



PROSPECTUS 2023-24



**Sindh Madressatul Islam
University, Karachi**

Chartered By: Government of Sindh
Recognized By: Higher Education Commission





MESSAGE FROM THE VICE CHANCELLOR



With a wise quote by Isaac Newton, “let the windows to be open”, allow me to take you to Qafila Serai Grounds/Caravan) Serai/Serai Quarter where this historical institute the Sindh Madressatul Islam (SMI) was established in 1885 by the legend Khan Bahadur Hassanally Effendi.

The SMI, the Alma Mater of the founder of the Nation, Quaid-e-Azam Mohammad Ali Jinnah, later became college in 1943 and elevated to the status of the university “Sindh Madressatul Islam University (SMIU)” in 2012. The SMIU has emerged as one of the modern universities of the country which provides tertiary education in the market driven programs, i.e., Computer Science, Software Engineering, Artificial Intelligence, Information Technology, Cyber Security, Mathematics,

Environmental Sciences, Climate Change, Food Science and Technology, Accounting and Finance, Banking and Finance, Entrepreneurship, Public Administration, Economics, Commerce, English, Media Studies, Development Studies and Sociology. To meet the challenging and competitive scenario of the 21st century. These offered academic programs are equipped and strengthened with quality of faculty and facilities, i.e., air conditioned classrooms, modern labs, tow modern libraries, television studio, FM Radio Station, auditorium with SMD Wall, conference halls, Jinnah Museum, indoor and outdoor games ground, Gym for male and female students, medical facilities, transport facility, NEP-NIC incubation centre, job placement office, merit and need based scholarships, industrial linkages and safe and secure environment monitored with CCTV cameras etc.

It is a matter of pleasure to inform that besides maintaining historic buildings of SMIU, the University has built a new six-storey IT Tower and a multi storey building of SMIU Model School. Construction work of SMIU’s Malir Campus in Education City of Karachi is in progress. Further details of the university including academic programs and administration hierarchy are provided in this prospectus.

At the SMIU, we ensure to impart quality education, inbreeding the youth with values of life, implication of social justice, pluralism, gender neutrality, diversity and inclusion.

At the end, I myself and on behalf of my faculty and staff, consciously promise that we will put all our efforts and hard work to make you such a useful product and a global responsible citizen that shall matters to Sindh, Pakistan and beyond our national borders.

God bless us
Pakistan Paindabad

Prof. Dr. Mujeebuddin Sahrai Memon

Sindh Madressatul Islam University

Vision

Sindh Madressatul Islam University, in accordance with its historic creed 'Enter to learn- Go forth to Serve' strives to develop society by means of imparting high quality education and conduct of research while promoting national integration, inter-cultural harmony and respect for diversity.

Mission

The Mission of Sindh Madressatul Islam University is to create excellent environment for education, research and learning in order to produce leaders in various walks of life. The university seeks to establish linkages and relationships with the best national and international seats of learning in order to advance the cause of higher education as well as foster goodwill and harmony through interaction with various societies all over the world.



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Core Values



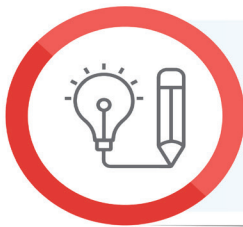
Working

To maintain working relationship with the students, faculty, alumni and volunteers.



Freedom

To give full freedom of thought and expression.



Creative

To encourage both the faculty and students to be independent and creative thinkers.



Methodology

To use the best teaching and training methodology.



Edge

To pursue leading - edge research.



Development

To engage in the development of innovative ideas and analytical, interpersonal and leadership skills.



Commitment

We have strong commitment to students and their guardians that the education provided will help in becoming a responsible citizens and global leaders.

An Introduction to SMIU



The Sindh Madressatul Islam University is one of the best universities of Pakistan. Its campus is located in Karachi, the largest city of the country. Within the limits of downtown Karachi, I.I. Chundrigar Road is the most prestigious commercial artery of the city with head offices of banks, trading houses, stock exchange and media outlets located on it. The historic campus of SMIU spread over eight and a half acres of land, is located in this part of the city.

The SMIU runs ten departments, under six faculties, offering various undergraduate, graduate and post graduate programs with highly qualified and experienced faculty, about half of whom are PhDs. The departments include the Department of Business Administration, Department of Accounting Banking and Finance, Department of Computer Science, Department of Software Engineering, Department of Artificial Intelligence and Mathematical Sciences, Department of Media and Communication Studies, Department of English, Department of Social and Development Studies, Department of Environmental Sciences and Department of Education are catering quality education to the young generation. SMIU charges minimum fees while providing quality education in state-of-the-art academic facilities. The SMIU's city campus consists of eight most elegant buildings. The oldest and the largest amongst them is the Main Building, its foundation stone was laid

by the Viceroy of India Lord Dufferin in 1887 and the construction was completed in 1890. It was designed in Indo-Gothic architectural traditions by the architect of Karachi Municipality, Mr. James Strachan. At present this building houses the departments of Education, Department of Media and Communication Studies, Department of English, Department of Social and Development Studies, Media and Training Centre, television and a radio studios, Directorate of Post Graduate Studies (PGS), Office of Research, Innovation and Commercialization (ORIC), Accreditation and Quality Enhancement Cell (AQEC), Directorate of Students Affairs and Counselling, Senate Hall, auditorium, a computer lab as well as serves as the administration block of the university with the offices of the principal officers located on the first floor.

The second largest building is the Talpur House, which was built in July 1901. It is a three storey building. The Department of Management, Business Administration and Commerce, the Department of Environmental Sciences, computer centres, newly established "Dr, Ibrahim Mulla High Performance Computing Lab," Quaid-e-Azam Hall, Department of Examination and Admissions, seminar room, girls' common room, sports office and so on, are housed in this building. Between the Main Building and the Talpur House lies the library building named after the founder of SMI-Khan Bahadur Hassanally Effendi. It was built in

An Introduction to SMIU



1898 as the Principal's Residence. Its close proximity and central location amongst the buildings housing various academic departments make it an ideal choice for housing the central library. It is a two storey building with eight huge rooms and wide verandas, all of which have been converted to house various sections of the library. SMIU's library has more than twenty thousand books, some of which are rare ones. The library subscribes to about national and international research journals in addition to the Higher Education Commission (HEC) sponsored digital access to international journals.

A newly constructed six storey building of the Information Technology (I.T.) Tower is a good addition to SMIU. It houses Department of Computer Science, Department of Software Engineering, Department of Artificial Intelligence and Mathematical Sciences, Incubation Centre and Allama I.I. Kazi Library. Another new building in this educational campus is the SMIU Model School, which was too constructed recently. It works an auxiliary unit of the Department of Education.

Three more buildings namely Hassanally House (built in 1909), Khairpur House (built in 1912) and Sardar House (built in 1919), originally built as the hostels of the institution, at present house the SM Science College.

The SMI University provides free Internet access to its students and the computers are provided with super high-speed link for accessing research repositories on Internet. It has also its own TV and Radio Studios for the students of the Department of Media and



An Introduction to SMIU



Communication Studies. Its FM Radio (frequency 96.6) attracts a large number of listeners. The university is continuously improving its facilities with cutting edge technology.

Quality education has always been prime priority of SMI University. It has established a full-fledged Quality Enhancement Cell (QEC), which ensures quality in every dimension and in every manner whether it is to provide infrastructure and ancillary facilities to students or to develop intellect in them.

The SMI University has also established the Office of Research, Innovation and Commercialization (ORIC) in accordance with the guidelines issued by the Higher Education Commission of Pakistan. It provides a complete platform to researchers from working bench to a furnished product. Further responsible to develop Industry linkages to transform pure knowledge into products and production processes for the ultimate end of broader community welfare. ORIC has also established Incubation Centre to promote entrepreneurship and convert innovative ideas into business venture.

SMIU's each classroom is also equipped with air-conditioner and multimedia projector. The university has a fully air-conditioned and state-of-the-art auditorium, which is regularly used for extensive seminars, lectures, conferences, workshops, debates, declamation contests, quiz competitions, drama and variety of functions. For smaller gatherings, it has 80-seat Senate Hall.

The SMIU has also established national and international linkages with the leading universities of the country. Likewise, it has signed MoUs with various universities of Pakistan. SMIU's three separate groups of boy and girl students also went for one-month long

internship program to China's Sanya University and Hainan Tropical Ocean University, respectively. SMIU's students had too visited Turkey and Malaysia.

The SMIU has the Jinnah Museum, Directorate of Students Affairs and Counselling, emergency medical services for students, staff and faculty members, and a canteen. Students and faculty are encouraged to carry on visits to the places relating to their professional interests as well as go for recreational visits in form of groups. In addition to its present City Campus, the SMIU University is also in the process of building it's an additional, Malir Campus in the Education City in the vicinity of Karachi, where 100 acres of land have been allotted to SMIU by the Government of Sindh.

The Sindh Madressatul Islam is a time-honored seat of learning and one of the oldest institutions in Pakistan. Its greatest distinction is that the Founder of Pakistan Quaid-e-Azam Mohammad Ali Jinnah studied here from 1887 to 1892. It was elevated to the level of a university on February 16, 2012. Sindh Assembly passed the Sindh Madressatul Islam University Act on December 22, 2011, and subsequently the charter was granted.

SMIU's Students' Council comprised of nine students' societies are fully involved in students' activities organised time to time in the university.

The cardinal goal of the SMI University is to provide students an opportunity to gain thorough understanding of their chosen fields of education through both study and practice. The university aims to foster a dialogue among academics, industry and other segments of society in order to fill gaps and build bridges with the ultimate aim of serving humanity. With all this background, SMI University is poised to set its mark on the educational horizon of Pakistan.

Programs on Offer

4.1 Undergraduate Programs

Description	Bachelor Programs
	Program Duration and Eligibility
BBA 4-Years	Intermediate or equivalent with at least 50% (morning) and 45% (evening) marks or equivalency of A Level (excluding general papers)
BBA 2-Years	14 years of Formal Education (BA / BSc / B.Com etc.) with 45%.
BS Entrepreneurship 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
BS Public Administration 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
BS Economics 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
BS Accounting & Finance 4-Years	Intermediate or equivalent with at least 50% marks or equivalency of A Level (excluding general papers)
BS Banking and Finance 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
BS Commerce 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
BS Computer Science 4-Years	Intermediate Science or equivalent qualification with at least 50% marks or equivalency of A Level (excluding general papers)
BS IT 4-Years	Intermediate Science or equivalent qualification with at least 50% marks or equivalency of A Level (excluding general papers)
BS Cyber Security 4-Years	Intermediate Science or equivalent qualification with at least 50% marks or equivalency of A Level (excluding general papers)
BS Software Engineering 4-Years	Intermediate Science or equivalent qualification with at least 50% marks or equivalency of A Level (excluding general papers)
BS Data Sciences 4-Years	Intermediate Science or equivalent qualification with at least 50% marks or equivalency of A Level (excluding general papers)
BS Artificial Intelligence 4-Years	Intermediate Science or equivalent qualification with at least 50% marks or equivalency of A Level (excluding general papers)

Programs on Offer

BS Mathematics 4-Years	Intermediate Sciences or equivalent qualification with at least 50% marks or equivalency of A Level (excluding general papers)
BS English 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
BS Development Studies 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
BS Sociology 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
BS Media & Communication Studies 4-Years	Intermediate or equivalent with at least 50% marks or equivalency of A Level (excluding general papers)
BS Environmental Science 4-Years	Intermediate (Pre-Medical and Pre-Engineering or equivalent qualification) with at least 45% marks or equivalency of A Level (excluding general papers)
BS Climate Change 4-Years	Intermediate (Pre-Medical and Pre-Engineering or equivalent qualification) with at least 45% marks or equivalency of A Level (excluding general papers)
BS Food Science and Technology 4-Years	Intermediate (Pre-Medical and Pre-Engineering or equivalent qualification) with at least 45% marks or equivalency of A Level (excluding general papers)
B. Ed 4-Years	Intermediate or equivalent with at least 45% marks or equivalency of A Level (excluding general papers)
B. Ed 2-Years	14 Years of Education with 45% marks, as per HEC
B. Ed 1.5-Years	16 Years of Education with 45% marks, as per HEC

4.2 Graduate Programs

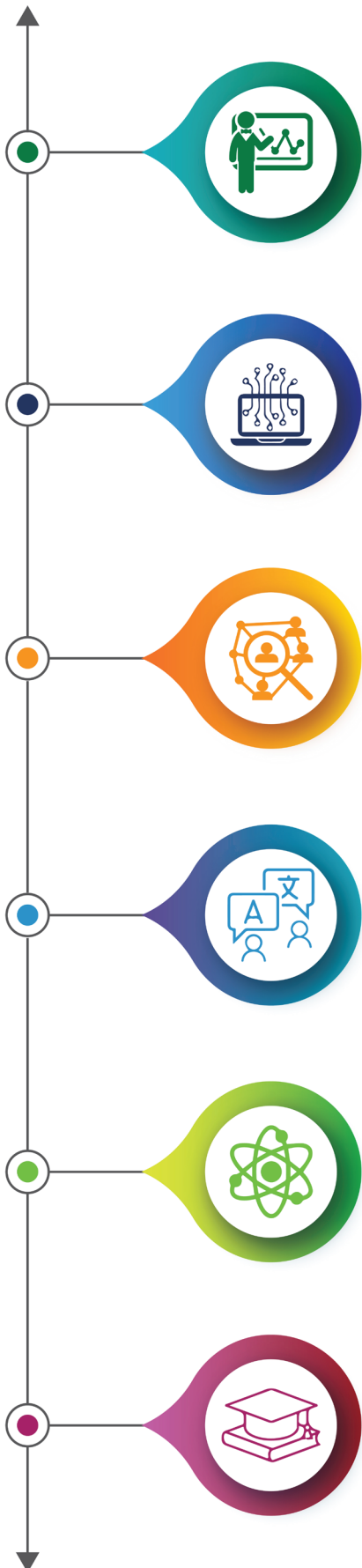
Description	Masters of Business Administration
	Program Duration and Eligibility
MBA 2-Years	16 years of Formal Education (BE / MBBS / BSCS etc.) with 50% marks or 2.5 CGPA from HEC recognized institute along with NTS-General 50% score. However the degree may be completed in a minimum of 1.5 years by the candidates with 16 years of relevant business education (BBA / M.Com / Old MBA etc).

Description	Masters of Science	
	Program Duration and Eligibility	
Management Sciences 1.5-Years	16 years of relevant business education (old MBA, 4 years BBA, M. Com, MPA etc.) with 50% marks or 2.5 CGPA from HEC recognized institute along with NTS-General 50% score.	
MS public Administration 2-Years	16 years of relevant business education (old MBA, 4 years BBA, M. Com, MPA etc.) with 50% marks or 2.5 CGPA from HEC recognized institute along with NTS-General 50% score.	
MS Computer Science 2-Years	16 years of relevant (Computer Science, MCS, BSCS, BSCN, BSSE, etc.) education with 50% marks or 2.5 CGPA from a HEC recognized institute along with NTS-General 50% score.	
MS Media Studies 2-Years	16 years of relevant education (BS Media Studies, BS Mass Communication) with 50% marks or 2.5 CGPA from a HEC recognized institute along with NTS-General 50% score.	
MS Education 2-Years	16 years of relevant education (BS-Education, MA-Education/M.Ed) with 50% marks or 2.5 CGPA from a HEC recognized institute along with NTS-General 50% score.	
MS Environmental Sciences 2-Years	16 years of relevant education (BS or Traditional MSc) with 50% marks or 2.5 CGPA From a HEC recognized institute along with NTS-General 50% score.	
MS Mathematics 2-Years	16 years of relevant education with 50% marks or 2.5 CGPA from a HEC recognized institute along with NTS-General 50% score.	

4.3 PhD Programs

Description	Program Duration and Eligibility
Eligibility Criteria for Admission	<ol style="list-style-type: none"> 1. MS/M.Phil. /MBA in relevant discipline with minimum 3.0 CGPA. 2. Research work at MBA/MS/M.Phil. level but those who will have MS/M.Phil. /MBA without research work, will conduct research equal to six credit hours. 3. GRE International qualified / NTS GAT – subjective with 60% score, as per HEC guidelines. 4. Passed SMIU admission test, as per HEC guidelines.

Faculties and Departments



FACULTY OF MANAGEMENT, BUSINESS ADMINISTRATION & COMMERCE

- * Department of Business Administration
- * Department of Accounting Banking and Finance

FACULTY OF INFORMATION TECHNOLOGY

- * Department of Computer Science
- * Department of Software Engineering
- * Department of Artificial Intelligence & Mathematical Sciences

FACULTY OF SOCIAL SCIENCES

- * Department of Media and Communication Studies
- * Department of Social and Development Studies

FACULTY OF LANGUAGE AND CULTURE

Department of English, Linguistics & Literature

FACULTY OF SCIENCE

Department of Environmental Sciences

FACULTY OF

Department of Education

Department of **Business Administration**



Faculty of Management, Business Administration & Commerce

Prof. Dr. Jamshed Adil Halepota

Dean / Chairperson



Mission of SMIU and the Faculty of Management, Business Administration & Commerce is to impart quality business education to students. We aim to translate vision of Quaid-e-Azam Mohammad Ali Jinnah of vibrant, economic viable, and ambitious nation into reality. As Faculty Dean, I believe that it's my prime duty to uphold dignity and honor of the faculty and the institution, strive to take steps to make environment conducive for quality education.

The Faculty of Management, Business Administration, & Commerce has also been greatly contributing to the research domain despite limited resources. We have resolve to overcome all odds and make SMI University leading institute of Pakistan.

I also hereby acknowledge, and applause efforts made by our visionary Vice Chancellor Professor Dr. Mujeebuddin Sahrai Memon to bring SMI University as a top class institution. We believe, under his able guidance, our institution will cross number of milestones in days to come.

INTRODUCTION

The Department offers various programs at Undergraduate, Graduate and Postgraduate level, which have been designed in the light of guidelines provided by HEC. At the end of their studies, the students are equipped with a thorough knowledge of their profession including different types of business structure, business cultures and managerial functions, as well as political, social, economic, technological and ethical considerations affecting business. They have tremendous opportunities in the business management concerns.

Degree Programs offered at Business Administration

Currently the Department of Business Administration is offering following programs:

- Bachelor of Business Administration
- BBA (After 14 years of Education)
- BS Entrepreneurship
- Masters of Business Administration
- Ph.D. in Business Administration
- MS Public Administration

- MS Management Sciences
- BS Public Administration
- BS Economics

Degree Programs offered at Accounting, Banking & Finance

- BS in Accounting and Finance
- BS in Banking and Finance
- BS in Commerce

Department of Business Administration

"If everyone is moving forward together, then success takes care of itself" - Henry Ford.

The Department of Business Administration is one of the old departments of SMIU, which offers BBA, MBA, MS, and PhD programs to its students in morning as well in the evening. The department has fifteen full-time highly qualified and experienced faculty members with advanced degrees from some of the great national and international universities. Among these four full-time faculty members hold doctorates from prestigious institutions of the country.

In addition to that, we have a number of outstanding visiting faculty members who have specialisation in their fields. The courses, being taught to the students are relevant to the present day world. Some of them are supply chain management, marketing, entrepreneurship, leadership, change management, and human resource management.

A PhD program in Management Sciences has also been started at the department. Also, students are exposed to the variety of concepts, tools and procedures in research methods, allowing them to address the management challenges in a scientific manner. The curriculum is designed to support students intellectually and allowing them to contribute in the management theories and practices. During the year of 2021-22, the department of Business Administration organised multiple events that benefited the students as well as faculty.

Prof. Dr. Jamshed Adil Halepota
Chairperson



The Department offers various programs at graduate and undergraduate level, which have been designed following the guidelines of HEC and NBEAC. At the end of their studies, the students are equipped with a thorough knowledge of their professions including different types of business structures, business cultures and managerial functions, as well as political, social, economic, technological and ethical considerations affecting business.

An added advantage of the department is that SMIU is located in the area which is known as the "Wall Street" of Karachi. In front of SMIU lies the country's largest trade body, i.e. the Karachi Chamber of Commerce and Industry. On the other side lies the iconic building of Habib Bank Plaza, housing the head office of the largest bank of the country.

In addition to the immediate neighbourhood houses the head offices of all the other major banks, State Bank of Pakistan, Karachi Port Trust, Clearing and forwarding agencies, Customs House etc.; close proximity to country's leading business houses accords an opportunity to students of SMIU to learn practically through internships in their areas of interest.

The Department offers following academic programs:

Bachelor of Business Administration (BBA): The Department offers a comprehensive four-year (eight semesters) BBA degree program with concentration in Marketing, Finance, Human Resource Management, Supply Chain Management (SCM) and Islamic Banking & Finance (IBF).

It is also compulsory for the students of BBA to complete minimum six-week internship at any business organization after fifth semester. The students are required to submit a report comprising minimum 2000 words giving details about what they learned during their internship.

Bachelor of Business Administration (BBA) for 14 years Education: Students with 14 years education (BA, BSc, B.Com etc) will be admitted to the BBA program. However, such students will undertake 75-78 credit hours (Inclusive of HEC Compulsory Courses) to earn a BBA degree. The deficiency courses may be covered through a standalone bridging semester. In such a case, the duration of BBA degree may increase from the normal two years.

Bachelor of Business Administration (BBA) for 15 years Education: In case the candidate has 15 years education, the number of deficiency credit hours to be undertaken will be determined by the HEI on a case to case basis. The guiding principle for the award of BBA degree is that a student must have earned at least 60 credit hours of business courses, including such courses from previous degree.

BS Entrepreneurship: Entrepreneurship is a process through which individuals and groups pursue opportunity, leverage resources, and initiate change to create value. Thus, an entrepreneur is one who creates value by managing change, identifying and pursuing opportunities, acting with passion and purpose, living proactively, and organizing and leveraging resources. The BS Entrepreneurship program help graduates in identifying opportunities, preparing business plans, and actually starting and managing a business with global perspective.

BS Public Administration: The Department of Business Administration at SMI University offers a four years BS Public Administration degree program of 8 semester with 130-34 credit hours. This 4 years degree program of Bachelors of Public Administration (BPA) offers students wider career opportunities in government and policy-making organizations, nonprofit institutions, and other social and civil service institutions.

BS Public Administration Curriculum would equip the students with skills specifically required to manage the government institutions with emphasis on ethics and values that guide the conduct of public affairs at all levels. This program will focus on the performance of government in formulating and implementing public policies and is intended to prepare students to work in the various levels of government and other non-governmental organizations.

BS Economics: The Department of Business Administration at SMI University offers a four years BS Economics degree program of 8 semester with 130 credit hours. A degree in economics would provide preparation for employment in technical and scientific areas and is appropriate for graduate studies in economics and related fields such as statistics, mathematics and finance.

Master of Business Administration (MBA): The Department offers MBA degree with concentration in Human Resource Management, Marketing, Finance, and Supply Chain Management.

The MBA program will be of two years duration, with a minimum requirement of 60-66 credit hours for those with 16 years undergraduate qualification (B.E, MBBS etc)

MBA Program with Relevant Business Education: However, the degree may be completed in a minimum 1.5 years by students with 16 years of relevant business education. Such students can earn an exemption of up to 30-36 Cr Hrs to be decided by the HEI.

Master of Science (MS) in Management Sciences: The main objective of Master of Science MS is to prepare professionals for managerial positions in various organizations. It also prepares students for scholarly research and teaching roles.

Master of Science (MS) in Public Administration: The main objective of MS (Public Administration) is to train students for public services and thereby producing public administration professionals for public and private and profit and nonprofit sectors. The program is designed to help students to enhance their ability to understand, analyze and control organizational environment to manage effectively and promote change.

Doctor of Philosophy (PhD) in Management Sciences: To cater to the increasing need for qualified and research-

oriented teachers and competitive business manager, SMIU offers a well-rounded and thorough PhD program. The program is suited to lecturers and professionals who want to enhance their knowledge and career prospects by gaining contemporary business knowledge.

The Department is privileged to have highly qualified and devoted faculty with PhD and MS degrees from the best national and international universities.

Bachelor of Business Administration (BBA)

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	8
Courses	42+2 = 44 (42x3 = 126 Cr H & 2x2 = 4 Cr H)
Total Credit Hours	130

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENG300	English Grammar	-	3
2	HMT302-3/4	Pakistan Studies - Islamic Studies/Ethics	-	3
3	QTM305	Business Mathematics	-	3
4	ECO322	Microeconomics	-	3
5	LNG312	Language - I (Arabic/Chinese/French)	-	2
6	CSC320	Computer Applications	-	3

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENG301	English Composition	ENG300	3
2	ECO408	Macroeconomics	ECO322	3
3	LNG313	Language - II (Arabic/Chinese/French)	LNG312	2
4	ACT423	Principles of Accounting	-	3
5	MGT321	Principles of Management	-	3
6	SOS310	Principles of Sociology	-	3

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENG406	Oral Communication & Presentation Skills	ENG301	3
2	QTM407	Descriptive Statistics	QTM305	3
3	SOS311	Principles of Psychology	-	3
4	ENS314	Environmental Science	-	3
5	MKT424	Principles of Marketing	-	3
6	ACT431	Financial Accounting	ACT423	3

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENG409	Business & Electronic Communication	ENG406	3
2	SOS415	Introduction to International Relations	-	3
3	ECO416	Pakistan Economy	ECO408	3
4	BUS518	Corporate Social Responsibility	MGT321	3
5	LOG517	Logic	QTM305	3
6	FIN426	Introduction to Business Finance	ACT423	3

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MGT430	Personal & Corporate Skills Development	MGT321	3
2	HRM425	Human Resource Management	MGT321	3
3	FIN532	Financial Management	FIN426	3
4	MKT533	Marketing Management	MKT424	3
5	MGT540	Organizational Behavior	MGT321	3
6	SCM529	Supply Chain Management	MGT321	3

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	BUS527	Business Law		3
2	CSC534	Management Information System	CSC320	3
3	ECO542	Development Economics	ECO416	3
4	QTM643	Statistical Inference	QTM407	3
5		Specialization I	-	3
6		Specialization II	-	3

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	RMT628	Business Research Methods	QTM643	3
2	MGT635	Operation Management	MGT321	3
3	BUS636	Business Taxation (or Laws of Taxation or Taxation)	-	3
4	ACT541	Cost and Management Accounting	FIN532	3
5		Specialization III	-	3

EIGHTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MGT644	Entrepreneurship	MGT321	3
2		Specialization IV	-	3
3	PRJ629	Project	-	3

BS Public Administration

CURRICULUM STRUCTURE

Duration	04-Years
Semester	08
Courses	44
Total Credit Hours	130-34

CURRICULUM PLAN

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ENG300	English Grammar / English I	None	3
2	CSC320	Introduction to Computers	None	3
3	HMT302	Pakistan Studies	None	2
4	PA307	Introduction to Public Administration	None	3
5	ECO322	Microeconomics	None	3

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ENG302	English Composition / English II	English I	3
2	SOS310	Introduction to Sociology	None	3
3	HMT303	Islamic Studies/Ethics	None	2
4	QTM306	Fundamentals of Mathematics	None	3
5	ECO408	Macroeconomics	Microeconomics	3
6	MGT321	Principles of Management	None	3

SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	QMT408	Introduction to Statistics	None	3
2	ENG406	Oral Communication & Presentation Skills/ English III	English I & II	3
3	LOG518	Logic & Critical Thinking	None	3
4	ACT431	Financial Accounting	None	3
5	PA408	Administrative Ethics	Introduction to Public Administration	3
6	SOS311	Introduction to Psychology	None	3

SEMESTER IV

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ENG409	Business & Electronic Communication/ English IV	None / English I, II & III	3
2	MGT540	Organizational Behavior	Intro. to Psychology & Principles of Management	3
3	PA409	World Civilization	None	3
4	PA410	Introduction to Public Policy	Introduction to Public Administration	3
5	MGT424	Principles of Marketing	None	3
6	MGT425	Human Resource Management	Principles of Management	3

SEMESTER V

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	PA511	Government & Society in Pakistan	Pak. Studies	3
2	PA512	Principles of Public Finance	Micro & Macro Economics	3
3	ECO542	Introduction to Development Economics	Micro & Macro Economics	3

4	QTM508	Applied Statistics for Managers	Introduction to Statistics	3
5	PA515	Political & Constitutional Development in Pakistan	Pakistan Studies	3
6	FIN532	Financial Management	Financial Accounting	3

SEMESTER VI

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	RMT620	Research Methods & Techniques	Intro to Statistics & Applied Statistics for Managers	3
2	PA516	Administrative Law & Accountability	None	3
3	SOS415	International Relations	None	3
4	PA517	Decentralization & Governance	Govt. & Society in Pakistan, Pol. & Constitutional Development in Pakistan	
3				
5	PA518	Social Entrepreneurship	Intro to Sociology, Principles of Management	3
6	PA519	Public Policy Analysis	Introduction to Public Policy, Micro & Macro Economics	3

SEMESTER VII

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1		Specialization Course – I	None	3
2		Specialization Course – II	None	3
3	MGT621	Strategic Management	Principles of Management	3
4	PA605	Managing Public & Non-Profit Organizations	Principles of Management	3
5	PA606	Contemporary Issues of Public Admin in Pakistan	Intro to Public Admin & Government & Society in Pakistan	3

SEMESTER VIII

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1		Specialization Course – III	None	3
2		Specialization Course – IV	None	3
3	MGT 622	Project Management	Financial Management	3
4		(Research Project / Internship Report) & Viva Voce	Research Methods & Techniques	6

