, 2017
Test Result	Tuesday	August 1, 2017 at 03:00 pm
Interviews	Thursday & Friday	August 3 & 4, 2017
Merit List Announcement	Monday	August 7, 2017
Last Date to Deposit Fee	Saturday	August 19, 2017
Orientation for New Intake (Morning)	Saturday	September 16, 2017 at 11:00 am
Orientation for New Intake (Evening & Weekend)	Saturday	September 16, 2017 at 06:00 pm
Commencement of Classes	Monday	September 18, 2017

Admission Schedule Spring 2017

Date	Days	Week	Activity
9th – 16th January	Mon – Mon		Online Registration and Fee Deposit
28th January	Sat		Orientation New Intake
30th January	Mon	1	Start of Classes
27th March – 2nd April	Mon – Sun	9	Mid Term Examination
3rd April – 14th April	Mon – Fri	10	Mid Term Course Evaluation
5th April	Wed	10	Mid Term Result Notification
13th May	Sat	15	Last Date to Withdraw
28th May	Sun	17	End of Classes
29th – 30th May	Mon – Tue	18	Exam Preparation Break
30th May (04:00 PM)	Tue	18	Last Date for Correction in Pre-Finals
31st May – 6th June	Wed – Tue	18 & 19	Final Exam
9th June	Fri	19	Grades Notification

Note: All gazetted national holidays are observed.

Academic Calendar –Fall 2017

Date	Days	Week	Activity
31st Aug – 10th September	Thu – Sun		Online Registration and fee deposit
16th September	Sat		Orientation New Intake
18th September	Mon	1	Start of Classes
13th – 19th November	Mon – Sun	9	Mid Term Examination
20th – 24th November	Mon – Fri	10	Mid Term Course Evaluation
22nd November	Wed	10	Mid Term Result Notification
30th December	Sat	15	Last date to withdraw
14th January , 2018	Sun	17	End of Classes
15th –16th January , 2018	Mon – Tue	18	Exam Preparation Break
16th January, 2018 (04:00 PM)	Tue	18	Last date for correction in pre-finals
17th – 23rd January, 2018	Wed – Tue	18 & 19	Final Exam
26th Jan, 2018	Fri	19	Grades Notification

Note: All gazetted national holidays are observed.

FACULTY OF
BUSINESS ADMINISTRATION AND SOCIAL SCIENCES

Dr. Shujaat Mubarak

ASSOCIATE DEAN
FACULTY OF
BUSINESS ADMINISTRATION
& SOCIAL SCIENCES

THE FACULTY OF BUSINESS ADMINISTRATION AND SOCIAL SCIENCES AIMS AT PRODUCING GRADUATES WHO CAN LEAD AND GUIDE THE SOCIETY WITH VISION AND HAVE THE ABILITY WITH APPROPRIATE TRAINING TO MANAGE ITS RESOURCES EFFECTIVELY.

A special emphasis has been given on business curriculum to create managers with high competence and ethical values. A unique combination of classroom experience and corporate training has been adopted in business studies to create managerial skills, confidence building and decision making. Our graduate programs provide a good research opportunity to MBA, MS and PhD students. We are proud to claim that the alumni of the faculty are serving in different national and multi-national organizations with professional zeal and competence.

The faculty of Business Administration comprises of three departments: Department of Management Science, Department of Economics and Social Sciences and Department of Finance.

Department of Management Science focuses on applied industry specific degree in business leading to Bachelor of Business Administration, BS Media Sciences, and Master of Business Administration. It also offers advance degrees of MS, & PhD in major areas of Management Sciences.

The department of Economics and Social Sciences offers BS Economics and Masters in Economics & Finance.

The department Finance offers an undergraduate program of BS (Accounting and Finance).

DEPARTMENT OF **MANAGEMENT SCIENCES**

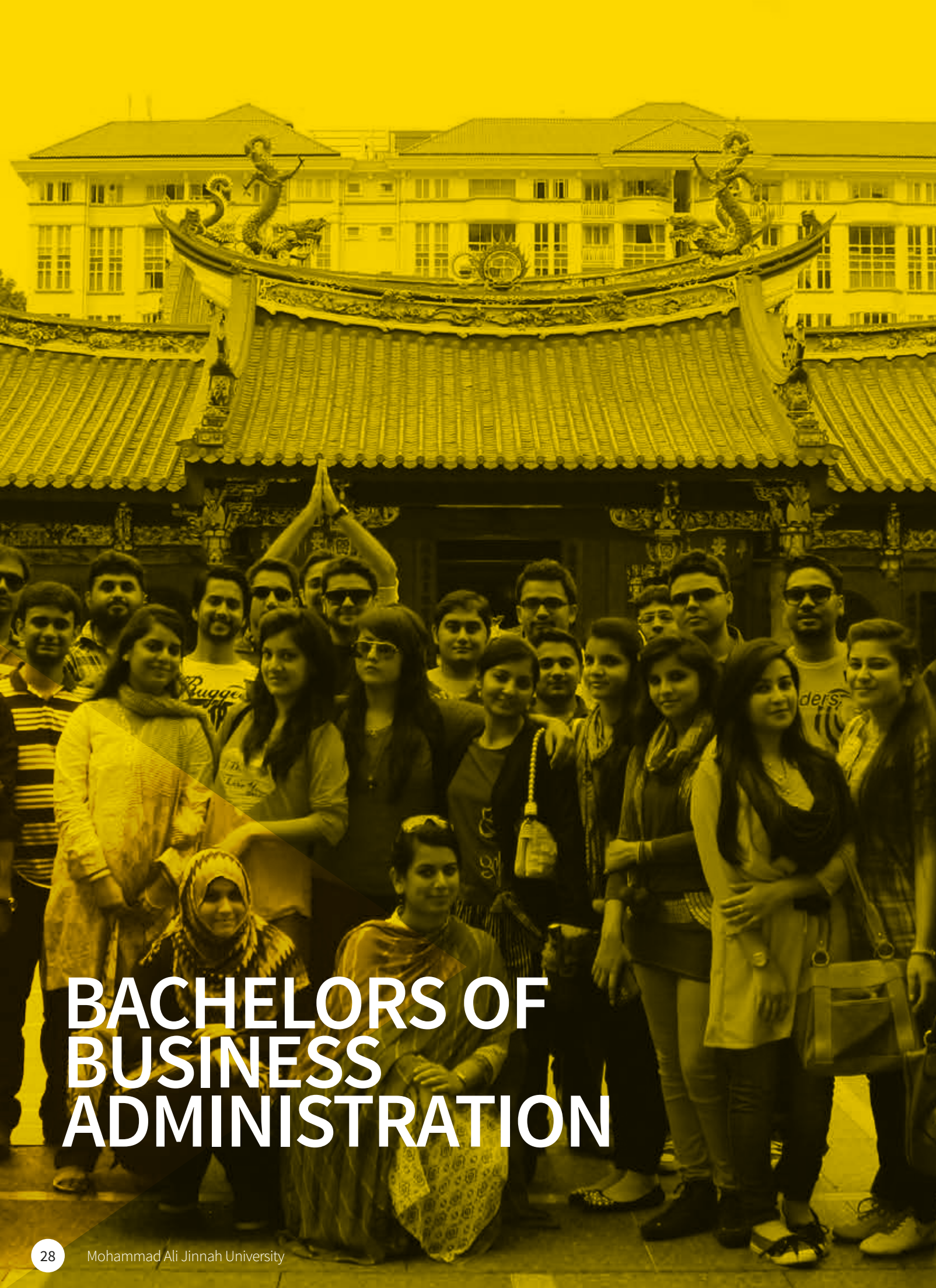
Mr. Hassnian Alam Kazmi

HEAD OF DEPARTMENT OF MANAGEMENT SCIENCE

DEPARTMENT OF MANAGEMENT SCIENCES OFFERS PROGRAMS, WHICH EXPLORE IN-DEPTH RELATIONSHIPS BETWEEN ACADEMIC TEACHING AND REAL LIFE MANAGEMENT PROBLEMS. IT COMBINES EXCELLENCE IN RESEARCH WITH STATE-OF-THE-ART CAMPUS FACILITIES AND A FULL SPECTRUM OF UNDERGRADUATE, POSTGRADUATE AND PHD PROGRAMS.

It helps students to develop skills to collect pertinent information, analyze it and derive meaningful inferences for decision-making. The case study method of imparting knowledge is used to maintain the pace of each program at a rigorous level to prepare students for effectively handling the challenges of a modern day workplace. Course contents are carefully selected by highly qualified professionals at different levels to ensure a comprehensive coverage of all aspects of managing a dynamic business. Due emphasis is placed upon development of entrepreneurial spirit and leadership qualities that are essential parts of the curriculum at all levels.

The Department maintains regular contact with reputable business houses through seminars, membership of related committees, internship programs, and job placement services to help open the doors for meaningful job opportunities for our students.



BACHELORS OF BUSINESS ADMINISTRATION

Program Objectives

BBA program is especially designed to meet industry requirements in a changing global corporate environment and provides the right tools that allow students to achieve their career objectives. Being highly-regarded, the program opens up a world of opportunities for students who wish to develop a career locally or internationally. With more emphasis on project based work, the unique feature of this BBA program helps the students to come up with meaningful solutions. This gives them the essential exposure to the manner in which a business would operate in Pakistan.

Eligibility

- Higher Secondary School Certificate or Equivalent securing at least 45% marks in aggregate

Selection Criteria

- MAJU Admission Test

Specializations

- Finance
- Marketing
- Human Resource Management
- Supply Chain Management
- MIS
- Media Management

Internships

- All students have to undergo a mandatory 6-8 weeks internship arranged by the placement office. The internship is normally taken after passing 60 Credit Hours. The internship is closely monitored by an internship coordinator. Successful completion of internship is a mandatory requirement for graduation.

Duration

- This is a four year degree program comprising of 8 semesters. There are two semesters every year: Fall and Spring. The summer semester is utilized for Business research projects; Internship or deficiency courses. The maximum duration to complete the BBA program is 7 years

Business Project

- It is mandatory for every student to complete a Business Research Project following the 7th semester after the completion of 117 credit hours of course work.

Degree Requirement

- Minimum CGPA 2.0
- Business Project 03 Credit Hours
- Internship

Plan of Study BBA

Semester-I			Pre-Req
MATH2023	Business Mathematics	3	-
GSA1003	Freshman English	3	-
IT2003	Computer Concepts & Applications	2+1	-
ECON7013	Microeconomics	3	-
ACCT2003	Principles of Accounting I	3	-
MGMT7003	Principles of Management	3	-
Total		18	

Semester-II			Pre-Req
OM2003	Business Statistics	3	MATH2023
GSA1303	English Grammar	3	GSA1003
GSA2083	Foreign Language	3	-
MIS2003	MIS	3	-
ECON7023	Macroeconomics	3	-
ACCT2013	Principles of Accounting II	3	ACCT2003
Total		18	

Semester-III			Pre-Req
GSA2123	Business Ethics/Islamic Studies	3	-
ACCT5123	Cost & Management Accounting	3	ACCT2013
COMM3013	Oral Communication	3	GSA1003
MKTG2003	Principles of Marketing	3	-
GSA2153	Principles of Psychology	3	-
XXXXX	General Elective I	3	-
Total		18	

Semester-IV			Pre-Req
XXXXX	Development Economics	3	-
COMM3003	Principles of Sociology	3	GSA1003
FIN7063	Introduction to Business Finance	3	ACCT2013
MKTG7073	Marketing Management	3	MKTG2003
XXXXX	Pakistan Studies	3	-
XXXXX	General Elective II	3	-
Total		18	

Semester-V			Pre-Req
GSB2133	Business Communication	3	-
FIN5053	International Trade	3	MGMT7003
HRM7003	Introduction to Logic	3	-
ECON2023	Money and Banking	3	-
GSA2043	General Elective III	3	-
Total		15	

Semester-VI			Pre-Req
GSB2103	Human Resource Management	3	ECON7023,
GSD5623	Specialization I	3	ECON7013
MGMT5783	General Elective IV	3	MKTG7073
FIN7033	Supply Chain Management	3	MKTG2003
MGMT5443	General Elective V	3	-
Total		15	

Semester-VII			Pre-Req
MGMT5013	Financial Management	3	-
XXXXX	Business Research Methods	3	-
XXXXX	Business & Corporate Law	3	-
XXXXX	Specialization II	3	-
XXXXX	Entrepreneurship	3	-
Total		15	

Semester-VIII			Pre-Req
XXXXX	Strategic Management	3	-
XXXXX	Specialization III	3	-
XXXXX	Specialization IV	3	-
XXXXX	Floating Elective	3	-
BUS4003	Business Project	3	-
Total		15	

Total 132 Credit hours

* Students can take business project subject to earning of minimum 117 Credit hours and CGPA 2.0.

Specialization Electives

Specialization Electives

Marketing

Course Title	Cr. Hrs.
Advertising	3
Brand Activation	3
Brand Management	3
Customer Relationship Management	3
Event Management	3
Product Management	3
Public Relations	3
Sales Management	3
Services Marketing	3

Supply Chain Management

Course Title	Cr. Hrs.
Business Process Re-Engineering	3
Change Management	3
Distribution & Channel Management	3
International Logistics & Global Supply Chain Management	3
Inventory Control & Material Management	3
Quality Management & Lean Six Sigma	3
Retail Management	3
Strategic Supply Chain Management	3
Total Quality Management	3
Vendor Management	3
Warehouse Management	3

Specialization Electives

Finance

Course Title	Cr. Hrs.
Advanced Accounting	3
Corporate Finance	3
Financial Derivatives	3
Islamic Finance	3
Portfolio Management	3
Security Analysis	3
Current Issues in Banking	3
Banking Audit, Control & Compliance	3
Consumer Credit Analysis	3
Investment Banking	3
Retail Banking	3
Banking Laws & Practices	3

Human Resources Management

Course Title	Cr. Hrs.
Career Development	3
Human Resources Information System (HRIS)	3
Organizational Development	3
Performance Management	3
Personal Management	3
Public Relations	3
Recruitment & Selection	3

Specialization Electives

MIS

Course Title	Cr. Hrs.
Business Intelligence	3
Business Process & Simulation	3
Certified Information System Management	3
Certified Information System Security	3
Customer Relationship Management	3
E-Banking System	3
Enterprise Resource Planning	3
Expert System	3
Information Technology Infrastructure Library	3
IT Resource Management	3
Knowledge Management	3
Operation Research	3
Advance System Analysis & Design	3

General Electives (18 Cr. Hrs.)

Course Title	Cr. Hrs.
Business Leadership	3
Consumer Behavior	3
e-Business Applications	3
ERP	3
Islamic Banking	3
Laws of Taxation	3
Operations Management	3
Statistical Inference	3

Specialization Electives

Media Management

Course Title	Cr. Hrs.
Communication and Media Technologies	3
Entertainment Law & Media Ethics	3
Global Media Marketing Strategies	3
Screenwriting for TV & Cinema to Media in Pakistan	3
Digital Video Production	3
Seminar in Strategic Media Marketing	3
Media Marketing in a Global Environment	3
The Business and Economics of the Film Industry	3
Managing Electronic Broadcast Industries	3
Media Contract Drafting & Negotiations	3
Music and Publishing Industries	3
Managing Print Industries	3

General Education & Support Courses

Course Title	Cr. Hrs.
Business Ethics / Islamic Studies	3
Development Economics	3
English Grammar	3
Entrepreneurship	3
Foreign Language	3
Freshman English	3
International Trade	3
Introduction to Logic	3
Oral Communication	3
Organizational Behavior	3
Pakistan Studies	3
Principles of Psychology	3
Principles of Sociology	3

BACHELORS OF SCIENCE

Media Science

Program Objectives

The BS degree in Media with a concentration in Media Sciences is offered through, the Faculty of Business Administration and Social Sciences. In pursuing the degree, students will learn, observe, ask questions and test answers concerning the ways in which mass media messages make meaning in any platform, from tweets to television to big budget films.

The BS Media Science program is immaculately designed to fulfil the Media industry's requirements in an evolving professional environment. It will offer the precise tools that enable students for professional practice in order to achieve their career objectives. The program will provide multitude of opportunities to students who desire to develop a career in Media. With focus on practical exposure, the attributes of this BS program will facilitate students in acquiring critical experience in which Media industry operates in Pakistan. Moreover, numerous professional seminars as well as conceptual and technical workshops will be conducted where top influencers and decision makers from the Media industry will be invited to publicize their insights. Via the BS Media program, we will empower our students to have multidimensional understanding of the Media sphere which qualifies them to deal with challenges and seek opportunities in their careers in leading Media organizations.

The Program Objective is to develop Media Sciences professionals with world class competencies and ethical standards. The aim is to provide opportunities for young professionals to acquire undergraduate academic degree along with professional expertise in Media Sciences.

Learning Outcomes

- The students of the BS Media Sciences program will master critical thinking and creative skills which will prepare them to enter a variety of careers.
- This program will give them the essential skills to work in the corporate world where they will create content, analyze the reception of mass media messages and conduct a variety of media research.
- The students will also gain understanding of the feasibility of their work in the contexts of visual, audio, textual and motion picture media.
- The program employs cutting-edge technology and accessible teaching methods to provide an engaging learning environment that prepares the students for the fast-paced and rapidly changing media and communication industries. MAJU Media program is also distinctive because it gives students the opportunity to undertake a broad mix of subjects.

Eligibility

- Higher Secondary School certificate or Equivalent securing at least 45% marks in aggregate.
- Admission Test/NTS as per HEC Policy.

Selection Criteria

- MAJU Admission Test
- Interview

Specializations

- Modern Journalism
- Production
- Communication Design

Duration

- This is a 4 years degree program comprising of 8 semesters.

Final Year Projects and Internship

- It is mandatory for every student to complete 3 Credit hours two Projects after the completion of 98 credit hours course work and an Internship after 4th semester.

Degree Requirements

- Passing all courses totalling at least 130credit hours and completing an Internship.
- Obtaining at least 2.0 CGPA of 4.00

Study Plan of BS (Media Sciences)

Semester-I			Pre-Req
HM1011	Freshman English	3	-
MG1011	Principles of Management	3	-
XXXX	Photography	4	-
XXXX	Introduction to Design Tools	4	-
XXXX	Introduction to Mass Media	3	-
Total		17	

Semester-II			Pre-Req
XXXX	Broadcast Journalism	3	-
XXXX	Intro. to Advertising & PR	3	-
HM1032	Foreign Language	3	-
XXXX	Motion Graphics	4	-
HM1022	English Grammar	3	-
Total		16	

Semester-III			Pre-Req
XXXX	Functional Urdu	3	-
XXXX	Mass Media in Pakistan	3	-
XXXX	Page Makeup & Design	4	-
HM2043	Islamic Studies	3	-
XXXX	Feature, Column & Editorial Writing	3	-
Total		16	

Semester-IV			Pre-Req
XXXX	Script Writing	4	-
XXXX	Production Management	4	-
HM 2048	Pakistan Studies	3	-
XXXX	Copy Writing and Editing	3	-
XXXX	Current Affairs	3	-
Total		17	

Semester-V			Pre-Req
XXXX	Digital Media	3	-
XXXX	Screenplay Writing	3	-
XXXX	News Writing and Reporting	4	-
HM3095	Principles of Sociology	3	-
XXXX	Media Management	3	-
Total		16	

Semester-VI			Pre-Req
XXXX	Elective I	3	-
XXXX	International Relation	3	-
XXXX	Event Management	3	-
XXXX	Media Research	3	-
XXXX	Media Programming& Planning	4	-
Total		16	

Semester-VII			Pre-Req
EN4017	Entrepreneurship	3	-
XXXX	Elective-II	3	-
XXXX	Elective-III	3	-
XXXX	Floating Elective-I	3	-
XXXX	Final year Project 1	3	-
Total		15	

Semester-VIII			Pre-Req
XXXXX	Elective-IV	3	-
XXXXX	Elective-V	4	-
XXXXX	Elective-VI	4	-
XXXXX	Floating Elective-II	3	-
XXXXX	Final year Proect 2	3	-
Total		17	

Note: Registration in "Project" is allowed provided the student has earned at least 98 credits hours, and his/her CGPA is equal to or greater than CGPA 2.5.