BS Economics

CURRICULUM STRUCTURE

Duration	04-Years
Semester	08
Courses	44
Total Credit Hours	130

CURRICULUM PLAN

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ECON101	English-I	None	3
2	ECON102	Principles of Micro Economics	None	3
3	ECON103	Islamic Studies	None	2
4	ECON104	Mathematics I	None	3
5	ECON105	Introduction to Computer	None	3
6	ECON106	Optional (Non Economics)	-	3

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ECON107	English II	English-I	3
2	ECON108	Pakistan Studies	None	2
3	ECON109	Principles of Macroeconomics	Principles of Micro Economics	3
4	ECON110	Mathematics II	Mathematics I	3
5	ECON111	Optional (Non Economics)	-	3
6	ECON112	Optional (Non Economics)	-	3

SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ECON201	English-III	English II	3
2	ECON202	Intermediate Microeconomics	Principles of Micro Economics	3
3	ECON203	Development Economics	Principles of Macroeconomics	3
4	ECON204	Statistics I	None	3

5	ECON205	Optional (Non Economics)	-	3
6	ECON206	Optional (Non Economics)	-	3

SEMESTER IV

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ECON207	English-IV	English-III	3
2	ECON208	Intermediate Macroeconomics	Principles of Macroeconomics	3
3	ECON209	Statistics II	Statistics I	3
4	ECON210	World Economic History	None	3
5	ECON211	Optional (Non Economics)		3
6	ECON212	Optional (Non Economics)		3

SEMESTER V

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ECON301	Microeconomics	Intermediate Microeconomics	3
2	ECON302	Macroeconomics	Intermediate Macroeconomics	3
3	ECON303	Mathematical Economics I	Intermediate Microeconomics, Mathematics II	3
4	ECON304	Issues in Pak Economy	Development Economics	3
5	ECON305	Optional (Non Economics)	-	3

SEMESTER VI

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ECON307	Economics Growth	Development Economics	3
2	ECON308	Econometrics I	Development Economics	3
3	ECON309	Mathematical Economics II	Development Economics	3
4	ECON310	Elective I		3
5	ECON311	Elective II		3

SEMESTER VII

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ECON401	International Trade theory	Development Economics	3
2	ECON402	Research Methods	Statistics II	3
3	ECON403	Public Sector Economics	Development Economics	3
4	ECON404	Econometrics II	Econometrics I	3
5	ECON405	Elective III		3

SEMESTER VIII

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1	ECON406	Entrepreneurial Economics	Microeconomics	3
2	ECON407	Islamic Economics	Macroeconomics	3
3	ECON408	Monetary Economics	Macroeconomics	3
4	ECON409	Elective IV		3
5	ECON410	Elective V		3

Bachelor of Business Administration (BBA) for 14 years Education

CURRICULUM STRUCTURE

Duration	02-Years (plus Bridging Semester)
Semester	05
Courses including internship	26 (26 x 3 = 78)
Total Credit Hours	78

CURRICULUM PLAN

BRIDGING SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	ENG300	English I	-	3+0
2.	ACT431	Financial Accounting	-	3+0
3.	MGT321	Principles of Management	-	3+0
4.	MKT424	Principles of Marketing	-	3+0

5.	CSC320	Introduction to Computing	-	3+0
6.	QTM305	Business Maths	-	3+0

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	ENG301	English II	ENG300	3+0
2.	QTM407	Descriptive Statics	QTM305	3+0
3.	HMT302-3/4	Pakistan Studies Islamic Studies/Ethics	-	3+0
4.	FIN426	Introduction to Business Finance	QTM305	3+0
5.	MKT553	Marketing Management	MKT424	3+0

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	ENG406	English III	ENG301	3+0
2.	QTM643	Statistical Inference	QTM407	3+0
3.	MGT644	Entrepreneurship	MGT321	3+0
4.	FIN532	Financial Management	FIN426	3+0
5.	HRM425	Human Resource Management	MGT321	3+0
6.	ECO629	Business Economics	-	3+0

SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	ENG409	English IV	ENG406	3+0
2.	RMT628	Business Research Methods	QTM643	3+0
3.	MGT635	Operations Management	MGT321	3+0
4.	ACT541	Cost & Management Accounting	FIN532	3+0
5.		Specialization I	-	3+0
6.		Specialization II	-	3+0

SEMESTER IV

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.		Specialization III	-	3+0
2.		Specialization IV	-	3+0
3.		Project	-	3+0

Bachelor of Business Administration (BBA) 15 years Education

In case the candidate has 15 years education, the number of deficiency credit hours to be undertaken will be determined by the HEI on a case to case basis. The guiding principle for the award of BBA degree is that a students must have earned at least 60 credit hours of business courses, including such courses from previous degree.

UNDER GRADUATE ELECTIVES

MANAGEMENT

S. NO.	COURSE CODE	COURSE TITLE
1	MGT650	Total Quality Management
2	MGT651	Corporate Social Responsibility
3	MGT652	Corporate Strategy
4	MGT653	Decision Support Systems
5	MGT654	E-Commerce
6	MGT655	Leadership
7	MGT656	Managerial Economics

FINANCE

S. NO.	COURSE CODE	COURSE TITLE
1	FIN660	Analysis of Financial Statements
2	FIN661	Corporate Finance
3	FIN662	Treasury and Fund Management
4	FIN663	Investment and Portfolio Management
5	FIN664	Introduction to Derivatives
6	FIN665	Financial Markets and Institutions
7	FIN666	Investment Banking
8	FIN667	Auditing
9	FIN668	Islamic Banking & Finance

Marketing

S. NO.	COURSE CODE	COURSE TITLE
1	MKT670	Advertising
2	MKT671	Brand Management
3	MKT672	Consumer Behavior
4	MKT673	Customer Relationship Management
5	MKT674	E-Business
6	MKT675	Sales and Selling
7	MKT676	Digital Marketing

8	MKT677	Product Development and Management
9	MKT678	Marketing Research
10	MKT679	Supply Chain Management

HUMAN RESOURCE MANAGEMENT

S. NO.	COURSE CODE	COURSE TITLE
1	HRM680	Recruitment and Selection
2	HRM681	Training and Development
3	HRM682	Performance Appraisal and Management
4	HRM683	Compensation Management
5	HRM684	Industrial Relations and Labor Laws
6	HRM685	Conflict Resolution and Management

SUPPLY CHAIN MANAGEMENT (SCM)

S. NO.	COURSE CODE	COURSE TITLE
1	SCM 691	Dynamics of Logistics & Distribution
2	SCM 692	Operational Planning in Supply Chain
3	SCM 693	Strategic Procurement in Supply Chain Management
4	SCM 694	Managing risk in Supply chain
5	SCM695	Global Supply Chain Management
6	SCM696	Sustainable Supply Chain Management
7	SCM697	Transportation Strategy
8	SCM698	Supply Chain Software
9	SCM699	Retail Management

ISLAMIC BANKING & FINANCE (IBF)

S. NO.	COURSE CODE	COURSE TITLE
1	IBF661	Islamic Banking
2	IBF662	Islamic Law of Contract
3	IBF663	Accounting for Islamic Financial Institution
4	IBF664	Islamic Economics
5	IBF665	Sharia'h Audit & Governance
6	IBF666	Islamic Capital Market
7	IBF667	Risk Management in Islamic Financial Institution
8	IBF668	Islamic Entrepreneurship

Bachelor of Science in Entrepreneurship (BS Entrepreneurship)

CURRICULUM STRUCTURE

Duration	04-Years
Semester	08
Course + Project	42+2=44 (40x3 = 120 Cr H & 2x2 = 4 Cr H) +06 Cr H
Total Credit Hours	130

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE REQUISITE	CREDIT HOURS
1	ENT 311	Introduction to Accounting	-	3
2	HMT302-3/4	Islamiat and Pakistan Studies/Humanities	-	3
3	CSC320	Computer Application in Business	-	3
4	ENG300	English I	-	3
5	QTM305	Business Mathematics	-	3
6	LNG312	Language I	-	2

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE REQUISITE	CREDIT HOURS
1	ENT321	Accounting for Business Operations	-	3
2	ENG301	English II	ENG 300	3
3	LNG313	Language II	LNG312	2
4	ENT322	Principles of Management	-	3
5	ENT323	Introduction to Business Finance	-	3
6	ENT324	Principles of Marketing	-	3

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE REQUISITE	CREDIT HOURS
1	ENT411	Introduction to Entrepreneurship	ENT322	3
2	ENT412	Personal Management	ENT322	3
3	ECO322	Microeconomic	-	3
4	ENT422	Human Resource Management	ENT 322	3
5	QTM414	Managerial Statistics	QTM305	3
6	ENG406	Oral and Written Communication / English III	ENG301	3

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE REQUISITE	CREDIT HOURS
1	ENT421	Logic and Critical Thinking	QTM414	3
2	ECO408	Macroeconomics	ECO322	3
3	ENT515	Business and Labor Laws	ENT 322	3
4	SOS311	Introduction to Psychology	-	3
5	ENT423	Consumer Behavior	ENT324	3
6	ENG409	English IV	ENG406	3

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE REQUISITE	CREDIT HOURS
1	ENT511	Business Plan Development	ENT411	3
2	ENT512	Corporate Social Responsibility	ENT515	3
3	ENT513	Entrepreneurial Marketing	ENT324	3
4	ENT514	Finance and Taxation for Entrepreneurs	ENT323	3
5	ENT413	Psychology & Behavior of Entrepreneurs	SOS311, ENT411	3
6	RMT528	Business Research	QTM414	3

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE REQUISITE	CREDIT HOURS
1	ECO516	Issues in Pakistan Economy	ECO408	3
2	ENT521	International Business	ENT422	3
3	ENT612	Business Policy & Design	ENT513	3
4	ENT523	Product Innovation and Design	ENT513	3
5	ENT524	Logistics and Supply Change Management	ENT513	3
6		Elective-I	-	3

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE REQUISITE	CREDIT HOURS
1	ENT611	Capstone Project-I	ENT523, RMT528	3
2	ENT522	Operation Management	ENT524	3
3	ENT613	SME Management	ENT523	3
4		Elective-II	-	3

EIGHT SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	PRE REQUISITE	CREDIT HOURS
1	ENT621	Capstone Project-II	ENT611	3
2	ENT622	Technology Management & Innovation	ENT523	3
3		Elective-III	-	3
4		Elective-IV	-	3

ELECTIVES

S. NO.	COURSE CODE	COURSE TITLE	CREDIT HOURS
1	ENT650	Mergers and Acquisition	3
2	ENT651	Trade and Retail Management	3
3	ENT652	Services Marketing	3
4	ENT653	Social Entrepreneurship	3
5	ENT654	Intrapreneurship	3
6	ENT655	Family Business Management	3
7	ENT656	Crisis Management	3
8	ENT657	Creativity and Business	3
9	ENT658	Executive Leadership	3
10	ENT659	Women Entrepreneurship and Leadership	3

MBA Program

CURRICULUM STRUCTURE

Duration	02-Years
Semester	04
Course + Thesis / Electives	$(18 \times 3 + 06) = 54 + 06$
Total Credit Hours	60

CURRICULUM PLAN

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	FIN426	Introduction to Business Finance	-	3+0
2.	ACT431	Financial Accounting	-	3+0
3.	MKT424	Principles of Marketing	-	3+0

4.	ECO629	Business Economics	-	3+0
5.	QTM643	Statistical Inference	-	3+0
6.	HRM425	Human Resource Management	-	3+0

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	FIN532	Financial Management	FIN426	3+0
2.	ACT541	Cost & Management Accounting	ACT431	3+0
3.	MKT533	Marketing Management	MKT424	3+0
4.	ECO542	Development Economics	ECO629	3+0
5.	RMT720	Research Methods & Techniques	QTM643	3+0
6.		Specialization I/Independent Study	-	3+0

SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	QTM723	Quantitative Tools for Research	RMT720	3+0
2.	MGT721	Strategic Management	HRM425	3+0
3.	MGT722	Project Management	HRM425	3+0
4.		Specialization II	-	3+0
5.		Specialization III/ Independent Study	-	3+0

SEMESTER IV

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.		Specialization IV	-	3+0
2.		Thesis/Project/Two Electives (06 Cr Hrs)	-	6+0

MBA Program with Relevant Business Education

However, the degree may be completed in a minimum 1.5 years by students with 16 years of relevant business education. Such students can earn an exemption of up to 30-36 Cr Hrs to be decided by the HEI. The Tentative Curriculum Plan for 16 years of relevant business education is.

CURRICULUM STRUCTURE

Duration	1.5-Years
Semester	03
Course + Thesis / Electives	(8 x 3) = 24 + 06
Total Credit Hours	30

CURRICULUM PLAN

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	RMT720	Research Methods & Techniques	-	3+0
2.	MGT721	Strategic Management	-	3+0
3.	MGT722	Project Management	-	3+0
4.		Specialization I	-	3+0

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	QTM723	Quantitative Tools for Research	RMT720	3+0
2.		Specialization II	-	3+0
3.		Specialization III	-	3+0
4.		Specialization IV / Independent Study	-	3+0

SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	RMT724	Thesis	-	3+0

Master of Science (MS) in Management Sciences

CURRICULUM STRUCTURE

Duration	1.5 Years
Semesters	3
Courses	08 (24 Cr. Hours)
Thesis	(6 Cr. Hours)
Total Credit Hours	30

CURRICULUM PLAN

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	RMT720	Research Methods & Techniques	-	3+0

2.	MGT721	Strategic Management	-	3+0
3.	MGT722	Project Management	-	3+0
4.		Specialization I	-	3+0

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	QTM723	Quantitative Tools for Research	RMT720	3+0
2.		Specialization II	-	3+0
3.		Specialization III	-	3+0
4.		Specialization IV / Independent Study	-	3+0

SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	PRE-REQ	CREDIT HOURS
1.	RMT724	Thesis	-	3+0

Master of Science (MS) in Public Administration

CURRICULUM STRUCTURE

Duration	1.5 Years
Semesters	3
Courses	08 (24 Cr. Hours)
Thesis	(6 Cr. Hours)
Total Credit Hours	30

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	RMT725	Research Methods in Public Administration
2	MSP726	Governance, Public Administration & Development
3	MSP727	Comparative Public Policy
4		Specialization 1

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	MGT728	Organizational Theory & Public Management
2		Specialization II
3		Specialization III
4	RMT750	Independent Study/ Specialization IV

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1		Thesis

GRADUATE ELECTIVES

SPECIALIZATION

MANAGEMENT

S. NO.	COURSE CODE	COURSE TITLE
1	MGT750	Time Management
2	MGT751	Change Management
3	MGT752	Knowledge Management
4	MGT753	Qualitative Tools for Research
5	MGT754	Econometrics
6	MGT755	Advanced Research Writing
7	MGT756	Global Governance and Development
8	MGT757	Strategic Leadership
9	MGT758	Corporate governance
10	MGT759	Business Analytics for Decision Making
11	MGT760	Advance Entrepreneurship
12	MGT761	Human Rights

PUBLIC ADMINISTRATION

S. NO.	COURSE CODE	COURSE TITLE
1	MSP750	Public Policy Analysis
2	MSP751	Public Policy Management
3	MSP752	Economic Analysis of Public Policies
4	MSP753	Law & Public Policy

5	MSP754	Modern Public Management
6	MSP755	Public Financial Management & Budgeting
7	MSP756	Public Sector Reforms
8	MSP757	Law & Public Administration

FINANCE

S. NO.	COURSE CODE	COURSE TITLE
1	FIN760	Strategic Finance
2	FIN761	Advanced Corporate Finance
3	FIN762	Financial Reporting and Analysis
4	FIN763	Advanced Financial Management
5	FIN764	Financial Risk Management
6	FIN765	Working Capital Management
7	FIN766	Derivative Management
8	FIN767	Budgeting
9	FIN768	Islamic Banking & Finance

MARKETING

S. NO.	COURSE CODE	COURSE TITLE
1	MKT770	Strategic Marketing
2	MKT771	Seminar in Marketing
3	MKT772	Brand Management
4	MKT773	Digital and Social Media Marketing
5	MKT774	Marketing Research
6	MKT775	Integrated Marketing Communication
7	MKT776	International Marketing
8	MKT777	Services Marketing
9	MKT778	Product Innovation & Design
10	MKT779	Media Management

HUMAN RESOURCE MANAGEMENT

S. NO.	COURSE CODE	COURSE TITLE
1	HRM780	Strategic HRM
2	HRM781	Organizational Development
3	HRM782	Seminar in Human Resource Management
4	HRM783	Talent Management
5	HRM784	Career Management and Planning

6	HRM785	Leadership Development
7	HRM786	HR Policy Development
8	HRM787	Compensation Management
9	HRM 788	Succession Planning

SUPPLY CHAIN MANAGEMENT

S. NO.	COURSE CODE	COURSE TITLE
1	SCM790	Supply Chain Management
2	SCM791	Dynamics of Logistics and Distribution
3	SCM792	Operational Planning in Supply Chain
4	SCM793	Strategic Procurement in Supply Chain Management
5	SCM794	Managing Risks in Supply Chains
6	SCM795	Operational Management in Supply Chain Management
7	SCM796	Transportation & Warehouse Management
8	SCM797	Strategic Supply Chain Management

PhD Program: Department of Business Administration

1. Title of the Program

PhD (Management Sciences)

2. Introduction

To cater to the increasing need for qualified and research-oriented teachers and competitive business manager, SMIU offers a well-rounded and thorough PhD program. The program is suited to lecturers and professionals who want to enhance their knowledge and career prospects by gaining contemporary business knowledge. Research scholars benefit immensely by identifying important problems of the business world and evaluate it with different perspectives to generate and disseminate their valuable findings with the community. Our program is designed to stimulate the intellectual ideas and help conduct research that is meaningful and inspirational.

3. Objectives

- To develop Mastery of broad based knowledge in management sciences and specific knowledge relevant to their own research interests i.e., field of specialization.
- To develop Mastery of research methodology and advanced statistics, including quantitative and qualitative methods.
- To demonstrate ability to make original and significant contributions to the scientific knowledge base in their area of specialization.
- To demonstrate ability to engage in a productive research career, including publications, Grant writings and conference presentations.
- To demonstrate ability to teach and provide valuable educational and professional experience to students in academic settings.
- To excel in a variety of institutional settings, including universities, industry and government research labs, and think tanks.

4. Scope

The doctoral program in Management Science is designed for people who plan to pursue an academic or research-based

career in Management Science This program has been intended to ensure the doctoral students have the full range of necessary research and academic competencies, skills and sufficient knowledge of their subject area essential for designing and executing research at the highest standards of academic excellence. It aims to do this by combining structured course work with supervised research study.

The SMIU aims to provide a PhD program, which is both educationally sound and directly relevant to those areas of industry, commerce, public service, which Management Sciences graduates tend to enter. In developing the program, university has recognized that students may want to improve their job opportunities in academia or consultancy, change career direction or seek a fresh intellectual stimulus.

This program will help the public and private sector teachers, researchers and executives to improve their academic qualification, research capacity, and practical application. The doctoral degree will be offered in three major disciplines (Finance, Marketing, and Human Resource).

PhD in Management Science

CURRICULUM STRUCTURE

Duration	3-Years
Semesters	06
Courses work	06 (18 Credit Hours)
Dissertation	Rest of the time will spend on research work (36 Credit Hours)

Deficiency Courses

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	MGT 801	Qualitative Research Methods	03
2	MGT 802	Advance Research Methods Techniques	03
3	MGT 803	Seminar in Research	03
4	MGT 831	Independent Study	06

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	MGT 804	Advanced Qualitative Research Methods	03
2	MGT 805	Advanced Quantitative Research Methods	03
3	MGT 806	Academic Writing Skills	03

Second Semester

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	MGT 811	Elective-I (Theories of Management Sciences)	03
2	MGT 812	Elective -II	03
3	MGT 833	Independent Study	03

Third Semester

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	MGT 851	Dissertation	09

Fourth Semester

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	MGT 851	Dissertation	09

Fifth Semester

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	MGT 851	Dissertation	09

Sixth Semester

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	MGT 851	Dissertation	09

PhD Electives

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	MGT 811	Theories of Management Sciences	03
2	MGT 812	Communication Strategies for scholars	03
3	MGT 813	Seminar in Behavioral Decision Making	03
4	MGT 814	Seminar in International Human Resource Management	03
5	MGT 815	Seminars in Organizational Behavior	03
6	MGT 816	Seminar in Leadership and Change Management	03
7	MGT 817	Designing Organizational Research	03
8	MGT 818	Advanced International Business Management	03
9	MGT 819	Seminar in Entrepreneurial Communication	03
10	MGT 820	Behavior Research in Marketing	03
11	MGT 821	Seminar in Product Planning	03
12	MGT 822	Seminar in qualitative Research in Marketing: Strategic Models and Methods	03
13	MGT 823	Empirical Analysis of Dynamic Decision Context	03
14	MGT 824	Culture and Persuasion	03
15	MGT 825	Seminar in International Marketing	03
16	MGT 826	Financial Econometrics	03
17	MGT 827	Behavioral Finance and Decision Making	03
18	MGT 828	Seminar in Economics of Strategy and Organization	03
19	MGT 829	Emerging issues in Financial Markets	03
20	MGT 830	Empirical Methods in Finance	03

Department of Accounting Banking and Finance



Department's Description:

The Department of Accounting, Banking and Finance is to provide the unique curriculum and learning environment that nurtures development of operational practitioners and scholars.

The Department offers concentration in Accounting, Finance and Banking. The primary objective of the program is to equip the graduates with knowledge of accounting and finance and transform capable executives for securing the key positions in the Financial Services Sector.

The Department is offering comprehensive, state-of-the-art programs. It seeks to provide students with unique opportunities for personal and professional growth by blending the mix of their competence and improving their skills for learning, analyzing, and critical thinking.

Program title/Degree title:

- BS Accounting and Finance
- BS Banking and Finance
- BS Commerce
- MS Accounting and Finance
- MS Banking and Finance

Scope of the program:

At Department of Accounting, Banking and Finance inferential teaching and learning is adopted. Presentations, applied workshops, groups discussion, seminars, simulation exercises, case studies, and research are added to classroom teaching to provide cutting edge to our students.

Description of programs:

Bachelor of Science (BS) in Accounting and Finance:

The Department offers a comprehensive four-year (Eight Semesters) BS in Accounting and Finance, designed to build sound financial foundation as well as to develop analytical skills amongst the students. Students are groomed with knowledge and skills to cope up with rapidly changing global financial environment. After completion of the degree the students acquire adequate financial knowledge enabling them to pursue their career in the public and private financial institutions.

BS in Banking and Finance

BS in Banking and Finance is a 130 credit-hour program with 44 courses.

BS Commerce

The Department of Accounting Banking & Finance at SMI University offers a four years BS Commerce degree of 8 semester with 138 credit hours. BS Commence degree program focuses on multiple discipline in the field of Banking, Finance, Human Resources, Management and many other related fields.

Bachelor of Science in Commerce program is planned for those students who, after completing their 12 years of education, are looking for some knowledge based, career oriented and market determined educational program in the field of Commerce.

This program consists of 49 courses of 144 credit hours cumulative. Out of these, 33 are core course, 12 electives courses plus Experiential Work Project of 4 courses.

MS Accounting and Finance

MS Accounting and Finance is 1.5 years program, with minimum requirement of 30 Credit Hours. The courses offered are in line with the HEC requirements of the program.

MS Banking and Finance

MS Banking and Finance is 1.5 years program, with minimum requirement of 30 Credit Hours. The courses offered are in line with the HEC requirements of the program.



BS Accounting & Finance

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	8
Courses (including internships)	45 (43*3=129+2*2=4)
Total Credit Hours	133

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Prerequisites
1	ENG350	English Grammar	-
2	HMT 302-3/4	Pakistan Studies - Islamic Studies/Ethics	-
3	ECO363	Microeconomics	-
4	QTM370	Business Mathematics	-
5	SOC371	Introduction to Psychology	-
6	ACC380	Principles of Accounting	-

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Prerequisites
1	ENG351	English Composition	ENG350
2	QTM360	Descriptive Statistics	QTM370
3	QTM361	Calculus	QTM370
4	ECO364	Macroeconomics	ECO363
5	MKT365	Principles of Marketing	-
6	ACC381	Financial Accounting	ACC380

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Prerequisites
1	ENG452	Oral Communication & Presentation Skills	ENG351
2	MGT472	Principles of Management	-
3	FIN480	Introduction to Business Finance	ACC381
4	ACC482	Cost Accounting	ACC381
5	LAW485	Business Law	-
6	MIS487	Computer Applications	-

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Prerequisites
1	ENG453	Business & Electronic Communication	ENG452
2	QTM462	Statistical Inference	QTM360
3	MGT473	Human Resource Management	MGT472
4	LOG517	Logic	
5	FIN482	Financial Management	FIN480
6	ACC483	Managerial Accounting	ACC482

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Prerequisites
1	MGT566	Organizational Behavior	MGT473
2	FIN583	Analysis of Financial Statements	FIN482
3	ACC584	Taxation	FIN482
4	FIN590	Investment Banking	FIN480
5	FIN591	Treasury and Funds Management	FIN480
6	MIS594	Essential Software	MIS487

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Prerequisites
1	ACC590	Financial Reporting	FIN480
2	FIN695	Empirical Research in Finance	QTM462
3	RMT628	Business Research Methods	QTM462
4	FIN593	Corporate Finance	FIN480
5	FIN594	Behavioral Finance	FIN480
6	FIN481	Financial Markets and Institutions	FIN480

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Prerequisites
1	ACC686	Independent Studies (Accounting)	
2	ACC692	Auditing	ACC483
3	ACC693	Strategic Management	MGT473
4	ACC591	Business Analysis and Decision Making	QTM462
5	FIN592	Financial Risk Management	FIN480
6	FIN668	Islamic Banking & Finance	FIN480

EIGHT SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Prerequisites
1	FIN684	Independent Studies (Finance)	-
2	FIN696	International Finance	FIN593
3	FIN697	Derivatives	FIN592
5		Internship (Finance)	-
6		Internship (Accounting)	-

BS (Banking & Finance)

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSC320	Computer Application in Business		3
2	ENG350	English Grammar		3
3	ABF380	Introduction to Accounting		3
4	QTM370	Business Mathematics		3
5	HSS 101-100/106	Pakistan Studies - Islamic Studies/Ethics		3
6	ABF511	Introduction to Psychology		2

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENG351	English Composition	ENG300	3
2	LNG312	Language I	LNG312	2
3	ABF372	Principles of Management		3
4	ABF365	Principle of Marketing		3
5	ABF324	Banking and Finance		3
6	ABF381	Financial Accounting		3

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ABF480	Introduction to Business Finance	ABF324	3
2	ABF412	Bank Theory and Practices	ABF324	3
3	ENG452	Oral Communication & Presentation Skills	LNG313	3
4	ECO463	Microeconomics		3

5	QTM460	Descriptive Statistics	QTM305	3
6	LNG313	Language II	LNG312	2

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ABF421	Banking Operations and Practices	ABF412	3
2	ECO464	Macroeconomics	ECO408	3
3	ABF482	Financial Management	ABF411	3
4	ENG453	Business & Electronic Communication	ENG406	3
5	ABF423	Marketing Management	ABF323	3
6	QTM462	Statistical Inference	QTM407	3

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ABF511	Consumer Banking	ABF421	3
2	ABF513	Fundamental of Auditing		3
3	SOS510	Introduction to Sociology		3
4	ABF515	Cost and Management Accounting	ABF325	3
5		Internship		2

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ABF560	Financial Statement Analysis	ABF422	3
2	ABF522	E-Commerce	CSC320	3
3	ABF524	International Business	ABF422/ ABF423	3
4	ABF573	Human Resource Management	ABF322	3
5	RMT520	Research Methods	ABF424	3
6	ABF522	Business Intelligence		3

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ABF612	Taxation Management	ABF322/ ABF422	3
2	ABF613	Managerial Economics	ECO322	3
3	ABF618	Corporate Social Responsibility	ABF524	3
4	ABF635	Operations Management	ABF423/ ABF322	3
5		Internship		2

EIGHTH SEMESTER				
S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	
1	ABF621	Islamic mode of Financing	ABF421	3
2	ABF622	Investment Analysis and Portfolio Management	ABF521	3
3	ABF624	Credit and Risk Management	ABF422	3
4	ABF625	Final Project - Banking		3
5	ABF626	Contemporary Issues in Banking & Finance		3

BS Commerce

CURRICULUM STRUCTURE	
Duration	4-Years
Semesters	8
Courses (including internships)	44
Total Credit Hours	138

CURRICULUM PLAN				
FIRST SEMESTER				
S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	HMT302-3/4	Pakistan Studies - Islamic Studies/Ethics	None	3
2	ENG300	English Grammar	None	3
3	BMT321	Introduction to Business	None	3
4	ACT423	Principles of Accounting	None	3
5	ECO322	Microeconomics	None	3
6	QTM305	Business Mathematics	None	3

SECOND SEMESTER				
S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	SOS311	Principles of Psychology	None	3
2	ENG301	English Composition	English Grammar	3
3	CSC320	Computer Applications	None	3
4	ACT431	Financial Accounting	Principles of Accounting	3
5	ECO408	Macroeconomics	Microeconomics	3
6	QTM407	Descriptive Statistics	Business Mathematics	3

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	BUS527	Business Law	None	3
2	ENG406	Oral Communication & Presentation Skills	English Composition	3
3	FIN426	Introduction to Business Finance	Principles of Accounting	3
4	ACT432	Advanced Accounting-I	Financial Accounting	3
5	ECO416	Pakistan Economy	Microeconomics	3
6	MGT321	Principles of Management	None	3

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	SOS310	Principles of Sociology	None	3
2	ENG409	Business & Electronic Communication	Oral Communication & Presentation Skills	3
3	ACC482	Cost Accounting	Financial Accounting	3
4	ACT433	Advanced Accounting-II	None	3
5	MGT540	Organizational Behavior	Principles of Management	3
6	QTM543	Statistical Inference	Descriptive Statistics	3

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	RMT628	Business Research Methods	Statistical Inference	3
2	MGT656	Managerial Economics	None	3
3	FIN532	Financial Management	Introduction to Business Finance	3
4	MKT424	Principles of Marketing	None	3
5	BUS518	Corporate Social Responsibility	Principles of Management	3
6	HRM785	Leadership Development	None	3

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	LOG517	Logic	Business Mathematics	3
2	ACC692	Auditing	Financial Management	3
3	HRM525	Human Resource Management	Principles of Management	3

4	ACC483	Managerial Accounting	Cost Accounting	3
5	MGT644	Entrepreneurship	Principles of Management	3
6	BUS533	Corporate Laws and Secretarial Practices	Business Law	3

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MGT721	Strategic Management	Principles of Management	3
2	BUS636	Business Taxation	None	3
3	MGT654	E-Commerce	None	3
4		Elective-I		3
5		Elective-II		3

EIGHTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	
1	MGT758	Corporate Governance	None	3
2		Elective-III		3
3		Elective-IV		3
4		Research Project and Viva Voce (6) / Two Courses and Exam (3+3)		6

MS Accounting & Finance

CURRICULUM STRUCTURE

Duration	1.5-Years
Semester	03
Course + Thesis / Electives	(8x3 = 24 Cr. H +06 Cr. H)
Total Credit hours	30

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1.	ABF 711	Advanced Research Methodology	-	3
2.	ABF712	Research Methods and Manuscript Writing	-	3
3.	ABF713	Advanced International Financial Reporting	-	3
4.		Elective I	-	3

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1.	ABF714	Statistics for Finance	ABF711	3
2.		Elective II	-	3
3.		Elective III	-	3
4.		Elective IV	-	3

THIRD SEMESTER

S. NO.	COURSE TITLE	Pre-Req	Credit Hours
1.	Thesis Write-up	-	6

LIST OF ELECTIVES

S. NO.	COURSE CODE	COURSE TITLE
1.	ABF715	Advanced Corporate Finance
2.	ABF716	Strategic Management Accounting
3.	ABF717	Advanced Performance Management
4.	ABF718	Taxation Systems Management
5.	ABF719	Financial Markets and Institutions
6.	ABF720	Financial Modeling
7.	ABF721	International Trade and Finance
8.	ABF722	Investment Portfolio Management
9.	ABF723	Microfinancing Theories and Application
10.	ABF725	Performance Analysis and Management
11.	ABF726	Strategic Financial Management
12.	ABF727	Advanced Financial Reporting

MS in Banking and Finance

The applicants should:

- Have 50% marks or CGPA 2.5 in the last qualification with minimum 16 years of relevant business education or other qualifications in any discipline from a local or foreign institute recognized by the HEC
- Qualify the Aptitude Test and Interview

MS Banking & Finance

CURRICULUM STRUCTURE

Duration	1.5-Years
Semester	03
Course + Thesis / Electives	(8x3 = 24 Cr. H +06 Cr. H)
Total Credit hours	30

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1.	ABF731	Analysis of Corporate Financial Information	-	3
2.	ABF732	Statistics for Finance	-	3
3.	ABF733	Research Methodology	-	3
4.		Elective I	-	3

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1.	ABF734	Econometrics applications in Banking & Finance	ABF732	3
2.		Elective II	-	3
3.		Elective III	-	3
4.		Elective IV	-	3

THIRD SEMESTER

S. NO.	COURSE TITLE	Pre-Req	Credit Hours
1.	Thesis Write-up	-	6

LIST OF ELECTIVES

S. NO.	COURSE CODE	COURSE TITLE
1.	ABF735	International Financial Management
2.	ABF736	Financial Reporting and Analysis
3.	ABF737	Investment Analysis and Portfolio Management
4.	ABF738	Retail and Investment Banking
5.	ABF739	Micro Finance and Micro leasing
6.	ABF740	Legal and Regulatory Aspects of Banking Supervision
7.	ABF741	Islamic Banking, Theory and Practice
8.	ABF742	Monetary and Fiscal Framework in Islamic Finance
9.	ABF743	Islamic Insurance, Theory and Practice
10.	ABF744	Islamic Financial Instruments
11.	ABF745	Advance topics in International Finance

Department of Computer Science



Faculty of Information Technology

Professor Dr. Aftab Ahmed Shaikh

Dean I.T. / Chairperson of Computer Department



It is indeed a great pleasure, honor and deep satisfaction to lead esteemed team of the Faculty of I.T. and Department of Computer Science. The Faculty of I.T. makes every effort to ease the process of teaching, learning and researching. We sincerely follow the SMIU's motto "Enter to learn, go forth to serve", by providing best quality learning environment to the students. In conjunction with BS, we are offering MS and PhD programs in Computer Science, which proudly distinguishes us among few of the top universities in the country.

I firmly believe for students that choosing computing career is excellent choice of this era. When we look back on students' life after few years from now, they would

find it a perfectly right decision. However, we, at SMIU, require to nurture three values in student's personalities including a vast amount of patience, a high degree of creativity and an innate desire to learn. Our Faculty looks forward to continuous contribution in transforming lives of individuals and society by providing the excellence in quality of computing education.

Departments:

1. Department of Computer Science
2. Department of Software Engineering
3. Department of Artificial Intelligence & Mathematical Sciences

INTRODUCTION

The advent of computer has changed the shape of the world. The latest developments in the field of information technology provide opportunities to I.T related professionals to revolutionize society in ways unimagined before. Our mission is to educate and train the students who strive to lead the technological revolution. We are providing excellent environment in all departments of the Faculty with advanced equipments which can lead our youth towards cutting-edge technology.

I.T./Industrial Hub:

SMIU is located in the area where a number of I.T. industries, software houses, institutions, media and government organizations' networks are located. This puts our students at advantage to seek internships, etc., as well as familiarize themselves with I.T. related environment.

Distinctions of the Faculty

Laboratories:

The Faculty provides exceptional computing amenities. It is equipped with three state-of-the-art computer labs: two of them are computing laboratories with the latest machines, while the other one is hardware laboratory with modern equipment for electronic and digital circuit design courses. These laboratories are accessible to all students and faculty members. The computers are connected through state-of-the-art network environment.

PhD Faculty:

The Faculty is privileged to have highly qualified, multi-cultural and devoted faculty with PhD and MS/ M.Phil degrees from the best national and international universities.

Programs Offered:

BS, MS & PhD level programs are offered in all departments of I.T. faculty.

The advent of Computer has changed the shape of the world. Latest development in the field of Computer Science provides opportunity to computer professionals to revolutionize society in ways un-imagined before.

SMIU is located in the area where a number of IT organization, software houses, institutions and government organizations' networks are located. This enables students to seek internships, etc., as well as familiarize themselves with IT related environment.

The Department's mission is to educate and train students to become competent professionals to serve the society in many ways.

The department provides excellent environment to its students. There are three state-of-the-art computer labs: two computing laboratories with the latest core i7 machines, and one hardware laboratory. The computers are connected through state-of-the-art network environment. The Department is also privileged to have highly qualified, multi-cultural and devoted faculty with PhD and MS/M.

Phil. degrees from the best national and international universities. The Department offers following academic programs:

- » **Bachelor of Science (BS) in Computer Science**
- » **Bachelor of Science (BS) Information & Technology**
- » **Bachelor of Science (BS) in Cyber Security**
- » **Master of Science (MS) in Computer Science**
- » **Doctor of Philosophy (PhD.) in Computer Science**

Bachelor of Science (BS) in Computer Science: The Department offers a four-year BS (Computer Science) degree program in morning and evening shifts, which includes modern and industry oriented courses recognized by HEC. The program is being offered with four specialized fields where students can opt for the elective courses in desired specialization:

- » Information Security
- » Computers Network
- » Artificial Intelligence
- » Software Engineering

Bachelor of Science (BS) in Computer Science

CURRICULUM STRUCTURE	
Duration	4-Years
Semesters	8
Courses (28x3 = 84 credit hours) 9x4 = 36 2x2 = 4 Final Year Project (2x3 = 6 credit hours)	41
Total Credit Hours	130

CURRICULUM PLAN				
S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSC101	Introduction to ICT		3-0
2	CSC103	Programming Fundamentals		3-1
3	ENG101	English Composition & Comprehension		3-0
4	MAT101	Calculus & Analytical Geometry		3-0
5	CEN101	Applied Physics		3-0

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CEN201	Digital Logic Design	CEN101	3-1
2	CSC104	Object Oriented Programming	CSC103	3-1
3	ENG102	Communication & Presentation Skills	ENG101	3-0
4	MAT106	Probability & Statistics		3-0
5	CSCxxx	University Elective – 1		3-0

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CEN201	Comp Organization & Assembly Lang.		3-1
2	CSC102	Data Structures & Algorithms	CSC104	3-1
3	MAT104	Discrete Structures		3-0
4	HSS301	Professional Practices		3-0
5	CSCxxx	CS Supporting – 1		3-0

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSC302	Design & Analysis of Algorithms	CSC102	
2	CSC301	Theory of Automata		3-0
3	CSC201	Database Systems	CSC102	3-1
4	MAT201	Linear Algebra		3-0
5	CSCxxx	University Elective – 2		3-0

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSC304	Compiler Construction	CSC301	3-0
2	CSCxxx	CS Supporting – 2		3-0
3	CCS202	Operating Systems	CSC102	3-1
4	SEN102	Software Engineering		3-0
5	CSCxxx	CS Supporting – 3		3-0

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSC401	Artificial Intelligence	MAT104	3-1
2	CEN303	Computer Networks		3-1

3	CSCxxx	CS Elective – 1		3-0
4	CSCxxx	CS Elective – 2		3-0
5	ENG201	Technical & Business Writing		3-0

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSCxxx	CS Elective – 3		3-0
2	CSCxxx	CS Elective – 4		3-0
3	CSC499	Final Year Project – I		0-3
4	CSCxxx	University Elective – 3		3-0
5	CSCxxx	Parallel & Distributed Computing	CSC202	3-0
6	HSS101	Pakistan Studies		2-0

EIGHTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	
1	CSCxxx	CS Elective – 5		3-0
2	CSCxxx	University Elective – 4		3-0
3	CSC800	Final Year Project – II		0-3
4	CSC302	Information Security		3-0
5	HSS101	Islamic Studies/ Ethics	CSC499	2-0

BS COMPUTER SCIENCE ELECTIVE COURSES

INFORMATION SECURITY

S. NO.	COURSE CODE	COURSE TITLE
1	ITC401	Ethical Hacking
2	ITC402	Applied Cryptography
3	ITC403	Information Security Strategies and Policies
4	ITC404	Digital Forensics
6	ITC406	Cyber Crime
7	ITC407	Security of Wireless Networks
8	ITC412	Social Computing
9	ITC408	Disaster Management & Recovery
10	ITC409	Mobile Security and Forensics
11	ITC410	Penetration Testing
12	ITC411	Data & Network Security

COMPUTERS NETWORK

S. NO.	COURSE CODE	COURSE TITLE
1	CEN401	Network Planning & Administration
2	CEN402	Internetworking
3	CEN403	Digital Signal Processing
4	CEN404	Internet Routing and Switching
5	CEN405	Signal and System
6	CEN406	Mobile Communication
7	CEN407	Wireless Systems
8	CEN408	WAN Technologies
9	CEN409	Telecom Transmission & Switching Systems
10	CEN410	Network Programming
11	CEN411	Wireless Networks
12	CEN412	Wireless & Mobiles Communications

ARTIFICIAL INTELLIGENCE

S. NO.	COURSE CODE	COURSE TITLE
1	CSC402	Knowledge Representation and Reasoning
2	CSC403	Multi-agent Systems
3	CSC404	Computational Ontologies
4	CSC405	Computer Vision & Virtual Reality
5	CSC406	Natural Language Processing
6	CSC407	Image Processing / Digital Image Processing
7	CSC408	Machine Learning
8	CSC409	Bioinformatics
9	CSC410	Artificial Intelligence Programming
10	CSC411	Expert System

SOFTWARE ENGINEERING

S. NO.	COURSE CODE	COURSE TITLE
1	SEN404	Design Patterns
2	SEN402	Software Testing & Quality Assurance
3	SEN403	Software Engineering Economics
4	SEN401	Software Project Management
5	SEN405	Formal Methods
6	SEN406	Software Architecture
7	SEN302	Software Quality Engineering

BS (Information Technology) HEC Curriculum (Revised 2017)

Proposed Curriculum for BS-IT

Table 1.2: Areas Covered in BS programs

Course Group	Credit hours	% age
General Education	19	15%
University Electives	12	9%
Mathematics & Science Foundation	12	9%
Computing – Core	39	30%
Common Courses	82	82

Domain IT		
Course Group	Credit hours	% age
Domain IT Core	24	18%
Domain IT Electives	15	12%
Domain IT Supporting	9	7%
Domain courses	48	37%
Total	130	100%

COURSES COMMON to all computing bachelor programs – 82 Credits Computing Core Courses

Course Title	Credit hours
Programming Fundamentals	3-1
Object Oriented Programming	3-1
Data Structures & Algorithms	3-1
Discrete Structures	3-0
Operating Systems	3-1
Database Systems	3-1
Software Engineering	3-0
Computer Networks	3-1
Information Security	3-0
Final Year Project	0-6
Total	39 (27 - 12)

General Education Courses	
Course Title	Credit hours
English Composition & Comprehension	3-0
Technical & Business Writing	3-0
Communication & Presentation Skills	3-0
Professional Practices	3-0
Intro to Info. & Comm. Technologies	2-1
Pakistan Studies	2-0
Islamic Studies/ Ethics	2-0
Total	19-0

University Elective Courses

(Not limited to the list below, Institutions may add more courses)	
Course Title	Credit hours
Foreign Language	2-0
Social Service	1-0
Management Related	3-0
Social Science Related	3-0
Economy Related	3-0
Total	12-0

Mathematics and Science Foundation Courses	
Course Title	Credit hours
Calculus & Analytical Geometry	3-0
Probability & Statistics	3-0
Linear Algebra	3-0
Applied Physics	3-0
Total	12-0

Domain Courses for BS-IT

BS-IT CORE (Compulsory) courses	
Course Title	Credit hours
Cyber Security	3-0
Database Administration and Management	3-1
Information Technology Project Management	3-0

Information Technology Infrastructure	3-0
System and Network Administration	3-1
Virtual Systems and Services	3-1
Web Technologies	3-0
Total	24 (21-3)

BS-IT SUPPORTING courses (ANY 3 from the following list) (Coverage of relevant pre-requisite must be ensured while offering any of the following courses from this category)

Mathematics and Science Foundation Courses	
Course Title	Credit hours
Enterprise Systems	3-0
Modeling and Simulation	3-0
Formal Methods	3-0
Operations Research	3-0
Software Requirements Engineering	3-0
Total (Any three of the above)	9-0

BS-IT ELECTIVE courses	
Course Title	Credit hours
IT Elective – 1	3
IT Elective – 2	3
IT Elective – 3	3
IT Elective – 4	3
IT Elective – 5	3
Total	15

Proposed Study Plan for BS (Information Technology)

4-Year Program (8 Regular Semesters of 18 weeks each)

Course Codes have been assigned as an example only. The purpose is to indicate pre-requisite courses for studying advanced courses.

Semester - I				
S. No.	Code	Course Title	Credit	Pre-requisite
1	CS 1x1	Introduction to ICT	2-1	
2	CS 1x2	Programming Fundamentals	3-1	
3	HU 1x1	English Composition & Comprehension	3-0	

4	MT 1x1	Calculus & Analytical Geometry	3-0	
5	NS 1x1	Applied Physics	3-0	
Total			14-2	

Semester - II				
S. No.	Code	Course Title	Credit	Pre-requisite
1	CS 1x4	Object Oriented Programming	3-1	Programming Fundamentals
2	HU 1x2	Communication & Presentation Skills	3-0	
3	IT xxx	IT Supporting Course – I	3-0	
4	MT 1x2	Probability & Statistics	3-0	
5	UE 1xx	University Elective – 1	3-0	
6	UE 1xx	University Elective – 2	3-0	
Total			18-1	

Semester - III				
S. No.	Code	Course Title	Credit	Pre-requisite
1	CS 2x2	Data Structures & Algorithms	3-1	Object-Oriented Programming
2	CS 2x3	Discrete Structures	3-0	
3	HU 2x1	Professional Practices	3-0	
4	IT xxx	IT Supporting Course – II	3-0	
5	MT 2x2	Linear Algebra	3-0	
Total			15-1	

Semester - IV				
S. No.	Code	Course Title	Credit	Pre-requisite
1	CS 2x5	Operating Systems	3-1	Data Structures & Algorithms
2	CS 4x4	Information Security	3-0	
3	CS 3x5	Computer Networks	3-1	
4	IT 1xx	IT Project Management	3-0	
5	UE 2xx	University Elective – 3	3-0	
Total			15-2	

Semester - V				
S. No.	Code	Course Title	Credit	Pre-requisite
1	CS 3x2	Database Systems	3-1	Data Structures & Algorithms
2	CS 3x3	Software Engineering	3-0	
3	IT xxx	IT Supporting Course – III	3-0	
4	IT 2xx	System and Network Administration	3-1	Operating Systems
5	UE 3xx	University Elective – 4	3-0	
Total			15-2	

Semester - VI				
S. No.	Code	Course Title	Credit	Pre-requisite
1	IT 3xx	Web Technologies	3-0	
2	IT xxx	IT Elective – 1	3-0	
3	IT xxx	IT Elective – 2	3-0	
4	IT 4xx	IT Infrastructure	3-0	
5	HU 3x1	Technical & Business Writing	3-0	
Total			15-0	

Semester - VII				
S. No.	Code	Course Title	Credit	Pre-requisite
1	IT 5xx	Virtual Systems and Services	3-1	
2	IT 4x1	Final Year Project – I	0-3	
3	IT 4xx	IT Elective – 3	3-0	
4	IT 4xx	IT Elective – 4	3-0	
5	HU 1x3	Pakistan Studies	2-0	
Total			11-4	

Semester - VIII				
S. No.	Code	Course Title	Credit	Pre-requisite
1	IT 4x2	Final Year Project – II	0-3	
2	IT 6xx	Cyber Security	3-0	

3	IT 4xx	IT Elective – 5	3-0	
4	IT 7xx	Database Administration and Management	3-1	
5	HU 1x4	Islamic Studies/ Ethics	2-0	
Total			11-4	

BS (Cyber Security)

HEC Curriculum (AI,DS,CY) March, 2020

BS (Cyber Security)

Program Structure

The BS (CySec) program intended to produce skilled professionals to understand the processes that impact information security, safeguarding information assets, collection and preservation of digital evidences, analysis of data, and identification and fixing of security vulnerabilities. The program will equip students with the fundamental knowledge of computer science that forms the technical foundation of the field, with an essential focus on experiential learning through laboratory exercises in the security courses. This degree is a state-of-the-art course with a perfect blend of Cyber Security that is designed to set the graduates up for immediate industry success by combining and leveraging today's cutting-edge technology with real-world scenarios.

Proposed Curriculum for BS (Cyber Security)

Following are the proposed areas which are required to cover to complete the degree. Covered areas consist of core courses (compulsory), foundation courses, general courses and electives.

Areas Covered in BS (CySec)		
Course Group	Credit Hour	Min No of Courses
General Education	19	7
University Electives	12	4
Mathematics & Science Foundation	12	4
Computing Core	39	11
Computer Science Core	18	5
CySec Core (Domain Core)	18	6
CySec Electives (Domain Electives)	12	4
TOTAL	130	41

General Education Courses		
Course Title	Credit Hour	Min No of Courses
Introduction to Info. & Comm. Technologies	3 (2-1)	2-3

English Composition & Comprehension	3 (3-0)	3-0
Communication & Presentation Skills	3 (3-0)	3-0
Technical & Business Writing	3 (3-0)	3-0
Islamic Studies/ Ethics	2 (2-0)	2-0
Pakistan Studies	2 (2-0)	2-0
Professional Practices	3 (3-0)	3-0
TOTAL	19 (18-1)	18-3

University Elective Courses

(Not limited to the areas listed below, Institutions may add/replace courses)		
Course Title	Credit Hour	Min No of Courses
Foreign Language	2 (2-0)	2-0
Social Service	1 (1-0)	1-0
Management Related	3 (3-0)	3-0
Social Science Related	3 (3-0)	3-0
Economy Related	3 (3-0)	3-0
TOTAL	12 (12-0)	12-0

Mathematics and Science Foundation Courses		
Course Title	Credit Hour	Min No of Courses
Calculus & Analytic Geometry	3 (3-0)	3-0
Linear Algebra	3 (3-0)	3-0
Probability & Statistics	3 (3-0)	3-0
Differential Equations	3 (3-0)	3-0
TOTAL	12 (12-0)	12-0

Computing Core Courses		
Course Title	Credit Hour	Min No of Courses
Programming Fundamentals	4 (3-1)	3-3
Discrete Structures	3 (3-0)	3-0
Object Oriented Programming	4 (3-1)	3-3
Database Systems	4 (3-1)	3-3
Data Structures & Algorithms	4 (3-1)	3-3
Information Security	3 (3-0)	3-0
Computer Networks	4 (3-1)	3-3
Operating System	4 (3-1)	3-3
Software Engineering	3 (3-0)	3-0
Final Year Project - I	2 (0-2)	0-6

Final Year Project - II	4 (0-4)	0-12
TOTAL	39 (29-12)	27-36

Computer Science Core Courses		
Course Title	Credit Hour	Min No of Courses
Artificial Intelligence	4 (3-1)	3-3
Digital Logic Design	4 (3-1)	3-3
Analysis of Algorithms	3 (3-0)	3-0
Computer Organization & Assembly Language	4 (3-1)	3-3
Parallel & Distributed Computing	3 (2-1)	2-3
TOTAL	18 (14-4)	14- 12

Cyber Security Core Courses		
Course Title	Credit Hour	Min No of Courses
Introduction to Cyber Security	3 (3-0)	3-0
Digital Forensics	3 (2-1)	2-3
Information Assurance	3 (3-0)	3-0
Network Security	3 (2-1)	2-3
Secure Software Design and Development Vulnerability Assessment & Reverse EngineerinG	3 (2-1)	2-3
TOTAL	18 (14-4)	(14 -12)

Cyber Security Elective Courses

(Must be any four courses or 12 credit hours, Universities may add lab hours to elective courses, where labs are not mentioned)		
Course Title	Credit Hour	Min No of Courses
Basic Electronics	3 (2-1)	2-3
Hardware Security	3 (3-0)	3-0
Malware Analysis	3 (3-0)	3-0
Wireless and Mobile Security	3 (3-0)	3-0
Penetration Testing	3 (2-1)	2-3
Computer Architecture	3 (3-0)	3-0
Advance Digital Logic Design	3 (3-0)	3-0
Cyber Law & Cyber Crime (Cyber Warfare)	3 (3-0)	3-0
Control System Security	3 (3-0)	3-0
Cryptanalysis	3 (3-0)	3-0
Embedded Systems	3 (2-1)	2-3
Embedded Systems Security	3 (2-1)	2-3
TOTAL (Any four courses or 12 credit hours)	12 (11-1)	11-3

Proposed Study Plan BS (Cyber Security)

4-Year Program (8 Regular Semester of 18 weeks each) (130 Credit Hours)

Semester - I

Course Title	Cr hr	Cont hr	Pre-requisite
Introduction to ICT	3 (2-1)	2-3	
Programming Fundamentals	4 (3-1)	3-3	
Discrete Structures	3 (3-0)	3-0	
Calculus & Analytic Geometry	3 (3-0)	3-0	
English Composition & Comprehension	3 (3-0)	3-0	

Total 16 (14-2) 14-6

Semester - II

Course Title	Cr hr	Cont hr	Pre-requisite
Object Oriented Programming	4 (3-1)	3-3	Prog Fundamentals
Database Systems	4 (3-1)	3-3	
Linear Algebra	3 (3-0)	3-0	Cal. & Anal. Geometry
Probability & Statistics	3 (3-0)	3-0	
Communication & Presentation Skills	3 (3-0)	3-0	Eng Comp & Compre

Total 17 (15-2) 15-6

Semester - III

Course Title	Cr hr	Cont hr	Pre-requisite
Data Structures & Algorithms	4 (3-1)	3-3	Prog Fundamentals
Information Security	3 (3-0)	3-0	
Artificial Intelligence	4 (3-1)	3-3	Object Oriented Prog.
Digital Logic Design	4 (3-1)	3-3	
Differential Equations	3 (3-0)	3-0	Eng Comp & Compre

Total 18 (15-3) 15-9

Semester - IV

Course Title	Cr hr	Cont hr	Pre-requisite
Computer Networks	4 (3-1)	3-3	
Computer Org. & Assembly Language	4 (3-1)	3-3	Digital Logic Design
Analysis of Algorithms	3 (3-0)	3-0	Data Structures & Algo
Introduction to Cyber Security	3 (3-0)	3-0	Information Security
CySec Elective-1	3 (3-0)	3-0	

Total 17 (14-3) 14-9

Semester - V

Course Title	Cr hr	Cont hr	Pre-requisite
Operating System	4 (3-1)	3-3	Data Structures & Algo
Digital Forensics	3 (2-1)	2-3	Intro. to Cyber Security
Information Assurance	3 (3-0)	3-0	
Network Security	3 (2-1)	2-3	Intro. to Cyber Security
CySec Elective-2	3 (3-0)	3-0	
University Elective-1	3 (3-0)	3-0	

Total 19 (16-3) 16-9

Semester - VI

Course Title	Cr hr	Cont hr	Pre-requisite
Parallel & Distributed Computing	3 (2-1)	2-3	OOP, Operating Sys
Secure Software Design and Dev.	3 (2-1)	2-3	Intro. to Cyber Security
Vulnerability Assessment & Reverse Engg	3 (2-1)	2-3	Intro. to Cyber Security
CySec Elective-3	3 (3-0)	3-0	
CySec Elective-4	3 (3-0)	3-0	
University Elective-2	3 (3-0)	3-0	

Total 18 (15-3) 15-9

Semester - VII

Course Title	Cr hr	Cont hr	Pre-requisite
Final Year Project - I	2 (0-2)	0-6	
Software Engineering	3 (3-0)	3-0	
University Elective-3	3 (3-0)	3-0	
Technical & Business Writing	3 (3-0)	3-0	Comm. & Present Skills
Islamic Studies/ Ethics	2 (2-0)	2-0	

Total 13 (11-2) 11-6

Semester - VIII

Course Title	Cr hr	Cont hr	Pre-requisite
Final Year Project - II	4 (0-4)	0-12	Final Year Project - I
University Elective-4	3 (3-0)	3-0	
Professional Practices	3 (3-0)	3-0	
Pakistan Studies	2 (2-0)	2-0	

Total 12 (8-4) 8-12

8	SEN201	Software Requirements Engineering
9	SEN409	Software Development Methodologies
10	SEN410	Software Security Testing And Code Assessment
11	SEN411	Service Oriented Architecture
12	SEN412	Software Verification Techniques
13	SEN413	Data Ware House
14	SEN 414	Visual Programming
15	SEN 415	Fundamentals of data Mining
16	SEN 416	Game Developments

Master of Science (MS) in Computer Science

The MS program has been specifically designed to prepare students for Computer Science in view of the ever increasing demand of highly specialized professionals in the IT/Computer Science industry. The program helps to develop IT skills and provides research exposure to students.