Elective Courses

Elective Courses

Modern Journalism

Course Title	Cr. Hrs.
Magazine Journalism (English/Urdu)	4
Free & Responsible Journalism	3
Community Journalism	4
Citizen Journalism	4
Online Journalism (Training & Practice)	4
News Writing (Radio & TV)	3
Introduction to Print Media (Printing & Book Publishing)	4
News Anchoring	4
Political Sciences	3
Media Laws and Ethics	3
Diction Improvisation	4

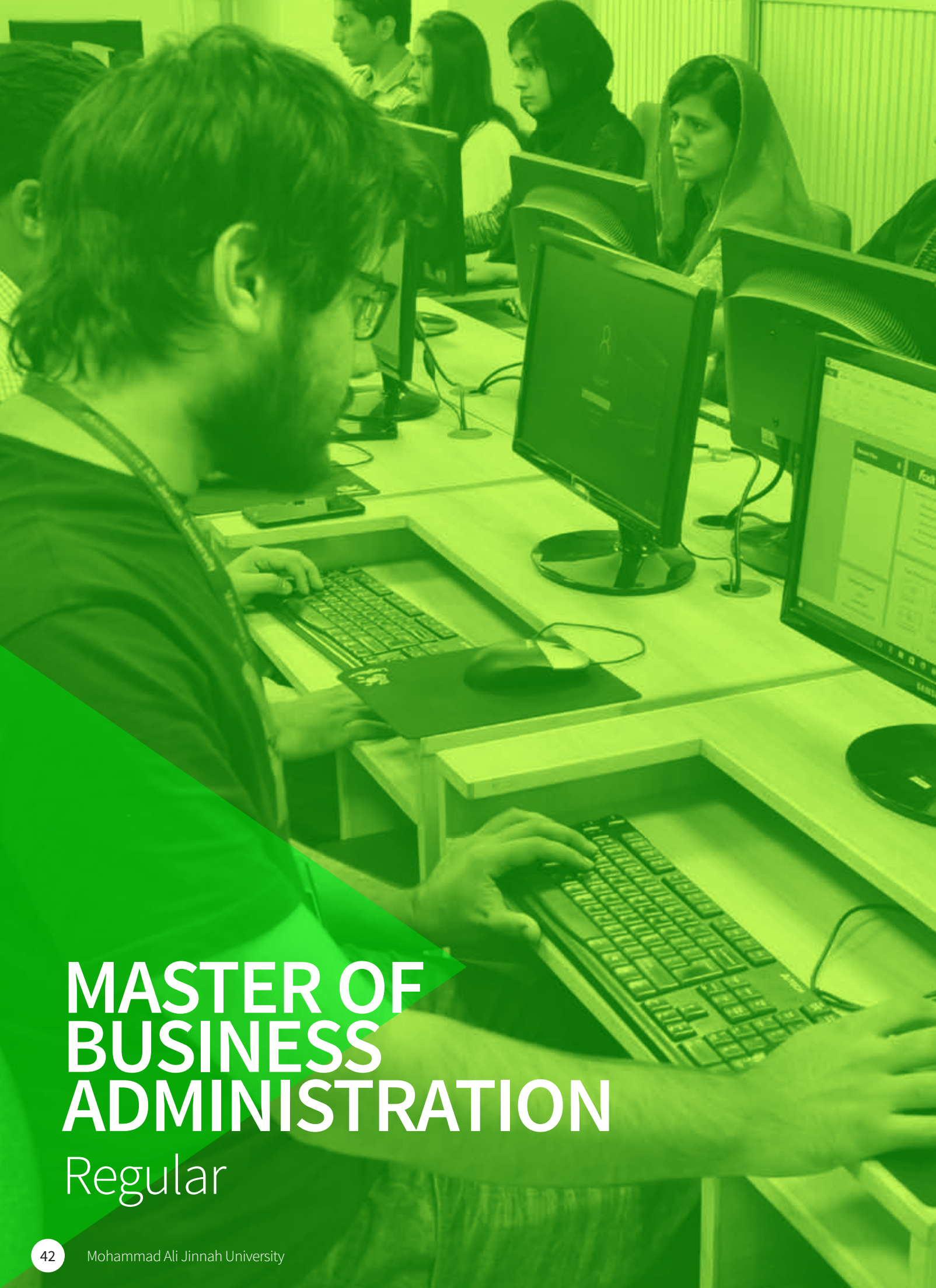
Communication Design

Course Title	Cr. Hrs.
World Cinema	4
Creative Writing	4
Brand Management	3
Media Marketing	3
Global and International Public Relations	3
Development Communication	3
Crisis Management Communication	3
Visual Communication Design	4
Illustration	4
3D Design	4

Elective Courses

Production

Course Title	Cr. Hrs.
Film Studies	4
Ad-Film Production	4
Directing the Actors (Film/Drama)	4
Video Production	4
Short Film Production	4
Print Media Reporting	4
Editing & Post Production	4
Digital Cinematography	4
Sound Design	4
Documentary Film	4
Fashion Designing	3
Sub-Editing	4
Editing & Post-production	4
Advance Reporting: Live	4



MASTER OF BUSINESS ADMINISTRATION

Regular

Program Objectives

In this new industrial scenario where "global competition" and "hyper competition" are buzz words. It is very difficult to manage and sustain the competencies. It demands a new breed of enlightened managers who can cope up with these changes without any resistance and friction, both outwardly and inwardly. Our MBA professional program not only transforms your abilities into such management skills but also opens new avenues of success. Rigorously designed curriculum accompanied with workshops, conferences, and seminars enable students to compete in the era of cut-throat competition.

Salient Features

- After any graduation (BA / B.Com / B.Sc / B.Tech)
- Equivalent to 18 years of education as per HEC Criteria

Eligibility

- Fourteen years of education leading to a bachelor's degree in any discipline with minimum 45% marks.

Selection Criteria

- MAJU Admission Test
- Interview

Specializations

- Finance
- Marketing
- Human Resource Management
- Supply Chain Management
- MIS
- Media Management

Duration

- This is a 3.5 years degree program comprising of 7 semesters with minimum of 96 credit hours. The maximum duration to complete the degree is 6 years.

Business Project

- It is mandatory for every student to complete 6 credit hours research project after the completion of 72 credit hours course work.

Degree Requirements

- Passing courses totalling at least 96 credit hours
- Obtaining at least 2.5 CGPA of 4.00

Plan of Study MBA (Regular)

Semester-I			Pre-Req
OM2003	Business Communication	3	-
OM7003	Business Mathematics & Statistics	3	-
ACCT7003	Financial Accounting	3	-
MGMT7003	Principles of Management	3	-
ECON7023	Information System Management	3	-
Total		**15**	

Semester-II			Pre-Req
HRM7003	Human Resource Management	3	MGMT7003
FIN7063	Introduction to Business Finance	3	ACCT7003
ECON7013	Principles of Marketing	3	-
MKTG2003	Supply Chain Management	3	MGMT7003
BANK5643	Cost & Management Accounting	3	-
Total		**15**	

Semester-III			Pre-Req
XXXXX	Financial Management	3	-
ACCT5123	Business Research Methods	3	ACCT7003
FIN5053	Business & Corporate Laws	3	FIN7063
MIS7503	Microeconomics	3	-
MGMT5443	Entrepreneurship	3	-
Total		**15**	

Semester-IV			Pre-Req
GSD5623	Strategic Management	3	-
MGMT5783	Macroeconomics	3	-
MGMT5013	Laws of Taxation	3	-
LAW7123	Islamic Banking	3	-
OM6023	Statistical Inference	3	-
Total		**15**	

Semester-V			Pre-Req
GSD6023	Advanced Research Methodology	3	-
MKTG7223	Strategic Marketing	3	MGMT7003
XXXXX	Specialization I	3	-
XXXXX	Corporate Governance	3	-
Total		**12**	

Semester-VI			Pre-Req
FIN7133	Strategic Finance	3	-
XXXXX	Dissertation I	3	-
XXXXX	Organizational Theory and Design	3	-
BUS4003	Quantitative Research Methods	3	-
Total		**12**	

Semester-VII			Pre-Req
XXXXX	Specialization II	3	-
XXXXX	Floating Elective	3	-
XXXXX	Specialization III	3	-
BUS4003	Dissertation II	3	-
Total		**12**	

Note: Registration in "Dissertation/Research Project/Thesis" is allowed provided the student has earned at least 72 credits hours, and his/her CGPA is equal to or greater than the graduating CGPA (2.5).

General Elective Courses

General Elective Courses

General Courses

Course Title	Cr. Hrs.
Islamic Banking	3
Strategic Management	3
Statistical Inference	3

Specialization Course

Finance

Course Title	Cr. Hrs.
Advanced Accounting	3
Analysis of Financial Statement	3
Auditing and Internal Controls Designing	3
Business Forecasting	3
Consumer Credit Analysis	3
Corporate Finance	3
Current Issues in Finance	3
Financial Derivatives	3
Financial Modeling and Forecasting	3
Financial Reporting	3
Financial Risk Management	3
Forensic Accounting	3
International Banking	3
International Finance	3
Investment Banking	3
Islamic Financial System	3
Managerial Accounting	3
Micro Finance	3

General Elective Courses

Finance

Course Title	Cr. Hrs.
Money and Capital Markets	3
Portfolio Management	3
Project Appraisal	3
Public Finance	3
Retail Banking	3
Security Analysis	3
Technical Analysis of Financial Markets	3
Treasury & Funds Management	3
Anti-Money Laundering	3
Banking Audit, Control & Compliance	3
Basel – I & Basel – II Regulatory Framework & Compliance	3
Consumer Banking	3
Consumer Credit Analysis	3
Current Issues in Banking	3
Financial Risk Management	3
International Banking	3
Investment Banking	3
Islamic Finance	3
Micro Finance	3
Retail Banking	3
Treasury & Funds Management	3
Corporate Banking	3

Elective Courses

Human Resources Management

Course Title	Cr. Hrs.
Career Development	3
Change Management	3
Compensation Management	3
Crisis Management	3
Current Issues in Human Resource Management	3
Human Resources Development	3
Human Resources Information System (HRIS)	3
Industrial Relations	3
International HRM	3
Knowledge Management	3
Organizational Development	3
Performance Management	3
Public Relations	3
Recruitment & Selection	3
Strategic HRM	3
Training and Development	3

Elective Courses

Marketing

Course Title	Cr. Hrs.
Advertising	3
Brand Activation	3
Brand Management	3
Customer Relationship Management	3
Demography	3
Digital Marketing	3
Distribution Management	3
Event Management	3
Global and Regional Marketing	3
Hospitality Management	3
Industrial Marketing	3
Marketing Intelligence	3
Marketing of Financial Products	3
Media Marketing	3
Packaging & Design	3
Personal Selling	3
Pricing Strategies	3
Product Management	3
Public Relations	3
Retail Management	3
Sales Management	3
Services Marketing	3
Strategic Negotiations	3
Tourism Marketing	3

Elective Courses

MIS

Course Title	Cr. Hrs.
Business Intelligence	3
Business Process & Simulation	3
Certified Information System Management	3
Certified Information System Security	3
Customer Relationship Management	3
E-Banking System	3
Enterprise Resource Planning	3
Expert System	3
Information Technology Infrastructure Library	3
IT Resource Management	3
Knowledge Management	3
Operation Research	3
Advance System Analysis & Design	3

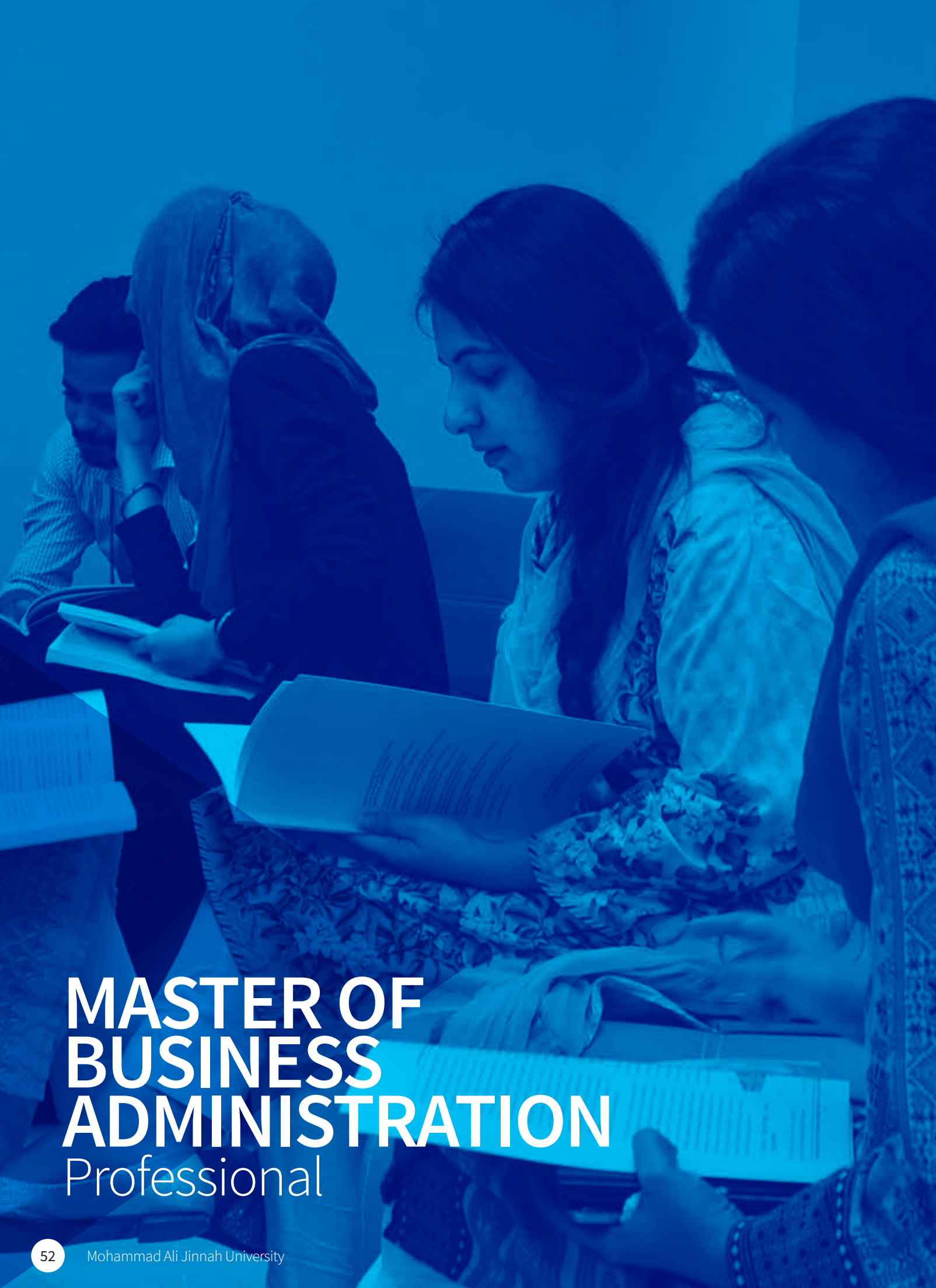
Supply Chain Management

Course Title	Cr. Hrs.
Business Process Re-engineering	3
Change Management	3
Distribution and Channel Management	3
International Logistics and Global Supply Chain Management	3
Inventory Control and material management	3
Quality Management and Lean Six Sigma	3
Retail management	3
Strategic Supply Chain Management	3
Total Quality management	3
Vendor Management	3
Warehouse Management	3

Elective Courses

Media Management

Course Title	Cr. Hrs.
Communication and Media Technologies	3
Entertainment Law & Media Ethics	3
Global Media Marketing Strategies	3
Screenwriting for TV & Cinema to Media in Pakistan	3
Digital Video Production	3
Seminar in Strategic Media Marketing	3
Media Marketing in a Global Environment	3
The Business and Economics of the Film Industry	3
Managing Electronic Broadcast Industries	3
Media Contract Drafting & Negotiations	3
Music and Publishing Industries	3
Managing Print Industries	3



MASTER OF BUSINESS ADMINISTRATION
Professional

Program Objectives

This is a career transition program, aimed at imparting business knowledge to the graduates of diverse disciplines. The program combines both core Management areas as well as carefully designed elective courses, which are need of time and sought by all sorts of Industries (corporate sector, banking and insurance, media, service sector, non-profit or social sector, health care, real estate, tourism and hospitality, etc.). The course structure is relevant to every level of business; from the multinational firm to a family business or a small scale business. Program is taught by highly qualified foreign faculty. Most of the electives are taught by the CEO of renowned companies under CEO faculty program.

Salient Features

After any graduation (BA/B.Com/B.Sc/B.Tech)
Equivalent to 16 years of education
Career Transitioning Program

Eligibility

- A minimum of 14 years of education (Bachelor's Degree) in any discipline with minimum 45% marks.

Selection Criteria

- MAJU Admission Test
- Interview

Specializations

- Finance
- Marketing
- Human Resource Management
- Supply Chain Management
- MIS
- Media Management

Duration

- This is a two-year degree program (for full time students) comprising of 4 semesters with minimum of 66 credit hours. The maximum duration to complete the degree is 4 years.

Business Project

- It is mandatory for every student to complete 3 credit hours research project after the completion of 51 credit hours of course work.

Degree Requirements

- Passing courses totalling at least 66 credit hours including all those courses specified as core courses
- Obtaining at least 2.00 CGPA of 4.00

Plan of Study MBA (Professional)

Semester-I			Pre-Req
OM2003	Business Communication	3	-
OM7003	Business Mathematics & Statistics	3	-
ACCT7003	Financial Accounting	3	-
MGMT7003	Principles of Management	3	-
XXXX	Information System Management	3	-
ECON5003	Business Economics	3	-
Total		**18**	

Semester-II			Pre-Req
HRM7003	Human Resource Management	3	MGMT7003
FIN7063	Introduction to Business Finance	3	ACCT7003
MKTG2003	Principles of Marketing	3	MGMT7003
XXXXX	Supply Chain Management	3	-
ACCT5123	Cost & Management Accounting	3	-
MGMT5443	General Elective I	3	-
Total		**18**	

Semester-III			Pre-Req
FIN5053	Financial Management	3	FIN7063
GSD5623	Business Research Methods	3	-
XXXXX	Business & Corporate Laws	3	-
XXXXX	Specialization I	3	-
XXXX	Specialization II	3	-
Total		**15**	

Semester-IV			Pre-Req
xxxx	General Elective II	3	-
xxxx	General Elective III	3	-
xxxx	Specialization III	3	-
xxxx	Floating Elective	3	-
BUS4003	Business Project	3	-
Total		**15**	

Note: Registration in “Dissertation/Research Project/Thesis” is allowed provided the student has earned at least 51 credits hours, and his/her CGPA is equal to or greater than the graduating CGPA (2.0).

General Elective Courses

General Elective Courses

General Courses

Course Title	Cr. Hrs.
Islamic Banking	3
Strategic Management	3
Statistical Inference	3

Specialization Course

Finance

Course Title	Cr. Hrs.
Advanced Accounting	3
Analysis of Financial Statement	3
Auditing and Internal Controls Designing	3
Business Forecasting	3
Consumer Credit Analysis	3
Corporate Finance	3
Current Issues in Finance	3
Financial Derivatives	3
Financial Modeling and Forecasting	3
Financial Reporting	3
Financial Risk Management	3
Forensic Accounting	3
International Banking	3
International Finance	3
Investment Banking	3
Islamic Financial System	3
Managerial Accounting	3
Micro Finance	3

General Elective Courses

Finance

Course Title	Cr. Hrs.
Money and Capital Markets	3
Portfolio Management	3
Project Appraisal	3
Public Finance	3
Retail Banking	3
Security Analysis	3
Technical Analysis of Financial Markets	3
Treasury & Funds Management	3
Anti-Money Laundering	3
Banking Audit, Control & Compliance	3
Basel – I & Basel – II Regulatory Framework & Compliance	3
Consumer Banking	3
Consumer Credit Analysis	3
Current Issues in Banking	3
Financial Risk Management	3
International Banking	3
Investment Banking	3
Islamic Finance	3
Micro Finance	3
Retail Banking	3
Treasury & Funds Management	3
Corporate Banking	3

General Elective Courses

Human Resources Management

Course Title	Cr. Hrs.
Career Development	3
Change Management	3
Compensation Management	3
Crisis Management	3
Current Issues in Human Resource Management	3
Human Resources Development	3
Human Resources Information System (HRIS)	3
Industrial Relations	3
International HRM	3
Knowledge Management	3
Organizational Development	3
Performance Management	3
Public Relations	3
Recruitment & Selection	3
Strategic HRM	3
Training and Development	3

General Elective Courses

Marketing

Course Title	Cr. Hrs.
Advertising	3
Brand Activation	3
Brand Management	3
Customer Relationship Management	3
Demography	3
Digital Marketing	3
Distribution Management	3
Event Management	3
Global and Regional Marketing	3
Hospitality Management	3
Industrial Marketing	3
Marketing Intelligence	3
Marketing of Financial Products	3
Media Marketing	3
Packaging & Design	3
Personal Selling	3
Pricing Strategies	3
Product Management	3
Public Relations	3
Retail Management	3
Sales Management	3
Services Marketing	3
Strategic Negotiations	3
Tourism Marketing	3

General Elective Courses

MIS

Course Title	Cr. Hrs.
Business Intelligence	3
Business Process & Simulation	3
Certified Information System Management	3
Certified Information System Security	3
Customer Relationship Management	3
E-Banking System	3
Enterprise Resource Planning	3
Expert System	3
Information Technology Infrastructure Library	3
IT Resource Management	3
Knowledge Management	3
Operation Research	3
Advance System Analysis & Design	3

Supply Chain Management

Course Title	Cr. Hrs.
Business Process Re-engineering	3
Change Management	3
Distribution and Channel Management	3
International Logistics and Global Supply Chain Management	3
Inventory Control and material management	3
Quality Management and Lean Six Sigma	3
Retail management	3
Strategic Supply Chain Management	3
Total Quality management	3
Vendor Management	3
Warehouse Management	3

General Elective Courses

Media Management

Course Title	Cr. Hrs.
Communication and Media Technologies	3
Entertainment Law & Media Ethics	3
Global Media Marketing Strategies	3
Screenwriting for TV & Cinema to Media in Pakistan	3
Digital Video Production	3
Seminar in Strategic Media Marketing	3
Media Marketing in a Global Environment	3
The Business and Economics of the Film Industry	3
Managing Electronic Broadcast Industries	3
Media Contract Drafting & Negotiations	3
Music and Publishing Industries	3
Managing Print Industries	3

MASTER OF BUSINESS ADMINISTRATION
Graduate

Program Objectives

It is a unique program, which integrates both core Management areas as well as carefully designed elective courses, which are need of time and sought by all sorts of industries (corporate sector, banking and insurance, media, service sector, non-profit or social sector, health care, real estate, tourism and hospitality, etc.). The course structure is relevant to every level of business; from the multinational firm to a family business, or a small scale business. Program is taught by highly qualified foreign faculty. Most of the electives are taught by the CEO of renowned companies under CEO faculty program.