CURRICULUM STRUCTURE

Duration	2-Years
Semesters	4
Courses	08 (24 Cr Hours)
Research	(01 Cr Hours)
Thesis	(6 Cr Hours)
Total Credit Hours	31

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	CSCxxx	Core Course – I	3
2	CSCxxx	Core Course – II	3
3	CSCxxx	Core Course – III	3

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	CSCxxx	Core Course – IV	3
2	CSCxxx	Elective – I	3
3	CSCxxx	Elective – II	3
4	AMT505	Research Methodology	1

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	CSCxxx	Elective-III	3
2	CSCxxx	MS Thesis-I	3

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	CSCxxx	Elective-IV	3
2	CSCxxx	MS Thesis-II	3

Core Courses:

At least four core courses must be taken from the following list:

CS501 Advanced Analysis of Algorithms
 CS505 Advanced Operating Systems
 CS507 Theory of Programming Languages
 CS534 Theory of Automata – II
 EE502 Advanced Computer Architecture

MS COMPUTER SCIENCE ELECTIVES

S. NO.	COURSE CODE	COURSE TITLE
1	CSC601	Formal Method
2	CSC602	Software Design
3	CSC603	Software Process Improvement
6	CSC606	Cloud Computing
7	CSC607	Programming Paradigms
9	CSC610	Knowledge Based Systems
11	CSC612	Natural Language Processing
12	CSC613	Interactive System Development
13	CSC614	Graphical User Interfaces
14	CSC615	Multimedia System Development
15	CSC624	Advanced Project Management
16	CSC630	Advanced Machine Learning
17	CSC 620	Advanced Software Development
18	CSC 621	Topics in Software Engineering
19	CSC 622	Advanced Software Quality Assurance
20	CSC 623	Advanced Requirements Engineering

21	CSC 625	Software Engineering and Formal Specifications
22	CSC 626	Empirical Software Engineering
23	CSC 627	Software Process Improvement
24	CSC 628	Component-Based Computing
25	CSC 629	Safety-Critical System
26	CSC 631	Advanced Neural Networks
27	CSC 632	Decision Support Systems
28	CSC 633	Advanced Computer Vision
29	CSC 634	Advanced Natural Language
30	CSC 635	Robotics
31	CSC 636	Genetics Algorithms
32	CSC 637	Semantic Web
33	CSC 640	Advanced DBMS
34	CSC 641	Advanced Distributed and Object
35	CSC 642	Advanced Data Mining
36	CSC 643	Spatial and Temporal Databases
37	CSC 644	Advanced Data Warehousing
38	CSC 645	Advanced Text Mining
39	CSC 646	Embedded System
40	CSC 647	Parallel and Distributed Systems
41	CSC 648	System on a chip
42	CSC 649	Device Development
43	CSC 650	Advanced Control Systems and Robotics
44	CSC 651	Digital Signal Processing
45	CSC 652	Advanced Switching and Fault Diagnosis
46	CSC 653	FPGAs and Verilog
47	CSC 654	Control System and Robotics
48	CSC 655	Advanced Real Time Systems
49	CSC 656	Advanced Computer Graphics
50	CSC 657	Visual Reality
51	CSC 658	Visualization
52	CSC 659	Genetic Algorithms
53	CSC 660	Combinatorics
54	CSC 661	Advanced Compiler Construction
55	CSC 662	Advanced Programming Language Design
56	CSC 663	Advanced Functional Programming

57	CSC 664	Advanced Logic Programming
58	CSC 665	Advanced Algorithms and Complexity (AL)
59	CSC 503	Advanced Algorithmic Analysis
60	CSC 530	Cluster Computing
61	CSC 531	Advanced Data Comprehensive
62	CSC 532	Networks Management
63	CSC 533	Enterprises Networking
64	CSC 520	Intelligent User Interfaces
65	CSC 521	Information Retrieval Techniques
66	CSC 522	Rich Internet Applications
67	CSC 523	Interactive Systems Development

PhD Program

PhD Program in Computer Science

The PhD program in Computer Science is a full time academic program with total 54 credit hours. The main objective of this research program is to enrich the students' skill to be effective individual and developed their careers in difference fields like academia, industry etc.

The department of Computer Science has number of qualified PhD faculty members from nationally and internationally reputed universities and most of them have honored to be a Higher Education Commission (HEC) Pakistan's approved PhD supervisors.

- All other degree holders must provide an equivalency certificate from HEC (www.hec.gov.pk).
- This is a full time program in which candidates' presence is required. The candidates are therefore instructed to secure a NOC from their respective organizations, in case of employment.
- SMIU is a public sector University and follows all others rules and regulation applied by HEC.

CURRICULUM STRUCTURE	
Duration	3-Years
Semesters	06
Courses work	06 (18 Credit Hours)
Dissertation	Rest of the time will spend on research work (36 Credit Hours)

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	CSC 701	Empirical Research Methods in Computer Science
2	CSC 703	Essentials of Theoretical Computer Science
3	CSC 705	Computational Intelligence & Probabilistic Reasoning

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	CSC 702	Elective I
2	CSC 704	Elective II
3	CSC 706	Elective III

THIRD AND FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	CSC 800	Dissertation - I

FIVE AND SIX SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	CSC801	Dissertation - II

ELECTIVE COURSES

S. NO.	COURSE CODE	COURSE TITLE
1	CSC 702	Advanced Modeling and Simulation
2	CSC 704	Social Computing Applications
3	CSC 706	Applied Genetic Algorithms
4	CSC 708	Data Analysis and Visualization
5	CSC 710	Advanced Data Warehousing
6	CSC 712	Advanced Information Security
7	CSC 714	Combinatorial Optimization
8	CSC 716	Knowledge Discoveries and Data Mining
9	CSC 718	Advanced Human Computer Interaction

Department of Software Engineering



Department of Software Engineering

Dr. Abdul Hafeez Khan

Chairperson/Advisor on Academics



Sindh Madressatul Islam University believes in developing students from all aspects so that they are best equipped to meet global challenges. Function of a university is not limited to academic development of students, it goes far and beyond to carve the best citizens out of students. The campus remains vibrant as students are always busy in bringing to surface their respective talents. Our aim is to enhance their talent and inculcate in them the qualities of leadership and team work. Various methods are manipulated to prepare students for their professional life. We pledge to give them best possible quality education.

The Software Engineering Department drives to produce a robust, contemporary and coherent software engineering program(s) to adequately address the industrial needs and professional development of skilled manpower.

The Department offers a four years BS (SE) degree program in morning and evening shifts, which comprises over state-of-the-art courses and hands-on practices which are fully aligned with HEC curricula. So far, the department offers three specialized fields based on elective courses and available resources.

- Modeling and Simulation Systems
- Game and Entertainment Systems
- Software Engineering & Intelligent Systems

Considering the breadth and depth of learning outcome of the Software Engineering discipline, the program's contents are dynamically designed to train the pupils in various dimensions including software design, software

implementation, software maintenance, software evaluation, and programming languages.

The use of technology has been an integral part for human life; from performing simple routine tasks to solving complex problems, almost everything is being handled by software. The trend eventually establishes a high demand of software developers at national and international level for applying the emerging technological knowledge so as to design, test and evaluate software products. Pakistan among of those countries where demand of software engineers increased day to day, due to advancement of Information Technology and related disciplines. Different surveys and reports reflected the need and scope of job placements of software engineers in the future. The department offers following Academic Programs:

- **Bachelor of Science (BS) in Software Engineering**
- **Bachelor of Science (BS) in Data Science**
- **Masters of Science (MS) in Software Engineering**
- **Masters of Science (MS) in Data Science**

Bachelor of Science (BS) in Software Engineering

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	8
Courses (2-0x2 = 4 credit hours) 2-1x2 = 6 3-0x30=90 3-1x6=24 Final Year Project (2x3 = 6 credit hours)	42
Total Credit Hours	130

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	SEN101	Introduction to Info. & Comm. Technologies		2-1
2	CSC103	Programming Fundamentals		3-1
3	ENG101	English Composition & Comprehension		3-0
4	MAT101	Calculus & Analytical Geometry		3-0
5	HSS101	Pakistan Studies		2-0
6	CEN101	Applied Physics		3-0

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSC104	Object Oriented Programming	CSC103	3-1
2	ENG102	Communication & Presentation Skills	ENG101	3-0
3	MAT104	Discrete Structures		3-0
4	SEN102	Software Engineering		3-0
5	HSS102	Islamic Studies		2-0
6	SEN104	University Elective – I		3-0

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSC102	Data Structures & Algorithms	CS104	3-1
2	SEN201	Software Requirements Engineering	SEN102	3-0
3	SEN203	Human Computer Interaction	SEN102	3-0
4	MAT106	Probability and Statistics		3-0
5	SEN2055	University Elective – II		3-0

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	CSC202	Operating Systems	CSC102	3-1
2	CSC201	Database Systems	CSC102	3-0
3	CSC206	Software Design & Architecture	SEN201	3-1
4	MAT201	Linear Algebra		3-0
5	SEN202	University Elective – III		3-0

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	SEN301	Software Construction and Development	CSC206	2-1
2	CEN303	Computer Networks		3-1
3	ENG303	Technical and Business Writing	ENG102	3-0
4	SEN303	SE Supporting –I		3-0
5	SEN305	SE Supporting – II		3-0

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	SEN302	Software Quality Engineering	SEN102	3-0
2	CSC302	Information Security		3-0
3	HSS301	Professional Practice		3-0
4	SEN304	Web Engineering		3-0
5	SEN306	SE Elective – I		3-0
6	SEN308	SE Supporting - III		3-0

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	SEN401	Software Project Management	SEN102	3-0
2	SEN403	Software Re-Engineering	SEN301	3-0
3	SEN405	SE Elective -II		3-0
4	SEN407	SE Elective - III		3-0
5	SEN409	Final Year Project - I		0-3

EIGHTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	SEN402	SE Elective – IV		3-0
2	SEN404	SE Elective – V		3-0
3	SEN406	Final Year Project - II		0-3
4	SEN408	University Elective - IV		3-0

LIST OF ELECTIVE COURSES

S. NO.	COURSE CODE	COURSE TITLE
1	SENxxx	Design Patterns
2	SENxxx	Software Testing & Quality Assurance
3	SENxxx	Software Engineering Economics

4	SENxxx	Software Project Management
5	SENxxx	Formal Methods
6	SENxxx	Software Architecture
7	SENxxx	Software Quality Engineering
8	SENxxx	Software Requirements Engineering
9	SENxxx	Software Development Methodologies
10	SENxxx	Software Security Testing And Code Assessment
11	SENxxx	Service Oriented Architecture
12	SENxxx	Software Verification Techniques
13	SENxxx	Data Ware House
14	SENxxx	Visual Programming
15	SENxxx	Fundamentals of data Mining
16	SENxxx	Game Developments

Master of Science (MS) in Software Engineering

MS in Software Engineering is indeed the prestigious degree, which certainly enables candidates for taking up of professional, academics and research oriented responsibilities in academia and industry. The MS program (SE) in SMIU provides state-of-the-art facilities, lab equipment and research literature in the premises. The skilled workforce would play crucial role of catalytic agent for technological improvisation in software industry. The program objectives are as follow:

- The program is intended to offer the intense opportunity of learning and contributing in the various theoretical and applied areas of Software Engineering.
- The program is designed to produce independent innovative research results of SE discipline.

- The program is to introduce novel software engineering procedures that significantly lift up the knowledge and practices in industrial and academia research.

The outcome of program is as under:

- The candidate will be capable of imparting cutting-edge knowledge and research skills in the relevant field.
- The candidate will be able to get published his/her research work in prominent international journals and conferences proceedings.
- The MS Scholar will be equipped to develop effective presentation & communication skills.
- The candidate will be quite capable of inculcating the problem solving capability which may be generalized over his/her research, professional and for everyday life issues.

CURRICULUM STRUCTURE

Duration	2-Years
Semesters	4
Courses	08 (24 Cr Hours)
Thesis	(6 Cr Hours)
Total Credit Hours	30

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	SENxxx	Requirements Engineering	3

2	SENxxx	Software Quality Assurance	3
3	SENxxx	Research Methods (University Elective I)	3

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	SENxxx	Elective II	3
2	SENxxx	Elective III	3
3	SENxxx	Elective IV	3

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	SENxxx	Elective V	3
2	SENxxx	Thesis (Partial Enrolment)	3

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	SENxxx	Thesis (Full Enrolment)	3
2	SENxxx	Elective VI	3

LIST OF ELECTIVE COURSES

S. NO.	COURSE CODE	COURSE TITLE
1	SENxxx	Software Risk Management
2	SENxxx	Software Measurement and Metrics
3	SENxxx	Software Configuration Management
4	SENxxx	Reliability Engineering
5	SENxxx	Component Based Software Engineering
6	SENxxx	Design Patterns
7	SENxxx	Complex Networks
8	SENxxx	Agent Based Modelling
9	SENxxx	Formal Methods
10	SENxxx	Software Engineering Ontologies
11	SENxxx	Semantic based Software Engineering
12	SENxxx	Model Driven Software Development
13	SENxxx	Software Process Engineering
14	SENxxx	Advanced Web Services
15	SENxxx	Advanced Human Computer Interaction
16	SENxxx	Simulation and Modeling

BS (Data Science)

HEC Curriculum (AI, DS, CY) March, 2020

Program Structure

BS (Data Science) has a dual emphasis on basic principles of statistics and computer science, with foundational training in statistical and mathematical aspects of data analysis. This program develops foundation on broad computer science principles, including algorithms, data structures, data management and machine learning. This program will prepare graduates for a career in data analysis, combining foundational statistical concepts with computational principles from computer science.

CURRICULUM PLAN

Duration	4 years
Semesters	8
Courses	41
Total Credit hours	130

SEMESTER I

S. NO.	Course Title	Credit Hours	Contact Hours	Pre-requisite
1	Introduction to ICT	3 (2-1)	2-3	
2	Programming Fundamentals	4 (3-1)	3-3	
3	Discrete Structures	3 (3-0)	3-0	
4	Calculus & Analytic Geometry	3 (3-0)	3-0	
5	English Composition & Comprehension	3 (3-0)	3-0	
Total		16 (14-2)	14-6	

SEMESTER II

S. NO.	Course Title	Credit Hours	Contact Hours	Pre-requisite
1	Object Oriented Programming	4 (3-1)	3-3	Programming Fundamentals
2	Database Systems	4 (3-1)	3-3	
3	Linear Algebra	3 (3-0)	3-0	Calculus & Analytic Geometry
4	Probability & Statistics	3 (3-0)	3-0	
5	Communication & Presentation Skills	3 (3-0)	3-0	English Composition & Comprehension
Total		17 (15-2)	15-6	

SEMESTER III

S. NO.	Course Title	Credit Hours	Contact Hours	Pre-requisite
1	Data Structures & Algorithms	4 (3-1)	3-3	Programming Fundamentals
2	Information Security	3 (3-0)	3-0	
3	Artificial Intelligence	4 (3-1)	3-3	Object Oriented Programming
4	Digital Logic Design	4 (3-1)	3-3	
5	Differential Equations	3 (3-0)	3-0	Calculus & Analytic Geometry
Total		18 (15-3)	15-9	

SEMESTER IV

S. NO.	Course Title	Credit Hours	Contact Hours	Pre-requisite
1	Computer Networks	4 (3-1)	3-3	
2	Computer Org. & Assembly Language	4 (3-1)	3-3	Digital Logic Design
3	Analysis of Algorithms	3 (3-0)	3-0	Data Structures & Algo
4	Introduction to Data Science	3 (2-1)	2-3	Artificial Intelligence
5	Advance Statistics	3 (3-0)	3-0	Probability & Statistics
Total		17 (14-3)	14-9	

SEMESTER V

S. NO.	Course Title	Credit Hours	Contact Hours	Pre-requisite
1	Operating System	4 (3-1)	3-3	Data Structures & Algo
2	Data Mining	3 (2-1)	2-3	Adv Stat, Intro. to DS
3	Data Warehousing & Business Intel.	3 (2-1)	2-3	Intro. to Data Science
4	DS Electiv-1	3 (3-0)	3-0	
5	DS Elective-2	3 (2-1)	2-3	
6	University Elective-1	3 (3-0)	3-0	
Total		19 (15-4)	15-12	

SEMESTER VI

S. NO.	Course Title	Credit Hours	Contact Hours	Pre-requisite
1	Parallel & Distributed Computing	3 (2-1)	2-3	OOP, Operating System

2	Big Data Analytics	3 (2-1)	2-3	Intro. to Data Science
3	Data Visualization	3 (2-1)	2-3	Data Warehouse & BI
4	DS Elective-3	3 (3-0)	3-0	
5	DS Elective-4	3 (3-0)	3-0	
6	University Elective-2	3 (3-0)	3-0	
Total		18 (15-3)	15-9	

SEMESTER VII

S. NO.	Course Title	Credit Hours	Contact Hours	Pre-requisite
1	Final Year Project - I	2 (0-2)	0-6	
2	Software Engineering	3 (3-0)	3-0	
3	University Elective-3	3 (3-0)	3-0	
4	Technical & Business Writing	3 (3-0)	3-0	Comm. & Present Skills
5	Islamic Studies/ Ethics	2 (2-0)	2-0	
Total		13 (11-2)	11-6	

SEMESTER VIII

S. NO.	Course Title	Credit Hours	Contact Hours	Pre-requisite
1	Final Year Project - II	4 (0-4)	0-12	Final Year Project - I
2	University Elective-4	3 (3-0)	3-0	
3	Professional Practices	3 (3-0)	3-0	
4	Pakistan Studies	2 (2-0)	2-0	
Total		12 (8-4)	8-12	

Master of Science in Data Science

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

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

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

CURRICULUM PLAN

Course types	Cumulative Credits
Program Core courses (3)	9
Specialization Requirement Courses (2)	6
Electives (3)	9
Thesis	6

CURRICULUM PLAN

Course types	Cumulative Credits
Program Core courses (3)	9
Specialization Requirement Courses (2)	6
Electives (3)	9
Thesis	6

SEMESTER-WISE COURSE OFFERING PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	DSC501	Tools and Techniques for Data Science	2+1
2	DSC502	Statistical and Mathematical Methods for Data Analysis	3
3	DSCXXX	Elective-I	3

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	DSC503	Machine Learning	3
2	DSCXXX	Specialization-Elective-I	3
3	DSCXXX	Specialization Elective-II	3

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	DSCXXX	Elective II	3
2	DSCXXX	Elective II	3

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1	DSCXXX	Elective III	3
2	DSCXXX	MS-Thesis-II	3

Proposed 3 core courses:

DSC501 Statistical and Mathematical Methods for Data Science

DSC502 Tools and Techniques in Data Science

DSC503 Machine Learning

Proposed 2 Specialization Core Courses (Choose any 2)

DSCXXX Big Data Analytics

DSCXXX Deep Learning

DSCXXX Natural Language Processing

DSCXXX Distributed Data Processing

S. NO.	COURSE CODE	COURSE TITLE
1	DSCXXX	Advanced Computer Vision
2	DSCXXX	Algorithmic trading
3	DSCXXX	Bayesian Data Analysis
4	DSCXXX	Bioinformatics
5	DSCXXX	Cloud computing
6	DSCXXX	Computational Genomics
7	DSCXXX	Data Visualization
8	DSCXXX	Deep Reinforcement Learning
9	DSCXXX	Distributed Machine Learning in Apache Spark
10	DSCXXX	High performance computing
11	DSCXXX	Inference & Representation
12	DSCXXX	Optimization Methods for Data Science and Machine Learning
13	DSCXXX	Probabilistic Graphical Models
14	DSCXXX	Scientific Computing in Finance
15	DSCXXX	Social network analysis
16	DSCXXX	Time series Analysis and Prediction
17	DSCXXX	Introduction to R for Data Sciences
18	DSCXXX	Introduction to Python for Data Sciences
19	DSCXXX	Implementing Predictive Analysis
20	DSCXXX	Data Science in Cyber Security
21	DSCXXX	Advanced Topics in Decision Support Systems
22	DSCXXX	Pattern Recognition
23	DSCXXX	Graph Analytics for Big Data
24	DSCXXX	Mining Massive Datasets
25	DSCXXX	Social Network Analysis
26	DSCXXX	Natural Language Processing
27	DSCXXX	Deep Reinforcement Learning

Department of Artificial Intelligence and Mathematical Sciences



Department of Artificial Intelligence & Mathematical Sciences

Dr. Mansoor Ahmed Khuhro

In-Charge Chairperson



The developed nations of the world are focusing on Artificial Intelligence (A.I) and Mathematical Sciences to present a solid foundation in the principles and technologies that underlie many facets of A.I. and Mathematical Sciences. The study includes logic, knowledge representation, probabilistic models and machine learning concepts. Studying in the A.I. field is an exciting opportunity since it has been chosen in numerous countries as a national priority, and that will revolutionize the world in the coming a few years. This department aims to produce skilled professionals in Artificial Intelligence and Mathematical Sciences to enable them to excel professionally in their careers through excellence in teaching, training, and research. It also provides state-of-the-art laboratory facilities to the students to get better practical exposure.

Various undergraduate, graduate, and post-graduate programs are offered under the department, such as Artificial Intelligence, BS Mathematics, MS Mathematics, PhD Artificial Intelligence and PhD Mathematics.

We are confident that the Department of Artificial Intelligence & Mathematical Sciences is preparing the generations that will face the challenges of the present digital era.

Department of Artificial Intelligence and Mathematical Sciences

The Department's mission is to educate and train students to become competent professionals to serve the society in many ways.

To prepare our new generation and equipped them with the modern state-of-the-art curriculum, SMI university launched the Department of Artificial Intelligence and Mathematical Sciences to fulfilled the demand of the technologically advanced society not only to its local industrial market but also to the foreign countries to generate and increase its foreign exchange in the form of human resource.

Common BS in Artificial Intelligence and Mathematical Sciences careers include; intelligence analysis, operational research, statistical research, logistics, financial analysis, market research (for business), management consultancy, IT (systems analysis, development or research), software engineering, computer programming, the public sector (advisory capacity as a scientist or statistician), scientific research and development and all those field which needs highly analytical thinking mind.

SMIU is located in the area where several IT organizations, software houses, institutions, and government organizations' networks are located. This enables students to seek internships, etc., as well as familiarize themselves with IT related environment. The department provides an excellent environment for its students. There are three state-of-the-art computer labs: two computing laboratories with

the latest core i7 machines, and one hardware laboratory. The computers are connected through a state-of-the-art network environment.

The Department is also privileged to have highly qualified, multi-cultural and devoted faculty with Ph.D. and MS/M. Phil. degrees from the best national and international universities. The Department of Artificial Intelligence and Mathematical Sciences offering following academic programs:

- **Bachelor of Science (BS) in Mathematical Sciences**
- **Bachelor of Science (BS) in Artificial Intelligence**
- **Master of Science (MS) in Mathematical Sciences**
- **PhD in Mathematical Sciences**
- **PhD in Artificial Intelligence**

Bachelor of Science (BS) in Mathematical Sciences:

The bachelor's degree in Mathematical Sciences emphasizes a deeper study of mathematics. A student planning to continue into graduate study in mathematics is good preparation for a variety of careers, many of which require the ability to reason carefully and express oneself clearly. Explore careers as an actuary, applied mathematician, pure mathematician, secondary school, higher secondary school mathematics teacher, lecturers and subject expert in college-level, statistician, researchers, and other options are also available in their career path.

Bachelor of Science (BS) in Mathematical Sciences:

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	8
Courses (34x3 = 102 credit hours) 2x2 = 4 4x4 = 16 Final Year Project (1x3 = 3 credit hours)	41
Total Credit Hours	125

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT101	Calculus & Analytical Geometry		3-1
2	MAT103	Elements of Set Theory & Mathematical Logic		3-0
3	ENG101	English I (Functional English)		3-0
4	HSS101	Pakistan Studies		2-0
5	MAT105	G-1		3-0
6	CSC101	Introduction to Computers		3-0

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT102	Calculus II	MAT101	3-0
2	MAT104	Discrete Structure/Mathematics		2-1
3	MAT106	Probability & Statistics		3-0
4	ENG102	English II (Communication Skills)		3-0
5	HSS102	Islamic Studies/Ethics		2-0
6	MAT108	G-2		3-0

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT201	Linear Algebra		3-0
2	MAT203	Calculus III	MAT102	3-0
3	MAT205	G-3		3-0

4	ENG103	English III (Technical Writing and Presentation Skills)		3-0
5	CSC103	Programming Fundamentals		3-1

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT202	Affine and Euclidean Geometry		3-0
2	MAT204	Algebra-I (Group Theory)		3-1
3	MAT206	G-4		3-0
4	MAT208	Scientific Computing		3-0
5	HSS103	Foreign Language		3-0

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT301	Ordinary Differential Equations		3-0
2	MAT303	Mathematical Methods		3-0
3	MAT305	Real Analysis- I		3-0
4	MAT307	Topology		3-0
5	MAT309	Algebra- II (Rings and Fields)	MAT204	3-0

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT302	Classical Mechanics		3-0
2	MAT304	Partial Differential Equations	MAT301	3-0
3	MAT306	Complex Analysis		3-0
4	MAT308	Number Theory		3-0
5	MAT310	Real Analysis-II	MAT305	3-0

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT401	Numerical Analysis		3-1
2	MAT403	Functional Analysis		3-0
3	MAT405	E-1		3-0
4	MAT407	E-2		3-0
5	MAT409	Differential Geometry		3-0

EIGHTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT402	Probability Theory	MAT106	3-0
2	MAT404	Integral Equations		3-0
3	MAT 406	E-3		3-0
4	MAT 408	E-4		3-0
5	MAT 410	Final Year Project		3-0

LIST OF UNIVERSITY ELECTIVE COURSES

S. NO.	COURSE CODE	COURSE TITLE
1	G-1	Mathematical Ecology
2	G-2	Econometrics
3	G-3	Actuarial Mathematics
4	G-4	Philosophy

LIST OF ELECTIVE COURSES

S. NO.	COURSE CODE	COURSE TITLE
1	MAT412	Measure Theory
2	MAT413	Rings and Modules
3	MAT414	Advanced Group Theory
4	MAT415	Algebraic Topology
5	MAT416	Projective Geometry
6	MAT417	Graph Theory
7	MAT418	Optimization Theory
8	MAT419	Mathematical Physics
9	MAT220	Mathematical Modeling
10	MAT421	Dynamical Systems
11	MAT422	Simulation
12	MAT423	Computational Fluid Dynamics
13	MAT424	Statistical Inferences
14	MAT425	Analytical Dynamics
15	MAT426	Fluid Mechanics
16	MAT427	Rings and Modules
17	MAT428	Axiomatic Set Theory

Bachelor of Science (BS) in Artificial Intelligence:

The present era is the era of Science and Technology. Due to the fourth industrial revolution which is based on Artificial Intelligence, highly skilled experts are in demand in the coming days.

BS in AI program is designed to fulfil the demand of the 21st century, it is also highly demanding in educational as well as the industrial field. This program will also provide the experts for Economical modelling, Biological Sciences, Health research, Financial research, Higher School education, Colleges, and Universities for faculty development and Banking sector to risk management.

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	8
Courses (40x3 = 120 credit hours) 2x4 = 8 Final Year Project (2x3 = 6 credit hours)	44
Total Credit Hours	134

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	AIM101	Introduction to Artificial Intelligence-I		3-0
2	CSC103	Programming Fundamentals		3-1
3	ENG101	English Composition & Comprehension		3-0
4	MAT101	Predicate Calculus		3-0
5	MAT303	Mathematical Methods		3-0
6	HSS101	Pakistan Studies and Islamic / Religious studies		3-0

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	AIM102	Introduction to Artificial Intelligence II	AIM101	3-0
2	AIM104	Programming Language	AIM103	3-1
3	ENG102	Communication & Presentation Skills		3-0
4	MAT106	Probability & Statistics		3-0
5	AIM110	Multivariable Calculus	AIM107	3-0
6	AIM112	Design & Analysis of Algorithms		3-0

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	AIM201	Principal Component Analysis		3-0
2	MAT104	Discrete Mathematics		3-0
3	AIM203	Scientific Computing-I		3-0
4	AIM205	Rule Based Design		3-0
5	AIM207	Knowledge Representation & Problem solving		3-0

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT102	Differential Equation		3-0
2	AIM202	Scientific Computing-II		3-0
3	MAT201	Linear Algebra & Application		3-0
4	AIM204	Fuzzy Logic & Design		3-0
5	AIM206	Artificial Neural Network		3-0

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT401	Numerical Computing		3-0
2	AIM303	Stochastic Process-I		3-0
3	AIM305	Semantic Web Technology		3-0
4	AIM307	Virtual Reality		3-0
5	AIM309	Elective-1		3-0

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	AIM302	Operation Research		3-0
2	AIM304	Stochastic Process-II	AIM303	3-0
3	AIM306	Machine Learning		3-0
4	AIM308	Swarm Intelligence		3-0
5	AIM310	Elective-2		3-0

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	AIM401	Mathematical Visualization	AIM204	3-0

2	AIM403	Game Theory & Application		3-0
3	AIM405	Molecular Communication		3-0
4	AIM407	Computer Vision		3-0
5	AIM409	Final Year Project-I		0-3
6	AIM411	Elective-3		3-0

EIGHT SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	AIM402	Bioinformatics & Evolutionary Techniques Mathematical Visualization		3-0
2	AIM404	Data Science Game Theory & Application		3-0
3	AIM406	Computational Intelligence		3-0
4	AIM408	Decision Making & Robotic		3-0
5	AIM410	Final Year Project-II		0-3
6	AIM412	Elective-4		3-0

BS ARTIFICIAL INTELLIGENCE AND MATHEMATICAL SCIENCES

S. NO.	COURSE CODE	COURSE TITLE
1	AIM414	Natural Language Processing (NLP)
2	AIM415	Multiagent Techniques (MT)
3	AIM416	Nature Inspired Algorithms (NIA)
4	AIM417	Knowledge Representation and Reasoning (KRR)
5	AIM418	Deep Learning (DL)
6	AIM419	Image Processing (IP)
7	AIM420	Neuroscience & Brain studies (NBS)
8	AIM421	Data Privacy & Design (DPD)
9	AIM422	Cyber Security (CS)
10	AIM423	Internet of Things (IoT)
11	AIM424	Cryptography
12	AIM425	Decision Theory
13	AIM426	Graph Theory
14	AIM427	Vector and Matrix Calculus
15	AIM428	Markov Chain
16	AIM429	Algorithms and Complex optimizations
17	AIM430	Real and Complex Analysis
18	AIM431	Vector Analysis
19	AIM432	3D Differential Geometry
20	AIM433	Fourier Transformation

21	AIM434	Text Mining
22	AIM435	Sequence Model
23	AIM436	Informatics and Computational logic
24	AIM437	Automated Reasoning

Master of Science (MS) in Mathematical Sciences:

The Master of Science in Mathematics degree program offers in pure and applied domain particularly to the candidate who wish to opt mathematics as a carrier. The aims of this program are to produce high-level scholars and professionals to understand the real issues of the society and cater them in the form of mathematical language to propose their solutions to resolve the issues of the country. M.S. in Mathematical Sciences is highly demanding in educational, industrial, research and other related fields.