Salient Features

- After any 16 years graduation (BBA / MA / M.Com / M.Sc / B.Engg / MBBA)
- Equivalent to 18 years of education as per HEC criteria
- Deficiency courses up to maximum 5 for non-business major degree

Eligibility

- Sixteen years of education leading to a bachelor's degree in any discipline with minimum 45% marks.

Selection Criteria

- MAJU Admission Test
- Interview

Specializations

- Finance
- Marketing
- Human Resource Management
- Supply Chain Management
- MIS
- Media Management

Duration

- This is a 1.5-year degree program (for full time students) comprising of 3 semesters with minimum of 30 credit hours. The maximum duration to complete the degree is 4 years.

Business Project

- It is mandatory for every student to complete 3 credit hours of research project after the completion of 21 credit hours of course work.

Degree Requirements

- Passing courses totalling at least 30 credit hours, including all those courses specified as core courses
- Obtaining at least 2.5 CGPA of 4.0

Plan of Study MBA (Graduate)

Semester-I			Pre-Req
GSD513	Advanced Research Methodology	3	-
FIN7163	Strategic Marketing	3	-
BUS7463	Specialization I	3	-
Total		**9**	

Semester-II			Pre-Req
MKTG7223	Strategic Finance	3	-
MGMT5783	Specialization II	3	-
XXXXX	Organizational Theory and Design	3	-
XXXXX	Quantitative Research Methods	3	-
Total		**12**	

Semester-III			Pre-Req
XXXX	Corporate Governance	3	-
XXXX	Floating Elective	3	-
XXXX	Final Research Project (FRP)	3	-
Total		**9**	

Note: Registration in "Dissertation / Research Project/Thesis" is allowed provided the student has earned at least 21 credits hours and his/her CGPA is equal to or greater than the graduating CGPA (2.5).

General Elective Courses

General Elective Courses

General Courses

Course Title	Cr. Hrs.
Quantitative Research Methods	3
Organizational Theory and Design	3

Finance

Course Title	Cr. Hrs.
Advanced Accounting	3
Analysis of Financial Statement	3
Auditing and Internal Controls Designing	3
Business Forecasting	3
Consumer Credit Analysis	3
Corporate Finance	3
Current Issues in Finance	3
Financial Derivatives	3
Financial Modeling and Forecasting	3
Financial Reporting	3
Financial Risk Management	3
Forensic Accounting	3
International Banking	3
International Finance	3
Investment Banking	3
Islamic Financial System	3
Managerial Accounting	3
Micro Finance	3
Money and Capital Markets	3
Portfolio Management	3

General Elective Courses

Finance

Course Title	Cr. Hrs.
Project Appraisal	3
Public Finance	3
Retail Banking	3
Security Analysis	3
Technical Analysis of Financial Markets	3
Treasury & Funds Management	3
Anti-Money Laundering	3
Banking Audit, Control & Compliance	3
Basel – I & Basel – II Regulatory Framework & Compliance	3
Consumer Banking	3
Consumer Credit Analysis	3
Current Issues in Banking	3
Financial Risk Management	3
International Banking	3
Investment Banking	3
Islamic Finance	3
Micro Finance	3
Retail Banking	3
Treasury & Funds Management	3
Corporate Banking	3

General Elective Courses

Human Resources Management

Course Title	Cr. Hrs.
Career Development	3
Change Management	3
Compensation Management	3
Crisis Management	3
Current Issues in Human Resource Management	3
Human Resources Development	3
Human Resources Information System (HRIS)	3
Industrial Relations	3
International HRM	3
Knowledge Management	3
Organizational Development	3
Performance Management	3
Public Relations	3
Recruitment & Selection	3
Strategic HRM	3
Training and Development	3

General Elective Courses

Marketing

Course Title	Cr. Hrs.
Advertising	3
Brand Activation	3
Brand Management	3
Customer Relationship Management	3
Demography	3
Digital Marketing	3
Distribution Management	3
Event Management	3
Global and Regional Marketing	3
Hospitality Management	3
Industrial Marketing	3
Marketing Intelligence	3
Marketing of Financial Products	3
Media Marketing	3
Packaging & Design	3
Personal Selling	3
Pricing Strategies	3
Product Management	3
Public Relations	3
Retail Management	3
Sales Management	3
Services Marketing	3
Strategic Negotiations	3
Tourism Marketing	3

General Elective Courses

MIS

Course Title	Cr. Hrs.
Business Intelligence	3
Business Process & Simulation	3
Certified Information System Management	3
Certified Information System Security	3
Customer Relationship Management	3
E-Banking System	3
Enterprise Resource Planning	3
Expert System	3
Information Technology Infrastructure Library	3
IT Resource Management	3
Knowledge Management	3
Operation Research	3
Advance System Analysis & Design	3

Supply Chain Management

Course Title	Cr. Hrs.
Business Process Re-engineering	3
Change Management	3
Distribution and Channel Management	3
International Logistics and Global Supply Chain Management	3
Inventory Control and material management	3
Quality Management and Lean Six Sigma	3
Retail management	3
Strategic Supply Chain Management	3
Total Quality management	3
Vendor Management	3
Warehouse Management	3

General Elective Courses

MIS

Course Title	Cr. Hrs.
Communication and Media Technologies	3
Entertainment Law & Media Ethics	3
Global Media Marketing Strategies	3
Screenwriting for TV & Cinema to Media in Pakistan	3
Digital Video Production	3
Seminar in Strategic Media Marketing	3
Media Marketing in a Global Environment	3
The Business and Economics of the Film Industry	3
Managing Electronic Broadcast Industries	3
Media Contract Drafting & Negotiations	3
Music and Publishing Industries	3
Managing Print Industries	3

MASTER OF SCIENCE
Management Sciences

Program Objectives

The Master of Science in Management Sciences program offers a professional graduate course of study designed to provide competency in management and to acquaint the student with a variety of business activities. The MS degree program is both decision and policy oriented and focuses on key aspects of modern business administration. It is a 1.5-year degree program offered by the Department of Management Sciences to working professionals. The MS program in Management Sciences is designed to prepare graduates for managerial and administrative roles in business, industry and government on the national and international levels. It also prepares students for a variety of leadership positions in complex contemporary business environments and teaching careers.

Eligibility

- 16 years of education in relevant discipline with minimum 45% marks/2.0 CGPA. In case of any deficiency, additional coursework may be mandatory.

Selection Criteria

- MAJU Entry Test/GAT General
- Interview

Specialization

- HRM
- Finance
- Marketing
- Supply Chain Management

Duration

- This is a 1.5 year degree program (for full time students) comprising of 3 semesters with minimum of 30 credit hours. The maximum duration to complete the degree is 4 years.

Degree Requirements

- Completion of 30 credit hours with thesis with minimum CGPA 3.00
- In case of course work, completion of 36 credit hours with minimum CGPA 3.00

Plan of Study MS (Management Sciences)

Semester-I			Pre-Req
RCH 3016	Advanced Research Methodology	3	
MGT 6053	Specialization I	3	
XXXX	Specialization II	3	
XXXX	Corporate Governance	3	
Total		**12**	

Semester-II			Pre-Req
MGT 6053	Specialization III	3	
MKT 6143	Specialization IV	3	
XXXX	Organizational Theory and Design	3	
XXXX	Quantitative Research Methods	3	
Total		**12**	

Semester-III-IV			Pre-Req
XXXX	Research Thesis	6	
Total		**6**	

Note: Registration in "Dissertation/Research Project/Thesis" is allowed provided the student has earned at least 24 credits hours, and his/her CGPA is equal to or greater than the graduating CGPA (3.0).

General Elective Courses

General Elective Courses

Human Resources Management

Course Title	Cr. Hrs.
Change Management	3
Conflict and Negotiation Management	3
Cross Cultural HRM	3
High Performance Work System	3
Industrial Psychology	3
Organizational Development	3
Performance Management	3
Research Methods in Social Sciences	3
Strategic Human Resources Management	3

Finance

Course Title	Cr. Hrs.
Advance Portfolio Management	3
Behavioral Finance	3
Case Studies in Corporate Finance	3
Finance Theory	3
Financial Economics	3
Financial Risk Management	3
Issues in Financial Reporting	3
Public Finance and Decision Making	3
Research Methods in Finance	3
Strategic Finance	3

General Elective Courses

Marketing

Course Title	Cr. Hrs.
Advance Digital Marketing	3
Advertising and Sales Promotion	3
Brand Management	3
Customer Relationship Management	3
Entrepreneurship Marketing	3
International Marketing	3
Marketing Ethics	3
Product and Price Strategy	3
Psychology of Consumer Behavior	3
Strategic Marketing	3

Supply Chain Management

Course Title	Cr. Hrs.
Business Process Re-engineering	3
Change Management	3
Distribution and Channel Management	3
International Logistics and Global Supply Chain Management	3
Inventory Control and material management	3
Quality Management and Lean Six Sigma	3
Retail Management	3
Strategic Supply Chain Management	3
Total Quality Management	3
Vendor Management	3
Warehouse Management	3

MASTER OF SCIENCE
Project Management

Program Objectives

The Department of Management Sciences also offers the MS Project Management degree program, which culminates in an eighteen-year degree. Major details of the Project Management program are mentioned below.

Eligibility

- 16 years of education in relevant discipline with 45% marks/CGPA 2.0

Selection Criteria

- MAJU Entry Test/GAT General
- Interview

Specializations

- Project Management

Duration

- 2-years program comprising of 4 semesters. There will be a Fall and a Spring semester in each year. The maximum duration to complete MS in Project Management is 4 years.

Degree Requirements

- Completion of 30 credit hours with thesis with minimum CGPA 3.00 of 4.00.

Plan of Study MS (Project Management)

Semester-I			Pre-Req
XXXX	Advance Research Methods	3	-
XXXX	Management of Project Based Organization	3	-
XXXX	Project Process Planning & Control	3	-
Total		**9**	

Semester-II			Pre-Req
XXXX	Computer Application in Project Management	3	-
XXXX	Project Monitoring and Evaluation	3	-
XXXX	Elective I	3	-
Total		**9**	

Semester-III			Pre-Req
XXXX	Elective - II	3	-
XXXX	Elective – III	3	-
XXXX	Floating Elective	3	-
Total		**9**	

Semester-IV			Pre-Req
XXXX	Research Thesis	6	-
Total		**6**	

Note: Registration in "Dissertation/Research Project/Thesis" is allowed provided the student has earned at least 24 credits hours, and his/her CGPA is equal to or greater than the graduating CGPA (2.5)

Specialization Courses

Specialization Courses

Specialization Courses

Course Title	Cr. Hrs.
Project Risk Management	3
Contract Management	3
Project Financing and Management	3
Legal Aspect of Project Management	3
Software Project Management	3
Project Leadership	3
Project Human Resources Management	3
Project Quality Management	3

Research

Course Title	Cr. Hrs.
Research Thesis	6

DOCTOR OF PHILOSOPHY (PhD)

Management Sciences

Program Objectives

The PhD in Management Sciences aims to produce doctoral graduates with the disciplinary preparation that meets the following goals:

- An awareness of the complexity of today's advancement in management sciences and an ability to solve complex problems.
- To recognize and apply theoretical and practical concepts in organizational settings.
- To foster original and scholarly research that contributes to all of these fields
- To enable graduates to integrate their professional education and experience with the larger problems in their respective area of research.

Learning Objective

- Demonstrate appropriate depth and breadth of knowledge that is at the frontier of their disciplines.
- Understand and value diverse approaches to solving critical problems in research and to creating new knowledge judged by international standards.
- Work effectively in a complex environment using highly developed cognitive and creative expert skills and intellectual independence.
- Use self-development for personal and professional improvement in their field and contribute to its future advancement.

Eligibility

- MS/M.Phil or 18 years of education in the relevant discipline with minimum of 3.0 CGPA. In case of any
- deficiency, additional coursework may be mandatory.

Selection Criteria

- MAJU Admission Test/GAT Subject
- Interview

Degree Requirement

- To obtain the PhD degree, students have to complete 48 credit hours. 18 credit hours are to be earned through course work that includes 4 courses and two independent studies. It will be followed by 30 credit hours of research thesis. The minimum duration to complete this degree is 3 years.

Plan of Study PhD (Management Sciences)

Semester-I			Pre-Req
XXXXX	Research Philosophy	3	
XXXXX	Qualitative Tools for Research	3	
XXXXX	Seminar in Management	3	
Total		**9**	

Semester-II			Pre-Req
XXXXX	Advanced Multivariate Data Analysis	3	
XXXXX	Independent Study I	3	
XXXXX	Independent Study II	3	
Total		**9**	

Semester-III-VII			Pre-Req
XXXXX	Research Thesis	30	
Total		**30**	

DEPARTMENT OF **FINANCE**

Asif Saeed Naji

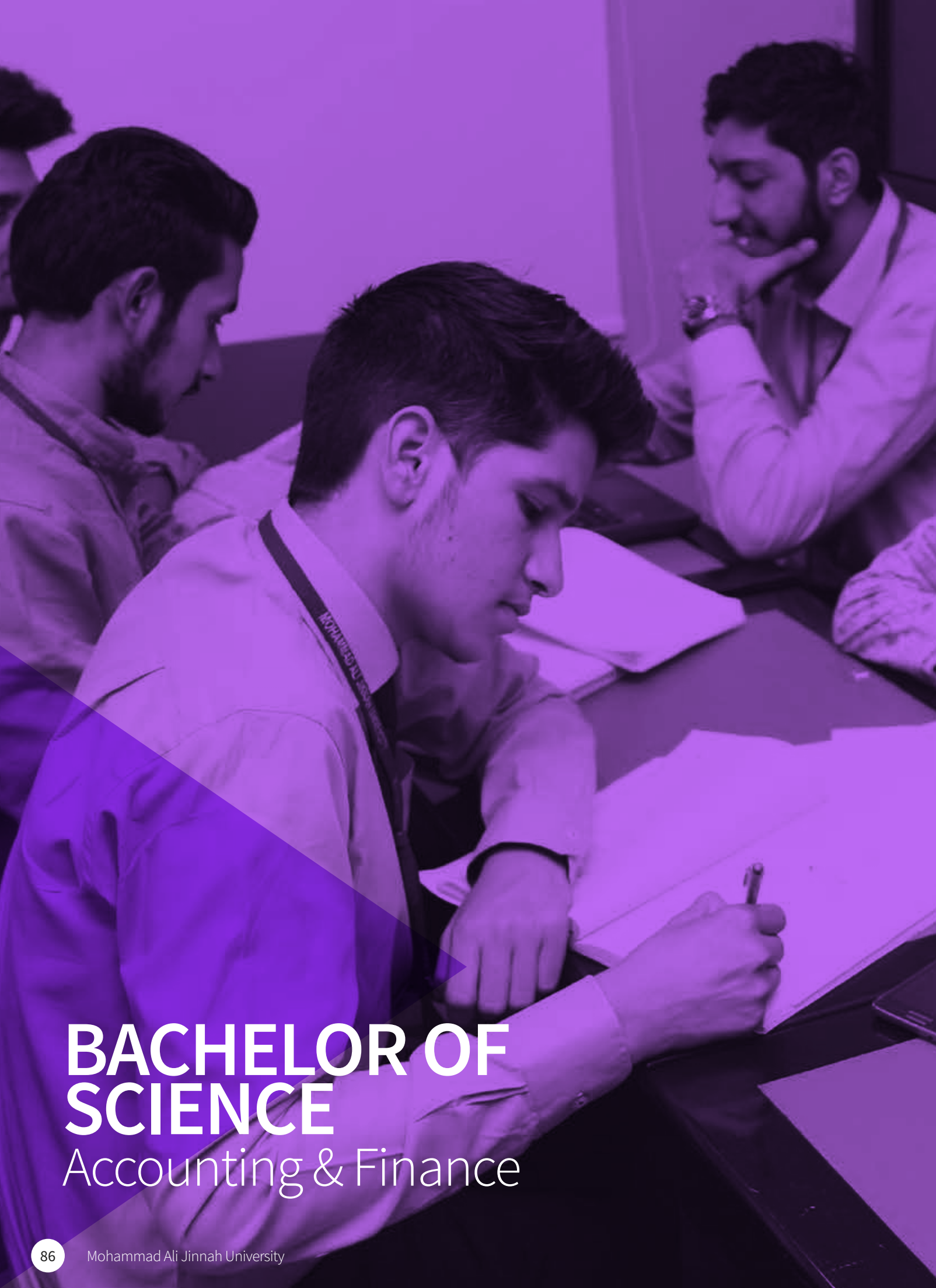
IN CHARGE OF
FINANCE DEPARTMENT

The Department of Finance has its unique philosophy to nurture the minds of accounting and finance students as complete beings by providing them with the theoretical and practical knowledge which will promote their self-reliance and assist them in understanding, exploiting and, when necessary, in changing their environment - with a view to empowering them to contribute effectively and meaningfully to the collective task of building a democratic and developed nation.

Department of finance offers undergraduate program with the name of BS Accounting and Finance.

The objectives of Finance Department, which derive from its philosophy, are to:

- Provide basic knowledge and skills needed for the understanding and analysis of problems related to the management of industrial, commercial, public and other human organizations.
- Equip students with the skills required for identifying and defining problems and taking appropriate decisions, using scientific techniques and tools.
- Inculcating in students an awareness of, and sensitivity to, environmental factors and conditions and their impact on accounting and finance practices and decisions.
- Develop in student's leadership and interpersonal skills which are needed for working efficiently and effectively in organizations in order to achieve optimal uses of scarce resources for maximum benefits.



BACHELOR OF SCIENCE
Accounting & Finance

Program Objectives

- This program has been designed for students who wish to acquire career-oriented, market-driven education in the field of Accounting and Finance that would lead to rewarding careers.
- This program will provide an opportunity to acquire advanced knowledge and skills in the field of Accounting and Finance.
- The program will give students an understanding of the legal and regulatory environment that commercial organizations and accounting professionals must work within. They will be able to identify and evaluate ethical dilemmas and provide logical ways to resolve them. They will learn the concepts and processes needed to protect, validate and attest to the integrity and reliability of financial information.
- The graduates can also pursue further education in any of the programs like MBA, ICMA, Chartered Accountancy, Management Accountancy, Internal Audit, Public Finance, MS Finance, MS Financial Engineering, MS Project Management, and MS International Finance etc.

Career Prospective

- The grads of this program will be specialized in the field of accounting and finance which will enable them to opt the field of professional accountancy (like ICMA, ACCA, CIMA etc.) and apply for jobs in the field of accounting and finance. These jobs are highly demanding in manufacturing sector and blue chip companies in Pakistan and around the globe especially in the Middle-East and emerging markets of China.
- The students of the program with strong core knowledge of Accounting and Finance can further continue their professional education to purse career in financial planning and consultancy.
- The students of the program with strong knowledge of Accounting and Finance can work in the different brokerage houses as Research Analysts.
- The students of the program will also be able to serve in various financial institutions especially in SBP, leading Commercial Banks, Investment Banks, Brokerage Houses and Insurance Companies etc.

Eligibility

- Higher Secondary School Certificate or Equivalent securing at least 45% marks in aggregate.

Selection Criteria

- MAJU Admission Test / NTS
- Interview

Duration

- This is a four-year degree program comprising of 8 semesters. There will be a Fall and a Spring semester in each year. The summer session will be utilized for business project. The maximum duration to complete degree is 07 years.

Project

- A student is required to register for the Business Project in summer after the completion of 60 credit hours.

Internships

- All students have to undergo a mandatory 6-8 weeks internship arranged by the placement office. The internship is normally taken after passing 60 Credit Hours The internship is closely monitored by an internship coordinator. Successful completion of internship is a mandatory requirement for graduation.

Exemptions in professional bodies via BS (A/cc & Finance)

- Course outlines, contents, sequencing, pre-requisites, course objectives & outcomes development is in process with close consultation with all the major professional bodies and it is expected that BS (Accounting & Finance) students will get exemptions in ACCA, ICAP, PIPFA and ICMAP.