CURRICULUM STRUCTURE

Duration	2-Years
Semesters	4
Courses (8x3 = 24 credit hours) MS Thesis (1x6 = 6 credit hours)	30
Total Credit Hours	30

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT601	Core I		3-0
2	MAT603	Core II		3-0
3	MAT605	Core III		3-0
4	MAT607	Core IV		3-0

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT602	Optional I		3-0
2	MAT604	Optional II		3-0
3	MAT606	Optional III		3-0
4	MAT608	Optional IV		3-0

THIRD AND FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	MAT609	MS THESIS	Semester I & II	6-0

MS MATHEMATICAL SCIENCES

Core and Optional Courses

S. NO.	Core Courses
1	Riemannian Geometry
2	Mathematical Techniques
3	Integral Equations
4	Functional Analysis
5	ODEs and Computational Linear Algebra
6	Partial Differential Equations
7	Group Theory
8	Advanced Mathematical Physics
9	Integral Equations

S. NO.	Optional Courses (Pure Mathematics)
1	Rings and Modules
2	Operator Theory
3	Topological Groups
4	General Topology
5	Banach Algebra
6	Homotopy Theory
7	Advanced Group Theory
8	Topological Vector Theory
9	Field Extension and Galois Theory

S. NO.	Optional Courses (Applied Mathematics)
1	General Relativity-I
2	General Relativity-II
3	Cosmology
4	Classical Field Theory
5	Electrodynamics-I
6	Electrodynamics-II
7	Plasma Physics
8	Advanced course in Plasma Physics
9	Quantum Field Theory
10	Symmetry Methods for
11	Differential Equations

S. NO.	Optional Courses (Computational Mathematics)
1	Theory of Spline Function I
2	Theory of Spline Function II
3	Graph Theory
4	Mathematical Modeling I
5	Mathematical Modeling II
6	Numerical solution of PDEs
7	Design Theory
8	Minimal Surfaces

S. NO.	More Courses (subject to the availability of faculty)
1	Probability and Stochastic Processes
2	Simulation and Modeling
3	Mathematical Biology
4	Operation Research
5	Monte Carlo Techniques for Simulations
6	Lattice Theory
7	Fuzzy Logic and Neural Networks
8	Hilbert Space Methods
9	Optimization Theory
10	Perturbation Methods
11	Fixed point Theory and Application
12	Approximation Theory and application
13	Integral Inequalities
14	Time Series Analysis and Forecasting
15	Linear Statistical Models
16	Advanced Topics in Graph Theory
17	Geometric Function Theory
18	Advanced Convex Analysis
19	Representation Theory of Finite Groups
20	Fluid and Thermodynamics
21	Group Theoretic Methods
22	Advanced Analytical Dynamics
23	Numerical Methods for Variational Inequalities
24	Simple Linear Regression Models
25	Multiple Linear Regression Models
26	Topological Groups
27	Advanced Number Theory

Doctor of Philosophy (PhD) in Artificial Intelligence:

The purpose of PhD program is to establish a research-oriented environment through the application of mathematical knowledge in Artificial Intelligence and produce highly skilled professionals to become innovators and entrepreneurs who would be able to fulfil the demand of the market for the betterment of the society.

The vision of the program is to achieve the excellence through the knowledge and mathematical skills in Artificial Intelligence to foster the economic growth of Pakistan.

Doctor of Philosophy (PhD) in Artificial Intelligence (3 Years Program):

CURRICULUM STRUCTURE	
Duration	3-Years
Semesters	06
Courses Work	06 (18 credit hours)
Dissertation	Rest of the time will spend on research work (36 Credit Hours)

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	AIM-701	Empirical Research Methods
2	AIM-703	Mathematics for Artificial Intelligence
3	AIM-705	Learning and Problem-Solving Techniques in Artificial Intelligence

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	XXXXXX	Elective I
2	XXXXXX	Elective II
3	XXXXXX	Elective III

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	AIM-800	Dissertation I(A)

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	AIM-800	Dissertation I(B)

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	AIM-801	Dissertation II(A)

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	AIM-801	Dissertation II(B)

LIST OF COURSES

S. NO.	COURSE CODE	COURSE TITLE
1	AIM-XXX	Advanced Machine Learning
2	AIM-XXX	Artificial Intelligence in Healthcare
3	AIM-XXX	Knowledge Based Artificial Intelligence Systems
4	AIM-XXX	Social Network Analytics Using Artificial Intelligence
5	AIM-XXX	Computational Intelligence and Probabilistic Reasoning
6	AIM-XXX	Advanced Knowledge Representation and Reasoning
7	AIM-XXX	Multi-agent Systems
8	AIM-XXX	Computational Ontologies
9	AIM-XXX	Computer Vision & Virtual Reality
10	AIM-XXX	Advanced Natural Language Processing
11	AIM-XXX	Advanced Image Processing
12	AIM-XXX	Bioinformatics
13	AIM-XXX	Artificial Intelligence Programming
14	AIM-XXX	Expert System
15	AIM-XXX	Advanced Text Mining
16	AIM-XXX	Data Mining and Big Data Analytics
17	AIM-XXX	Cloud Computing
18	AIM-XXX	Advanced Algorithm Analysis
19	AIM-XXX	Computational Cognitive Modelling
20	AIM-XXX	Advanced Numerical Computing for Artificial Intelligence
21	AIM-XXX	Special Topics in Artificial Intelligence

Doctor of Philosophy (PhD) in Mathematical Sciences:

Objective of PhD program is to produce research-oriented mathematicians having the knowledge of computational and analytic skills with the global recognition. As well as to provide them learning environment and opportunities in the pursuit of career with professional excellence. Equip them with modern teaching methodologies to attain mathematical and computational skills. Produce professionals to fulfil the demand of the job market.

The vision of the program of Doctor of Philosophy in Mathematical Sciences is to produce high caliber researchers with mathematical thinking abilities for the problem-solving capabilities in the domain of mathematics.

Doctor of Philosophy (PhD) in Mathematical Sciences (3 Years Program):

CURRICULUM STRUCTURE	
Duration	3-Years
Semesters	06
Courses Work	06 (18 credit hours)
Dissertation	Rest of the time will spend on research work (36 Credit Hours)

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	MAT-701	Advanced Differential Equations-II
2	MAT-703	Advanced Mathematical Modelling-II
3	MAT-705	Empirical Research Methods

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	MAT-702	Data Science
2	MAT-704	Atmospheric Modelling
3	MAT-706	Symmetry Methods for Differential Equations

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	MAT-800	Dissertation I(A)

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	MAT-800	Dissertation I(B)

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	MAT-801	Dissertation II(A)

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	MAT-801	Dissertation II(B)

LIST OF COURSES

S. NO.	COURSE CODE	COURSE TITLE
1	MAT-701	Advanced Differential Equations-II
2	MAT-702	Data Science
3	MAT-703	Advanced Mathematical Modelling-II
4	MAT-704	Atmospheric Modelling
5	MAT-705	Empirical Research Method
6	MAT-706	Symmetry Methods for Differential Equations
7	MAT-707	Calculus of Variation and optimal control
8	MAT-708	Advanced Mathematical Ecology
9	MAT-709	Advanced Fluid Dynamics
10	MAT-710	Advanced Operation Research
11	MAT-711	Astrophysical dynamics
12	MAT-712	Advanced Numerical Computing
13	MAT-713	Advanced Real and Complex Analysis
14	MAT-714	Advanced Partial Differential Equations
15	MAT-715	Advanced Linear Algebra
16	MAT-716	Advanced Simulation and Modelling
17	MAT-717	Advanced Time Series Modeling
18	MAT-718	Advanced Algebra
19	MAT-719	Advanced Mathematical Physics
20	MAT-720	Advanced Differential Geometry

Department of Media & Communication Studies



Department of Media & Communication Studies

Dr. Ambreen Fazal

Chairperson/Associate Professor



The media has emerged as a great institution of nation building in modern times. This requires that the future media-persons should have adequate academic foundation as to serve the country and their respective profession in a better manner. SMI University's department of Media and Communication Studies has been established with that objective in mind.

The importance of the Department increases with the fact that the University is located in the area where leading media outlets, both print and electronic, like Daily Dawn, Daily Jang, The News, as well as almost all the major satellite television networks are located. The Department has its own television studio as well as FM Radio station, providing an opportunity for hands-on training on latest broadcasting equipment.

The department aims to bring communication philosophy aligned with Media and Society by inculcating new ideas in the field of Mass Communication. The department is providing hands on training to its students by infusing in them the professional values so that they can serve the field as well as the society in befitting manner.

The Department of Media and Communication Studies envisions to serve as a premier interdisciplinary professional institution where the innovative ideas and enlightened voices will inspire the world for better change through communication.

Bachelor of Science (BS) in Media Studies

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	08
Courses	45
Total Credit Hours	136

CURRICULUM PLAN

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	Pre-Requisite	Credit Hours
1	MDC301	Introduction to Mass Communication	3+0	--
2	SOS303	Fundamentals of Sociology	3+0	--
3	IRS305	International Relations	3+0	--
4	ENG301	English-I (Functional English)	3+0	--
5	HSS101	Pakistan Studies	2+0	--
6	ENV307	Environmental Science	3+0	--
Total Credit Hours			17	

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	Pre-Requisite	Credit Hours
1	MDC302	Mass Media and Society	3+0	--
2	SOS304	Political Science	3+0	--
3	MDC 306	Computer Skills for Mass Media	3+0	--
4	HSS102	Islamic Studies / Ethics	2+0	--
5	ECO401	Economics	3+0	--
6	ENG302	English-II (Composition)	3+0	ENG 301
Total Credit Hours			17	

SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	Pre-Requisite	Credit Hours
1	STT401	Descriptive Statistics	3+0	--
2	MDC403	Introduction to Print Media	3+0	MDC301
3	PSY405	Psychology	3+0	--
4	FU/FS407	Functional Urdu/ Functional Sindhi	3+0	--
5	MDC409	Introduction to Electronic Media	3+0	MDC301
6	ENG401	English III (Writing and Presentation Skills)	3+0	ENG 302
Total Credit Hours			18	

SEMESTER IV

S. NO.	COURSE CODE	COURSE TITLE	Pre-Requisite	Credit Hours
1	MDC402	Introduction to Digital Media	3+0	MDC301
2	ENG 402	English IV (Journalistic Language)	3+0	ENG 401
3	MDC404	Media and Globalization	3+0	MDC301
4	MDC406	Introduction to Film and Documentary	3+0	MDC409
5	PHL408	Philosophy	3+0	--
6	HRM410	Human Resource Management	3+0	--
Total Credit Hours			18	

SEMESTER V

S. NO.	COURSE CODE	COURSE TITLE	Pre-Requisite	Credit Hours
1	MDC501	Television Production	3+0	MDC409
2	MDC503	Radio Production	3+0	MDC409
3	MDC505	Photography	3+0	MDC406
4	MDC507	Media and Human Rights	3+0	--
5	MDC509	Graphic Design	3+0	MDC307
6	MDC511	Media Management	3+0	MDC301
Total Credit Hours			18	

SEMESTER VI

S. NO.	COURSE CODE	COURSE TITLE	Pre-Requisite	Credit Hours
1	MDC502	Advertising and Public Relations	3+0	MDC301
2	MDC504	Video and Audio Editing	3+0	MDC408
3	MDC 506	Online Journalism	3+0	MDC403
4	MDC508	Development Support Communication	3+0	--
5	STT510	Inferential Statistics	3+0	--
6	MDC512	News Writing and Reporting	3+0	MDC403
Total Credit Hours			18	

SEMESTER VII

S. NO.	COURSE CODE	COURSE TITLE	Pre-Requisite	Credit Hours
1	RMT 601	Research Methodology	3+0	STT510
2	MDC605	Current Affairs	3+0	
3	MDC 603	Theories and Model of Communications	3+0	
4	MDC6**	Elective-I	3+0	
5	MDC6**	Elective-II	3+0	
Total Credit Hours			15	

SEMESTER VIII

S. NO.	COURSE CODE	COURSE TITLE	Pre-Requisite	Credit Hours
1	MDC600	Research Report / Final Project	3+0	STT510
2	MDC602	Media Laws and Ethics	3+0	
3	MDC6**	Elective-III	3+0	
4	MDC6**	Elective-IV	3+0	
Total Credit Hours			17	
Sub Total			136	

ELECTIVES

FILM AND TELEVISION PRODUCTION

S.No	Course Code	Course Title	Credit Hours	Pre-Requisite
1	MDC605	Film Form and Style	3+0	MDC406
2	MDC 607	Fundamentals of Script Writing	3+0	MDC406
3	MDC 609	Screen Writing	3+0	MDC406
4	MDC 611	Art Direction and Production Design	3+0	MDC406
5	MDC604	Cinematography	3+0	MDC406
6	MDC606	Direction	3+0	MDC406
7	MDC608	Light, Sound and Camera Techniques	3+0	MDC409

ADVERTISING AND PUBLIC RELATIONS

S.No	Course Code	Course Title	Credit Hours	Pre-Requisite
1	MDC613	Brand Management	3+0	MDC502
2	MDC615	Crises Communication	3+0	MDC502
3	MDC617	Event Management	3+0	MDC502
4	MDC619	Client Service Management	3+0	MDC502
5	MDC610	Media Planning and Campaign	3+0	MDC502
6	MDC612	Advertising Research	3+0	MDC502
7	MDC614	Social Media and Internet Marketing	3+0	MDC502

JOURNALISM

S.No	Course Code	Course Title	Credit Hours	Pre-Requisite
1	MDC621	Photojournalism	3+0	MDC403
2	MDC623	Mobile Journalism	3+0	MDC403
3	MDC625	Sports Journalism	3+0	MDC403
4	MDC627	Citizen Journalism	3+0	MDC403
5	MDC616	Magazine Production	3+0	MDC403
6	MDC620	Investigative Reporting	3+0	MDC403
7	MDC622	Writing for the Media	3+0	MDC403

Master of Science (MS) in Media Studies

CURRICULUM STRUCTURE

Duration	2-Years
Semesters	04
Courses	08 (24 Credit Hours)
Thesis/Project/Courses	06 Credit Hours
Total Credit Hours	30

CURRICULUM PLAN

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC701	Mass Media Research Methods	3+0
2.	MDC 703	Advanced Theories and Models of Communication	3+0
3.	MDC7XX	Elective-I	3+0
4.	MDC7XX	Elective-II	3+0
Total Credit Hours			12

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC704	Statistical Tool	3+0
2.	MDC702	Thesis Writing	3+0
3.	MDC721	MS / MPhil Seminar (New Trends in Media)	3+0
4.	MDC7XX	Elective-I	3+0
Total Credit Hours			12

SEMESTER III & IV

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC800	Thesis/Final Project/ Courses	6+0

MS ELECTIVES

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC717	Political Communication	3+0
2.	MDC-718	Gender, Minority Issues and Media	3+0
3.	MDC-719	Issues in National and International Media	3+0
4.	MDC-720	Peace Journalism	3+0
5.	MDC722	Digital Media	3+0
6.	MDC723	Mass Media Culture and Society	3+0
7.	MDC724	Film Studies and Critic	3+0
8.	MDC725	International Communication	3+0
9.	MDC726	Media and Politics	3+0
10.	MDC727	Advanced Development Communication	3+0
11.	MDC728	Media and Human Rights in Digital Age	3+0
12.	MDC729	Philosophy of Social Science	3+0

PhD in Media Studies

CURRICULUM STRUCTURE

Duration	3-Years
Semesters	06
Course Work	06 (18 Credit Hours)
Dissertation	Rest of the Time Will Spend on Research Work (36 Credit Hours)

DEFICIENCY COURSES

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC807	Advanced Qualitative Research Methods	3+0
2.	MDC809	Advanced Quantitative Research Methods	3+0
3.	MDC10	Independent Study	6+0

CURRICULUM PLAN

SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC801	Research Methods in Media Studies	3+0
2.	MDC805	Computer Application in Media Research	3+0
3.	MDC7XX	Elective-I	3+0

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC803	Academic Writing	3+0
2.	MDC7XX	Elective – II	3+0
3.	MDC7XX	Elective – III	3+0

SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC900	Dissertation	9+0

SEMESTER IV

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC900	Dissertation	9+0

SEMESTER V

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC900	Dissertation	9+0

SEMESTER VI

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC900	Dissertation	9+0

ELECTIVES

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
1.	MDC802	Theories in Media and Communication Studies	3+0
2.	MDC 804	Practices in Media Laws and Ethics	3+0
3.	MDC 806	Social Development and Media	3+0
4.	MDC807	Research in Media and Globalization	3+0

PhD. Program Department of Media Studies

PhD in Media Studies

1. Brief Introduction of Program

The objective of the Ph.D. program in Media Studies aims at offering opportunities for scholars to conduct objective based research in media and its related disciplines, with a view to fulfill professional needs in academia and industry. The program's main objective is to focus on media products, practices, and ethics and fostering creative thinking among research scholars. The program is divided into comprehensive and thesis based on original research and it will be completed within 3 years of study. Keeping diversity in view, the program invites everyone with disciplinary, interdisciplinary, academic or research background to get admission in the doctorate program.

2. Objectives of the program

The Ph.D. program in Media Studies will be launched from forthcoming semester focusing on an array of specialization in those fields that encompasses intercultural communication, development communication, Media culture, society and technology.

The major aim of the Ph.D. Program in Media Studies is to offer a research career in the field of Media and communication studies to develop an understanding of emerging trends and development in international as well as national media.

3. Scope regarding market, social and employment perspective of program

The program aims at providing quality education through course work, research and experimental learning for those scholars pursuing a career in Media, Communications management, Journalism and Mass Media.

After completion of a Doctoral degree, the scholar may get numerous opportunities in major areas like TV Channels, Research and educational Institutions, FM radio, Media marketing companies, websites, Film industries, News, Magazines college, universities, Digital Media Industries, Telecommunication Industries, Marketing Telecom, Services, NGOs and Public Sector organizations.

PhD in Media Studies

3 YEARS PROGRAM

CURRICULUM STRUCTURE

Duration	3 years
Semester	06
Course work	18 credit hours
Dissertation	Rest of the time will spend on research work

SEMESTER 1

Research Methods in Media Studies
Academic Writing
Computer Application in Media Research

SEMESTER 2

Elective - I
Elective - II
Elective - III

SEMESTER 3 & 4

Dissertation

SEMESTER 5 & 6

Dissertation

Electives

1. Theories in Media and Communication Studies
2. Laws, Ethics and Media
3. Social Development and Media
4. Globalization of Media

Department of English, Linguistics & Literature



Faculty of Language & Culture Studies

Prof. Dr. Jamshed Adil Halepota

In-Charge Dean

Mission of Faculty of Language and Culture Studies aims to impart knowledge and inculcate worth of literature and language and its allied subjects' worth to students.

We aim to share knowledge among students about the society, literature and make them capable to believe in worth and values of their rich culture, heritage and history. As Faculty Dean I believe it's my prime duty to uphold the dignity and honor of faculty and this institution and strive to take steps to make environment conducive for quality education.

I also hereby acknowledge, and applause efforts made by our visionary Vice Chancellor Professor Dr. Mujeebuddin Sahrai to bring SMI University in the of line of top-class institution.

INTRODUCTION

The Department of English has been established to provide a comprehensive blend of linguistic-cum-literary education system to BS English undergraduates. The department has been initiated in order to equip our students with the knowledge of English linguistic and literary trends to make them communicatively competent in diversified academic and professional fields.

The purpose of establishing Sindh Madressatul Islam School was to provide modern education to the Muslims of Sindh (sub-continent) in 1885. Subsequently, SMI College was upgraded to the status of the university in 2012; where five departments were initially established and presently five more departments have been inducted. The Department of English is one of them offering BS English (Four year) degree program.

Currently, English teaching faculty consists of seven members headed by PhD faculty member. The department offers English courses across linguistics and literature. The program strictly follows Higher Education Commission (HEC) policy referencing to the updated curriculum. Furthermore, the program offers elective courses for specialization in either linguistics or literature in the final year. However, the nomenclature of degree is BS-English (Linguistics & Literature), and the specialized subjects will be

illustrated on the Final Transcripts to assist students making specific decisions at advanced level of academics e.g., MS/MPhil.

Additionally, the department offers generic academic courses i.e., Study Skills, Philosophy, Psychology, Sociology, Human Rights & Citizenship, Introduction to Computer Applications, Environmental Studies, International Relations and Gender Studies. The program meets national & international standards for the employability of outgoing graduates and to help them achieve success in every walk of life.

Departments:

- * Department of English
- * Department of Allied Subjects

Program Offered:

BS English
MS Linguistics



Department of English

Dr. Riaz Ahmed Mangrio

In-Charge Chairperson



Department of English has been established to provide a comprehensive blend of linguistic-cum-literary education to its students. The department has been initiated in order to equip our students with the knowledge of English linguistic and literary trends to make them communicatively competent in diversified academic and professional fields.

Department of English offers BS English and MS Linguistics. The department offers English courses across linguistics and literature. The program strictly follows Higher Education Commission (HEC) policy referencing to the updated curriculum. These programs meet national & international standards for the employability of outgoing graduates and to help them achieve success in every walk of life.

Programs Offered List

- i. BS English
- ii. MS Linguistics

Program Title/Degree Title

- i. BS English (Linguistics & Literature)

Scope of the Program

BS English degree program strictly follows Higher Education Commission's proposed policies in order to meet the international academic standards. English is a global language and it is also an official language of Pakistan, where almost every official letter is documented in English. English language is no longer the language of native speakers, but a global lingua franca for academic and professional fields. Similarly, most of the universities use it as a medium of instruction across the country. Thus, it is greatly required opportunity for students to avail in order to achieve English

language proficiency for a successful future ahead.

Description of program

BS English is four-year degree program. It offers linguistics and literature courses along with specialized streams in final year. The program consists of eight semesters and in each semester six courses are taught except for eighth semester, where students are given choice to study five courses either in Linguistics or Literature for specialization purpose. In addition, students are facilitated with modern state-of-the-art technology where highly qualified teachers teach modern English communication skills, English linguistics & literature i.e., Morphology, Syntax, Phonetics and Phonology, Experimental Phonetics, Discourse Analysis, World Englishes, Language Testing & Assessment, English for Specific Purpose, Literary Forms and Movements, Modern Drama, Novel, Romantic and Classical Poetry.

BS ENGLISH SCHEME OF STUDIES

FIRST YEAR				
SEMESTER I				
S. No	Course Title	Pre-Requisite	Type of Course	Proposed Course Code
1	English-I: Reading and Writing Skills	Intermediate English	Foundational	ENG-300
2	Introduction to Linguistics	None	Subject-specific Foundational	LIT-340
3	Introduction to Literature	None	Subject-specific Foundational	LIT-340

4	Pakistan Studies	None	Compulsory	HMT-310
5	Introduction to Computer Applications	None	Foundational	CSC-300
6	Study Skills	None	Compulsory general	SSG-320

SEMESTER II

S. No	Course Title	Pre-Requisite	Type of Course	Proposed Course Code
1	English-II Composition Writing	ENG-300	Foundational	ENG-301
2	Phonetics & Phonology	LIN-340	Subject-specific Foundational	LIN-341
3	Literary Forms & Terms	LIT-341	Subject-specific Foundational	LIN-341
4	Elementary Mathematics & Statistics	None	General	APS-330
5	Islamic Studies/Ethics	None	Compulsory	HMT-311/ HMT-312
6	Human Rights & Citizenship	None	Compulsory General	SOS-320

SECOND YEAR

SEMESTER III

S. No	Course Title	Pre-Requisite	Type of Course	Proposed Course Code
1	English-III Communication & Presentation Skills	ENG-301	Foundational	ENG-402
2	Introduction to Morphology	None	Subject-specific	LIN-450
3	Short Fictional Narratives	None	Subject-specific	LIT-450
4	Pakistani English	None	Subject-specific	LIN-451
5	Psychology	None	General	SOS-430
6	Gender Studies	None	General	SOS-431

SEMESTER IV

S. No	Course Title	Pre-Requisite	Type of Course	Proposed Course Code
1	English IV-Academic Reading & Writing	ENG-402	Foundational	ENG-403
2	Introduction to Syntax	None	Subject-specific	LIN-452
3	Introduction to Semantics	None	Subject-specific	LIN-453
4	Introduction to Environmental Studies	None	Compulsory General	APS-421
5	International Relations	None	General	SOS-432
6	Introduction to Philosophy	None	General	SOS-433

THIRD YEAR

SEMESTER V

S. No	Course Title	Pre-Requisite	Type of Course	Proposed Course Code
1	Discourse Analysis	None	Subject-specific	LIN-550
2	Sociolinguistics	None	Subject-specific	LIN-551
3	Psycholinguistics	None	Subject-specific	LIN-552
4	Popular Fiction	None	Subject-specific	LIT-550
5	Classical & Renaissance Drama	None	Subject-specific	LIT-551
6	Rise of Novel (18th to 19th century)	None	Subject-specific	LIT-553

SEMESTER VI

S. No	Course Title	Pre-Requisite	Type of Course	Proposed Course Code
1	Romantic and Victorian Poetry	None	Subject-specific	LIT-554
2	Modern Drama	None	Subject-specific	LIT-555
3	Modern Novel	None	Subject-specific	LIT-556
4	Second Language Acquisition	None	Subject-specific	LIN-553
5	English Language Teaching	None	Subject-specific	LIN-554
6	Pragmatics & Intercultural Communication	None	Subject-specific	LIN-555

FOURTH YEAR

SEMESTER VII

S. No	Course Title	Pre-Requisite	Type of Course	Proposed Course Code
1	Introduction to Stylistics	Literary Criticism and Theory	Specific	LIN-660/LIT-660
2	Translation Studies	Classical Poetry	Specific	LIN-661/LIN-661
3	Research Methods	Postmodern Fiction	Specific	LIN-662/LIT-662
4	Language & Gender	Pakistani Literature in English	Specific	LIN-663/LIT-663
5	Corpus Linguistics	Screen Literature	Specific	LIN-664/LIT-664

SEMESTER VIII

S. No	Course Title	Pre-Requisite	Type of Course	Proposed Course Code
1	Language & Education	Modern Poetry	Specific	LIN-665/LIT-665
2	Language Testing & Assessment	American Literature	Specific	LIN-666/LIT/-666
3	Computational Linguistics	African Literature	Specific	LIN-667/LIT-667
4	English for Specific Purposes	Postcolonial Literature	Specific	LIN-668/LIT-668
5	Final Research Project (Final Thesis)	Final Research Project	Specific	THS-669

Department of Social and Development Studies



Faculty of Social Sciences

Prof. Dr. Zahid Ali Channar

Dean/Director Post Graduate Studies



Social science is a branch of science devoted to the study of societies and the relationships among individuals within those societies. Social science tells us about the world beyond our immediate experience, and can help explain how our own society works.

Currently students are offered undergraduate, graduate and postgraduate degree Programs. At undergraduate level we build strong analytical and problem solving skills which can be leveraged on the job market for an area of industries and jobs.

At graduate level students strengthen key skills which hold immense value in the job market. They analyze the texts to understand their meaning, collect data to project trends and research changes in social institutions.

At the postgraduate level students are provided those skills through which they use scientific knowledge to analyze the society and bring positive changes in it. They learn about the research methods-quantitative as well a qualitative- for identifying and solving the societal problems.

The Faculty of Social Sciences is playing dynamic role in uplifting the academics of the university. The prime objective of the faculty is to dispense and produce knowledge which enable the students to analyze the society and create new values in the society.

1. Departments:

- Media and Communication Studies
- Social and Development Studies



Department of Social & Development Studies

Dr. Subhash Guriro,

Chairperson/Associate Professor



The Department of Social and Development Studies aims to give students new ways to approach the challenges of social development at national and international level. Students will have an opportunity to know inspirational ideas in social and economic thought that will lead them to understand and critique the processes of economic development and social change.

They can make discoveries in the field of major social and development issues such as poverty, inequality, urbanization, migration, health and human rights.

The department is a multidisciplinary in nature, where knowledge pertaining to numerous disciplines of social sciences including sociology, development policy and economics imparted for the socio-economic development of the country and welfare of the society.

Programs Offered:

- Bachelor of Science (BS) in Development Studies
- Bachelor of Science (BS) in Sociology

INTRODUCTION

The field of social sciences has greatly contributed in nation building in modern times. This requires that the future individual should have adequate academic foundation as to serve the country and their respective profession in a better manner. SMI University's Departments of Media and Communication Studies and Social and Development Studies have been established to achieve this objective.

The importance of the departments increases with the fact that the university is located in the area where leading media outlets, both print and electronic, like Daily Dawn, Daily Jang, The News, as well as almost all the major satellite television networks are located.

The Department has its own television studio as well as FM Radio station, providing an opportunity for hands-on training on latest broadcasting equipment.

Distinctions of the Faculty:

Television and Radio studio: The Department of Media and Communication Studies at SMIU has its own state-of-the-art Television Studio and FM Radio Station to serve as its broadcasting laboratories. Both the studios offer hands-on training to the students.

Programs Offered:

- * BS Media Studies
- * MS Media Studies
- * PhD Media Studies

DESCRIPTION OF THE DEPARTMENT

Department of Social and Development Studies aims to give students new ways to approach the challenges of development at national and international level. Students have an opportunity to know inspirational ideas in social and economic thought that will lead them to understand the processes of economic development and social change. They can excel in the field of major development issues such as poverty, inequality, urbanization, migration, health and human rights. The Department of Social and Development Studies is multidisciplinary in nature, where knowledge pertaining to numerous disciplines of social sciences imparted for the socio-economic development of country and welfare of the society.