Degree Requirement

- Minimum CGPA 2.0
- Business Project 06 Credit Hours

Plan of Study of BS (Accounting & Finance)

Semester-I			Pre-Req
MT1011	Business Mathematics	3	-
HM1011	Freshman English	3	-
CS1XX1	Computer concept & applications	3	-
EC1011	Microeconomics	3	-
FN1011	Principles of Accounting I	3	-
MG1011	Principles of Management	3	-
Total		**18**	

Semester-II			Pre-Req
MT1022	Business Statistics	3	-
HM1022	English Grammar	3	-
HM1032	Foreign Language	3	-
MI1012	Management Information System	3	-
EC1022	Macroeconomics	3	-
FN1022	Principles of Accounting II	3	-
Total		**18**	

Semester-III			Pre-Req
HM2043	Islamic Studies***/ Ethics	3	-
FN2033	Cost & Management Accounting	3	-
HM2053	Oral Communication	3	-
MK2013	Principles of Marketing	3	-
HM2063	Principles of Psychology	3	-
XXXXX	General Elective	3	-
Total		**18**	

Semester-IV			Pre-Req
FN2044	Business & Corporate Law	3	-
HM2074	Business Communication	3	-
FN2054	Introduction to Business Finance	3	-
MK2024	Marketing Management	3	-
HM2084	Pakistan Studies***	3	-
XXXXX	Auditing	3	-
Total		**18**	

Semester-V			Pre-Req
FN3065	Financial Management	3	-
BN5025	Islamic Banking	3	-
XXXX	Elective (01) of Finance	3	-
XXXX	Elective (02) of Finance	3	-
XXXX	Elective (01) of Accounting	3	-
Total		**15**	

Semester-VI			Pre-Req
MG3026	Business Research Methods	3	-
XXXX	Elective (03) of Finance	3	-
XXXX	Elective (02) of Accounting	3	-
XXXX	Elective (04) of Finance	3	-
XXXX	Elective (03) of Accounting	3	-
Total		**15**	

Semester-VII			Pre-Req
FN5025	Corporate Finance	3	-
XXXX	Elective (05) of Finance	3	-
XXXX	Elective (06) of Finance	3	-
XXXX	Elective (04) of Accounting	3	-
XXXX	Elective (05) of Accounting	3	-
Total		**15**	

Semester-VIII			Pre-Req
FN4088	Elective (07) of Finance	3	-
xxxx	Elective (06) of Accounting	3	-
FN5085	Laws of Taxation	3	-
xxxx	Elective (07) of Accounting	3	-
MG4038	Final Project	3	-
Total		**15**	

Total 132 Credit hours

Elective Courses

Elective Courses

Accounting

Course Title	Cr. Hrs.
Advanced Accounting	3
Analysis of Financial Statement	3
Financial Modeling	3
Financial Reporting	3
Advanced Taxation	3
Advanced Auditing	3
International Financial Reporting Standards	3
Corporate Governance	3
Advanced Managerial Accounting	3

Finance

Course Title	Cr. Hrs.
International Banking	3
Investment Banking	3
Financial Derivatives	3
Portfolio Management	3
Security Analysis	3
International Finance	3
Islamic Financial System	3
Treasury and fund management	3

DEPARTMENT OF
ECONOMICS AND SOCIAL SCIENCES

Dr. Shafiq-ur-Rehman

HEAD OF DEPARTMENT
ECONMOICS AND SOCIAL SCIENCES
PHD (ECONOMICS)
PROFESSOR

The Department of Economics and Social Sciences provides students with the knowledge and skills required in a wide range of economics-related fields such as: corporate , financial management in government and not-for-profit organizations, financial planning, investments, banking, insurance, real estate, public accounting, and macro/micro economics, global and international business, World Bank(IBRD), and IMF

BACHELOR OF SCIENCE
Economics

Program Objectives

Program objective is to develop Economics professionals with world class competencies and ethical standards. We want to create and provide opportunities for young professionals to acquire not only undergraduate academic degree, but Professional certification in Economics as well, under this program. If you have a strong interest or ability in maths, stats or economics and would like to have a career in financial economics, banking or finance then this course is for you.

Regarded as one of the premier degrees in Pakistan, it's a highly analytical and dynamic course with excellent career prospects. The graduates can also pursue further education in any of the programs like MBA Public Finance, MS Economics and Finance, MS Financial Engineering, MS Project Management, and MS International Finance and Islamic Finance as well as Islamic Economics.

Learning Objectives

- University foundation courses to broaden knowledge base and improve skills & competencies.
- Rigorous set of core subjects for specializing both in Economics.
- Intensive use of the technology to equip the graduates with the latest analytical tools & techniques.
- Research courses in both Economics.
- Personal effectiveness and development courses to help in grooming a well-rounded personality.
- Internships & attachments specific to the career path to be made part of the transcript.

Eligibility

- Higher Secondary School Certificate or Equivalent securing at least 45% marks in aggregate.

Selection Criteria

- MAJU Admission Test/ NTS
- Interview

Duration

- This is a four-year degree program comprising of 8 semesters. There will be a Fall and a Spring semester in each year. The summer session will be utilized for business project. The maximum duration to complete degree is 07 years.

Project

- A student is required to register for the Business Project in summer after the completion of 90 credit hours with min CGPA of 2.0.

Internships

- All students have to undergo a mandatory 6-8 weeks' internship arranged by the placement office. The internship is normally taken after passing 60 credit hours The internship is closely monitored by an internship coordinator. Successful completion of internship is a mandatory requirement for graduation.

Internships

- All students have to undergo a mandatory 6-8 weeks' internship arranged by the placement office. The internship is normally taken after passing 60 credit hours The internship is closely monitored by an internship coordinator. Successful completion of internship is a mandatory requirement for graduation.

Degree Requirement

- Minimum CGPA 2.0
- Business Project 06 credit hours
- Total Credit Hours 126

Plan of Study BS (Economics)

Semester-I			Pre-Req
HMB1012	Islamic Studies / B. Ethics	3	-
ECON1003	Principles of Microeconomics	3	-
HMB1013	English/Freshman English	3	-
ACCT2003	Principles of Accounting	3	-
CSB1113	Introduction to Computing	3	-
OM2003	Business Statistics	3	
Total		**18**	

Semester-II			Pre-Req
GSA1003	Pakistan Studies	3	-
ECON7023	Principles of Macroeconomics	3	-
XXXXXX	English Grammar	3	-
XXXXXX	Financial Accounting	3	-
MGMT7003	Introduction to Management	3	-
MATH2023	Business Mathematics	3	-
Total		**18**	

Semester-III			Pre-Req
GSB2133	Introduction to Sociology /	3	-
	Fundamentals of Sociology		-
XXXXXX	Oral communication /	3	-
	Communication skills		-
MKTG2003	Principles of Marketing	3	-
ACCT7033	Cost Accounting	3	-
FIN7063	IBF	3	
XXXXXX	Intermediate Microeconomics	3	
Total		**18**	

Semester-IV			Pre-Req
XXXXXX	Urdu / Foreign Language	3	-
XXXXXX	Business Communication	3	-
XXXXXX	HRM	3	-
ACCT5023	Management Accounting	3	-
FIN5053	Financial Management	3	-
XXXXXX	Intermediate Macroeconomics	3	-
Total		**18**	

Semester-V			Pre-Req
XXXXX	Microeconomics Theory	3	-
FIN4133	Financial Markets& Institutions	3	-
FIN4043	International trade and Finance	3	-
XXXXX	Mathematical Economics	3	-
XXXXX	Econometrics - I	3	-
Total		**15**	

Semester-VI			Pre-Req
XXXXX	Macroeconomics Theory	3	-
XXXXX	Monetary Economics	3	-
XXXXX	Money and Banking	3	-
OM7023	Statistical Inference	3	-
XXXXX	Econometrics - II	3	-
Total		**15**	

Semester-VII			Pre-Req
ECO4053	Development Economics	3	-
XXXXX	Economy of Pakistan	3	-
XXXXX	Elective - I (Economics)	3	-
XXXXX	Elective - II (Economics)	3	-
XXXXX	Final Research Project	3	-
Total		**15**	

Semester-VIII			Pre-Req
XXXXX	Economic Planning	3	-
XXXXX	Issues in Pakistan Economy	3	-
XXXXX	Elective - III	3	-
XXXXX	Elective - IV (Economics)	3	-
XXXXX	Final Research Project	3	-
Total		**15**	

Total 132 Credit hours * Final Project allowed after 117 Credit Hours and 2.5 CGPA.

MASTER OF SCIENCE
Economics & Finance

Program Objectives

The Department of Finance & Economics also plans a new two-year MS program in Economics & Finance, which equals 18 years of education. This program is in line with Higher Education Commission (HEC) curriculum. The MS in Economics & Finance is an applied Economics degree geared towards students who wish to pursue their career as applied economists in commerce, financial institutions, ICMA, CIMA, Stock markets, government and academic areas. In addition, an excellent preliminary training will be provided to those who wish to pursue further research for a PhD in the areas of Economics & Finance. The demand for such a program has been apparent to us for quite some time and we have developed the curricula keeping in view the challenging needs and problems of our country in particular and those of the world in general.

Admission Requirement

- Sixteen years of schooling or four-year education after Intermediate leading to BBA, MBA, MA (Econ. & Fin.), or MA (Economics)
- Admission Test/NTS
- Interview

Duration

- This is normally a 2-year program comprising of course works and thesis.

Degree Requirement

- Each candidate for the MS Economics& Finance degree is required to complete successfully.

Options	Credit Hours
24 credit hours course work with 6 credit hours' thesis.	30
30 credit hours course work	30

Plan of Study MS (Economics & Finance)

Semester-I			Pre-Req
XXXXX	Advanced Microeconomics	3	-
XXXXX	Advanced Research Method	3	-
XXXXX	Strategic Finance	3	-
Total		**9**	

Semester-II			Pre-Req
XXXXX	Advanced Econometrics	3	-
XXXXX	Advanced Econometrics	3	-
XXXXX	International Finance	3	-
Total		**9**	

Semester-III			Pre-Req
XXXXX	Elective - I	3	-
XXXXX	Elective - II	3	-
XXXXX	Thesis - I	3	-
Total		**9**	

Semester-IV			Pre-Req
XXXXX	Thesis - II	3	-
Total		**3**	

OR

Semester-III			Pre-Req
XXXXX	Elective - I	3	-
XXXXX	Elective - II	3	-
XXXXX	Elective - III	3	-
XXXXX	Elective - IV	3	-
Total		**12**	

FACULTY

FACULTY
Business Administration

Dr. M. Shujaat Mubarik
PHD (INDUSTRIAL ORGANIZATION),
UNIVERSITY OF MALAYA
ASSOCIATE PROFESSOR
ASSOCIATE DEAN

Dr. Shafiq-ur-Rehman
HOD ECONMOICS &
SOCIAL SCIENCES
PHD (ECONOMICS)
PROFESSOR

Dr. Shafqat Bukhari
PHD (PHILOSOPHY)
PROFESSOR

Mr. Abdul Ghaffar
M.COM/CMA (FINANCE/ICMA)
ASSISTANT PROFESSOR

Mr. Asif Saeed Naji
HOD FINANCE
MS (MANAGEMENT SCIENCES)
ASSOCIATE PROFESSOR

Dr. Sadaf Fatima
PHD (URDU)
ASSISTANT PROFESSOR

Mr. Ghulam Muhammad
MS (PAF-KIET)
ASSISTANT PROFESSOR

Syed Hasnain Alam Kazmi
MBA
HOD MANAGEMENT SCIENCE
ASSISTANT PROFESSOR

Mr. Muhammad Naeem Shaikh
MBA
ASSOCIATE PROFESSOR

Mr. Javed Hussain
M.COM (ACCOUNTING & FINANCE)
ASSISTANT PROFESSOR

Dr. Munir Hussain
PHD (EUROPEAN STUDIES),
MBA (UNITED KINGDOM)
ASSOCIATE PROFESSOR

Mr. Muhammad Salim
MS (FINANCE)
ASSOCIATE PROFESSOR

Mr. Abdul Wahab Khan
MS (Marketing)
Lecturer

Dr. Muhammad Rizwan Ul Hassan
PHD (ECONOMICS)
ASSISTANT PROFESSOR

Mr. Afaq Ali Khan
M.SC. (ECONOMICS)
ASSOCIATE PROFESSOR

Mr. Ghous Mohiuddin Qadri
MBA (MIS-Finance)
Lecturer

FACULTY Business Administration

Mr. Jehanzeb Khan
M.A (ENGLISH LINGUISTICS)
LECTURER

Mr. Khurram Nasarullah Khan
MBA (MARKETING)
LECTURER

Mr. Kashif Farhat
MS (MARKETING)
LECTURER

Mr. Muhammad Rehan
M.PHIL/M.A (ISLAMIC STUDIES & ENGLISH LITERATURE)
LECTURER

Mr. Rehan Muzamil Butt
MBA (MARKETING MANAGEMENT)
LECTURER

Mr. Salman Hameed
MS (HUMAN RESOURCE MANAGEMENT)
LECTURER

Mr. Saad Hamid Usmani
M.A (ENGLISH LITERATURE)
LECTURER

Ms. Saba Amanullah Khan
MAS (ECONOMICS)
LECTURER

Ms. Uzma Khan
MBA (HUMAN RESOURCE MANAGEMENT)
LECTURER

Mr. Zulfiqar Ahmed Farhan
MBA (MARKETING MANAGEMENT)
LECTURER

Mr. Ishtiaq Ahmed Kolachi
MA (ENGLISH LITERATURE)
LECTURER

Mr. Muhammad Shahzeb Khan
MBA (INTERNATIONAL MANAGEMENT)
LECTURER

Ms. Sana Riaz
M.SC. (FINANCE & INVESTMENT),
UNIVERSITY OF GREENWICH LONDON, UK
LECTURER

Mr. Humair Ali
MBA, UNIVERSITY OF SUNDERLAND, UK
LECTURER

Ms. Madiha Munaf
MA (ENGLISH LINGUISTICS)
JUNIOR LECTURER

Ms. Sundas Rauf
IBMA (MANAGEMENT & FINANCE)
LECTURER

Ms. Summaiya Aslam
BS-HONS (ENGLISH LITERATURE)
INSTRUCTOR

Mr. Muttahar Ahmed Khan
MA (ENGLISH)
ASSISTANT PROFESSOR

Dr. Aziz-Ur-Rehman Saifee
PHD (ARABIC LANGUAGE & LITERATURE)
ASSOCIATE PROFESSOR

FACULTY OF
COMPUTING & ENGINEERING

Dr. Asim Imdad Wagan

ASSOCIATE DEAN
FACULTY OF COMPUTING
& ENGINEERING

THE FACULTY OF COMPUTING & ENGINEERING AIMS AT PRODUCING PROFESSIONALS WHO CAN MEET THE CHALLENGES OF EMERGING INTERNATIONAL TRENDS IN ENGINEERING, INFORMATION TECHNOLOGY, COMPUTING AND RELATED DISCIPLINES.

To achieve this objective, we have a team of highly qualified and dedicated faculty members. We believe that academic excellence is not possible without a quality research environment. High emphasis is, therefore, placed on research.

In addition to providing strong theoretical foundations, our academic programs also place due emphasis on the applied aspects of the disciplines. For this purpose, the Faculty has established a strong liaison with Research & Development organizations and the industry.

The Faculty comprises of three departments: Department of Computer Science, Department of Electrical Engineering and Department of Computer Systems Engineering. Faculty of Computing & Engineering offers BE, BS, MCS, MS and PhD programs with different specializations. The Faculty has a large number of labs fulfilling the requirements of all of our programs. We have extensive alumni network, which is contributing effectively in the industry and thus paying its due share towards national growth.

DEPARTMENT OF **COMPUTER SCIENCE**

Dr. Shaukat Wasi

HEAD OF DEPARTMENT
COMPUTER SCIENCE

THE PROGRAMS OFFERED BY THE DEPARTMENT FOCUS ON PRODUCING HIGH QUALITY COMPUTER SCIENTISTS WITH A BROAD VISION AND STRONG ETHICAL VALUES ENSURING THAT THEY HAVE A SOLID FOUNDATION IN THE CORE CONCEPTS. WE EQUIP THEM WITH PROBLEM SOLVING AND DECISION-MAKING SKILLS, AND PREPARE THEM FOR LIFELONG LEARNING IN THE DISCIPLINE.

In order to produce graduates with a well-balanced personality, general awareness of social issues and basic reasoning capabilities, students are also required to take, in addition to core and elective courses of the discipline, a number of general courses in the area of humanities, social sciences, religion and ethics, languages and communication skills. The overall program provides a highly conducive environment and an excitement driven approach that encourages creativity to accomplish results.

BACHELOR OF SCIENCE
Computer Science

Program Objectives

BS Computer Science is a four-year degree program offered by the Department of Computer Science. This program is in alignment with Higher Education Commission (HEC) curriculum.

- To provide students with strong substance of theoretical and practical knowledge in computer science.
- To provide students with expertise in modern tool and technologies and induce competent skills of problem solving, analysis, design, modeling, team work, and communication.
- To provide students with awareness and knowledge of Social, Ethical, and Professional values relevant to Computer Science.

Learning Objective

- Students will have solid foundation of Computer Science to take up challenging tasks in theoretical and practical applications of Computer Science.
- Students should be able to develop sophisticated applications requiring expertise in analysis and design of algorithms. They will be able to work in research environment and contribute for the computer science community.
- Students should be able to develop computer science applications keeping human and social aspects into consideration.

Eligibility Criteria

- Intermediate / A-Levels or equivalent with minimum 45%

Selection Criteria

- MAJU Admission Test
- Interview

Degree Requirement

- This is a four-year degree program comprising 8 semesters with minimum of 135 Credit Hours .There will be a Fall and a Spring semester in each year. The Summer session will be utilized for internships or repeat courses. The maximum duration to complete BS is 7 years.

Internships

- All students have to undergo a mandatory 6-8 weeks internship arranged by the placement office. The internship is normally taken after passing 60 Credit Hours The internship is closely monitored by an internship coordinator. Successful competition of internship is a mandatory requirement for graduation.

Project

- A student may register final year project in the 7th semester of his / her degree program after satisfactory completion of 90 Credit Hours (or equivalent to the first six semester course load as per the scheme of studies of the BS (CS) program)

Degree Requirement

- Minimum CGPA 2.0
- Passed courses totalling at least 135 credit hours
- Internship

Plan of Study BS Computer Science

Semester-I			Pre-Req
CS 1113	Introduction to Computer Science	3+1	
CS 1123	Computer Programming	3+1	
HMC 1013	Freshman English	3	
MTC 1013	Calculus-I	3	
HMC 1012	Islamic Studies	2	
Total		**14+2**	

Semester-II			Pre-Req
CS 1133	Object Oriented Programming	3+1	CS 1123
EEC 1012	Electronics	2+1	-
HMC 1023	Oral Communication	3	-
MTC 1023	Calculus II	3	MTC 1013
CS 1512	Digital Logic Design	2+1	-
Total		**13+3**	

Semester-III			Pre-Req
CS 2522	Micropro. & Assembly Lang	2+1	CS 1512
CS 2142	Data Structure & Algorithms	2+1	CS 1123
HMC 1002	Pak Studies	2	-
HMC 2033	Technical Report Writing	3	-
MTC 2043	Linear Algebra	3	MTC 1013
MTC 1033	Discrete Structures	3	-
Total		**15+2**	

Semester-IV			Pre-Req
CS 2313	Database Management Systems	3+1	CS 2142
CS 3413	Operating Systems	3+1	CS 1123
CS 3613	Theory of Automata	3	-
CS 2163	Design & Analysis of Algorithm	3	CS 2142
MTC 2053	Probability & Statistics	3	-
Total		**15+2**	

Semester-V			Pre-Req
MTC 3063	Differential Equations	3	MTC 1013
HMC 2xx3	Humanities-I	3	-
CS 2213	Software Engineering	3	CS 2142
CS 3712	Dara Comm & Comp Networks	2+1	-
CS 3xx3	CS-Elect- I	3	-
CS 4622	Compiler Construction	2+1	CS 3613
Total		**16+2**	

Semester-VI			Pre-Req
CS 3812	Artificial Intelligence	3	MTC 1033
HMC 3xx3	Humanities II	3	-
CS 2533	Computer Arch. & Organization	3+1	CS 2522
MGT 3xx3	Management Elective-I	3	-
MTC 4073	Numerical Computing	3	MTC 1013
CS 4xx4	CS- Elect II	3	-
Total		**18+1**	

Semester-VII			Pre-Req
CS 4253	Human Comp Interaction	3	CS 2213
CS 4723	Information & Network Security	3	CS3712
CS 3xx3	CS-Elect-III	3	-
CS 4xx4	CS-Elect IV	3	-
CS 4xx4	CS-Elect V	3	-
CS 4913	Final Year Project (Part-1)	3	-
Total		**18**	

Semester-VIII			Pre-Req
CS 3173	Professional Issues on Comp	3	-
CS 4xx4	CS- Elect VI	3	-
MGT 4xx4	Management Elective-II	3	-
CS 4923	Final Year Project (Part II)	3	-
Total		**12**	

Registration in "Final Year Project-I" is allowed provided the student has earned at least 103 Credit Hours, and his / her CGPA is equal to or greater than the graduating CGPA (2.0).

Elective Courses

Elective Courses

Computer Science

Course Title	Cr. Hrs.
Data Warehousing & Data Mining	3
Cyber Forensics, Risk & Control	3
Wireless Communication and Networks	3
Mobile Application and Development	2
Mobile Application Development Lab	1
Web Application Development	2
Web Application Development Lab	1
Information and Network Security	3
Digital Image Processing	3
Cryptography and Cryptanalysis	3
Mobile Application Security & Testing	3
Computer Graphics & Animation	2
Computer Graphics & Animation Lab	1
Multimedia Systems and Applications	3
Software Project Management	3

Supporting Science Courses

Course Title	Cr. Hrs.
Calculus I	3
Calculus II	3
Linear Algebra	3
Probability and Statistics	3
Basic Electronics	2
Basic Electronics Lab	1
Differential Equations	3
Numerical Computing	3

Elective Courses

General Education/ University Elective Courses

Course Title	Cr. Hrs.
Pakistan Studies	2
Islamic Studies / Ethics	2
Freshman English	3
Oral Communications	3
Technical Report Writing	3
Humanities -I	3
Humanities -II	3
Management Elective -I	3
Management Elective -II	3

BACHELOR OF SCIENCE
Software Engineering

Program Objectives

BS Software Engineering is a four-year program offered by the Department of Computer Science. This program is in alignment with Higher Education Commission (HEC) curriculum.

- To provide students with strong substance of theoretical and practical knowledge in software engineering.
- To provide students with expertise in modern software development tools and technologies and induce competent skills of problem solving, analysis, design, modeling, team work, and communication.
- To provide students with awareness and knowledge of Social, Ethical, and Professional values relevant to Software Engineering.

Learning Objective

- Students will have in depth knowledge of principles of Software Engineering and Computer Science and should be capable of applying that knowledge.
- Students should be able apply the knowledge of Software Engineering. They would have expertise to use the latest software development methodologies and application of best practices. Will have expertise in evaluating customer needs and act in a professional manner to determine the precise needs.
- Students should be able to develop software applications keeping human and social aspects into consideration.

Eligibility Criteria

- Intermediate / A-Levels or equivalent with minimum 45% marks.

Selection Criteria

- MAJU Admission Test
- Interview

Duration

- This is a 4-year degree program comprising 8 semesters with minimum of 135 Credit Hours There will be a Fall and a Spring semester in each year. The Summer session will be utilized for internships or repeat courses. The maximum duration to complete BS is 7 years.

Project

- A student may register final year project in the 7th semester of his / her degree program after completion of 90 credit hours (or equivalent to the first six semester course load as per scheme of studies of the BS (SE) program).

Internships

- All students have to undergo a mandatory 6-8 weeks internship arranged by the placement office. The internship is normally taken after passing 60 Credit Hours The internship is closely monitored by an internship coordinator. Successful completion of internship is a mandatory requirement for graduation.

Degree Requirement

- Minimum 2.00 of 4.00 CGPA
- Passed courses totaling at least 135 credit hours
- Internship

Plan of Study BS Software Engineering

Semester-I			Pre-Req
CS 1113	Introduction to Computer Science	3+1	-
CS 1123	Computer Programming	3+1	-
HMC 1013	Freshman English	3	-
MTC 1013	Calculus-I	3	-
HMC 1012	Islamic Studies	2	-
Total		**14+2**	

Semester-II			Pre-Req
CS 1133	Object Oriented Programming	3+1	CS 1123
EEC 1012	Electronics	2+1	-
HMC 1023	Oral Communication	3	-
MTC 1023	Calculus II	3	MTC 1013
CS 1512	Digital Logic Design	2+1	-
Total		**13+3**	

Semester-III			Pre-Req
CS 2522	Micropro. & Assembly Lang	2+1	CS 1512
CS 2142	Data Structure & Algorithms	2+1	CS 1123
HMC 1002	Pak Studies	2	-
MTC 1033	Discrete Structures	3	-
HMC 2033	Technical Report Writing	3	-
MTC 2043	Linear Algebra	3	MTC 1013
Total		**15+2**	

Semester-IV			Pre-Req
CS 2313	Database Management Systems	3+1	CS 2142
CS 2163	Design & Analysis of Algorithm	3	CS 2142
CS 2213	Software Engineering	3	CS 2142
CS 3413	Operating System	3	CS 1123
MTC 2053	Probability &Statistics	3	
Total		**15+1**	

Semester-V			Pre-Req
SE 3243	Software Req. Engineering	3	CS 2213
HMC 2xx3	Humanities-I	3	-
SE 3253	Software Architecture	3	CS 2213
CS 3712	Data Comm & Comp Net.	2+1	-
CS 3173	Professional Issue in Comp	3	-
SE 3xx3	SE- Elect-I	3	-
Total		**17+1**	

Semester-VI			Pre-Req
SE 3183	Software Project Management	3	CS 2213
CS 2533	Computer Arch. & Organization	3+1	CS 2522
SE 3623	Formal Soft. Specification	3	CS 2213
SE 3223	Software Testing	3	CS 2213
SE 3xx3	SE- Elect- II	3	-
MGT 3xx3	Management Elective-I	3	-
Total		**18+1**	

Semester-VII			Pre-Req
CS 4253	Human Comp. Interaction	3	-
SE 4xx3	SE-Elect III	3	-
SE 4xx3	SE- Elect IV	3	-
SE 4xx3	SE- Elect V	3	-
HMC 4xx3	Humanities- II	3	-
CS 4913	Final Year Project (Part -1)	3	-
Total		**18**	

Semester-VIII			Pre-Req
SE 4xx3	SE-Elect VI	3	-
SE 4xx3	SE-Elect VII	3	-
SE 4xx3	SE-Elect VIII	3	-
MGT 4xx3	Management Elective- II	3	-
CS 4923	Final Year Project (Part- II)	3	-
Total		**15**	

Registration in “Final Year Project-I” is allowed provided the student has earned at least 102 credit hours, and his/her CGPA is equal to or greater than the graduating CGPA (2.0).

Elective Courses

Elective Courses

Elective Courses

Course Title	Cr. Hrs.
Software Metrics	3
Software Engineering Economics	3
Design Patterns	3
Software Quality Engineering	3
Enterprise Application Development	2
Enterprise Application Development Lab	1
Agile Software Development	3
Business Process Engineering	3
Data Warehousing & Data Mining	3
Cyber Forensics, Risk & Control	3
Mobile Application Development	2
Mobile Application Development Lab	1
Web Application Development	2
Web Application Development Lab	1
Information and Network Security	3
Computer Graphics & Animation	2
Computer Graphics & Animation Lab	1
Multimedia Systems and Applications	3
Usability Engineering	3

Supporting Science Courses

Course Title	Cr. Hrs.
Calculus I	3
Calculus II	3
Linear Algebra	3
Probability and Statistics	3
Basic Electronics	2
Basic Electronics Lab	1

Elective Courses

General Education / University Elective Courses

Course Title	Cr. Hrs.
Pakistan Studies	2
Islamic Studies / Ethics	2
Freshman English	3
Oral Communications	3
Technical Report Writing	3
Humanities -I	3
Humanities -II	3
Management Elective -I	3
Management Elective -II	3

MASTER OF COMPUTER SCIENCE

MCS Program

Program Objectives

- To provide students with pre-requisite theoretical and practical knowledge required for a successful career transi-
- tion towards computer science.
  To provide students with competent skills of problem solving, analysis, design, and modeling.
- To provide students with awareness and knowledge of Social, Ethical, and Professional values relevant to Computer Science.

Learning Objective

- Students will be able to balance between practical, up-to-date applications-oriented content, and a strong theoretical framework for continued learning.
- Students will gain an ability to use the techniques, skills, and modern computing tools necessary for practice.
- Student will be able to understand the impact of computing solutions in a global, economic, environmental, and societal context.

Eligibility Criteria

- Graduation in any discipline with minimum 45% marks or CGPA of 2.0.

Selection Criteria

- MAJU Admission Test
- Interview

Duration

- This is a 2 - 4 year degree program comprising 4 - 5 semesters with minimum of 60 credit hours. There will be a Fall and a Spring semester in each year. The summer session will be utilized for Project or repeat courses. The maximum duration to complete MCS is 4 years.

Degree Requirement

- Minimum 2.0 of 4.0 CGPA
- Project 03 credit hours

Plan of Study Master of Computer Science

Semester-I			Pre-Req
CS 1223	Introduction to Comp & Prog.	2+1	-
HMC 1024	Business & Oral Communication	3+0	-
MTC 1003	Maths for CS	3+0	-
EEC 1012	Electronics	2+1	-
CS 1512	Digital Logical Design	2+1	
Total		**12+3**	

Semester-II			Pre-Req
CS 1133	Object Oriented Prog.	2+1	CS 1223
MTC 1014	Calculus and Linear Algebra	3+0	MTC 1003
CS 3613	Theory of Automata	3+0	-
MTC 2053	Probability & Statistics	3+0	-
CS 2522	Computer Org & Assembly Lang	3+0	CS 1512
Total		**14+1**	

Semester-III			Pre-Req
CS 2142	Data Structures & Algorithms	3+0	CS 1133
CS 3XX3	Elective - I	3+0	-
CS 2213	Software Engineering	3+0	CS 2142
CS 4253	Human Computer Interaction	3+0	CS 2142
HU/MG	Elective	3+0	-
Total		**15+0**	

Semester-IV			Pre-Req
CS 3413	Operating Systems	3+0	CS 1123
CS 2313	Database Management Systems	2+1	MTC 1033
CS 4916	Capstone Project	3+0	CS 2142
CS 4XX4	Electiv - II	3+0	-
CS 3712	Data Comm & Comp Networks	3+0	-
Total		**14+1**	

Elective Courses

Elective Courses

Elective Courses

Course Title	Code	Cr. Hrs.
Numerical Computing	MTC 4073	3
Linear Algebra	MTC 2043	3
Web Application Development	CS 4173	3
Probability and Statistics	MTC 2053	3
Artificial Intelligence	CS 3813	3
Compiler Construction	CS 4623	3
Computer Graphics and Animations	CS 4513	3
Information and Network Security	CS 3713	3
Mobile Application and Development	CS 4193	3
Data Warehousing & Data Mining	CS 4223	3
Multimedia Systems and Applications	CS 4533	3
Software Project Management	SE 3183	3

MASTER OF SCIENCE
Computer Science

Program Objectives

- To provide students with strong substance of theoretical knowledge and research in computer science.
- To provide students with competent skills of solving complex computational problems and expedite in modern research in computer science.
- To provide students with awareness and knowledge of Social, Ethical, and Professional values relevant to Computer Science Research.

Learning Objectives

- Students will gain knowledge to balance between realistic, up-to-date applications-oriented content, and a strong theoretical framework for continued learning.
- Students should be able to apply theoretical and Computational skills to solve advanced scientific and/or engineering principles.
- Students will be able to develop skills for application of core knowledge, by means of training in contemporary design-and-development methodologies and application of those methodologies to individual, interdisciplinary, and team problem-solving activities.

Eligibility

- 16 years of education in relevant discipline with minimum 50% marks or CGPA of 2.0

Selection Criteria

- Admission Test / NTS GAT (General) – The admission test is exempted for those candidates who cleared NTS GAT with more than 60% marks.
- Interview

Specialization

- Computer Science
- Software Engineering
- Information & Network Security

Duration

- This is a 2-year degree program comprising 4 semesters with minimum of 30 Credit hours There will be a Fall and a Spring semester in each year. The summer session will be utilized for Project or repeat courses. The maximum duration to complete MS is 4 years.

Degree Requirement

- Minimum 2.0 of 4.0 CGPA.
- A student admitted to the MS Computer Science program will have to complete the degree requirements by following any one of the options listed below:

  1) 8 Courses and Thesis (6 credit hours)
  2) 9 Cources and Research Project (3 credit hours)
  3) 10 Courses

	Option 1	Option 2	Option 3
Core Courses	6	6	6
Specialization / Elective Courses	18	24	30
Research Thesis	6	3	0
Total	**30**	**33**	**36**

Degree Requirement

- Completion of 30 credit hours with thesis with minimum CGPA 2.5 of 4.00

Research Thesis

In case a student opts for Research thesis than he/she can take total of 8 courses followed by thesis:
The thesis is divided into two parts, Part I (3 credit hours), and Part II (3 credit hours).
Part I consists of three credit hours and concludes with a proposal defense.
The proposal consists of a detailed literature survey, problem definition and learning of technologies for the implementation/prototyping of the research to be done in the second part of the thesis (Part II).
It is highly recommended that student publish at least one research paper during his/her thesis research in a reputed conference or Journal.

Research Project

In case a student opts for Research Project then he/shee can take total of 9 courses followed by Research project of 3 cr. Hrs. A research project is normally a programing solution to a research/industry problem.

Plan of Study MS (Computer Science)

Semester-I			Pre-Req
CS 5123	Adv. Analy. of Algorithms	3	CS 2142
CS 5XX3	Advance Research Methods	3	-
CS 5XX3	Specialization / Elective – I	3	-
Total		**9**	

Semester-II			Pre-Req
CS 5413	Adv. Theory of Computation	3	CS 3613
CS 5XX3	Cloud Computing	3	-
CS 5XX3	Specialization / Elective – III	3	-
Total		**9**	

Semester-III			Pre-Req
CS 5XX3	Specialization / Elective – III	3	-
XX 5XX3	Floating Elective	3	-
CS 5XX3	CS Elective / Res. Thesis – I	3	Core courses must be completed
Total		**9**	

Semester-IV			Pre-Req
CS 5xx3	Specialization Elective – IV / Research Thesis – II / Research Project	3	-
Total		**3**	

Elective Courses

Elective Courses

Computer Science Specialization Courses

Course Title	Cr. Hrs.
Advanced Computer Graphics	3
Advanced Multimedia Systems	3
Advanced Computer Networks	3
Semantic Web	3
Information Engineering	3
Distributed Database Systems	3
Decision Support Systems	3
Applied Business Intelligence	3
Graph Modeling and Mining	3
Web Mining	3
Advance Graph Theory	3
Computation Intelligence	3
Advance Artificial Intelligence	3
Advance Database Management	3
Directed Study in Computing	3
Machine Learning	3
Simulation & Modeling	3
Distributed Computing	3

Elective Courses

Software Engineering Specialization Courses

Course Title	Cr. Hrs.
Advanced Software Architecture	3
Requirements Engineering	3
Software Engineering Processes	3
Software Project Management	3
Semantic Computing	3
Formal Methods in Software Engineering	3
Model and Specification Based Software Testing	3
Ontology Engineering	3
Safety-critical Systems	3
Software Fault Tolerance	3
Software Quality Assurance and Testing	3
Advanced Software Engineering	3
Special Topics in Software Systems & Engineering	3
Advanced Software Project Management	3
Advance Software Quality Assurance	3
Directed Study in Computing	3
Advance Design Patterns	3

Information & Network Security Specialization Courses

Course Title	Cr. Hrs.
Cloud Computing	3
Network Collaboration	3
Data Center Design	3
Routing & Switching	3
Network Security	3
Wireless Networks	3

Elective Courses

Other Electives

Course Title	Cr. Hrs.
Research Methodology	3
Software Methodologies	3
Enterprise System Architecture	3
Advanced Data Structures	3
Database and Information Systems	3
Formal Software Specification and Development	3
Topics in Object-Oriented Analysis & Design	3
Software Analysis and Design Patterns	3
Advanced Cryptography	3
Network Security & Management	3
Software Risk Management	3
Software Design, Process & Metrics	3
Web and Wireless Based Multimedia Systems	3
Grid Computing	3
Parallel Processing	3
Topics in Communication Networks	3
Neural Computing and Genetic Algorithms	3

DOCTOR OF PHILOSOPHY (PhD)

Computer Science

Program Objectives

The leading goal of the PhD program is to originate outstanding computer scientists who are competent of accomplishing high-quality research, have a sufficiently profound understanding of the subject to be able to make noteworthy contributions to academic institutions and industry. The program is planned to endow students with an opportunity to attain the maximum potential expertise in their preferred field through intensive research. Moreover, the program is meant to ensure that excellent research skills are cultivated in the doctoral students. Our PhD program is distinguished by the excellence of the faculty with a long tradition of pioneering research and serves to produce up-to-date and experienced professionals in various fields of computer science.

Learning Objective

The PhD in Computer Science is a research degree, which culminates in a distinctive dissertation that reveals original and creative research. To prepare scientific/educational manpower with intensity of knowledge and research proficiency of international echelon to fill positions in research organizations, industry, management, universities, health care and educational institutions. Development of methodical and/or experimental knowledge through a blend of specialized courses, and a research thesis under the supervision of an experienced researcher outline the core constituent of the doctoral program. To contribute to the study of the delineation and depiction of information and the theory, design, analysis, implementation, and application of algorithmic processes that transforms information. Students receive advanced training in the scientific principles and technology required to develop, and evaluate new computer systems and applications. The program also enables students to churn out publishable research for journals and conferences of international repute.

Admission Requirements

- a. MAJU Test / GAT Subjective
- b. Interview
  17/18 years of relevant education with minimum CGPA 3.0

Degree Requirements

- All the admitted students in PhD program need to complete the coursework comprising 6 courses (total 18 credit hours). It will be followed by 30 credits of research thesis.
- Research Thesis: The student can start work on PhD thesis only after:
  i. Passing the Comprehensive Exam, and
  ii. Acceptance of synopsis by the Graduate Studies Committee.
- PhD Dissertation

Duration

- Minimum duration to complete PhD is 3 years.
- Maximum duration to complete PhD is 6 years.

Plan of Study PhD (Computer Science)

Semester-I			Pre-Req
XXXXX	Advance Research Methods	3	-
XXXXX	Advance Topics in CS	3	-
XXXXX	CS / Elective – I	3	-
Total		**9**	

Semester-II			Pre-Req
XXXXX	CS Elective - II	3	-
XXXXX	CS Elective - III	3	-
XXXXX	CS Elective - IV	3	-
Total		**9**	

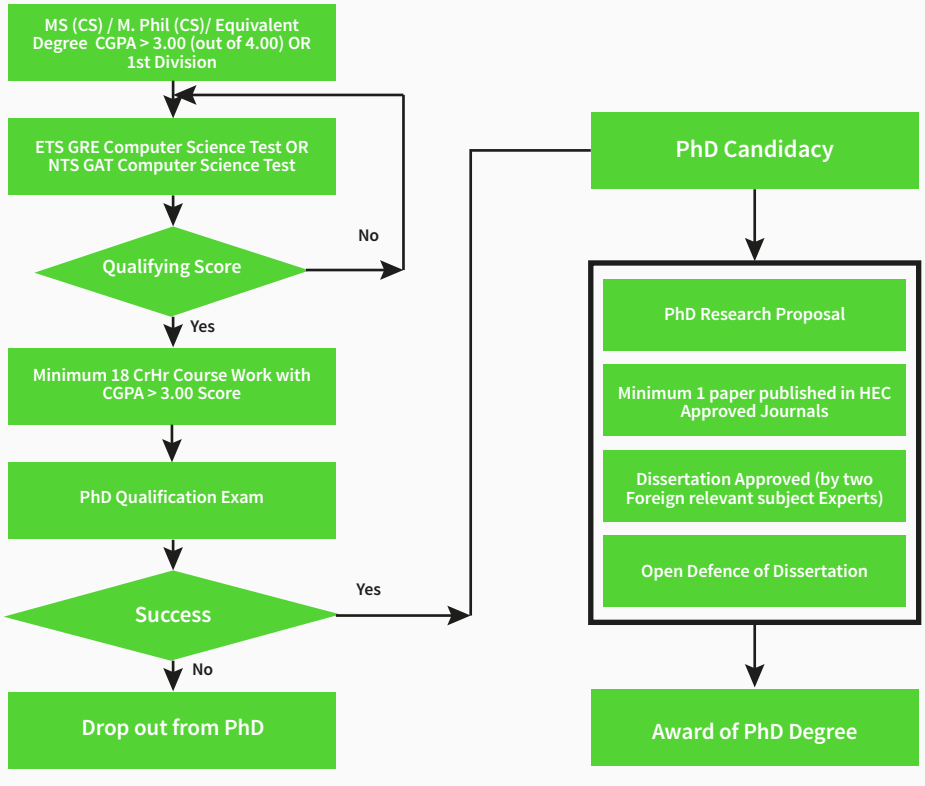
Semester-III			Pre-Req
XXXXX	Research Thesis - I	6	-
Total		**6**	

Semester-IV			Pre-Req
XXXXX	Research Thesis - II	6	-
Total		**6**	

Semester-V			Pre-Req
XXXXX	Research Thesis - III	6	-
Total		**6**	

Semester-VI			Pre-Req
XXXXX	Research Thesis - IV	6	-
Total		**6**	

PhD
Flow Chart



DEPARTMENT OF
ELECTRICAL ENGINEERING

Dr. S. M. Ghazanfar Monir

HEAD OF DEPARTMENT
ELECTRICAL ENGINEERING

THE DEPARTMENT OF ELECTRICAL ENGINEERING IS DEDICATED TO CONTINUED INNOVATION THROUGH ITS HIGH QUALITY ACADEMIC PROGRAMS AND COMPETITIVE RESEARCH.

The department offers undergraduate and graduate programs in Electrical Engineering. We consider educating and nourishing the next generation of engineers as a key role in the technological development of the society. The faculty at Electrical Engineering Department, equipped with vast industrial, academic and research experience is instrumental in providing excellence both theoretically and practically.

BACHELOR OF ENGINEERING

Electrical Engineering

Program Objectives

The BE (Electrical) program at Department of Electrical Engineering will fulfill the vision and mission of the University by producing graduates who:

- **PEO 1:** will be leaders in industry or academia by demonstrating their knowledge and technical and managerial skills for the benefit of Society's built and natural environments.
- **PEO2:** will exhibit quest for learning and initiative by continuously broadening their abilities and enhancing their technical skills to maintain their relevance with technological change.
- **PEO 3:** will demonstrate commitment to ethical practices, community service and societal contribution.