PROGRAMS OFFERED

Currently, the Department of Social and Development Studies offers following programs:

1. **BS Development Studies**
2. **BS Sociology**

DESCRIPTION OF THE PROGRAM (BS DEVELOPMENT STUDIES)

Development Studies is one of the fast growing and emerging disciplines required by the today's markets for the socio-economic development of the societies across the world. The degree holders of Development Studies have great demand in both public and private organizations working in the development sector. This BS Degree Program in Development Studies has been designed to prepare students for understanding social and economic problems of the society and enable them to analyze such issues critically and scientifically for the sustainability of the Pakistani society. The program offers exciting opportunities to put the knowledge of development into practice, including chances to work at local or international organizations. The program will introduce Development Studies as an interdisciplinary subject whereby students will be enabled for advanced studies in the field of development and related professions of Social Sciences.

OBJECTIVES

The BS Degree Program in Development Studies aims to:

1. Train students for social and economic development of the country through imparting knowledge of multi disciplines of social science including sociology, economics, politics, planning, anthropology and environmental studies.
2. Teach the concepts and theories of development for social change.
3. Equip the students with modern and innovative techniques of the field and to use them with scientific insight for the sustainable development.

SCOPE OF THE PROGRAM

Development Studies provides innovative and challenging opportunities of learning that engage students in the field and opens our graduates up to a wide range of career possibilities in future. Graduates are equipped with a portfolio of transferable skills which employers seek, including analytical, communication, planning and organization skills. The graduate students can get employment in both public and private sectors working in the field of development.

ELIGIBILITY

The BS degree program in Development Studies requires following eligibility criterion for the admission purpose. Intermediate or equivalent with at least 45% marks or equivalency of A level (Excluding general Papers).

DESCRIPTION OF THE PROGRAM (BS SOCIOLOGY)

Sociology is the general Science of Society. The subject in this regard is entrusted with the responsibility to study numerous aspects of social life keeping in view the sociological paradigms. In this context the fundamental purpose of introducing the program of Bachelor of Science (B.S.) in Sociology is to prepare our students to face and produce pragmatic solutions of the problems of the social world. Our graduates will be equipped with basic skills of analyzing social structures, order and social problems in a scientific, analytical and critical manners. Special efforts have been made to provide the opportunities to the graduating students to analyze culture and transformation of societies from simple to complex in an empirical and researching ways. The BS Degree Program in Sociology at Sindh Madressatul Islam University (SMIU) prepares the prospective social scientists for further advanced studies in the field of Social Sciences and other relevant professions of Social Science.

OBJECTIVES

The BS Degree Program in Sociology aims to:

1. Endow the students with basic sociological concepts and principles along with scientific skills as to understand and resolve the issues of the social life.
2. Inculcate among the students the potential of analyzing the behavior of human being and to train them as a reformer for the betterment of the society.
3. Equip the students with professional techniques to work in the field of the sociology and utilize the sociological perspectives for the attainment of the aims of the development of Pakistani society.
4. Provide the understanding of culture, history and social thought as to groom the interactive, critical and analytical skills of our graduating students.

SCOPE OF THE PROGRAM

Degree of B.S. in Sociology has a vast scope regarding market, social and employment perspective. As, degree in sociology provides opportunity to fully understand human social behavior, organization behavior and the process of development. So, a graduate in Sociology can be employed both in governmental and private sector on various lucrative positions. A sociologist can be hired as Demographer / Planner, Social Worker, Political Researcher, Guidance

Counselor, Human Resources (H.R) Representative, Market Research Analysts, Media Planner, Policy Analyst and Survey Researcher.

ELIGIBILITY

The BS degree program in Sociology requires following eligibility criterion for the admission purpose. Intermediate or equivalent with at least 45% marks or equivalency of A level (Excluding general Papers).

BS Development Studies

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	08
Total Number of Courses	45
Total Credit Hours	133

CURRICULUM PLAN

FIRST SEMESTER

Sr. No.	Course Code	Name of Course	Course Category	Credit Hours	Pre-Req
01	ENG101	English-I (Functional English)	Compulsory	3+0	None
02	HSS101	Pakistan Studies	Compulsory	2+0	None
03	MAT301	Mathematics	Compulsory	3+0	None
04	ECO303	Microeconomics	General	3+0	None
05	DVS305	Introduction to Development Studies	Foundation	3+0	None
06	DVS307	Fundamentals of Sociology	Foundation	3+0	None
Total				17	

SECOND SEMESTER

Sr. No.	Course Code	Name of Course	Course Category	Credit Hours	Pre-Req
01	ENG102	English-II (Academic Reading and Writing)	Compulsory	3+0	None
02	HSS102	Islamic Studies / Ethics	Compulsory	2+0	None
03	MDC302	Introduction to Mass Communication	General	3+0	None
04	ENV304	Introduction to Environmental Science	General	3+0	None
05	ECO306	Macroeconomics	Foundation	3+0	ECO303
06	DVS308	Sociological Theories	Foundation	3+0	DVS307
Total				17	

THIRD SEMESTER

Sr. No.	Course Code	Name of Course	Course Category	Credit Hours	Pre-Req
01	ENG201	English-III (Communication and Presentation Skills)	Compulsory	3+0	ENG102
02	CSC101	Introduction to Computer and its Applications	Compulsory	3+0	None
03	SAT401	Statistical Tools for Social Sciences	Compulsory	3+0	None
04	DVS403	Cultural Heritage, Tourism and Development	Foundation	3+0	None
05	DVS405	Theories of Development	Foundation	3+0	DVS305
06	GDS407	Gender Studies	General	3+0	None
Total				18	

FOURTH SEMESTER

Sr. No.	Course Code	Name of Course	Course Category	Credit Hours	Pre-Req
01	ENG202	English-IV (Technical Report Writing)	Compulsory	3+0	ENG201
02	EDU402	Foundations of Education	General	3+0	None
03	HRM404	Human Resource Management	General	3+0	None
04	DVS406	Development Support Communication	Foundation	3+0	None
05	DVS408	Development Economics	Foundation	3+0	ECO306
06	DVS410	Anthropology	Major	3+0	None
Total				18	

FIFTH SEMESTER

Sr. No.	Course Code	Name of Course	Course Category	Credit Hours	Pre-Req
01	PHL501	Philosophy and Critical Thinking	General	3+0	None
02	PSY503	Psychology	General	3+0	None
03	DVS505	Leadership and Management	Foundation	3+0	HRM404
04	DVS507	Development Project: Planning, Implementation and Management	Major	3+0	DVS405
05	DVS509	Microfinance and Poverty	Major	3+0	DVS408
06	DVS511	Political Economy of Development	Major	3+0	None
Total				18	

SIXTH SEMESTER

Sr. No.	Course Code	Name of Course	Course Category	Credit Hours	Pre-Req
01	DVS502	Development and Social Change	Foundation	3+0	DVS408
02	DVS504	Law, Human Rights and Development	Major	3+0	None

03	DVS506	Population Studies	Major	3+0	None
04	DVS508	Social Policy and Governance	Major	3+0	None
05	DVS510	Community Development	Major	3+0	DVS307
06	DVS512	Internship	Major	0+0	None
Total				15	

SEVEN SEMESTER

Sr. No.	Course Code	Name of Course	Course Category	Credit Hours	Pre-Req
01	RMT300	Methods of Social Research	Major	3+0	SAT401
02	DVS601	Sustainable Development	Major	3+0	None
03	DVS603	Public Policy	Major	3+0	DVS508
04	DVSxxx	Elective-I	Elective	3+0	None
05	DVSxxx	Elective-II	Elective	3+0	None
Total				15	

EIGHT SEMESTER

Sr. No.	Course Code	Name of Course	Course Category	Credit Hours	Pre-Req
01	DVS602	Disaster Management and Development	Major	3+0	None
02	DVS604	Development Policies and Strategies of Pakistan	Major	3+0	DVS603
03	RMT301	Research Report / Final Project	Major	3+0	RMT300
04	DVSxxx	Elective-III	Elective	3+0	None
05	DVSxxx	Elective-IV	Elective	3+0	None
Total				15	
Sub Total				133	

List of Electives

SOCIAL DEVELOPMENT

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
01	DVS-605	Social, Political Movements and Development	3+0
02	DVS-607	Non-Governmental Organizations and Development	3+0
03	DVS-606	Development Aid and Politics	3+0
04	DVS-608	Peace and Development	3+0

RURAL AND URBAN DEVELOPMENT

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
01	DVS-609	Rural Sociology and Development	3+0
02	DVS-611	Urban Sociology and Development	3+0
03	DVS-610	Rural-Urban Development Issues and Perspectives	3+0
04	DVS-612	Rural-Urban Development and Local Government System	3+0

SUSTAINABLE DEVELOPMENT

S. NO.	COURSE CODE	COURSE TITLE	Credit Hours
01	DVS-613	Global Sustainable Development	3+0
02	DVS-615	Climate Change and Sustainability challenges in Pakistan	3+0
03	DVS-614	Water Resources Management and Sustainability	3+0
04	DVS-616	Sustainable Agriculture and Food Security	3+0

BS SOCIOLOGY

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	08
Total Number of Courses	44
Total Credit Hours	133

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Course Category	Credit HRs.	Pre-Requisite
01	ENG-101	English-I (Functional English)	Compulsory	3+0	None
02	HSS-101	Pakistan Studies	Compulsory	2+0	None
03	SOC-301	Mathematics	Compulsory	3+0	None
04	SOC-303	Introduction to Development Studies	General-I	3+0	None
05	SOC-305	Introduction to Economics	General-II	3+0	None
06	SOC-307	Fundamentals of Sociology	Foundation-I	3+0	None
Total				17	

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Course Category	Credit HRs.	Pre-Requisite
01	ENG-102	English-II (Academic Reading and Writing)	Compulsory	3+0	ENG-101
02	HSS-102	Islamic Studies / Ethics	Compulsory	2+0	None
03	SOC-302	Social Statistics	Compulsory	3+0	None
04	SOC-304	Introduction to Mass Communication	General-III	3+0	None
05	SOC-306	Introduction to Environmental Science	General-IV	3+0	None
06	SOC-308	Development of Social Thought	Foundation-II	3+0	SOC-307
Total				17	

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Course Category	Credit HRs.	Pre-Requisite
01	ENG-201	English-III (Communication and Presentation Skills)	Compulsory	3+0	ENG-102
02	CSC-101	Introduction to Computer and Its Applications	Compulsory	3+0	None
03	SOC-401	Introduction to Law	General-V	3+0	None
04	SOC-403	Introduction to Psychology	General-VI	3+0	SOC-307
05	SOC-405	Classical Sociological Theories	Foundation-III	3+0	SOC-308
Total				15	

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Course Category	Credit HRs.	Pre-Requisite
01	ENG-202	English-IV (Technical Report Writing)	Compulsory	3+0	ENG-201
02	SOC-402	Philosophy and Critical Thinking	General-VII	3+0	None
03	SOC-404	Contemporary Sociological Theories	Foundation-IV	3+0	SOC-405
04	SOC-406	Pakistani Society & Culture	Foundation-V	3+0	SOC-307
05	SOC-408	Gender Studies	Foundation-VI	3+0	SOC-307
Total				15	

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Course Category	Credit HRs.	Pre-Requisite
01	RMT-300	Methods of Social Research	Foundation-VII	3+1	None
02	SOC-501	Social Psychology	Foundation-VIII	3+0	SOC-307
03	SOC-503	Sociology of Development	Major-I	3+0	SOC-403

04	SOC-505	Project Planning & Management	Major-II	3+1	None
05	SOC-507	Community Development	Major-III	3+0	None
Total				17	

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Course Category	Credit HRs.	Pre-Requisite
01	RMT-301	Advance Research Methodology	Foundation-IX	3+0	RMT-300
02	SOC-502	Anthropology	Foundation-X	3+0	None
03	SOC-504	Population Studies	Major-IV	3+1	None
04	SOC-506	Rural Sociology	Major-V	3+0	None
05	SOC-508	Urban Sociology	Major-VI	3+0	None
Total				16	

SEVENTH SEMESTE

S. NO.	COURSE CODE	COURSE TITLE	Course Category	Credit HRs.	Pre-Requisite
01	SOC-601	Sociology of Health & Medicine	Major-VII	3+0	None
02	SOC-603	Comparative Social Institutions	Major-VIII	3+0	None
03	SOC-605	Sociology of Education	Major-IX	3+0	None
04	SOC-607	Internship	Major-X	3+0	None
05	SOC-xxx	Elective –I	Elective	3+0	None
06	SOC-xxx	Elective –II	Elective	3+0	None
Total				18	

EIGHT SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Course Category	Credit HRs.	Pre-Requisite
01	SOC-602	Social Change & Transformation	Major-XI	3+0	None
02	SOC-604	Sociology of Religion	Major-XII	3+0	None
03	SOC-606	Sociology of Globalization	Major-XIII	3+0	None
04	SOC-608	Research Report / Final Project	Major-XIV	3+0	RMT-301
05	SOC-xxx	Elective-III	Elective	3+0	None
06	SOC-xxx	Elective-IV	Elective	3+0	None
Total				18	
Sub Total				133	

ELECTIVE COURSES

SEMESTER VII			
Sr.	Course Code	Name of Course	Credit Hours
01	SOC-609	Impact Assessment	3+0
02	SOC-611	Conflict and Alternative Dispute Resolution	3+0
03	SOC-613	Sociology of Law and Human Rights	3+0
04	SOC-615	Governance and Social Policy	3+0
05	SOC-617	Organizational Behaviour and HRD	3+0
06	SOC-619	Clinical Sociology	3+0

SEMESTER VIII			
Sr.	Course Code	Name of Course	Credit Hours
01	SOC-610	Corporate Social Responsibility	3+0
02	SOC-612	Electronic Media and Virtual Society	3+0
03	SOC-614	Rural Development	3+0
04	SOC-616	Industrial Sociology	3+0
05	SOC-618	Criminology	3+0
06	SOC-620	Islamic Sociology	3+0



Department of Environmental Sciences



Faculty of Science

Professor Dr. Aftab Ahmed Shaikh

In-Charge Dean

INTRODUCTION

The discipline of the Environment has attained unprecedented significance in view of the emerging environmental issues like global warming, etc. Because of this, the needs for professional environmentalists have increased and the professions relating to the environmental sciences are needed in the most diversified fields of employment all over the world.

Programs Offered:

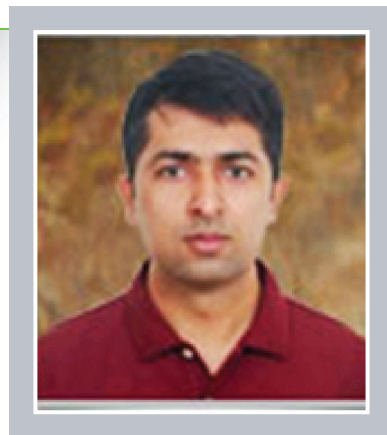
- BS Environmental Sciences
- MS Environmental Sciences
- PhD Environmental Sciences
- BS Climate Change (offered from Fall 2022)
- BS Food Science and Technology (offered from Fall 2022)



Department of Environmental Sciences

Dr. Imran Ali

In-Charge Chairperson



The discipline of Environment has attained unprecedented significance in view of the emerging environmental issues like global warming. The need for professional environmentalists, therefore, have increased and the professionals relating to environmental science are needed all over the world to address rising environmental challenges.

Department of Environmental Sciences at SMIU is for addressing the national challenges in the field of environment and to provide capable leadership in the field. The interdisciplinary and integrative curriculum of its

degree programs have been designed to equip students with key skills and knowledge to understand and confront complex environmental issues.

The department offers following degree programs:

- * Bachelor of Science (BS) in Environmental Sciences
- * Bachelor of Science (BS) in Climate Change
- * Bachelor of Science (BS) in Food Science and Technology
- * Master of Science (MS) in Environmental Sciences
- * PhD Environmental Sciences

Bachelor of Science (BS) in Environmental Sciences

CURRICULUM STRUCTURE

Duration	4-Years
Semesters	8
Courses (44x3 = 132 credit hours)	44
Total Credit Hours	132

CURRICULUM PLAN

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV101	Introduction to Environmental Science		3 (3-0)
2	MAT 103	Mathematical Methods I		3 (3-0)
3	ENV105	Chemistry I		3(2-1)
4	ENV107	Biology I		3(2-1)
5	CSC101	Introduction to Computer and its Applications		3 (3-0)
6	ENG101	English I		3 (3-0)

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV102	Fundamentals of Ecology	ENV101	3 (3-0)

2	MAT 106	Mathematical Methods II	MAT103	3 (3-0)
3	ENV106	Chemistry II	ENV105	3 (2-1)
4	ENV108	Biology II	ENV107	3 (2-1)
5	ENG102	English II	ENG101	3 (3-0)
6	HSS101	Islamiat and Pakistan Studies		3 (3-0)

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV201	Environmental Microbiology	ENV107&108	3(2-1)
2	ENV203	Environmental Chemistry	ENV105&106	3 (3-0)
3	ENV205	Environmental Sociology		3 (3-0)
4	ENV207	Environmental Sampling and Analytical Techniques		3(2-1)
5	MAT203	Probability & Statistics	MAT103 &106	3 (3-0)

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ECO 100	Introduction to Economics	None	3 (3-0)
2	PSY101	Introduction to Psychology	None	3 (3-0)
3	ENV206	Hydrology	ENV 105,106&203	3 (3-0)
4	ENV208	Air and Noise Pollution	ENV 105,106&203	3 (3-0)
5	ENV210	Introduction to Earth Sciences	None	3(2-1)
6	ENG212	English V	ENG 101&102	3 (3-0)

FIFTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV301	Biochemistry	ENV 105&106	3 (3-0)
2	ENV303	Energy and Environment	ENV 101&102	3 (3-0)
3	ENV305	Environmental Toxicology	ENV 105,106&203	3 (2-1)
4	ENV307	Environmental Management System	ENV 101&102	3 (2-1)
5	ENV309	Environmental Pollution Monitoring I	ENV 207	3 (0-3)
6	ENVXXX	Elective I		

SIXTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	RMT300	Research Methodology in Environmental Sciences		3 (3-0)
2	ENV304	Environmental Biotechnology	ENV107/108/201	3 (3-0)
3	ENV306	Environmental Pollution Monitoring II	ENV207	3 (0-3)
4	ENV308	Solid Waste Management	ENV101	3 (3-0)
5	ENVXXX	Elective II		

SEVENTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV401	Climate Change	ENV101&102	3 (3-0)
2	ENV403	Remote Sensing and GIS	ENV101&102	3(2-1)
3	ENV405	Disaster Risk Management	ENV101&102	3 (3-0)
4	ENV407	Pollution Control Technologies	ENV101&102	3 (3-0)
5	ENVXXX	Elective III		

EIGHT SEMESTER

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV402	Environmental Impact Assessment	ENV105,106, 203 & 206	3(2-1)
2	ENV404	Environmental Economics	ECO 100	3 (3-0)
3	ENV406	Occupational Safety Health and Environment	ENV101& 102	3(2-1)
4	ENV408	Environmental Governance	ENV101&102	3 (3-0)
5	ENVXXX	Elective IV		
6	ENV500	Final Year Project		3(1-2)

BS ENVIRONMENTAL SCIENCE ELECTIVE COURSES

ELECTIVE I

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV311	Biodiversity and Conservation	ENV101&102	3(2-1)
2	ENV313	National Resource Management	ENV101&102	3 (3-0)
3	ENV315	Project Management	ENV101&102	3 (3-0)

ELECTIVE II

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV310	Environmental Physics	ENV101&102	3(2-1)
2	ENV312	Water Resource Management	ENV101&102	3(2-1)
3	ENV314	Environmental Profile of Pakistan	ENV101&102	3 (3-0)

ELECTIVE III

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV409	Public Health & Environment	ENV101&102	3 (3-0)
2	ENV413	Ecotourism	ENV101&102	3 (3-0)
3	ENV415	Coastal Environmental Management	ENV101&102	3 (3-0)

BS Climate Change

First Year

First Semester					Second Semester				
Course Code	Course Title	Credit hours			Course Code	Course Title	Credit Hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	English-I (Functional)	3	0	3	ENV-XXX	English-II (Functional)	3	0	3
ENV-XXX	Biology	3	0	3	ENV-XXX	Pakistan Studies	2	0	2
ENV-XXX	Introduction to Environmental Sciences	3	0	3	ENV-XXX	Social Issues of Pakistan	3	0	3
ENV-XXX	Mathematics-I	3	0	3	ENV-XXX	Mathematics-II	3	0	3
ENV-XXX	Computer and Its Applications in Chemistry	3	0	3	ENV-XXX	Probability and Statistics	3	0	3
ENV-XXX	Chemistry I	2	1	3	ENV-XXX	Chemistry II	2	1	3

Second Year

Third Semester					Fourth Semester				
Course Code	Course Title	Credit hours			Course Code	Course Title	Credit hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	English-III (Report Writing)	3	0	3	ENV-XXX	Introduction to Economics	3	0	3
ENV-XXX	Islamic Studies / Ethics	2	0	2	ENV-XXX	Environmental Sociology	3	0	3
ENV-XXX	Microbiology	3	0	3	ENV-XXX	Environmental Management System	3	0	3
ENV-XXX	Sampling and Analytical techniques	2	1	3	ENV-XXX	Soil - Plant - Environment Relationship	2	1	3
ENV-XXX	Environmental Chemistry	3	0	3	ENV-XXX	Biofortification and Global Health	3	0	3
ENV-XXX	Plant Ecology	3	0	3	ENV-XX	Concepts of Biochemistry	3	0	3

BS Climate Change									
Third Year									
Fifth Semester					Sixth Semester				
Course Code	Course Title	Credit hours			Course Code	Course Title	Credit Hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	Climate Change Impact Assessment	2	1	3	ENV-XXX	Climate Change and Livestock	2	1	3
ENV-XXX	Climate Change Mitigation and Adaptation Strategies	2	1	3	ENV-XXX	Crops for Changing Environment	2	1	3
ENV-XXX	Critical Readings in Climate Change	1	1	2	ENV-XXX	Bio sequestration and Environment	3	0	3
ENV-XXX	Business & Organizational Communication	3	0	3	ENV-XXX	Climate Change and Agriculture	3	0	3
ENV-XXX	Aquaculture and Climate Change	2	1	3	ENV-XXX	Economics of Climate Change	3	0	3
ENV-XXX	Public Health in Changing Climate	2	1	3	ENV-XXX	Climate Change and Environmental Sustainability	2	0	2
Fourth Year									
Seventh Semester					Eighth Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	Climate Change and Water resources	2	1	3	ENV-XXX	Molecular Evolutionary Ecology	3	0	3
ENV-XXX	Population, Environment and Development	2	1	3	ENV-XXX	Elective III	-	-	-
ENV-XXX	Elective I	-	-	-	ENV-XXX	Elective IV	-	-	-
ENV-XXX	Elective II	-	-	-	ENV-XXX	Parameters and Methods of Environmental Impact Assessment	2	1	3
ENV-XXX	Research Project, Scientific Writing and Presentation	3	0	3	ENV-XXX	Occupational Safety and Health	2	1	3
Electives									
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit Hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	Environmental Applications of GIS and Remote Sensing	2	1	3	ENV-XXX	Feed Resources and their Nutritive Value	2	1	3
ENV-XXX	Agricultural Biomass Management	2	1	3	ENV-XXX	Animal Growth and Adaptation	3	0	3
ENV-XXX	Disaster Risk Management	3	0	3	ENV-XXX	Managing Livestock under Stress Conditions	2	1	3
-XXX	Advances in Agro-Forestry	2	1	3					

BS Food Science and Technology

First Year

First Semester					Second Semester				
Course Code	Course Title	Credit hours			Course Code	Course Title	Credit Hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	English-I (Functional)	3	0	3	ENV-XXX	English-II (Functional)	3	0	3
ENV-XXX	Biology / Mathematics I	3	0	3	ENV-XXX	Pakistan Studies	2	0	2
ENV-XXX	Introduction to Environmental Sciences	3	0	3	ENV-XXX	Basic Agriculture	2	1	3
ENV-XXX	Introduction to Food Science and Technology	2	1	3	ENV-XXX	Horticulture	2	1	3
ENV-XXX	Introduction to Information Technology	2	1	3	ENV-XXX	Probability and Statistics	3	0	3
ENV-XXX	Biochemistry	3	0	3	ENV-XXX	Principles of Human Nutrition	3	0	3
				18					17

Second Year

Third Semester					Fourth Semester				
Course Code	Course Title	Credit hours			Course Code	Course Title	Credit hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	Entomology	2	1	3	ENV-XXX	Marketing and Agri. Business	3	0	3
ENV-XXX	Islamic Studies / Ethics	2	0	2	ENV-XXX	Unit Operation in Food Processing	3	0	3
ENV-XXX	Microbiology	3	0	3	ENV-XXX	Fluid Mechanics	2	1	3
ENV-XXX	Plant Pathology	1	1	3	ENV-XXX	Food Plant Layout	2	1	3
ENV-XXX	Food Processing & Preservation	2	1	3	ENV-XXX	Food Analysis	1	2	3
ENV-XXX	Food Chemistry	3	0	3	ENV-XXX	Food Process Engineering-I	1	2	3
				17					18

BS Food Science and Technology

Third Year

Fifth Semester					Sixth Semester				
Course Code	Course Title	Credit hours			Course Code	Course Title	Credit Hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	Food Toxicology and Safety	3	0	3	ENV-XXX	Community Nutrition and Dietetics	2	1	3
ENV-XXX	Fruit and Vegetable Processing	2	1	3	ENV-XXX	Beverage Technology	2	1	3
ENV-XXX	Cereal Technology	2	1	3	ENV-XXX	Confectionery and Snack Foods	2	1	3
ENV-XXX	Sugar Technology	2	1	3	ENV-XXX	Bakery Products Technology	2	1	3
ENV-XXX	Technology of Fats and Oils	2	1	3	ENV-XXX	Postharvest Technology	2	1	3
ENV-XXX	Instrumental Techniques in Food Analysis	1	2	3	ENV-XXX	Food Microbiology	2	1	3
ENV-XXX	Food Process Engineering-II	2	1	3	ENV-XXX	Food Product Development	1	2	3
				21					21

Fourth Year

Seventh Semester					Eighth Semester				
Course Code	Course Title	Credit Hours			Course Code	Course Title	Credit hours		
		Th.	Pr.	Total			Th.	Pr.	Total
ENV-XXX	Meat Technology	2	1	3	ENV-XXX	Sensory Evaluation of Foods	2	1	3
ENV-XXX	Dairy Technology	2	1	3	ENV-XXX	Sea Food Processing Technology	2	1	3
ENV-XXX	Food Laws and Regulations	3	0	3	ENV-XXX	Extrusion Technology	2	1	3
ENV-XXX	Food Biotechnology	2	1	3	ENV-XXX	Milk and Meat Hygiene and Public Health	2	1	3
ENV-XXX	Food Packaging	2	1	3	ENV-XXX	Food Quality Management	2	0	2
ENV-XXX	Poultry and Egg Processing	2	1	3	ENV-XXX	Internship and Report writing	0	4	4
ENV-XXX	Research Project / Advanced Practical / Position Paper (literature survey)	1	1	2					
				20					18

ELECTIVE IV

S. NO.	COURSE CODE	COURSE TITLE	Pre-Req	Credit Hours
1	ENV410	Urban Environmental Management	ENV101&102	3 (3-0)
2	ENV412	Agro Ecology	ENV101&102	3 (3-0)
3	ENV414	Pollution Movement in Soil	ENV101&102	3 (3-0)

Master of Science (MS) in Environmental Sciences

CURRICULUM STRUCTURE

Duration	2-Years
Semesters	4
Courses	8 (24 Cr Hours)
Thesis	(6 Cr Hours)
Total Credit Hours	30

CURRICULUM PLAN

MS Environmental Science

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	ENV501	Climate Change Adaptation and Mitigation
2	ENV503	Treatment and Management of Waste Water
3	ENV505	Environmental Analytical Techniques
4	ENVXXX	Elective I

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	ENV502	Environmental Biotechnology
2	ENV504	Strategic Environmental Assessment
3	ENV506	Research Methods in Environmental Science
4	ENVXXX	Elective II

THIRD SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	ENV699	Research Thesis I (Synopsis writing & presentation, Data Collection)

FOURTH SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	ENV700	Research Thesis II (Data Collection, Thesis Writing and Defense)

MS ENVIRONMENTAL SCIENCE ELECTIVE COURSES

FIRST SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	ENV507	Health, Safety and Environmental Management
2	ENV509	Disaster Risk Management
3	ENV511	Sustainable Development

SECOND SEMESTER

S. NO.	COURSE CODE	COURSE TITLE
1	ENV508	Fresh water Ecology
2	ENV510	Environmental Education
3	ENV512	Solid and Hazardous Waste Management

PhD ENVIRONMENTAL SCIENCE

FIRST SEMESTER

S. NO.	COURSE	Credit Hours
1	Core course I	3 (3+0)
2	Core course II	3 (3+0)
3	Elective course I	3 (3+0)

SECOND SEMESTER

S. NO.	COURSE	Credit Hours
1	Elective course II	3 (3+0)
2	Elective course III	3 (3+0)
3	Elective course IV	3 (3+0)

THIRD SEMESTER

S. NO.	COURSE	Credit Hours
1	Research A.1	-

FOURTH SEMESTER

S. NO.	COURSE	Credit Hours
1	Research A.2	-

FIFTH SEMESTER

S. NO.	COURSE	Credit Hours
1	Research B.1	-

SIXTH SEMESTER

S. NO.	COURSE	Credit Hours
1	Research B.2	-

PhD Courses Scheme

CORE COURSES

Sr. No.	Course code	Course Name	Credit Hours
1	ENV701	Advance Research Methodology in Environmental Sciences	3 (3+0)
2	ENV703	Data Analysis and Statistical Tools	3 (3+0)

ELECTIVE COURSES

Sr. No.	Course code	Course Name	Credit Hours
1	ENV-XXX	Advance Environmental Monitoring, Sampling and Analysis	3 (3+0)
2	ENV-XXX	Advance Aquatic Chemistry	3 (3+0)
3	ENV-XXX	Soil Pollution and Environmental Management	3 (3+0)
4	ENV-XXX	Forest ecology and environmental protection	3 (3+0)
5	ENV-XXX	Advanced water and wastewater treatment	3 (3+0)
6	ENV-XXX	Carbon Capture and Storage	3 (3+0)
7	ENV-XXX	Sustainable Development and Resource Management	3 (3+0)
8	ENV-XXX	Coastal and Marine Pollution	3 (3+0)
9	ENV-XXX	Advance Applications of Nanomaterials	3 (3+0)
10	ENV-XXX	Urban forestry and sustainable environment	3 (3+0)
11	ENV-XXX	Biomass and Bioenergy	3 (3+0)
12	ENV-XXX	Environmental and Biogeochemistry	3 (3+0)
13	ENV-XXX	Special topics in Environmental Sciences	3 (3+0)
14	ENV-XXX	Integrated Solid and Hazardous Waste Management	3 (3+0)
15	ENV-XXX	Technological Advancement in Air and Noise Pollution Monitoring and Control	3 (3+0)

Department of Education



Faculty of Education

Prof. Dr. Jamshed Adil Halepota

In-Charge Dean

The Faculty of Education immodesties itself in being a platform for higher education and research. The members value academic excellence and uphold ethical norms. They promote teaching and research of the highest quality in their classrooms and insist on the very best academic standards that combine theory and practice.