Learning Outcomes

- Graduates of the program are expected to have an ability to:

  i **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

  ii **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusion using first principles of mathematics ,natural sciences and engineering sciences.

  iii **Design/Development of Solutions:** Design solution for complex engineering problems and design system, components or processes that meet specified need with appropriate consideration for public health and safety, cultural, societal and environmental consideration.

  iv **Investigation:** Investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments.

  v **Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools, including prediction and modeling, to complex engineering activities with an understanding of the limitations.

  vi **The Engineer and Society:** Apply reasoning information by contextual knowledge to assess societal, health,safety,legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and demonstrate knowledge of and need for sustainable development.

  vii **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

  viii **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and for sustainable development.

  ix **Individual and Team Work:** Work effectively, as an individual or in a team, on multifaceted and/or multidisciplinary settings.

  x **Communication:** Communicate effectively, orally as well in writing, on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective report and design documentation, make effective presentations, and give and receive clear instructions.

  xi **Project Management:** Demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.

  xii **Lifelong Learning:** Recognize importance of, and pursue lifelong learning in broader context of innovation and technological developments.

Eligibility

- Higher Secondary School Certificate or Equivalent with Physics, Mathematics and Chemistry securing at least 60% marks in aggregate. OR
- Diploma of Associate Engineer Examination in Electrical / Electronic securing at least 70% aggregate marks.

Selection Criteria

- Matriculation: 10%
- Intermediate / Equivalent : 40%
- Admission Test: 50%

Duration

- This is a four years degree program comprising of 8 semesters. There is a Fall and a Spring semester in each year. The summer semester is utilized for internship or deficiency courses. The maximum duration to complete the BE program is 7 years.

Degree Requirements

- Each candidate of BE (Electrical Engineering) is required to complete successfully at least 136 credit hours with a minimum 2.0 of 4.0 CGPA.
- It is mandatory for every student to complete a senior design project. The student may register for the project after the 6th semester or after completing 90 credit hours of course work.
- All students have to undergo a mandatory 6-8 week internship arranged by the placement office. The internship is normally taken after passing 60 credit hours. The internship is closely monitored by an internship coordinator. Successful completion of internship is a mandatory requirement for graduation.

Plan of Study BE (Electrical Engineering)

Semester-I			Pre-Req
HU1101	English-I (Functional English)	3+0	-
NS1201	Engineering Physics	3+1	-
NS1102	Calculus and Analytical Geometry	3+0	-
CE1101	Introduction to Computing	1+1	-
CE1202	Digital Logic Fundamentals	3+1	-
EE1202	Workshop Practice	0+1	
Total		13.4	

Semester-II			Pre-Req
HU1102	English-II (Communication Skills)	3+0	HU1101
NS1103	Linear Algebra	3+0	-
NS1104	Applied Differential Equations	3+0	NS1102
CE1103	Computer Programming	2+1	-
EE1101	Linear Circuit Analysis-I	3+1	-
Total		14+2	

Semester-III			Pre-Req
NS2105	Complex Variables and Transforms	3+0	NS1102
CE2104	Data Structures and Algorithms	2+1	CE1103
EE2103	Linear Circuit Analysis - II	3+0	EE1101
EE2304	Fundamentals of Electronics	3+1	EE1101
EE2205	Engineering Drawing	1+1	-
ME2101	IDEE - I	3+0	-
Total		15+3	

Semester-IV			Pre-Req
HU2203	Pakistan Studies	2+0	-
HU2304	Management Science Elective - I	3+0	-
ME2102	IDEE - II	3+0	-
EE2106	Signals & Systems	3+0	NS1104
EE2407	Electromagnetic Fields	3+0	NS2105
EE2308	Electronics Circuit Design	3+1	EE2304
Total		17+1	

Semester-V			Pre-Req
NS3106	Numerical Methods	3+0	NS1104
CE3205	Microprocessors	3+1	CE1202
NS3107	Probability Method in Engineering	3+0	NS1102
EE3309	Linear Integrated Circuits & Applications	3+1	EE2308
EE3110	Electrical Machines	3+1	EE2103
Total		15+3	

Semester-VI			Pre-Req
HU3105	Technical Report Writing	3+0	HU1102
MG3101	Management Science Elective - II	3+0	
EE3111	Linear Control Systems	3+1	NS1104
EE3312	Instrumentation and Measurements	3+1	EE2106
EE3513	Communication Systems	3+1	EE3309
Total		15+3	

Semester-VII			Pre-Req
HUXXXX	Humanities Elective - I	3+0	-
EEXXXX	Depth Elective - I	3+1	-
EEXXXX	Depth Elective - II	3+1	-
EEXXXX	Depth Elective - III	3+0	-
EE4001	Senior Design Project Part I	0+2	-
Total		12+4	

Semester-VIII			Pre-Req
HUXXXX	Humanities Elective - II	3+0	-
HU4206	Islamic Studies / Ethics	2+0	-
EEXXXX	Depth Elective - IV	3+1	-
EEXXXX	Depth Elective - V	3+0	-
EE4002	Senior Design Project Part - II	0+4	-
Total		11+5	

Registration in “Senior Design Project-I” is allowed provided the student has earned at least 90 credit hours, and his/her CGPA is equal to or greater than the graduating CGPA (2.0).

Elective Courses

Engineering Depth Electives

Course Title	Cr. Hrs.
Power Electronics	3 + 1
Microwave and Antenna	3 + 1
Industrial Control and Automation	3 + 1
Computer Communication Networks	3 + 1
FPGA-Based System Design	3 + 1
Digital Image Processing	3 + 0
Introduction to Robotics	3 + 1
Digital Control Systems	3 + 0
Digital Signal Processing	3 + 1
Wireless and Mobile Communication	3 + 0
Digital Communication	3 + 0
Transmission and Switching Systems	3 + 0
Power System Analysis	3 + 0
Electrical Machines – II	3 + 1
Electrical Power Transmission	3 + 1
Power System Stability and Control	3 + 0
Energy Conversion	3 + 0

Management Science Electives

Course Title	Cr. Hrs.
Engineering Economics	3 + 0
Project Management Engineering	3 + 0

Inter Disciplinary Engineering Elective (IDEE)

Course Title	Cr. Hrs.
Engineering Thermodynamics	3 + 0
Engineering Mechanics	3 + 0
Introduction to Environmental Engineering	3 + 0

Humanities Elective

Course Title	Cr. Hrs.
Foreign Language	3 + 0
Technology Enterprenership	3 + 0
Engineers and Society	3 + 0
Strategic Visions	3 + 0
Environmental Issues	3 + 0

UPOK

MASTER OF SCIENCE
Electrical Engineering

Program Objectives

The purpose of the MS (EE) program is to provide students with necessary theoretical knowledge and practical skills required.

- For handling engineering research problems
- To further their undergraduate knowledge of mathematics, science, and engineering
- To be able to identify, formulate and solve complex engineering problems
- To have in-depth knowledge of their area of specialization and enable them to understand the impact engineering solutions in a global, economic, environmental, and societal context
- To be able to recognize of the need for engaging in life-long learning
- To impart knowledge of contemporary issues in their area of specialization.
- To create the ability to use modern simulation and modeling tools
- To enable to conduct meaningful research in the area of specialization and present their work for peer review

Eligibility

- A minimum of 16 years of education leading to BS / BE degree or equivalent in Electrical / Electronic / Computer / Telecom Engineering (or related disciplines) with a minimum 2.00 of 4.00 CGPA.

Selection Criteria

- Admission Test / NTS GAT
- Interview.

Specialization

- Control Systems
- Signal Processing
- Power Electronics

Duration

- This is normally a two years' program comprising of 4 semesters. There will be a Fall and a Spring semester in each year. The maximum duration to complete MS in Electrical and Computer Engineering is 4 years.

Degree Requirements

- A student admitted to the MS(EE) program will have to complete the degree requirements by following any one of the options listed below:

Area	Cr. Hrs.	
	Option 1	Option 2
Core Courses	12	12
Specialization / Elective Courses	18	12
Research Thesis	0	6
Total	**30**	**30**

- The student must have a minimum 2.5 of 4.0 CGPA in the coursework to be eligible for MS (EE) degree.

Plan of Study of MS (Electrical Engineering)

Semester-I			Pre-Req
XXX6XX3	Core - I	3	-
XXX6XX3	Core - II	3	-
XXX6XX3	Elective - II	3	-
Total		**9**	

Semester-II			Pre-Req
XXX6XX3	Core - III	3	-
XXX6XX3	Elective - I	3	-
XXX6XX3	Elective - III	3	-
Total		**9**	

Semester-III			Pre-Req
XXX6XX3	Elective - IV	3	-
XXX6XX3	Elective - V / Thesis - I	3	-
Total		**6**	

Semester-IV			Pre-Req
XXX6XX3	Elective - VI	3	-
XXX6XX3	Elective - VII / Thesis - II	3	-
Total		**6**	

Elective Courses

Elective Courses

Elective Courses

Course Title	Cr. Hrs.
Nonlinear Control Systems	3
Digital Control Systems	3
Control Systems Design	3
Robust Control Systems	3
Advanced Digital Signal Processing	3
Advanced Digital Image Processing	3
Adaptive Signal Processing	3
Pattern Recognition	3
Computer Vision	3
Power Electronic Systems	3
Special Topics in Power Electronics	3

The list is non-exhaustive and more courses can be offered depending upon the availability of the instructor.

DOCTOR OF PHILOSOPHY (PhD)

Electrical Engineering

Program Objectives

- To enable students to engage in advanced study and research.
- To foster original and scholarly research.
- To enable the graduates to integrate their professional education and experience with the larger profession of in the field of electrical engineering

Learning Outcomes

Graduates of PhD Program will be able to:

i. Critically apply theories, methodologies, and knowledge to address fundamental questions in their primary area of study.

ii. Pursue research of significance in the discipline or an interdisciplinary or creative project.

iii. Demonstrate skills in oral and written communication sufficient to publish and present work in their field.

iv. Demonstrate a mastery of skills and knowledge at a level required for college and university undergraduate teaching in their discipline and assessment of student learning.

Eligibility

- For admission into the PhD program a minimum 3.0 of 4.0 CGPA (in the Semester System) or First Division (in the Annual System) in MS or Equivalent shall be required
- A GAT (Subject) test with minimum of 60% marks or GRE (subject) test having 60 or higher percentile shall be required for the confirmation of admission in the PhD program
- PhD admission interview

Selection Criteria

- A full-time PhD student admitted in the PhD program can complete the program in a minimum of 03 years and a maximum of 05 years from the date of admission. Part-time PhD student may take up to seven years to complete the program.

Degree Requirements

A student admitted to PhD program will have to complete the following degree requirement. The degree requirement may change as per the HEC policy issued from time to time.

- 18 Credit hours Course Work with minimum CGPA 3.00 / 4.00.
- 30 Credit hours Research Work
- Comprehensive Examination
- Research Synopsis
- Publication / Acceptance of at least one research paper in ISI impact factor journal.
- Foreign Evaluation
- Local Defense

Plan of Study PhD (Electrical Engineering)

Semester-I			Pre-Req
XXXXX	Elective - I	3	-
XXXXX	Elective - II	3	-
XXXXX	Elective - III	3	-
Total		**9**	

Semester-II			Pre-Req
XXXXX	Elective - IV	3	-
XXXXX	Elective - V	3	-
XXXXX	Elective - VI	3	-
Total		**9**	

Semester-III (Onwards)			Pre-Req
XXXXX	Research	30	06 courses and comprehensive exam
Total		**30**	

DEPARTMENT OF
COMPUTER SYSTEMS ENGINEERING

Dr. M. Khaliq-ur-Rahman Raazi

HEAD OF DEPARTMENT
COMPUTER SYSTEM ENGINEERING

DEPARTMENT OF COMPUTER SYSTEMS ENGINEERING AT MOHAMMAD ALI JINNAH UNIVERSITY ENDEAVORS TO PRODUCE COMPETENT SCIENTISTS, AND ENGINEERS WHO CAN PLAY A PRODUCTIVE ROLE BOTH IN THE PRACTICAL AND RESEARCH AREAS OF COMPUTING. THE FACULTY USES MODERN TECHNOLOGIES TO ENHANCE THE LEARNING CAPABILITIES OF THE STUDENTS, AND TO PROVIDE THEM WITH A STIMULATING AND CHALLENGING ENVIRONMENT.

Emphasis is put on the practical applications of computer systems to the software and hardware needs of the industry. Strong partnerships with industry and funded research provide great opportunities for undergraduate students to carry their research, projects and internships. Other pragmatic learning programs provide opportunities for students to gain relevant real-world experience during their program of study.

In addition to the professional development of the students, a conducive environment is provided to enhance their personality and ethical values. This enables our Engineering graduates to positively contribute in their professional engineering career as well as in society.

BACHELOR OF ENGINEERING

Computer Systems Engineering

Program Objectives

The graduates of the program of Bachelors of Computer Systems Engineering will be equipped with skills to demonstrate an understanding of key technologies applicable within the main areas of Computer Systems Engineering. The main objectives of this program are

- To produce practicing and employable engineers who have sound theoretical foundation and practical capabilities in computer engineering to serve in industry, academia and related organizations.
- To produce graduates who can use their up to date knowledge of automation and distributed systems along with problem solving techniques and modern tools to solve complex design problems in the field of computer systems engineering and its applications.
- To produce engineers who know the social, ethical, and environmental aspects of their work.
- To produce computer engineers who have good leadership skills and can work effectively in a team.
- To produce graduates who can stay current with technological and IT innovations through lifelong learning, higher education or research.

Learning Outcomes

- At the end of this program, the students are expected to have:

i **Engineering Knowledge:** Ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

ii **Problem Analysis:** Ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

iii **Design/Development of Solutions:** Ability to design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.

iv **Investigation:** Ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.

v **Modern Tool Usage:** Ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities, with an understanding of the limitations.

vi **The Engineer and Society:** Ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.

vii **Environment and Sustainability:** Ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

viii **Ethics:** Ability to apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

ix **Individual and Team Work:** Ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.

x **Communication:** Ability to communicate effectively, orally as well as in writing, on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

xi **Project Management:** Ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.

xii **Lifelong Learning:** Ability to recognize importance of, and pursue lifelong learning in the broader context of innovation and technological developments.

Eligibility

- Higher Secondary School Certificate / A levels or Equivalent with physics, mathematics and chamistry / computer science securing at least 60% marks in aggregate.
- Diploma of Associate Engineer Examination in relevant disciplines securing at least 70% aggregate marks.

Selection Criteria

- MAJU Admission Test
- Interview
- Matriculation
- Intermediate

Duration

- This is a four years' degree program comprising of 8 semesters. There is a Fall and a Spring semester in each year. The summer semester is utilized for Business research project; Internship or deficiency courses. The maximum duration to complete the BS program is 7 years.

Degree Requirement

- Completion of 134 credit hours as per the study plan with a minimum 2.0 of 4.0 CGPA.

- **Senior Design Project:** It is mandatory for every student to complete a Senior Design project following the 6th semester after the completions of 90 credit hours of course work.

- **Internship:** All students have to undergo a mandatory 6-8 weeks' internship arranged by the placement office. The internship is normally taken after passing 60 credit hours. The internship is closely monitored by an internship coordinator. Successful competition of internship is a mandatory requirement for graduation.

Plan of Study of BE (Computer Systems Engineering)

Semester-I			Pre-Req
HU1101	English I (Functional English)	3+0	-
NS1102	Calculus and Analytical Geometry	3+0	-
NS1201	Engineering Physics	3+1	-
CE1106	Computing Fundamentals	1+1	-
CE1213	Workshop Practice	0+1	-
CE1202	Digital Logic Fundamentals	3+1	-
Total		13.4	

Semester-II			Pre-Req
HU1102	English II (Communication Skills)	3+0	-
NS1108	Linear Algebra and Differential Equations	3+0	-
NS1109	Discrete Structures	3+0	-
CE1103	Programming Fundamentals	2+1	-
EE1101	Linear Circuit Analysis-I	3+1	-
Total		14+2	

Semester-III			Pre-Req
NS2105	Complex Variables and Transforms	3+0	NS1102
CE2104	Data Structures and Algorithms	2+1	CE1103
EE2103	Linear Circuit Analysis-II	3+0	EE1101
EE2304	Fundamentals of Electronics	3+1	EE1101
CE2107	Object Oriented Programming	3+1	CE1103
Total		14+3	

Semester-IV			Pre-Req
HU2203	Pakistan Studies	2+0	-
HU2304	Engineering Economics	3+0	-
CE2208	Computer Architecture and Organization	3+1	CE1202
EE2106	Signals & Systems	3+0	-
CE2114	Computer Application in Engineering Design	1+1	-
EE2308	Electronic Circuit Design	3+1	CE1202
Total		15+3	

Semester-V			Pre-Req
NS3106	Numerical Methods	3+0	NS1108
CE3205	Microprocessors	3+1	CE2208
CE3313	Operating Systems	3+1	CE2104
CE3309	Data Communication and Networks	3+1	CE2104
CE3110	Database Management Systems	3+1	CE2104
Total		15+4	

Semester-VI			Pre-Req
HU3105	Technical Report Writing	3+0	HU1102
MG3101	Engineering Project Management	3+0	-
CE3411	Artificial Intelligence	3+0	CE2104
CE3312	Parallel and Distributed Computing	3+0	CE2208, CE3313
NS3107	Probability Methods in Engineering	3+0	NS1102
CEXXXX	Depth Elective-I	3+1	-
Total		18+1	

Semester-VII			Pre-Req
HUxxxx	Humanities-I	3+0	-
CExxxx	Depth Elective – II	3+1	-
CExxxx	Depth Elective – III	3+1	-
CExxxx	Depth Elective – IV	3+0	-
CE4001	Senior Design Project-I	0+2	-
Total		12+4	

Semester-VIII			Pre-Req
HUXXXX	Humanities-II	3+0	-
HUXXXX	Islamic Studies / Ethics	2+0	-
CEXXXX	Depth Elective-V	3+0	-
CE4002	Senior Design Project-II	0+4	CE4001
Total		8+4	

Registration in "Final Year Project-I" is allowed provided the student has earned at least 90 credit hours, and his/her CGPA is equal to or greater than the graduating CGPA (2.0).

Elective Courses
(Depth Electives)

Elective Courses

CSE Courses

Course Title
Digital Signal Processing
Digital System Design
Embedded Systems
Software Engineering
Manual Networks and Fuzzy Logic
Communication Systems
Digital Image Processing
Fault Tolerant Computing
Deep Learning Architectures
Machine Learning
Computer Vision
Sensor Fusion
Internet of Things
Robotics
Systems Programming
Network Protocols & Standards
Routing & Switching
Cloud Computing
Advanced Operating Systems
Data Center Design
Disaster Recovery

FACULTY

FACULTY
Computing & Engineering

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ASSISTANT PROFESSOR

Engr. Dr. Asim Imdad
PHD (COMPUTER VISION / MACHINE LEARNING),
INSA DE LYON, FRANCE
ASSOCIATE DEAN

Dr. Ahmed Ali Shah
PHD (APPLIED MATHEMATICS)
UNIVERSITY OF KENT, ENGLAND
PROFESSOR

Dr. Asmat Ara
PHD (APPLIED MATHS)
ASSISTANT PROFESSOR

Dr. Syed Mohammad Ghazanfar Monir
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Mr. Aamir shaikh
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ASSISTANT PROFESSOR

FACULTY Computing & Engineering

Mr. Khalid Mahmood Dar
MS (CS)
ASSISTANT PROFESSOR

Muhammad Kashif Khan
MS, MOHAMMAD ALI JINNAH UNIVERSITY, KARACHI
ASSISTANT PROFESSOR

Ms. Nazish Nouman
MS (SOFTWARE ENGINEERING)
ASSISTANT PROFESSOR

Mr. Aqeel Tahir
ME (ELECTRONIC ENGINEERING)
LECTURER

Ms. Fouzia Naz
MS (COMPUTER SCIENCE)
LECTURER

Hafiz Muhammad Sohaib Azhar
ME (TELECOMMUNICATION)
LECTURER

Muhammad Farooq Shibli
MS (SOFTWARE ENGINEERING)
LECTURER

Mr. Waheed Uddin Hyder
MS, BE (ELECTRONIC ENGINEERING, TELECOMMUNICATION)
LECTURER

Ms. Sehrish Faraz
MS (CS)
ASSISTANT PROFESSOR

Mr. Imran
MS (NETWORKS & TELECOM)
LECTURER

Ms. Moomal Turk
ME (I.T)
LECTURER

Ms. Hira Farman
MCS (COMPUTER SCIENCE)
JUNIOR LECTURER

Ms. Amina Amin Rajput
MS, BE (ELECTRONIC ENGINEERING)
JUNIOR LECTURER

Mr. Muhammad Suffian
BACHELOR OF COMPUTER SCIENCE
LAB INSTRUCTOR

Mr. Saif Hassan
BACHELOR OF COMPUTER SCIENCE
LAB INSTRUCTOR

Ms. Kanwal Iqbal
BACHELOR OF COMPUTER SCIENCE
LAB INSTRUCTOR

Mr. Muhammad Hussain Mughal
MS (COMPUTER SCIENCE)
ASSISTANT PROFESSOR

Mr. Muhammad Yaseen Khan
MS (SOFTWARE ENGINEERING)
SENIOR LECTURERASSISTANT PROFESSOR

RULES AND REGULATIONS

Definitions

Active Registration:	A semester in which a scholar/candidate registered
BASR:	Board of Advanced Studies and Research of the University
Candidate:	A Ph.D scholar, who has completed course work, qualified comprehensive examination and research synopsis.
CGPA:	Cumulative Grade Point Average
Chairman:	Chairman of the Ph.D Defense Committee
Committee:	Examination Committee
Consecutive Semesters:	Two continuous semesters i.e., Spring & Fall
Dean:	Dean of the concerned faculty
Department:	Teaching Department in which a student is admitted.
Examiner:	A person with PhD degree from the relevant field.
Foreign Expert:	Expert from technologically/Economically advanced foreign countries.
GAT:	Graduate Assessment Test by National Testing Service
GPA:	Grade Point Average
GRE:	Graduate Record Examination by Educational Testing Services, USA
Impact Factor Journal:	Journal which is indexed in 'Thomson Reuters Journal Citation Reports'
NTS:	National Testing Service
SAT:	Scholastic Assessment Test
SCH:	Semester credit hours
Scholar:	A student who has been awarded admission in MS/PhD
Student:	Student of Mohammad Ali Jinnah University
Supervisor:	Supervisor of the research work of the scholar
University:	Mohammad Ali Jinnah University, Karachi

GENERAL RULES & REGULATIONS

1.1. Admission

1.1.1. The University shall invite applications for admissions in various academic programs through publication of advertisement.

1.1.2. There shall be an admission test for each program and the applicants with 50% NTS/SAT/GAT may be exempted from the admission test. NTS/SAT/GAT percentage of an applicant shall be equated to admission test percentage conducted by the university.

1.1.3. O/A levels percentages shall be equated to Matric and Intermediate level percentages respectively.

1.1.4. The admission requirements and roadmap of each degree program shall be made available on the university website or in prospectus published from time to time.

1.1.5. A result awaiting candidate can apply for admission by furnishing a certificate that he/she has already appeared in the exam and hoping to meet minimum percentage required for the program.

1.1.6. If a candidate fails to provide the result within prescribed time, or fails to attain the required percentage, his/her admission shall stand cancelled. No admission fee shall, however, be charged if such candidate applies for fresh admission.

1.1.7. In case of incorrect or forged information the admission shall be cancelled and no transcript shall be issued.

1.1.8. A candidate seeking admission in the university shall abide by all its rules, regulations and policies published by the university from time to time.

1.2. Fee Refund Policy

1.2.1. If a 1st semester student decides to withdraw from the University after having registered he/she shall be entitled for full tuition fee refund provided that:

1.2.1.1. Admission Fee is non-refundable

1.2.1.2. The withdrawal is requested, in writing, after 7 calendar days of the start of semester

1.2.1.3. If the applicant was a result awaiting candidate and failed to achieve minimum percentage required for the program then he must request for refund within 1st week after the announcement of result

1.3. Semester Credit Hour

1.3.1. A course semester credit hour (SCH) is defined as one hour of class work per week for sixteen weeks.

1.3.2. A laboratory semester credit hour shall be three hours of practical lab work per week for sixteen weeks.

1.4. Academic Year

1.4.1. There shall be two regular semesters i.e., Fall and Spring in an academic year. Each Semester shall have 16 teaching weeks.

1.4.2. A Summer semester is of 08 weeks duration and is usually used for internship, business projects and makeup courses.

1.4.3. A limited number of courses, on the discretion of a department, may be offered in a Summer semester.

1.5. Assessment of Tution Fee

1.5.1. Fee shall be charged per course as determined by the university from time to time.

1.5.2. Tuition fee for the registered courses shall be paid within due time period to

validate the registration.

1.5.3. A student with fee default status shall not appear in the attendance roll and there shall be no attendance correction afterwards.

1.5.4. If the fee is not paid, within the prescribed time, the registration of the course(s) shall stand cancelled.

1.5.5. For all practical purposes cancelled course(s) shall be deemed as if they were never registered.

1.6. Credit Transfer Policy

1.6.1. Transfer credits may be accepted for work completed at a recognized Pakistani or foreign university and an original transcript issued by the university which administered the examination shall be submitted.

1.6.2. Only those courses/credits shall be transferred in which the candidate has got grade C or higher and they can be part of applicants' degree program at MAJU.

1.6.3. Each transfer credit case shall be examined on its merit by the Admission Department in consultation with the respective HoD.

1.6.4. Accepted credit hours, without grades, shall appear on the transcript.

1.6.5. Maximum credits transferred shall not exceed 50% of the total credit hours required for the degree program.

1.6.6. The department has the exclusive right to accept or reject any request of transfer of course /courses.

1.6.7. A student with transfer credit hours shall not be eligible for a university medal.

1.6.8. In case of change of Academic Program within university, both grades and credits will be transferred and shown on transcript. The change of Academic Program will only be permitted subject to fulfillment of the eligibility and merit of respective program, availability of the seat and subsequently, approval of the President. Application for change of Academic Program will be submitted on the prescribed proforma to HoD

1.7. Add / Drop

1.7.1. A student may add or drop a course within first 2 weeks of the semester. A course dropped will be deemed as if it was never registered.

1.8. Withdrawal

1.8.1. If a student decides not to continue in a course, and add/drop time has expired, he/she may withdraw from the course within twelve weeks from the start of the semester.

1.8.2. A course withdrawn will be reported on the transcript with a W status.

1.8.3. A withdrawn course shall not be counted towards the calculation of GPA.

1.8.4. A withdrawn course shall be treated as a registered course for the evaluation of tuition fee.

1.9. Repeat & Substitute a Course

1.9.1. Repeated courses shall replace originally taken course in the transcript. However, in the remarks section repeat counted shall be mentioned.

1.9.2. A student may substitute an elective course with another elective course. Such a substitution shall be treated as a repeat course.

1.9.3. A student can repeat not more than 6 courses in undergraduate program and 3 courses in graduate program within permitted time duration but prior to the degree completion.

1.9.4. Substitution shall be allowed, with the recommendation of HoD and approved by the dean, at the end of a degree program.

1.10. Semester Freeze

1.10.1. A student, under special circumstance, may apply for a semester break to the concerned HoD. However, to maintain his/her registration the student has to pay the semester break fee as determined by the university from time to time.

1.10.2. A student who is not registered in a semester shall lose his registration if he/she is not on semester freeze.

1.10.3. A consecutive two-semester non registered status shall lead to the cancellation of admission.

1.10.4. A student with cancelled admission is required to apply for readmission on the prescribed form.

1.10.5. A re-admission case shall only be considered if it is within the maximum time duration allowed for a degree program.

1.11. Change of Program

1.11.1. An MAJU student may apply for the change of program with the approval of concerned HoDs before the start of a semester. Such a student shall be issued a new registration number.

1.11.2. Only related courses shall be transferred with grades to the opted program.

1.11.3. Courses transferred shall appear in the transcript without mentioning the semester details in which they were studied.

1.11.4. Student shall submit transfer fee as determined by the university from time to time.

1.11.5. Program transferred student shall not be considered for the award of a medal.

1.12. Attendance

1.12.1. To be eligible for final examination 80% attendance shall be required in a course or in a lab work.

1.12.2. There shall be no relaxation in attendance requirement under any circumstances.

1.12.3. Class attendance shall only be marked if a student has no outstanding dues.

1.13. Examination and Grading

1.13.1. A student shall be eligible for final examination if his/her name is included in the exam seating plan.

1.13.2. If a student is not allowed to sit in final exam due to shortage of attendance or disciplinary action, then he/she shall be awarded "F" grade in that course.

1.13.3. Re-exam is allowed only if there is a death of an immediate family member or extreme circumstances proven with evidence, having prior information. Such cases shall require approval of the President.

1.13.4. If a student misses final examination, he/she may apply for course(s) withdrawal provided he/she was hospitalized and or evidence of any other extenuating circumstances such as death of an immediate family member on the day of examination.

1.13.5. Letter grades shall be awarded at the end of each semester as per the following distribution:

ASSESSMENT	UNDERGRADUATE	GRADUATE
a) Midterm Examination	20%	20%
b) Assignments, Quizzes, Projects etc.	20% - 40%	30% - 50%
c) Final Examination	40% - 50%	30% - 50%

1.13.6. Midterm and final examinations shall be administered by the CoE office.

1.13.7. The university shall follow the following grade definitions:

GRADES	DEFINATION
A	Excellent
B	Good
C	Satisfactory
D	Poor but passing
F	Failure
I	Work in Progress
W	Withdrawal
P	Pass
NC	No Credit
( )	Grade Replaced

1.13.8. Letter grades shall be awarded on following scheme:

MARKS	GRADES	MARKS	Grade
90-100	A	4.00	4.00
86-89	A-	3.67	3.67
81-85	B+	3.33	3.33
77-80	B	3.00	3.00
72-76	B-	2.67	2.67
68-71	C+	2.33	2.33
63-67	C	2.00	2.00
58-62	C-	1.67	1.67
54-57	D+	1.33	0.00
50-53	D	1.00	0.00
Below 50	F	0.00	0.00

1.13.9. **GPA:** Grade Point Average (GPA) shall be computed by multiplying the number of credit hours of each course by the grade points assigned to grade earned, then dividing the sum of these products by the total number of credit hours in which the student was registered in a semester.

1.13.10. **CGPA:** Cumulative Grade Point Average (CGPA) shall be calculated by summing all the earned grade points divided by the total number of registered credit hours during the program.

1.13.11. Incomplete (I) Grade:

1.13.11.1. A teacher may award I (incomplete) grade to a student who fails to meet all requirements for reasons beyond his/her control.

1.13.11.2. I grade can be awarded only with the prior approval of the HoD.

1.13.11.3. I grade shall not be allowed in summer courses.

1.13.11.4. I grade must be changed into an earned grade within 1 month otherwise it will automatically be converted to F grade.

1.14. Change of Grade

1.14.1. A student may file a petition with the CoE's office for review of a final grade within two weeks after the declaration of the results.

1.14.2. The review of a grade shall be limited to omission and calculation errors.

1.14.3. The review process shall be initiated after the receipt of requisite fee as prescribed by the university from time to time.

1.15. Probation & Expulsion

1.15.1. A student shall be on probation if he/she fails to attain 1.5 CGPA in a semester.

1.15.2. If a student stays on probation for two consecutive semesters he/she shall cease to be the student of the university.

1.16. Re-admission

1.16.1. In case of expulsion, a student can apply for Re-admission by submitting formal application to HoD of his/her department. President will be the approving authority in such decisions.

1.16.2. In case of approval student may need to submit fee as determined by competent authority

1.16.3. Student may need to take some courses to improve his/her CGPA as determined by HoD

1.17. Medal Ward Policy

1.17.1. Student desirous to compete for the award of a medal shall apply on the prescribed form to the CoE Office.

1.17.2. A medal shall be awarded only in the respective convocation.

1.17.3. Only those graduates shall be considered for the award of a medal who fulfill the following:

1.17.3.1. Completion of all degree requirements within normal duration.

1.17.3.2. CGPA 3.50 or higher on the scale of 4.00.

1.17.3.3. No F grade in the transcript.

1.17.3.4. No transfer of credits from other Universities / Institutions.

1.17.3.5. No disciplinary punishment throughout the tenure of the degree.

1.17.4. If number of students in a degree program is less than 10:

1.17.4.1. Only one medal will be awarded

1.17.4.2. CGPA of winner will be compared with the CGPA of the winner of a medal in a program having more than 10 students, to assess the type of medal to be awarded.

1.17.5. Gold, Silver and Bronze medals shall be awarded to the top three students of each batch and degree program.

1.17.6. If there is a tie in the award of a medal both will be awarded the same medal.

1.17.7. Academic Performance Recognition:

1.17.7.1. Dean's List: Dean's list shall have name of all those students who have earned semester GPA of 3.5 and above by taking full course load.

1.17.7.2. President's List: President's list shall have names of all those students who have earned semester GPA of 3.75 – 3.99 by taking full course load..

1.17.7.3. Chancellor's List: Chancellor's list shall have names of all those students who have earned semester GPA of 4.0 by taking full course load..

1.18. Quaid-i-Azam Gold Medal

1.18.1. A Quaid-i-Azam Gold Medal shall be awarded, in a convocation, to an overall best achiever of the university and shall be based on:

1.18.1.1. Academics;

1.18.1.2. Co-curricular and

1.18.1.3. Extra-curricular activities.

2 Undergrad Programs

2.1. Completion of 12 or 14 years of education shall be required for admission in BS / BBA or MBA / MCS programs respectively.

2.2. The admission shall be awarded on merit based on:

a. Admission Test
b. Earlier Academic Standing
c. Interview (if so desired by the department)

2.3. Residency requirement for the award of an undergrad degree shall be as given below:

Degree Program	Minimum (in years)	Maximum (in years)
BBA/BS	4.0	7.0
MBA (96 SCH)	3.5	6.0
MBA (66 SCH)	2.0	4.0
MCS	2.0	4.0

2.4. A student shall be awarded a degree on:

2.4.1. Completion of academic program as prescribed by the department;

2.4.2. Completion of internship (6-8 weeks), if required by the department and.

2.4.3. Attaining a minimum CGPA of 2.0 on the scale of 4.0.

2.5. Normal load of an undergrad student is 15-18 SCH. A student must register for normal load in order to be considered for scholarship.

2.6. Maximum academic load, in a Spring or in a Fall semester, shall be 06 courses and in Summer Semester it shall be 02 courses.

2.7. The semester load for an individual student shall be determined by the department on the basis of his / her GPA which for the time being is as under:

GPA	Courses
≥ 2.50	06
2.00 to 2.49	05
1.50 to 1.99	04
< 1.5	03

2.8. A fulltime student is required to register for a minimum of 03 courses.

2.9. A student not registering for a minimum semester load shall not be treated as a fulltime student.

2.10. Final year project can be registered by a student after the completion of minimum course work prescribed by the department.

2.11. Final year project must be completed in two semesters and it cannot be registered as 6 SCH in a single semester.

2.12. Final year project is usually carried out in a group of 2-4 dependent upon project length and complexity.

2.13. Part-I or Part-II of final a year project shall be graded independently in a semester in which it was registered.

2.14. Final year project shall be graded based on:

2.14.1. Supervisor's Semester assessment
2.14.2. Project oral presentation(s)
2.14.3. Project report
2.14.4. Project demonstration

2.15. Final year project cannot be registered in a Summer Session.

2.16. Final year project shall be graded by a committee constituted by the concerned department and grade shall be awarded on the submission of project report.

2.17. A final year project report shall be written in student's own language, F-Grade may be awarded for a copied report.

2.18. It is mandatory to register for internship and it shall be evaluated by a departmental committee with pass or fail grade.

2.19. A student cannot register for a course while doing internship.

3 Graduate Programs

3.1. Completion of sixteen years of schooling or 04 year education (130 semester credit hours) after HSSC/F.A./F.Sc/Grad 12 or equivalent shall be required for admission in the MS program.

3.2. The GAT-General conducted by the National Testing Service with minimum 50% cumulative score or University Admission Test shall be required for admission in the MS Program.

3.4. MS scholar should complete Core, Elective and Specialization courses as defined by the department with a minimum CGPA of 2.50/4.00 for the award of MS degree. The total number of credit hrs for completion of MS degree is 30.

3.5. A maximum allowable course registration in a Spring or in a Fall Semester is 12 course SCH, whereas, it is 6 SCH in Summer a semester.

3.6. A registered scholar can submit a thesis only if his/her registration in the program is active (registered).
3.6 Examination shall be arranged within one month of the date of thesis submission.

3.7. MS thesis shall be examined, in an open defense, by a committee comprising of:

3.7.1.	Dean of the Faculty	-	Coordinator
3.7.2.	External examiner	-	Member
3.7.3.	Internal examiner	-	Member
3.7.4.	Supervisor	-	Member

3.8. There should be an agreement amongst the committee members that the candidate has met the minimum requirement to qualify the thesis and grade shall be awarded as per following:

3.8.1.	External Examiner	-	30%
3.8.2.	Internal Examiner	-	30%
3.8.3.	Supervisor	-	40%

3.9. Thesis shall be graded as per the normal university graduate grading policy. If 'F' grade is awarded then scholar can re-submit the thesis after a period of minimum 90 days with fresh registration.

3.10. A thesis with minor revisions shall be submitted within four weeks from the date of examination failing which it shall be treated as re-submission.

3.11. A thesis with major revisions or re-submission shall be re-examined.

3.12. A re-submission shall require fresh registration of credit hours associated with the thesis.

3.13. A thesis shall be cleared for evaluation if it is not violating the Plagiarism Policy of the HEC.

3.14. The date of completion shall be the date of examination of the thesis, if other conditions for the award of degree are fulfilled.

3.15. A maximum allowable duration, inclusive of semester break, for the MS program shall be 04 years from the date of admission whereas the normal duration is 02 years.

3.16. A scholar shall register in each semester and an unauthorized absence from the University for two consecutive semesters shall lead to the cancellation of admission.

3.17. A scholar may repeat a course in which he/she has earned B- or below.

3.18. A scholar, at the end of program, may get an elective course substituted with another one with the approval of the department.

3.19. A scholar exceeding the normal duration for what so ever reason shall not be eligible for a medal/award.

3.20. The program completion shall be prepared and verified by the Department.

3.21. Controller of Examination shall present the completion cases in a BASR meeting.

3.22. A scholar's program completion shall be subject to the approval from the Board of Advance Studies and Research (BASR). However, a transcript / provisional certificate indicating program completion may be issued, on the recommendations of the Dean, by the Chairman of the BASR.

3.23. List of scholars who have completed MS shall be issued over the seal of the Registrar.

3.24. Three copies of the final thesis along with a CD, containing soft copy of the thesis, shall be submitted to the department.

4 Doctoral Program

4.1. For admission into the PhD program a minimum CGPA 3.00/4.00 (in the Semester System) or First Division (in the Annual System) in MS or Equivalent shall be required.

4.2. Admission Policy for PhD admissions shall be in accordance with the HEC Policy.

4.3. The PhD program shall have a total of 48 SCH out of which 18 SCH shall be for the course work which shall be qualified, as PhD scholar, with a minimum CGPA of 3.00/4.00.

4.4. A maximum allowable registration in a Spring or in a Fall semester for a PhD scholar shall be 09 SCH, whereas, it is 06 SCH in a Summer semester.

4.5. A PhD scholar shall register in each semester during his/her studies. If a PhD scholar remains unregistered for two consecutive semesters it shall lead to the cancellation of the admission.

4.6. After the completion of course work, a PhD scholar is required to qualify the comprehensive examination within a maximum of two attempts to get the PhD candidacy status.

4.7. A scholar is required to register for comprehensive examination which shall be conducted in the 2nd week of each semester with under mentioned specifications:

4.7.1. The subjects and course contents of comprehensive examination shall be defined by the respective department.

4.7.2. Cumulative qualifying score for comprehensive examination shall be 60%.

4.7.3. Scholars who have registered but did not appear shall be awarded 'F' grade and attempt shall be counted.

4.7.4. A withdrawal from comprehensive examination registration shall be communicated in writing by the scholar at least two working days prior to the holding of examination.

4.8. A Research Synopsis shall be submitted by the PhD candidate at least two semesters prior to the dissertation submission, and the semester in which it is submitted shall be counted.

4.9. Synopsis shall be examined by a committee comprising of:

a Dean of the Faculty - Chairman
b One external examiner - Member
c One internal examiner - Member
d Supervisor - Member

4.10. Synopsis shall be graded as Pass/Fail and in case of 'Fail' grade the candidate may request in writing for another chance.

4.11. Acceptance/publication of at least one research paper from PhD work in an impact factor journal shall be required.

4.12. The dissertation may be submitted after the completion of 30 research SCH and with an active registration status at the time of submission.

4.13. A dissertation shall be cleared for evaluation if its similarity index is less than 20% in total and less than 5% from a single source.

4.14. The dissertation shall be evaluated by at least two foreign experts from a technologically / academically advanced country.

4.15. At least five foreign examiners shall be proposed by the Dean in consultation with the Supervisor. Of these five BASR shall approve only three.

4.16. The PhD dissertation shall have at least two out of three positive foreign evaluations to allow the candidate for final defense.

4.17. The Dean shall propose the local examiners in consultation with the Supervisor for the approval of the BASR.

4.18. An open final defense for the PhD dissertation shall be carried out by a committee comprising of:

4.18.1 Dean of the Faculty - Chairman

4.18.2. Two external examiners - Members
4.18.3. One internal examiner - Member
4.18.4. Supervisor - Member

4.19. On the conclusion of the final defense, the Chairman, in the absence of the candidate and audience, shall invite the examiners for voting on one of the following options:

4.19.1. accepted as is;
4.19.2. accepted with minor revisions;
4.19.3. accepted with major revisions;
4.19.4. rejected;

4.20. A dissertation with minor revisions shall be submitted within 04 weeks from the date of examination and shall be accepted with a certificate from the Supervisor that 'the revisions have been incorporated'.

4.21. A dissertation with major revisions shall be submitted within 12 weeks from the date of examination and shall be accepted with certificates from both external and internal examiners that 'the revisions have been incorporated satisfactorily'.

4.22. The date of completion shall be the date of examination in case of minor revisions whereas it shall be the date re-submission in case of major revisions.

4.23. The Chairman shall ensure the communication of examiners comments to the scholar, if any.

4.24. A maximum allowable duration, inclusive of semester break, for the PhD program shall be 07 years from the date of admission whereas, the normal duration is 03 years.