In addition to that, the Faculty of Education seeks to harness skills to produce quality research which can positively impact society and contribute in making the world a better place. In this regard, Faculty offers MS and PhD programs in Education who wish to become researchers, heads of the institutes managers and specialists in the areas of their concentration.

I feel honored and privileged to be associated with the Faculty of Education as the Dean. In this department I have a team of very eminent scholars as the faculty members.

Activities Carried Out by the Dean: Directed, supervised/monitored the day to day routine work of the Department of Education i.e. assigning courses, preparation of timetables, preparation of examination papers, DRCs, Proposal defense and final thesis defense. The mentioned activities are executed in a professional manner without comprising on the quality.

INTRODUCTION

The Department of Education comprises highly qualified, professionally trained, dedicated, skilled, and committed teachers with leadership qualities to serve on national and international forums.

The department has designed and developed its curriculum to meet the challenges of future requirements in the field of education & research and to fill the gap between required and present demands of skilled motivated and professionally trained educationists.

The department has established a strong research tradition through projects and research publications of its faculty in renowned national and international journals. It strives to produce, competent, confident, and skilled professionals who will serve humanity in the field of education with pride, devotion, and professional ethical standards.

Degree Programs:

Currently, the Department of Education is offering following programs:

- 1 PhD (Education)
- 2 MS (Education)
- 3 B.Ed. (Secondary)
- 4 B.Ed.

Board of Faculty Meeting:

The meeting of the Board of Faculty was held on July 9, 2021.



Department of Education

Dr. Stephen John

Chairperson



No one can deny the importance of Education. The founder of Pakistan Quaid-e-Azam, Mohammad Ali Jinnah, said at the Pakistan Educational Conference held on November 27, 1947, in Karachi, "Without Education, it is complete darkness, and with Education it is light. Education is a matter of life and death for our nation. The world is moving so fast that if you do not educate yourselves, you will be not only completely left behind, but will be finished up..."

Keeping in view the Quaid's message and the need of the time, the Department of Education is offering programs to equip prospective teachers/builders of the nation with comprehensive knowledge and professional skills and developing enthusiasm for research education-related issues. The Faculty members are committed and have professionalism along with competence in teaching, learning, and research. They strive to develop the qualities like devotion, love, determination, and service to humanity in the students intending to become teachers. They try their best to make sure that students acquire knowledge and skills to make the best use of this opportunity of being students of SMIU.

Strength of Students:

ADMISSION		
Semester	Program	No. of Students
Fall 2021	B.Ed. 2 Years	4
	B.Ed. 2.5 Years	1
	Bachelor of Education	4
	MS Education	25
	PhD Education	16
Spring 2022	B.Ed. 2 Years	3
	B.Ed. 2.5 Years	3



Introduction

The Department of Education comprises highly qualified, professionally trained, dedicated, and skilled teachers with leadership qualities. The curriculum has been designed to meet future challenges in the field of education and to fill the gap with technological innovations of experienced and motivated educationists. The department has established a robust research tradition through study projects and publications. It strives to produce competent, loyal, and communicated professionals who would serve the nation with dedication, devotion, and professional, ethical standards.

The Department offers the following degree programs:

Bachelors of Education (B.Ed) 4 Years

Bachelors of Education (B.Ed) 2 Years

Bachelors of Education (B.Ed) 1.5 Years

Master of Science in Education (MS)

Doctor of Philosophy of Education(Ph.D.)

Bachelor of Education(B.Ed.) and BS (Education)

Scope of the Program

This program is launched to prepare prospective teachers for secondary teaching. It aims to prepare them for teaching literacy and local and global methodologies and expose them to current trends in the field of teacher education. Keeping in view the scope of the program following are objectives set:

1. Develop global knowledge and understanding of fostering critical and rational thinking.
2. Acquire competencies relevant to pedagogy, curriculum development and its transition.
3. Promote digital literacy among learners to take ownership of teaching and learning.

MS (Education): The department offers Master of Science (MS) in Education is a two-years degree program. It is specially designed to prepare students for scholarly research and for university teaching positions. After successful completion of MS degree, the students desirous of further studies may enroll themselves in PhD program.

Doctor of Philosophy (PhD) in Education To prepare professionals with advance research skills and to meet the local and global needs of society, SMIU offers an in-depth research based Ph.D. program in education. This program

is suitable for those who are currently working in various capacities including educational planning manager, research editor, project manager, and academician. Research scholars will be able to advance their research methods skills and will learn to apply it to resolve contemporary issues of education through innovation. Our program is designed to promote intellectual openness and critical thinking through the integration of modern educational theories and networking skills.

Graduates will be prepared to fill faculty and research positions at various national and international institutions to conduct small and large-scale educational researches and bring innovative interventions. Upon successful completion of program, graduates are expected:

- a. To be prepared for employment in research or faculty positions at top-tier research institutions or higher education institutions.
- b. Contribute to the interdisciplinary public discourse on education.
- c. Engage in evidence-based practices through the application of rigorous methodologies.
- d. Link educational research to policy and practices.
- e. Provide leadership in the field of education by developing an independent line of ethical and culturally responsive research.
- f. Contribute to the development of the nation to solve challenges.

Scope

The critical and analytical faculties are required in the higher inter-disciplinary fields of research pertaining to education.

It is heavily dependent on the overall state of education in Pakistan. With the passage of time, more developments have taken place in the field of education.

Department of education has three faculty members holding a PhD in Education with different areas of specialization. A PhD in Education is the highest conferred degree, which has varieties of scope for the future. The scholars will be equipped with knowledge and skills to understand and apply their learning in multidisciplinary fields. They will be able to get positions in government, non-governmental organizations, as a curriculum designer, educational planner, and researcher and policy makers. Furthermore, there are many societal challenges, which can be resolved through research-based interventions by educationists.

Bachelors of Education (B.Ed) 4 Years

B.Ed. (Hons.) 04 Year (Secondary) Degree Program Scheme of Studies

Program Detail	
Pre-requisite	12-Year Education, Minimum 45% Marks
Duration	04 Year
Semester	08
Credit Hours	142

Program Courses Requirement	
Status Courses	No of Courses
Compulsory	07
Foundation	06
Content	14
Professional	11
Professional (Teaching Practice)	04
Elective Supportive Area	06
Total	48

CURRICULUM STRUCTURE

SEMESTER I

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU311	Islamic Studies/Ethics	Compulsory-1	02
2	EDU321	English (Reading & Writing Skills)	Compulsory-2	03
3	EDU331	Foundations of Education	Foundation-1	03
4	EDU341	Information and Communication Technology (ICT) in Education	Foundation-2	03
5		To be selected from Discipline-I	Content-I	03
6		To be selected from Discipline-I	Content-II	03
Total Number of Credit Hours				17

SEMESTER II

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU312	English (Composition Writing)	Compulsory-3	03
2	EDU322	Mathematics	Compulsory-4	03
3	EDU332	Critical Thinking and Reflective Practices	Professional-1	03
4	EDU342	Human Development and Learning	Foundation-3	03
5		To be selected from Discipline-II	Content-III	03
6		To be selected from Discipline-II	Content-IV	03
Total Number of Credit Hours				18

SEMESTER III

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU411	Pakistan Studies	Compulsory-5	02
2	EDU421	School Community and Teacher	Professional-2	03
3	EDU431	Introduction to Statistics	Foundation-4	03
4	EDU441	English (Advanced Content)	Supportive-1	03
5		To be selected from Discipline-III	Content-V	03
6		To be selected from Discipline-III	Content-VI	03
Total Number of Credit Hours				17

SEMESTER IV

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU412	Guidance & Counselling	Professional-3	03
2	EDU422	Supervised School Experience/Observation/ Visits	Professional-4	03
3	EDU432	Urdu (Advanced Content)	Supportive-2	03
4	EDU442	Pakistan Studies (Advanced Content)	Supportive-3	03
5		To be selected from Discipline-IV	Content-VII	03
6		To be selected from Discipline-IV	Content-VIII	03
Total Number of Credit Hours				18

SEMESTER V

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU511	English(Technical Writing & Presentation Skills)	Compulsory-6	03
2	EDU521	Islamic Education (Advanced Content)	Supportive-4	03
3	EDU531	General Mathematics (Advanced Content)	Supportive-5	03

4	EDU541	Teaching Practice (Short Term)	Professional-5	03
5		To be selected from Discipline-V	Content-IX	
6		To be selected from Discipline-V	Content-X	
Total Number of Credit Hours				18

SEMESTER VI

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU512	Philosophy of Education	Professional-6	03
2	EDU522	Educational Psychology	Professional-7	03
3	EDU532	Human Rights Education	Professional-8	03
4	EDU542	General Teaching Methods	Professional-9	03
5		To be selected from Discipline-VI	Content-XI	03
6		To be selected from Discipline-VI	Content-XII	03
Total Number of Credit Hours				18

SEMESTER VII

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU611	Educational Assessment and Evaluation	Professional-10	03
2	EDU621	Curriculum Development	Foundation-5	03
3	EDU631	Computer Literacy	Compulsory-7	
4	EDU641	Research Methods in Education	Professional-11	03
5		To be selected from Discipline-VII	Content-XIII	03
6		To be selected from Discipline-VII	Content-XIV	03
Total Number of Credit Hours				18

SEMESTER VIII

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU612	Inclusive Education	Professional-12	03
2	EDU622	Teaching Practice (Final)	Professional-13-14	06
3	EDU632	Educational Leadership & Organizational Behavior	Professional-15	03
4	EDU642	General Science (Adv. Pedagogy)	Supportive-6	03
5	EDU652	Research Project	Foundation-6	03
Total Number of Credit Hours				18

* All courses are of 03 credit hour value except Long-term Practicum, i.e., 06 Cr. Hr.

DISCIPLINES FOR CONTENT AND PEDAGOGY COURSES

The following discipline/specialization/content course groups would be offered as content.

Note: The discipline would be offered if at least ten students opt for it in semester five.

Content Courses

Discipline-I (Social Sciences)

S No	Course Code	Course Title	Credit Hours
1	EDU351	Sociology	03
2.	EDU361	Political Science	03
3.	EDU371	Psychology	03
4.	EDU381	Philosophy	03

Discipline-II (Sciences)

S No	Course Code	Course Title	Credit Hours
1	EDU352	General Science	03
2.	EDU362	Biology	03
3.	EDU372	Chemistry	03
4.	EDU782	Physics	03

Discipline-III (Art)

S No	Course Code	Course Title	Credit Hours
1	EDU451	History	03
2.	EDU461	Geography	03
3.	EDU471	Introduction to Mass Communication	03
4.	EDU481	Personal Management	03

Discipline-IV (Economics)

S No	Course Code	Course Title	Credit Hours
1	EDU452	Economics	03
3	EDU462	Principles of Commerce	03
4	EDU472	Entrepreneurship	03
5	EDU482	Principles of Management	03

Discipline-V (Language & Literature)

S No	Course Code	Course Title	Credit Hours
1	EDU561	Introduction to Linguistics	03
2	EDU571	Introduction to Literature	03
3	EDU581	Psycholinguistics	03
4	EDU591	History of Language & Literature	03

Discipline-VI (Natural Sciences)

S No	Course Code	Course Title	Credit Hours
1	EDU562	Agriculture	03
2	EDU572	Environmental Science	03
3	EDU582	Introduction to Earth Sciences	03
5	EDU592	Disaster Risk Management	03

Discipline-VII (General Group)

S No	Course Code	Course Title	Credit Hours
1	EDU661	Human Resource Management	03
2	EDU671	Introduction to International Relation	03
4	EDU681	Cultural Heritage, Tourism, and Development	03
5	EDU691	Introduction to Anthropology	03

List of Advanced Content for Electives in Supportive Areas

S No	Course Title	Credit Hours
1	English	03
2	Urdu	03
3	Pakistan Studies	03
4	Islamic Education	03
5	General Mathematics	03
6	General Science	03
7	Physics	03
8	Chemistry	03
9	Biology	03
10	Computer Science	03

Bachelors of Education (B.Ed) 2 Years

Program Detail	
Pre-requisite	14-Years Education, Minimum 45% Marks
Duration	02 Years
Semester	04
Credit Hours	84

Program Courses Requirement	
Status Courses	No of Courses
Compulsory	02
Foundation	04
Content	06
Professional	10
Professional (Teaching Practice)	03
Elective Supportive Area	03
Total	28

CURRICULUM STRUCTURE

SEMESTER I

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU511	English(Technical Writing & Presentation Skills)	Compulsory-1	03
2	EDU521	Islamic Education (Advanced Content)	Supportive-1	03
3	EDU531	General Mathematics (Advanced Content)	Supportive-2	03
4	EDU541	Teaching Practice (Short Term)	Professional-1	03
5	EDU551	Elements of Education	Professional-2	03
6		To be selected from Discipline-V	Content-I	03
7		To be selected from Discipline-V	Content-II	03
Total Number of Credit Hours				21

SEMESTER II

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU512	Philosophy of Education	Professional-III	03
2	EDU522	Educational Psychology	Foundation-I	03
3	EDU532	Human Rights Education	Foundation-II	03
4	EDU542	General Teaching Methods	Professional-IV	03
5	EDU552	Global Studies in Education	Professional-V	03
6		To be selected from Discipline-VI	Content-III	03
7		To be selected from Discipline-VI	Content-IV	03
		ICT & Guidance and Counselling (Extra)		
Total Number of Credit Hours				21

SEMESTER III

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU611	Educational Assessment and Evaluation	Professional-VI	03
2	EDU621	Curriculum Development	Foundation-III	03
3	EDU631	Computer Literacy	Compulsory-2	03
4	EDU641	Research Methods in Education	Professional-VII	03
5	EDU651	Perspectives on Teacher Education	Professional-VIII	03
6		To be selected from Discipline-VII	Content-V	03
7		To be selected from Discipline-VII	Content-VI	03
Total Number of Credit Hours				21

SEMESTER IV

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU612	Inclusive Education	Professional-IX	03
2	EDU622	Teaching Practice (Final)	Professional-X-XI	06
3	EDU632	Educational Leadership & Organizational Behavior	Professional-XII	03
4	EDU642	English (Adv. Pedagogy)	Supportive-III	03
5	EDU652	Research Project	Professional-XIII	03
6	EDU662	Textbook Development	Foundation-IV	03
Total Number of Credit Hours				21

* All courses are of 03 credit hour value except Long-term Practicum i.e. 06 Cr. Hr.

DISCIPLINES FOR CONTENT AND PEDAGOGY COURSES

The following discipline/specialization/content courses groups would be offered as content. Note: The discipline would be offered if at least 10 students opt it in semester five.

Advance Content Courses

Discipline-V (Language & Literature)

S No	Course Code	Course Title	Credit Hours
1	EDU561	Introduction to Linguistics	03
2	EDU571	Introduction to Literature	03
3	EDU581	Psycholinguistics	03
4	EDU591	History of Language & Literature	03

Discipline-VI (Natural Sciences)

S No	Course Code	Course Title	Credit Hours
1	EDU562	Agriculture	03
2	EDU572	Environmental Science	03
3	EDU582	Introduction to Earth Sciences	03
4	EDU592	Disaster Risk Management	03

Discipline-VII (General Group)

S No	Course Code	Course Title	Credit Hours
1	EDU661	Human Resource Management	03
2	EDU671	Introduction to International Relation	03
3	EDU681	Cultural Heritage, Tourism and Development	03
4	EDU691	Introduction to Anthropology	03

List of Advanced Content for Electives in Supportive Areas

S No	Course Title	Credit Hours
1	English	03
2.	Urdu	03
3.	Pakistan Studies	03
4.	Islamic Education	03
5.	General Mathematic	03
6.	General Science	03
7.	Physics	03
8.	Chemistry	03
9	Biology	03
10	Computer Science	03

Bachelors of Education (B.Ed) 1.5 Years

Scheme of Studies

Program Detail	
Pre-requisite	16-Years Education, Minimum 45% Marks
Duration	1.5 Years
Semester	03
Credit Hours	54

Program Courses Requirement	
Status Courses	No of Courses
Compulsory	01
Foundation	04
Content	03
Professional	07
Professional (Teaching Practice)	01
Elective Supportive Area	02
Total	18

CURRICULUM STRUCTURE

SEMESTER I

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU512	Philosophy of Education	Professional-I	03
2	EDU522	Educational Psychology	Professional-II	03
3	EDU532	Human Rights Education	Foundation-I	03
4	EDU542	General Teaching Methods	Professional-III	03
5	EDU552	To be selected from Discipline-VI	Content-I	03
6	EDU562	To be selected from Discipline-VI	Content-II	03
Total Number of Credit Hours				18

SEMESTER II

S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU611	Educational Assessment and Evaluation	Professional-IV	03

2	EDU621	Curriculum Development	Foundation-II	03
3	EDU631	Computer Literacy	Compulsory	03
4	EDU641	Research Methods in Education	Professional-V	03
5		To be selected from Discipline-VII	Content-III	03
6		To be selected from Discipline-VII	Elective-I	03
Total Number of Credit Hours				18

SEMESTER III				
S. No	Course Code	Course Title	Type of Course	Credit Hours
1	EDU612	Inclusive Education	Professional-VI	03
2	EDU622	Teaching Practice (Final)	Professional-VII	03
3	EDU632	Educational Leadership & Organizational Behavior	Professional-VIII	03
4	EDU642	General Science (Adv. Pedagogy)	Elective-II	03
5	EDU652	Research Project	Foundation-III	03
6	EDU662	Textbook Development	Foundation-IV	03
Total Number of Credit Hours				18

* All courses are of 03 credit hour value except Long-term Practicum i.e. 06 Cr. Hr.

DISCIPLINES FOR CONTENT AND PEDAGOGY COURSES

The following discipline/specialization/content courses groups would be offered as content. Note: The discipline would be offered if at least 10 students opt it in semester five.

Advance Content Courses

Discipline-VI (Natural Sciences)

S No	Course Code	Course Title	Credit Hours
1	EDU562	Agriculture	03
2.	EDU572	Environmental Science	03
3.	EDU582	Introduction to Earth Sciences	03
5.	EDU592	Disaster Risk Management	03

Discipline-VII (General Group)

S No	Course Code	Course Title	Credit Hours
1	EDU661	Human Resource Management	03
2.	EDU671	Introduction to International Relation	03
4.	EDU681	Cultural Heritage, Tourism and Development	03
5.	EDU691	Introduction to Anthropology	03

List of Advanced Content for Electives in Supportive Areas

S No	Course Title	Credit Hours
1	English	03
2.	Urdu	03
3.	Pakistan Studies	03
4.	Islamic Education	03
5.	General Mathematic	03
6.	General Science	03
7.	Physics	03
8.	Chemistry	03
9	Biology	03
10	Computer Science	03

Master of Science (Education) 2 Years Program

CURRICULUM STRUCTURE

Pre-requisite	16-Years academic Qualification with Specialization in Education
Duration	2-Years
Semesters	3
Courses	8 (24 Cr Hours)
Thesis	(6 Cr Hours)
Total Credit Hours	30

CURRICULUM PLAN

FIRST SEMESTER

S. No	Course Code	Course Title
1	EDU701	Qualitative Research Methods in Education
2	EDU702	Advanced Educational Psychology
3	EDU703	Trends and Issues in Education
4	EDU721	Quantitative Research Methods in Education

SECOND SEMESTER

S. No	Course Code	Course Title
1	EDU722	Total Quality Management in Education

2	EDU731	Governance and Sustainable Development in Education
3	EDU732	Designing Research Proposal
4		Electives Group (Any One to be selected by the students)

Note: The students will be having option to opt research thesis or to choose any of the two (02) courses from the Optional Group Electives.

THIRD AND FOURTH SEMESTER

S. No	Course Code	Course Title
	EDU741	Thesis
Or		
1		Electives Group (Any One to be selected by the students) 3rd Semester
2		Electives Group (Any One to be selected by the students) 4th Semester

OPTIONAL GROUP ELECTIVES

S. No	Course Code	Course Title
1	EDU733	Principles and Techniques of Educational and Vocational Guidance and Counseling
2	EDU734	Educational Planning and Development
3	EDU735	Educational Administration and Supervision
4	EDU736	Management in Education
5	EDU737	Advanced ICT in Education
6	EDU738	Curriculum Planning and Development
7	EDU739	Citizenship Education
8	EDU740	Advanced Human Rights Education

Doctor of Philosophy in Education Ph.D 3 Years

CURRICULUM STRUCTURE

Pre-requisite* &**	MS/M.Phil. (Education)
Duration	3-Years
Semesters	06
Coursework	06 (18 Credit Hours)
Dissertation	Rest of the time will spend on research work (30 Credit Hours)

* Applicants having background other than education could also join Ph.D. Education program after qualifying five (05) bridging courses of 15 credit hours given in the list below.

** Applicant having MS (Education) with coursework will have to do Independence Study (Deficiency) to be eligible for PhD

CURRICULUM PLAN

1st Semester

S. No.	Course Code	Course Title	Credit Hours
1.	EDU811	Applied Qualitative Educational Research	03
2.	EDU821	Applied Quantitative Educational Research	03
3.		Specialization-I (To be chosen from the list attached)	03

2nd Semester

S. No.	Course Code	Course Title	Credit Hours
1.		Specialization-II (To be chosen from the list attached)	03
2.		Specialization-III (To be chosen from the list attached)	03
3.	EDU872	Independent Study	03

3rd – 6th Semester

S. No.	Course Code	Course Title	Credit Hours
1.		Comprehensive Examination and Research Proposal	—
2.		Thesis	30

LIST OF ELECTIVES FOR SPECIALIZATION

Educational Leadership

S. No.	Course Code	Course Title	Credit Hours
1.	EDU831	Management and Leadership in Education	03
2.	EDU841	Human Resource Management in Education	03
3.	EDU851	Organization and Governance of Educational Institutes	03
4.	EDU861	Entrepreneurship and Marketing in Education	03
5.	EDU871	Contemporary Issues in Educational Leadership	03
6.	EDU881	Administration and Management in Education	03

Curriculum Development

S. No.	Course Code	Course Title	Credit Hours
1.	EDU812	Curriculum Theories	03
2.	EDU822	Curriculum Design and Implementation	03
3.	EDU832	Designing School Curriculum	03
4.	EDU842	Curriculum and Program Evaluation	03

5.	EDU852	Designing Curriculum for Staff Development Program	03
6.	EDU862	Textbooks Development	03

List of Bridging Courses

S. No.	Course Title	Credit Hours
1	Management in Education (EDU736)	03
2	Advanced Educational Psychology (EDU702)	03
3	Advanced ICT in Education (EDU737)	03
4	Elements of Education (EDU551)	03
5	Educational Assessment and Evaluation (EDU611)	03



Support Units

Library:



The Khan Bahadur Hassanally Effendi Library functions as central library of SMI University. It is located in a historic building, which was constructed in 1898 as the Principal's Residence. It has several air-conditioned reading halls provided with reader-friendly environment and equipments as well as open access book shelves.

This colonial era building has calm study atmosphere, which attracts users to spend their leisure time there. For the interest of scholars, researchers, historian and others, the library has several rare books from the pre-independence period. For the convenience of readers the library has been divided into four sections: digital resource centre, undergraduate, archives and research and reference.

The Library is also connected with Higher Education Commission of Pakistan's (HEC) digital library and has free access to full text e-books, PhD theses and research journals. The Library provides different services to university students, which include book borrowing, referencing, access to e-books and access to a wide collection of research journals, newspapers and magazines.

SMIU has recently established a new library in the I.T. Tower.

Digital Library:

HEC National Digital Library program provides access to high quality, peer-reviewed journals, databases, articles and e-Books across a wide range of disciplines. More than 140,000 electronic contents have been made available for students.

TV Studio (www.smiu.tv):



SMIU has developed a modern TV Studio that provides students state-of-the-art video and audio production training, tools, and support. It is an up-to-date facility that incorporates today's digital and HD technology into a live to tape work flow format. The Production Control Room houses the nerve centre of the facility with its LCD multi view monitor, and the digital video switcher - vision mixer with chroma key. The studio floor has been fitted with digital HD cameras, branded tripods and a professional lighting grid. Students get hands on training in this latest facility and perform behind as well as in front of camera.

FM Radio 96.6 (www.smiu.fm):



Realizing the importance of 21st century academic standards in Media Studies, SMI University has established its own FM Radio Studio in 2013 which was upgraded to Live On-Air FM Radio Station in July, 2014 and it was awarded an FM License by PEMRA. FM 96.6 was thus founded with an aim to educate students in particular and serve community in general. This non-commercial radio station (FM 96.6) has two studios separated by sound-proofed glass windows. Both studios have state-of-the-art equipments with allied audio gears.

FM 96.6 works in alignment with the vision of SMI University. It broadcasts variety of programs mainly relating to education, career counseling, health, infotainment, business, sports and SMI Alumni's shows etc. SMI Radio FM 96.6 is being operated largely by the university students with the help of university's professional staff. This radio station provides hands on training to students in audio-production; script writing, anchoring and editing. It aims to offer distance learning programs in future.

SMIU Media Training Center (MTC):



SMIU has launched a professional development program catering to media industry. The center offers a range of specialized training courses with the aim of developing and polishing professional skills amongst individuals who are already serving or aspire to pursue their career in media sector.

In today's intense competitive arena of electronic and print media, it is imperative for a serving professional or an aspiring individual to effectively perform in order to build brand equity and avoid the risk of reputational damage.

Office of information technology (OIT):



This office looks after the provision of all the facilities relating to IT to faculty and students. It has 110Mbps PERN link for providing Internet and Email facility to all faculty, staff and students. Campus is also equipped with the latest

Video Conferencing Facility. Wi-Fi service is available to all students throughout the campus.

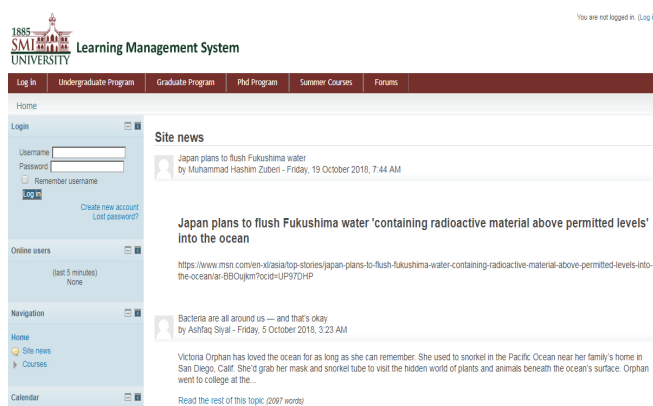
Campus Management Solution (CMS) is the most responsive and comprehensive student administration system which covers all the phases of student life cycle at the university' right from his/her admission till he/she graduates and becomes an alumnus.

Student Application Management System (SAMS) is a web portal for students to submit their applications for intended departments of the university. Students can track the progress of their applications instead of visiting departments.

The office also operates separate Computer Labs for each department, where latest Corei7 branded computers are installed. Students and teachers use these Labs for IT courses included but not limited to Programming Languages, Database, and Graphic Designing etc. In addition to that all computer labs are equipped with modern Smart Boards and Multimedia projectors to enhance students learning experience.

At SMIU every effort is taken to use modern technology tools for teaching purposes. One such technology is SMART Boards, which behave like touch screen. Smart Board technology facilitates in delivery of lectures and presentations just like an input device.

Learning Management System:



SMIU has a very sophisticated Learning Management System (LMS). It is an interactive student interface to support students' learning outside classrooms. It assists teachers as well as students to exchange classroom materials, assignments and grades for smooth review and updating of records. Students notices, an announcements for faculty members, handouts and other information for

students is shared via this portal to assist the process of effective teaching and learning. The key feature of LMS is easy access to learning material which provides information just a click away.