4.25. A scholar may repeat a course in which he has earned B- or below.

4.26. A scholar may get an elective course substituted with another elective course with the approval of the department.

4.27. The PhD program completion shall be subject to the approval of the BASR. However, a transcript / provisional certificate indicating program completion may be issued, on the recommendations of the Dean, by the Chairman of the BASR.

4.28. Decisions of BASR in respect of comprehensive exam, synopsis and PhD completion shall be issued over the seal of the Registrar.

4.29. Three copies of the final thesis along with a CD, containing soft copy of the thesis, shall be submitted to the department.

Note:

- Anything not covered in these rules & regulations or in case of any ambiguity, the decision and interpretation of the University shall be final and binding for implementation.
- University reserves the right to continue or stop any program at any time.

STUDENTS' DISCIPLINE

Mohammad Ali Jinnah University aims at enriching the personality of its students by including in them a sense of tolerance, discipline and civilized behavior.

The behavior of the students at the campus will be governed by the following rules and regulations. The Discipline Committee will have the authority to impose penalties on the students found guilty of breach of discipline on the campus and during conduct of examinations.

1 Acts of Indiscipline

The following among others, shall constitute acts of indiscipline:

a) Violation of Dress Code, and ID card rules.
b) Use of indecent and filthy language; undesirable remarks and gestures; acts of moral turpitude; disorderly behavior like abusing, quarreling, fighting, insolence towards others.
c) Indulgence in acts which may cause insult or physical injury to the colleagues, teachers, officers and staff of the University or any other person.
d) Defying a University official.
e) Spreading by word of mouth or written material, any religious, sectarian, ethnic regional, linguistic conflicts/hatred, or any material derogatory to Pakistan, Islam or any other religion.
f) Impersonation, giving false information, willful suppression of information, cheating or deceiving.
g) Possession, carrying or use of any type of weapons.
h) Damaging University property, including building, equipment, vehicle, etc. in any manner
i) Using any University property, without lawful authority.
j) Sale, distribution or consumption of intoxicants on the campus.
k) Use of student organizations for furthering the cause of political parties.
l) Bringing to the premises of the University any expelled students or anti –social elements.
m) Obstructing the functioning of the University or causing disruption of teaching/research / other activities.
n) Any other relevant matter not specifically mentioned in these rules.

2 Examination

a) Helping one another in any manner during examination.
b) Getting assistance from a book, notes printed or photocopied material (unless it is clearly mentioned in the instructions of the question paper).
c) Using answer sheets for making appeals to the examiner or writing irrelevant remarks; misusing the answer sheet; removing pages from answer sheets, etc.
d) Getting assistance through communication devices, like cell phones etc.
e) Replacing answer sheets with other answer sheets not distributed for exam (e.g. prepared at home, prepared on campus prior to the exam, etc).
f) Exchanging answer sheets with other students.
g) Writing Roll Number of another student on ones' own answer sheet.
h) Cheating and being rude, abusive, aggressive, etc. with the invigilator during examination.
i) Disobeying the staff on invigilation/inspection/supervision duty.
j) Creating disturbance around the examination hall.

3 Penalties for Acts of Indiscipline

Penalties for acts of indiscipline shall be according to the gravity of the case, and may be any one or more of the following, or any other, as determined by the Discipline Committee.

3.1 Minor Penalties:

a) Warning / Censuring, verbal or written.
b) Putting on probation for a specific period.
c) A fine with or without any other penalty.
d) Withholding of a certificate of good moral charter.
e) Withdrawal of benefits/privileges enjoyed by the student (s) of the University.
f) Withholding of Examination Results.

3.2 Major Penalties / Punishments:

a) Fine commensurate with the nature and extent of misconduct.
b) Cancellation of hostel accommodation, if any.
c) Cancellation of financial benefits/concessions, suspension of admission and ban on the entry into the premises of the university, for a specific period.

3.1 Minor Penalties:

a) Warning / Censuring, verbal or written.
b) Putting on probation for a specific period.
c) A fine with or without any other penalty.
d) Withholding of a certificate of good moral charter.
e) Withdrawal of benefits/privileges enjoyed by the student (s) of the University.
f) Withholding of Examination Results.

3.2 Major Penalties / Punishments:

a) Fine commensurate with the nature and extent of misconduct.
b) Cancellation of hostel accommodation, if any.
c) Cancellation of financial benefits/concessions, suspension of admission and ban on the entry into the premises of the university, for a specific period.
d) Cancellation of examination results.
e) Rustication from the University for a specific period and ban on entry into University campus.
f) Expulsion from the University and permanent ban on entry into the University campus.

3.3 Other Penalties in Examination Cases:

a) Oral Warning.
b) Written warning/censuring.
c) Cancellation of answer sheet.
d) Cancellation of a course.
e) Cancellation of Mid-term Exam for all courses, during the Mid-term Exams.
f) Cancellation of one complete semester.
g) Rustication for a specific period of time.
h) Expulsion from the university.

CODE OF CONDUCT

The University lays emphasis on mode of dressing for all students. Apart from teaching, the faculty and administration would like to see the students dressed smartly

Boys Dress Code

Desirable

- Trousers
- Shirts
- Tie
- Dress Shoes with socks
- Shalwar Kameez clean and properly pressed with waist coat

Admissible

- Decent, clean and pressed jeans with T-Shirt
- Shalwar Kameez clean and properly pressed
- Summer Sandals with a strap running behind the heel

Not Allowed

- Shorts, Cutoff jeans, multi pocketed faded, torn and skin fitted
- jeans / trousers
- T-shirts with messages of any kind
- Chappals/slippers of any kind
- Bandana's, caps etc
- Vest of any kind
- Long hair, pony tails etc
- Earrings, chain, wrist straps, bracelets etc

Girls Dress Code

Desirable

- Traditional Shalwar Kameez and dupatta
- Chappals/shoes

Admissible

- Jeans with Kurta/shirt
- Light Jewelry like nose pins, ear studs and rings on fingers

Not Allowed

- T-shirts with jeans
- Sleeveless shirts of any kind
- See through and skin tight dresses
- Heavy makeup
- Flashy / heavy jewelry, pazeb-s etc

University ID Card

- A student of the university is required to have a valid university identity card (ID card) and its display is mandatory while on the campus.
- The entry to the examination hall, library, labs and other premises will only be allowed if a student possesses university ID card and his/her registration in the semester is intact.

Student's Discipline

Mohammad Ali Jinnah University aims at enriching the personality of its students by including in them a sense of tolerance, discipline and civilized behavior. University is eager to develop a most appropriate academic environment and believes students to follow the discipline at higher standards.

To maintain discipline in the University, a Disciplinary Committee is constituted that has the authority to look forward all concerns of discipline and set penalties on the breach of discipline on the campus and during conduct of examinations. University provides the Student's Manual having the disciplinary requirements by students and university policy against acts of indiscipline.

STUDENT **AFFAIRS**

Mr. Ahmer Umer

DIRECTOR
STUDENT AFFAIRS

THE STUDENT AFFAIRS OFFICE OFFERS A VARIETY OF SERVICES TO STUDENTS AND FACILITATES THEIR CO-CURRICULAR ACTIVITIES. THIS OFFICE FUNCTIONS AS A FRIENDLY GUIDE TO STUDENTS, ADDRESSING THEIR NEEDS FROM THE TIME THEY MAKE THE FIRST INQUIRY REGARDING ADMISSION IN THE UNIVERSITY TILL THEY GRADUATE.

At Mohammad Ali Jinnah University, we not only provide opportunities involving academic challenges to the youth, but also offer excellent facilities with the sole purpose of enriching the minds and lives of students. The University helps to promote the intellectual, cultural, personal and social development of our students while enhancing their physical well-being. The Student Affairs office is manned with an efficient and courteous staff that helps to facilitate students from the day they seek admission. Information and guidelines are dispensed to students by the Student Affairs Office besides providing counseling, arranges student identification tags and bus passes, and explains rules and regulations. An important function of this office is to promote extra-curricular activities amongst the students by providing them healthy outlets in sports and games and furnish them with forums so that they may cultivate their literary and artistic potential and make their stay at campus a rich experience of multi-dimensional growth.

Co-Curricular Activities

The University is fully aware of the need for Co-curricular activities along with academic events, important to the development of a well-balanced personality. The establishment of societies and clubs allows students to explore their talent and nurture awareness in them about the professional world.

Mohammad Ali Jinnah University assists students in planning activities that promote and enhance communication and leadership skills among the students. Students who are academically outstanding and willing to share their knowledge for the cause of community development represent these societies.

The primary objective of these societies and clubs is to provide a platform for students to enhance their intellectual and professional capabilities by arranging seminars, conferences, competitions, conducting workshops and other activities to promote their exposure to the managerial world.

The activities of these societies and clubs help to encourage professional and personal development of students. Furthermore, these societies and clubs provide opportunities for entertainment and sporting activities for recreation and development of a competitive yet balanced personality.

Seminars and Workshops

Regular seminars are held at the campus to provide students with a professional know-how of what is happening around the world. Experts from the corporate and public sectors are frequently invited to share their knowledge and experiences with the students, which in turn helps them to identify their career options. Workshop-related activities on social and sensitive issues in collaboration with different organizations are also carried out to motivate students' interest in fulfilling their moral obligations towards society.

Career Counseling

Career counseling plays an important role in every student's academic direction. The University, realizes its responsibility and has appointed specialized staff to provide career guidance in three main areas, namely, personality development, career identification and selection of the field of specialization within that career. The counselors help students, especially, new entrants in developing confidence and strength to overcome personal problems. They also provide them with necessary help and information to make a conscious judgment in matters related to career identification and specialized field selection.

Student Advisor

Selecting a proper credit hour load of subjects is one of the toughest and the most important decisions a student has to make. The University facilitates this process through 'Student Advisors'; highly dedicated professionals who are keen and willing to provide guidance in areas such as examination anxiety, subject selection, assertiveness and advice on special needs.

Community Service

Students are assigned tasks in the form of projects such as conducting fire-fighting training, tree plantation campaigns, office automation, community sales, imparting basic computer skills and public relations training to hospitals, railways, police and other similar institutions. In addition, specially tailored programs for non-computer professionals like doctors, health workers, engineers and educators are also held. Advice is also given to schools and hospitals on infrastructure layouts.

Training sessions and workshops are organized in collaboration with different organizations in order to create general awareness about changing technology in the world. A number of workshops and seminars are held to provide training facilities for the staff on basic issues related to HRD, Finance, Marketing, IT and Management.

Placement Center

Mohammad Ali Jinnah University graduates have the repute of being in great demand with both local and national employers; the Placement Center organizes information sessions and seminars regularly for multi-national and local agencies to develop their human resource base

Internship opportunities are identified for students through this center and it also provides information on graduate studies. The Placement Center places tremendous emphasis on industry linkages and liaises with employment agencies in order to find work placement for our graduating students.

Alumni Association

The University lays great importance to maintain a link with its graduates so as to keep them informed of new academic opportunities being offered by the University from time to time.

Interaction through the Alumni Association also helps the University to solicit information on preferred skills and programs sought by the industry. This enables the University to regularly update its curriculum.

Physically Challenged Students

Mohammad Ali Jinnah University warmly welcomes physically challenged students. Students in wheelchairs would find many helping hands of fellow students along with wide doors and open corridors for their convenience. Those having any specific need can discuss their requirement with the Director Student Affairs.

Foreign Students

We welcome foreign students at Mohammad Ali Jinnah University, as per rules and regulations of the Government of Pakistan. Foreign students are required to ensure that their documents are verified by the relevant authorities and that their embassy has granted them the necessary permission to study in Pakistan.

Sports Facilities

Mohammad Ali Jinnah University Karachi believes that a competent human resource also requires a healthy body and sound mind. Therefore, as part of our core curriculum Mohammad Ali Jinnah University Karachi, engages its students in competing and demonstrating their skills and competency in the field of sports.

MAJU actively participates in different events and has won numerous positions and awards.

OFFICE OF RESEARCH INNOVATION & COMMERCIALIZATION

Dr. Kashif Ishaque

DIRECTOR
OFFICE OF RESEARCH
INNOVATION &
COMMERCIALIZATION

ORIC (OFFICE OF RESEARCH, INNOVATION & COMMERCIALIZATION) WAS ESTABLISHED AT MOHAMMAD ALI JINNAH UNIVERSITY KARACHI ON FEBRUARY 06, 2016. IT IS AIMED TO PROVIDE STRATEGIC AND OPERATIONAL SUPPORT TO THE UNIVERSITY IN RESEARCH UNDER ONE UMBRELLA.

The growth of economies around the world has been driven largely by the pursuit of scientific understanding, the application of business solutions and continual technological innovation; hence, ORIC is responsible to facilitate and support the research and innovations at Mohammad Ali Jinnah University. ORIC, a vital organ at Mohammad Ali Jinnah University Karachi plays a pivotal role in the process of research, innovation, and commercialization. ORIC connects university with industry in order to get quality research output. ORIC ensures effective research in accordance with international standards. ORIC strives to find the best solutions to the problems faced by local/global industry & society.

Vision

Providing leadership in economical and industrial development through research and innovation.

Mission

Promoting and supporting research as well as knowledge-based economy that helps to achieve economical and industrial competitiveness in the country.

Objectives

- To link the university's research community with the International Bodies.
- To manage and enhance the research activities in the university.
- To develop research policies and priorities.
- To develop program and activities that will increase funding for research.
- To develop opportunities for applied research.
- To provide information to faculty about various available research grants.
- To link faculty with relevant industry.
- To evaluate markets for commercialization of Inventions.
- To organize conferences.

CENTER FOR
EXECUTIVE LEARNING DEVELOPMENT & DIVERSITY (CELDD)

Mr. Ahmer Umer

DIRECTOR
CENTER FOR
EXECUTIVE LEARNING
DEVELOPMENT & DIVERSITY

THE INGENUITY AND SOPHISTICATION OF CONTEMPORARY GLOBAL BUSINESS ENVIRONMENT REQUIRE PROFESSIONALS AND EXECUTIVES TO CONTINUALLY OBTAIN AND SHARPEN UP THEIR NEW SKILLS. AT CENTRE FOR EXECUTIVE LEARNING, DEVELOPMENT & DIVERSITY (CELDD), WE DESIGN AND IMPLEMENT OPTIMAL LEARNING ENVIRONMENT FOR PROFESSIONALS AND EXECUTIVES LOOKING TO REACH NEW ALTITUDE OF SUCCESS IN THEIR CAREERS ON A TIMELINE THAT WORKS WITH THEIR BUSY SCHEDULES.

At CELDD, we leverage the best resources of Mohammad Ali Jinnah University in devising and designing customized, or open enrollment programs on variety of topics. To offer such courses and programs, we avail the services of highly competent, qualified, trained, faculty, and industry thought-leaders that have breadth of expertise and knowledge.

At CELDD, we collaborate with individuals and organizations to devise some of the extremely impactful training programs, workshops and seminars and make them available to companies and business leaders of today in order to meet the evolving business needs and provide them with an educational experience of continuing impact.

QUALITY **ENHANCEMENT CELL**

Dr. Munir Hussain

DIRECTOR
QUALITY ENHANCEMENT
CELL

ESTABLISHMENT OF QUALITY ASSURANCE SYSTEM IN HIGHER EDUCATION (HE) IS A GLOBAL CONCERN NOW. THERE IS A GROWING DEMAND FOR QUALITY ASSURANCE (QA) MECHANISMS AT NATIONAL, REGIONAL AND GLOBAL LEVELS. OVER THE YEARS, IT IS OBSERVED THAT THERE IS AN INCREASE IN THE NUMBER OF HIGHER EDUCATION INSTITUTIONS AND INCREASED INVOLVEMENT OF EXTERNAL STAKEHOLDERS THROUGH CHANGES IN GOVERNANCE STRUCTURES.

The higher education institutions around the world have been introduced to quality assurance system internally with formal institutional approach and documentation. This has been done with the establishment of quality assurance agencies like accreditation bodies at the national level. The integration of Quality Assurance principles into higher education is also a matter of concern in Pakistan.

Quality Enhancement Cell at Mohammad Ali Jinnah University, Karachi is taking deliberate steps to bring about continual improvement in the effectiveness of the learning experience of students. In Quality Enhancement Cell (QEC) there is greater emphasis on Internal QA and the encouragement of an institutional "quality culture."

MAJU has always been in the forefront for accepting and adapting best practices in the field of education. Recognizing the role that it has to play in higher education sector, MAJU has established a Quality Enhancement Cell. This cell has the responsibility to ensure that the university's quality assurance procedures

are compatible with international standards and are designed to improve the quality of higher education.

At MAJU we believe, that quality enhancement and assurance is a collective responsibility and that it is the professionalism and creativity of staff, individually, that makes the most vital contribution to the enhancement of provision, through their attention to their students' experience as learners, to the development of their disciplines, and their engagement with their teaching practice.

- To review quality standards and the quality of teaching and learning in each subject area.
- To promote public confidence that the quality and standards of the award of degree are enhanced and safeguarded.
- To define lucid and explicit standards as point of reference to reviews to be carried out. It should also help the employees to know as to what they could expect from candidates.
- To develop qualification framework by setting out the attributes and abilities that can be expected from the holder of qualification.
- To develop quality assurance processes and methods of evaluation to affirm that the quality of provision and the standards of awards are being maintained and to foster curriculum, subject and staff development.
- To develop procedures for approval of new programs, monitoring and evaluation, departmental review, student feedback, employer feedback, quality assurance of various degree programs, subject review and qualification framework

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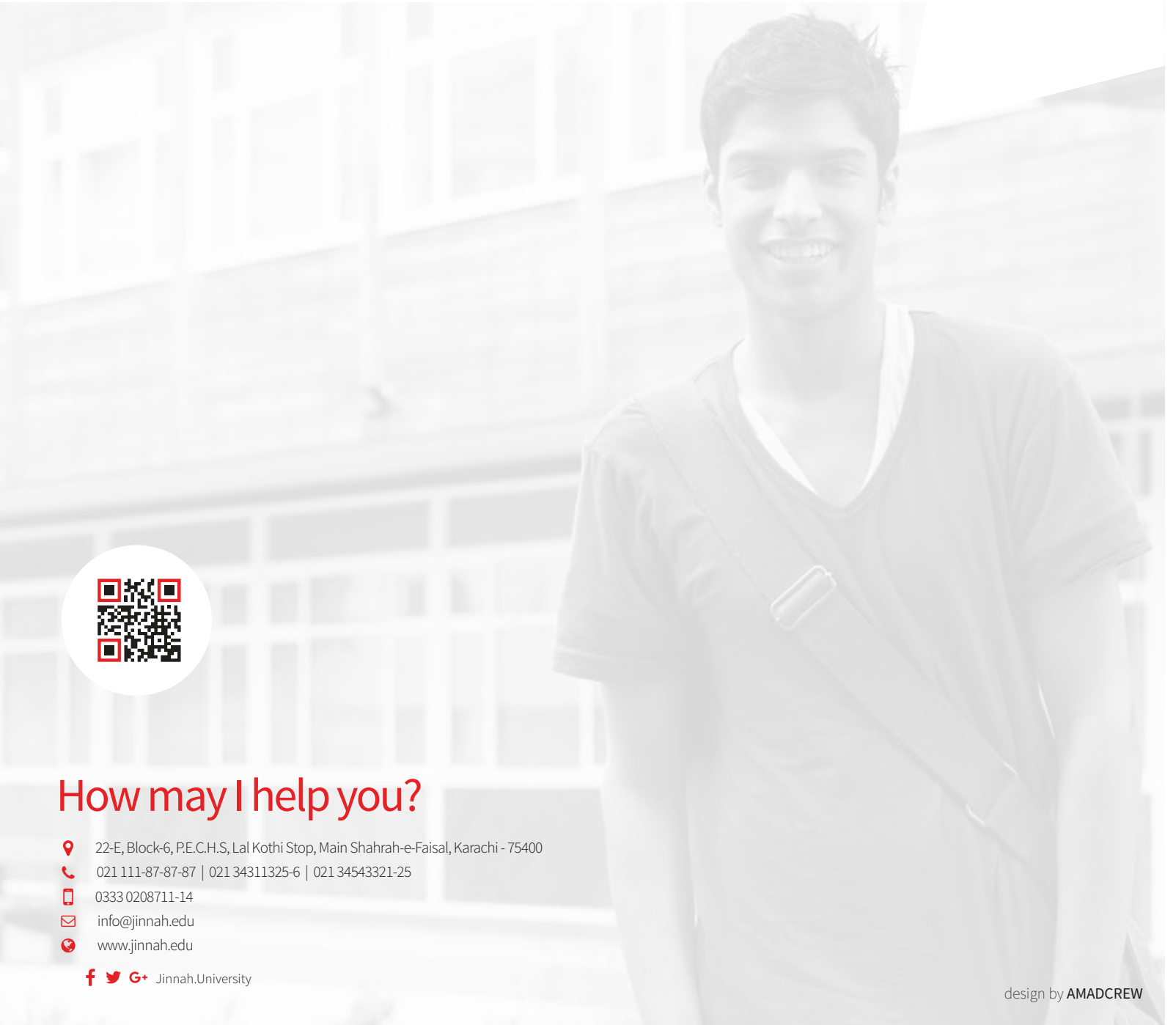

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