LMS enables teachers to take the best aspects of their classroom practices and transfer that into a home teaching and learning environment. As it is web based, staff and students alike have 24 hour access to resources and activities, allowing learning at distance as well.

Auditorium:



The institution has an air-conditioned and state-of-the-art auditorium named after one of its illustrious alumni, Sir Shah Nawaz Bhutto. It is located in the Main Building and is used for addresses and lectures by distinguished guests and scholars. The place is used by students for programs like debates, declamation contests, quiz competitions, drama and variety of other functions.

Jinnah Museum:



Jinnah Museum and Archives are located in the Main Building. The Museum contains the relics associated with the founder of Sindh Madressah, Khan Bahadur Hassanally Effendi, educational records of Quaid-e-Azam Mohammad Ali Jinnah and other alumni. Additionally, the important preserved record of Sindh Madressah is also displayed there. In addition to Museum, digital archival section has been established, which is digitally copies and preserves old records relating to the institution.

Office of Research, Innovation, and Commercialization (ORIC):



The SMI University has also established the office of Research, Innovation and Commercialization (ORIC) in accordance with the guidelines issued by the Higher Education Commission of Pakistan. The office has been established with basic objectives of developing, expanding, enhancing and managing the University's research program as well as to link the research activity with the educational, social and economic priorities of the country. In addition to these basic objectives, ORIC also ensures that the quality of research conducted at SMIU reflects the highest international research standards and promote the standing of the university amongst the community of research institutions all over the world.

The vision of the ORIC is to foster excellence, achieve international recognition by kindling inventiveness, creativity, and innovation in the minds of our researchers and making their product commercially viable.

ORIC explores research funding opportunities for stimulating research activities among faculty and students at national and international level. Its mission is to make SMIU, a center for innovative concepts and its execution by positively contributing in the development of research leadership and to play their role in transforming the economic, academic, and social primacies of the university and its wider community for a better tomorrow.

ORIC provides a complete platform to the researchers and augments their research skills from working bench to a furnished product. ORIC also provides services related to research and development, innovation, industrialization, commercialization, collaborations, seminars, workshops and submission and approval of research projects. ORIC will develops industry linkages to transform pure knowledge into products.

ORIC has also established Incubation Center (IC) to promote entrepreneurship and convert innovative ideas into business venture.

Quality Enhancement Cell (QEC):

SMI University has established Quality Enhancement Cell



(QEC) in pursuance of the Higher Education Commission of Pakistan's policy. It is a parallel body with the university directly reporting to the Vice Chancellor. The Cell is headed by a Director, having degree of PhD, who is also the focal person for correspondence with the external Higher Education Institutions. The Cell constantly reviews quality of teaching and learning in all the academic departments of the university.

The Cell has also been made responsible to develop criteria for grant of various degrees, starting from undergraduate programs to doctoral level, and set out the attributes and abilities that could be expected from the holder of such qualification. Various affiliations have been acquired by QEC to sustain academic quality in this competitive arena.

To generate insights into institutional quality improvements, Teacher & Course Evaluation Survey, Alumni/Employee Survey, and Student Satisfaction Survey were amongst the recent initiatives planned by QEC.

Directorate of Students Affairs and Counselling:

The Directorate of Students Affairs and Counselling has been established with an aim to facilitate students in the provision of better opportunities regarding their welfare, search for



placement and job postings, extending full support in the participation of co-curricular and extra-curricular activities as well as planning and organizing sports activities within the campus. The Directorate comprises of three Students Welfare Officers, one Sports Officer and they all report to the Manager of Students Affairs. The department serves as the bridge between the higher management and SMIU students, ensuring that students' issues and complaints get resolved within stipulated timeframe. The Directorate also looks after the functioning of the SMIU students' societies which include Debating Society, Science Society, Sports Society, Community Service Society, Literary Society and Art Society. The representative for these students societies are elected once in a year through a fair election process being conducted by the Students Affairs department. These student bodies also prepare their annual activity calendar the execution of which is facilitated by the Directorate of Students Affairs. Furthermore, the Directorate also plans various leadership programs for students whereby the Ambassadors use to get selected through a fair competitive process including a written NTS Test, Public Speaking competition followed by a panel interview. The students who use to be selected through this process gets an opportunity to represent the university at either National or International level. In a nut shell, the Directorate of Student Affairs plays an integral role in the overall development and upbringing of the students who are enrolled in SMIU.

Senate Hall:

SMIU has a Senate Hall, which is equipped with modern facility to conduct online sessions also. It is located in Main



Building. Whereas the other video conferencing hall is available at Talpur house, which has capacity up to 60 participants in classroom style. Prime objective of this facility is to enhance students learning in regular classrooms through the use of collaborations with other remotely distributed students, community experts, and distributed learning resources. It is supported by Cisco Tele Presence Content Server to record. Lectures, workshops and conferences are conducted on regular basis to enhance skills of students.

Playground:



SMIU has a large playground. Through the course of its 138 years of history, SMIU has produced several great sportsmen including Little Master Hanif Muhammad, who has been a legend of his times in cricket..

Medical Services:



The University provides emergency medical services for the students, staff and faculty members. The unit works under supervision of campus medical officer assisted by well qualified support staff during the working hours of the university. In cases requiring serious medical attention, the patients are sent to the Civil Hospital, a government-run facility, which is located few kilometers away from the campus of SMIU.



Mosques/ Prayer Rooms:



A unique feature of the institution is presence of two mosques, for Sunni and Shea students and faculty. Both of these mosques are over a century old and are located a few yards away from each other within the premises of the institution.

Other Facilities:



In addition to above features and facilities, the university has a girls' common room for female students to relax during their free time, a canteen that provides quality food and beverage items at subsidized cost to students.

Admission Procedure and Requirements

SMIU strongly believes on transparent admission system.

Admissions are offered to all those students who qualify a strict merit-based admission criterion irrespective of their races, religions, gender, ethnicity and socio - economic background.

Applications received for admission in various programs are reviewed by the admission department. The applicants are required to appear in admission test and interview. The final merit is determined on the basis of past academic performance, score obtained in the admission test and performance in the interview.

Admissions are awarded purely on merit basis and there are no reserved / quota seats for any category at SMIU.

Admission Procedure:

Candidate can Apply Online at www.admission.smiu.edu.pk or at SMIU App available at Play Store and follow the instructions carefully or may visit admission office during office hours Before filling the form, candidates are advised to have access to all previous academic documents so that application can be completed timely. After filling the form, a fee voucher (Application Processing Fee) will be available to the candidate for printing. Candidate can submit the fee voucher at any HBL branch.

Documents Required Along with Admission Form (Online):

1. Paid Fee Challan (Admission processing fee).
2. CNIC
3. SSC Mark sheet (For Undergraduate programs only)
4. HSC Mark sheet (For Undergraduate programs only)
5. BS/BBA/M.Com/M.A/MSc (relevant 16- years education transcript) (For Graduate programs only)
6. MS/M.Phil. /MBA (relevant 18-years transcript) (For Postgraduate programs only)

Duly filled admission form will be scrutinized by the concerned department as per criteria and applicants will be able to download Admit Card, Prospectus and Sample Test Paper once their admission application has been approved.

Test

On-Campus, computer based tests (CBT) will be conducted for Undergraduate applicants. Final test time and date will be communicated via text message and email.

No admission test will be conducted for Graduate and Postgraduate students as they are required to submit NTS results before the conclusion of 1st semester, otherwise they would not be allowed to enroll in 2nd semester.

Interview

Interviews will be conducted for all Graduate and shortlisted undergraduate students. Final admission schedule will be communicated via email and text message



Post-Admission Document Submission

Documents	Undergraduate	Graduate	Postgraduate
Original paid fee voucher (1st Semester Fee)	√	√	√
Two recent photographs (Passport Size with white background)	√	√	√
Copy of Computerized National Identity Card or NADRA form or Form B. (in case minor applicant)	√	√	√
Copy of Domicile Certificate & PRC of the candidate.	√	√	√
H.S.C. Part- I & II Passed Mark Sheets & Certificates. O Level & A level final result with an equivalency certificate (issued by IBCC)	√	√	√
Character Certificate	√	√	√
Admit Card of last exam attended	√		
Bachelor's Mark Sheet & Degree		√	√
of Master's Transcript & Degree		√	√
MS/Mphil (or equivalent) Transcript & Degree			√

Note: Documents must be attested with Gazetted Officer.

Admission Policy

- The application should be supported by all relevant documents and admission fees as mentioned in the application fee voucher.
- All received applications shall be scrutinized for eligibility as per criteria
- All eligible applicants shall be assessed by written test and interview.
- Final Merit list shall be based on following criteria: 10% Matric, 40% Intermediate, 40% Entrance Test Marks, and 10% Interview.
- Admission offer letters shall only be sent to successful candidates.
- The selected candidates shall be required to register before the deadline mentioned in the offer letter; failure to do so shall result in the cancellation of his / her admission

Note:

Candidates with valid NTS/HAT (NAT/ GAT) test are however exempted from SMI University admissions aptitude test for Undergraduate, Graduate programs, and post graduate program. (within 2 years' validity)

Result awaited students:

Applicants, who have appeared in inter / degree level or prerequisite level examination prescribed for admission in a program and are waiting for results will be allowed to apply for admission. These students will be offered provisional admission and they will be given confirm admission only after if they submit copy (attested) of Marks sheet / Transcript before the first semester's final examination.

They will also be required to submit an undertaking that they understand the rules/policies of the admissions and that if they fail to meet minimum eligibility criteria of admission and did not submit the required documents within prescribed time and if university found any forgery in the submitted documents then university has reserved the rights to cancel their admission without any notice.

Minimum Criteria and Seat Allocation (Open Merit)

Sr.	Morning			Evening/Weekend		
	Program	No. of Seats (Open Merit)	Minimum Percentage / CGPA	Program	No. of Seats (Open Merit)	Minimum Percentage / CGPA
1	BS-Computer Science	180	50%	BS-Computer Science	40	50%
2	BS-Software Engineering	140	50%	BS-Software Engineering	40	50%
3	BS-Artificial Intelligence	80	50%	-	-	-
4	BS-Mathematics	40	50%	-	-	-
5	BBA	160	50%	BBA	40	45%
6	BBA-2 years	40	45%	BBA-2 years	40	45%
7	BS-Accounting & Finance	40	50%	-	-	-
8	BS-Media Studies	40	50%	-	-	-
9	BS-Development Studies	40	45%	-	-	-
10	BS-English	40	45%	-	-	-
11	B.Ed. (4 years)	40	45%	-	-	-
12	B.Ed. (2 years)	40	45%	B.Ed. (2 years)	40	45%
13	B.Ed. (1.5 years)	40	45%	B.Ed. (1.5 years)	40	45%
14	BS-Environmental Sciences	40	45%	-	-	-
15	BS-Entrepreneurship	40	45%			
16	BS-Banking and Finance	40	45%			
17	BS - Public Administration	40	45%			
18	BS - Economics	40	45%	MS-Management Science (1.5 years)	30+30	50% / 2.5
19	BS - Commerce	40	45%	MS-Public Administration	30+30	50% / 2.5
20	BS - IT	40	50%	MS-Education	30+30	50% / 2.5
21	BS - Cyber Security	40	50%	MS-Media Studies	30+30	50% / 2.5
22	BS - Data Sciences	40	50%	MS-Mathematics	30+30	50% / 2.5
23	BS - Sociology	40	45%	MS-Computer Science	30+30	50% / 2.5
24	BS - Food Science and Technology	40	45%	MS-Environmental Sciences	30+30	50% / 2.5
25	BS - Climate Change	40	45%			
26						
27				MBA (2 years)	30+30	50% / 2.5
28				PhD-Computer Science	-	60% / 3.0
29				PhD-Artificial Intelligence	-	60% / 3.0
30				PhD-Mathematical Science	-	60% / 3.0
31				PhD-Media Studies	-	60% / 3.0
32				PhD-Management Science	-	60% / 3.0
33				PhD-Environmental Sciences	-	60% / 3.0
34				PhD-Education	-	60% / 3.0

Admission on Self-Finance Basis

Sindh Madressatul Islam University is also offering admissions on self-finance basis in following 03 programs:

Sr.	No. of Seats		
	Program	Morning	Evening
1	BSCS	20	5
	BSSE	10	5
	BBA	10	5

Fee Structure

1. Candidates are required to submit Capitation Charges to secure their admission on Self-Finance basis. Following 02 options are available for submission of Capitation charges:
 - a. Lump sum amount of Rs. 200,000/- to be paid at the time of admission.
 - b. 02 equal installments to be paid according to following schedule:
 - i. 1st Installment: At the time of Admissions
 - ii. 2nd Installment: At the start of 2nd semester
2. Other than Capitation charges, students should follow general fee structure as available at <https://www.smiu.edu.pk/admissions/fee-structure>

Terms and Conditions:

1. A candidate may apply for a program on both open merit and self-finance basis, simultaneously.
2. Candidate willing to avail self-finance scheme are required to select self-finance option while filling admission form.
3. Candidates applying for self-finance scheme are required to fulfil all admission requirements (i.e. submission of admission form, admission test, interview) and other requirements.
4. Candidates applying on self-finance basis will be contacted after display of merit list.
5. All other policies, rules and degree requirements will remain same unless specified otherwise.



Fee Structure

Fee Title	Undergraduate	Graduate	Postgraduate
Application Processing Fee	2000/-	2500/-	3000/-
Admission Fee	8000/-	12000/-	25000/-
Security Deposit	10000/-	10000/-	10000/-
Registration / Enrollment Fee (In Each Semester)	1000/-	2000/-	12000/-
Lab / Library Fund (In Each Semester)	3000/- (CS, SE, Med, Env, Food Sci., Climate Change, Data, Cyber, IT) 2500/- (All Others)	4000/-	4000/-
Student Activity Fee (In Each Semester)	2000/-	2000/-	-
Examination Fee (Per Course)	500/-	750/-	1000/-
Tuition Fee (Per Course)	6500/- (CS, SE, BBA, Med) 2750/- (Socio, Dev stud) 5500/- (All Others)	12000/- (All Programs)	15000/- (All Programs)
At the Time of Admission	59000/- (CS) 66000/- (SE, Med) 65500/- (BBA) 54000/- (Data, Cyber, IT) 60000/- (Env, Food Sci., Climate Change) 59500/- (All Others)	68250/- (CS, Math) 81000/- (Mgt, Pub, Med, Edu, Env, MBA 1.5) 106500/- (MBA 2.5)	99000/- (All Programs)
Fee in Subsequent Semesters	41000/- (CS) 48000/- (SE, Med) 47500/- (BBA) 36000/- (Data, Cyber, IT) 42000/- (Env, Food Sci., Climate Change) 41500/- (All Others)		1. Thesis Supervision (Per year) = 30000 2. Thesis Evaluation Fee (Per Evaluator) = 50000 3. Thesis Defence = 20000



Financial Assistance & Rewards



HEC-Need Based Scholarship

HEC-HEC announces Need Based scholarship annually for those students who do qualify their admission in the university but unable to continue because of the financial difficulties.

- » Financial assistance & scholarships are available for the students of undergraduate (4-Years) and graduate (2-Years) programs in all disciplines.
- » The eligibility of a candidate is linked to neediness as determined and assessed by the Institutional Scholarship Award Committee (ISAC) keeping in view the financial background of the family of the applicant and subsequently approved by Scholarship Management Committee (SMC) and Higher Education Commission (HEC) focal person.
- » Undergraduate program students will avail full program tuition fee along with monthly stipend (upto ten months) allocated by HEC.
- » The academic performance of the students is evaluated at the end of each semester. If the required GPA/CGPA is satisfactory, then a student is eligible for promotion to next semester along with the awarded Need Based Scholarship.

Merit Based Scholarship

Merit-Based Scholarships are awarded to enrolled students of all disciplines in each term on the basis of last GPA/CGPA. The Institutional Scholarship Award Committee (ISCA)

scrutinize the top ranking students and award the Merit-Based Scholarships. The awardees adjust their tuition fee as per awarded scholarships, which may be 25%-100% of the total tuition fee.

Ehsaas Undergraduate Scholarship Program

Ehsaas Undergraduate Scholarship Program, 100% tuition fee and is covered, alongwith a monthly stipend of Rs. 4,000/, and is open for all students of 4-5 years undergraduate programs.

Need-Cum Merit Scholarship under Auqaf, Religious Affairs, Zakat & Usher Department:

Being a public sector university SMIU also made correspondence with Auqaf, Religious Affairs , Zakat & Usher Department⁵ and offers its Need-Cum Merit Based Scholarships to their poor & deserving students for make them financially ease.



Pakistan Bait-UI-Mal Need-Cum-Merit Based Scholarship:

SMIU got financial assistance proposal from Pakistan Bait-UI-Mal under the supervision of Cabinet Division Government of Pakistan, the Individual Financial Assistance (Education) for brilliant deserving students.

National Testing Service Of Pakistan (NTS-Pakistan)

NTS Need-Based Scholarship Program has financially strengthen the deserving students by providing opportunities to academically qualified and economically needy students to continue their studies. Scholarships are offered for the students, study at undergraduate and graduate level programs in all disciplines. It is mandatory for an applicant to attempt NTS tests for securing admission.

These are the following NTS Tests:

- » NAT test for admission in Under-Graduate (4-Years) program.
- » GAT (General) test for admission in Graduate (2 Years) program as per admission policy of the University / Institution.

Scotish Scholarship

British Council Pakistan administers this scheme in Pakistan. The Scottish scholarship provides opportunities for young women from disadvantaged backgrounds to study at Masters Level to achieve their ambitions, need help to build a secure future. Pakistan Scottish Scholarship Scheme facilitates the award-holders 100% tuition fee waiver for Masters' courses along with monthly stipend.

Prime Minister's National Laptop Scheme

SMIU facilitates students of all disciplines in distribution of laptops under Prime Minister's National Laptop Scheme. Number of laptops have been awarded to the students of SMIU along with accessories.

Prime Minister's Interest Free Loans Scheme

SMIU also facilitates students by coordinating government officials for the sake of provision of interest free loans to SMIU's needy students.

Other Scholarships:

- Sindh HEC Indigenous Scholarship for MS/PhD scholars
- Sindh HEC Scholarship for students of MBBS/BS/BE

Facilitating scholarships:

- Aaghaz-e-Haqooq-e-Baluchistan Package
- Indigenous PhD Fellowships 5000 Phase-II
- Minority Scholarship



Academic Policy and Calender



Undergraduate Academic Regulation

Academic Year

Spring & Fall Semester

There will be two regular semesters (Fall and Spring) in an academic year. Each semester will spread over 16-18 weeks (inclusive of 1 - 2 weeks for exams).

Students may enroll in any number of courses while keeping minimum enrollment requirements in mind for their respective degree programs.

Summer Semester

A student who has either failed or has been stopped to take the examination due to shortage of attendance or wishes to improve his/her grade is allowed to register in summer semester.

A student will only be allowed to register maximum of 2 courses (6 credit hours).

The contact hours per week during the summer semester will be adjusted accordingly to ensure that the course is

completely taught in a summer session as compared to a regular (Fall/Spring) semester (i.e. total duration will be at least 48 credit hours including final examination).

Academic Load

Undergraduate Students

Students are expected to be enrolled on a full-time basis. To be considered a full-time undergraduate degree candidate, a student must be registered in a minimum of five courses (15 Credit Hours). Students ordinarily are expected to be enrolled in 6 courses (18 credit hours per semester).

Enrollment in fewer than five courses (15 credits) in any regular semester (Fall / Spring) requires advance approval.

Student may enroll for more than 18 credit hours if his/her CGPA is above 3.5 or in case of repeating/failed/dropped course or if he/she is a graduating student.

However, special permission will be required by the Dean to enroll in only one extra course. More than one course cannot be granted.

The SMIU may allow a student to take extra course(s) in a semester depending on unique circumstances of his/her.

Graduate Students

A graduate level student normally enrolls in 3-4 courses for 9-12 credit hours in a regular semester. A graduate student must take at least 9 credit hours in a regular semester to be classified as a full-time student.

Postgraduate Students

Postgraduate level student normally enrolls in 3 courses for 9 credit hours in a regular semester. A Postgraduate student must take at least 9 credit hours in a regular semester to be classified as a full-time student.

The SMIU may allow a student to take extra course(s) in a semester depending on unique circumstances of the student.

Enrollment / Registration in Courses

Students are required to choose the courses they wish to enroll in, prior to the start of a semester. For this purpose the University will publish a schedule for enrolment of students. The students may make any change (add/drop) in the courses they are taking within second week of the semester.

Students may not be allowed to add/drop a course after the end of second week of semester.

Students may be allowed to withdraw from a course during 6th week of the semester (Academic Calendar reflects these dates). In such a case the transcript shall record that the student enrolled in the course and withdrew. Consequently, grade "W" will be awarded to the student, which will have no impact on the calculation of the GPA of the student.

A student withdrawing after the 6th week will be automatically awarded "F" grade, which will be counted in the GPA.

Repeating Courses

If a student gets 'F' grade, s/he will be required to repeat the course or its recommended alternate, if any. However, "F" grade obtained earlier will also be recorded on the unofficial transcript.

- Undergraduate students may be allowed to repeat a course in which s/he has obtained grade below "C". In such a case both the previous and new grade obtained



will be recorded on the unofficial transcript, however, only the better grade shall be used in the calculation of CGPA and in the final transcript. The course will be highlighted with a steric (*) and at the end of the transcript it will be mentioned as “*Improved in subsequent semester (s)”. The SMIU allows maximum number (<6) of courses that student may be allowed to repeat in an eight semesters degree program (undergraduate programs).

- A graduate student (MS/MPhil) with a ‘C’ grade can repeat the course if s/he desires to improve the grade. The SMIU allows maximum number of courses (<3) that a student may repeat at the Graduate level. In such a case, both the course and the grade obtained will be recorded on the unofficial transcript, however, only the better grade shall be calculated in the CGPA.
- In case of CGPA improvement, it would be recorded with “*Improved in subsequent semester (s)” on the unofficial transcript.
- If there is any transcript which has been issued to students without considering above mentioned policies such transcript will be considered void and will resubmit by the students, and new transcript to them will be issued in respect to above mentioned policy.

Academic Attendance

Attendance at lectures, tutorials, practical and field work (wherever necessary) in each course is compulsory for all students and no student shall be eligible to appear at any University Examination unless he/she has attended 75 percent attendance in the course.

Attendance will be counted from the date of the first lecture of the course.

Excessive absences of any course will result in:

First warning for absence of 10% of the class hours.

Second warning for absence of 20% of the class hours.

A failing grade in the course for an absence of 25% of the class hours (as per HEC guidelines).

Exception to absence warning may be made in the case of serious illness or death to an immediate family member if approved by the Dean of the department. In such case, the student will receive a “W” grade in the course and will not be counted in the result GPA/CGPA.



Cancellation of Admission

Admission of a student may be cancelled on following grounds:

- Due to short of attendance or GPA/CGPA after availing 1st, 2nd and 3rd probation in undergraduate and 1st & 2nd probation in graduate programs.
- Failure to re-join regular semester after freeze semester.
- Due to unfair means.
- In case of fee defaulter.
- Student may themselves cancel the admission on their own desire.
- If a student fails to attend any lecture during the first four weeks after the commencement of the semester as per announced schedule, his/her admission shall stand cancelled automatically without any notification.

Freezing of Semester

- If a student freezes a semester(s), s/he will resume his/her studies from the same stage where s/he left (froze). No freezing during the first semester will be allowed. The maximum duration of the degree program shall remain the same.

- A student having GPA/CGPA below 2. (Under graduate) or 2.5 (Graduate) is eligible to apply for freeze of next semester.
- In case a student falls in fee defaulter's list the semester freeze will not be granted, until he/she clears the outstanding dues.
- University dues clearance is mandatory. However, student is also required to submit semester freeze fee which is 10% of the tuition fee of any study program of that semester.
- In case the semester has been frozen within 15 days from the start of the semester, the fee for the frozen semester will be carried forward to next semester in which student is supposed to rejoin. Otherwise, no fee will be carried forward in any case.
- If a student is not enrolled in any course in a semester, s/he will not be considered a regular student of university in that period. The student may then enroll in these courses in a subsequent semester; however, s/he will have to meet pre-requisites of any course taken. In addition, it is understood that the university is not required to offer all courses in each semester.
- In special hardship cases, we may allow freezing a semester on medical ground, Medical certificate must be duly signed by the University Medical Officer or from a reputable hospital.
- The maximum duration of Freezing is one year; a candidate who gets a semester freeze can get re-admission next year with upcoming session but hardship cases can be considered by Controller of Examinations.
- In case a student submits semester freeze request by mistake, he/she will be allowed to withdraw the request within seven (7) days from the date of application.
- Freezing of first two semesters for undergraduate and first semester for graduate is not allowed. Under special *hardship circumstances freezing of first semester can be considered such as • Iddat • Maternity/Delivery • Death in the immediate family • Any other subject to acceptance on justified rationale, or may be decided by Controller of Examinations.

Note: Freezing of Semester will only be allowed after successful completion of 1st Semester as prerequisite as the case may be for other semester's predecessor to the freezing Semester.



Student Assessment

In each semester, students may be required to appear in quizzes, mid-terms, final examinations, presentations, group discussions, and submit projects assignments/lab reports. These assessment marks (to be determined by the teacher concerned) will have different weightage (depending on course to course) contributing towards the overall assessment in percent marks. The weightage is based on following criteria.

Note: In case of Lab based course 25% weight age will be assigned to Lab portion of that course.

There will be no Supplementary/Special examination in a semester system. If a student fails in a course, he/she is required to repeat it. An incomplete grade "I" will be awarded only in exceptional cases beyond the control of a student such as serious accident, family tragedy, and severe health ailments etc.

In the beginning of a semester, the Instructor of each course will hand out the information to students as provided in the "course outlines" that defines attendance policy, grade distribution policy, assessment criteria, paper specification, examination dates, schedule of material to be taught, take home assignment policy, reading material and any other information important for the successful completion of the course.

ACADEMIC CALENDAR – FALL 2023

EVENTS / ACTIVITIES	COMMENCEMENT DATE	CLOSING DATE
Fee Submission	Monday, 31st July 2023	Friday, 18th August 2023
Course Registration	Friday, 25th August 2023	Friday, 8th September 2023
Commencement of Classes	Monday, 11th September 2023	Sunday, 7th January, 2024
Add /Drop /Withdrawal /Freezing Courses/ Semester	Monday, 11th September 2023	Monday, 25th September 2023
Mid-Term Examinations	Monday, 6th November 2023	Sunday, 12th November 2023
Final Term Examinations	Monday, 8th January 2024	Sunday, 14th January 2024
Result Announcement	Monday, 22nd January 2024	

Holidays

Events	Day & Date	Description
Aushura	Friday, 28th – Saturday 29th July 2023	Date may vary subject to sighting of moon.
Independence Day	Monday, 14th August 2023	Public Holiday
Chehlum Imam Hussain (R.A)	Tuesday, 5th September 2023	Subject to announced by Govt. and may vary at sighting of moon.
Defence Day	Wednesday, 6 September 2023	Subject to announced by Govt.
Death Anniversary of Quaid-e-Azam	Monday, 11th September 2023	Subject to announced by Govt.
Eid Milad-un-Nabi (S.A.W.W)	Thursday, 28th September 2023	Date may vary subject to sighting of moon.
Iqbal Day	Thursday, 9th November 2023	Subject to announced by Govt.
Quaid-e-Azam Day	Monday, 25th December 2023	Public Holiday
Kashmir Day	Monday, 5th February 2024	Public Holiday

Examinations Rules

To maintain sanctity of the examination system, the exams can only be taken with proof of valid identification.

To avoid any mishap, students are encouraged to arrive at least 10 minutes before the start of examinations.

Students are advised not to bring mobile phones in the examination hall, however, if they do so then make sure they are switched off and placed in the front row with the invigilators.

Students are responsible for bringing their own calculator for quantitative analysis (if required). No borrowing from any other examinee is allowed. Students are also expected to bring their own stationery.

Students are not allowed to take question paper outside the examination hall.

Students cannot leave examinations hall before 30 minutes of the start of examination.

Students will not be permitted to enter the examination hall 30 minutes after the start of examinations.

Anyone found using illegal means during the examination would be penalized under discipline rules of SMIU.

Mid-Term Examinations

Each student is required to attempt mid-term examination. This 90 minute examination is held between every regular semester. Students, who failed to attempt the midterm examination, will be considered as fail in the final examination. However, the student can appear in the final examination on special approval of the Chairperson/COE.

Course Grading System

- » Performance of the students in the examination shall be assessed on the basis of marks obtained from a total of 100 marks in each course. The marks obtained, shall be presented as Numerical Grade (N.G) and Alphabetical Grade (A.G) as explained below:
- » Assessment of performance on the basis of marks out of 100 fixed for a course recommended in course outlines of different disciplines will be termed as Numerical Grade (NG).
- » Equivalent of numerical grade in terms of alphabets shall be termed as Alphabetical Grades (AG) and each letter carries a value in terms of numerical points termed as Grade Point Average (GPA).
- » Over all grading for the declaration of result will be

based on Gradation System for representing actual achievements of a candidate as follows:

- » Semester Grade Point Average (GPA) and Cumulative Grade Point Averages (CGPAs) will be calculated using the following relationships:

Numerical Grade	Alphabetical Grade	Grade Point Average (GPA)
(NG)	(AG)	(GPA)
91% - 100%	A	4.00
80% - 90%	A-	3.66
75% - 79%	B+	3.33
71% - 74%	B	3.00
68% - 70%	B-	2.66
64% - 67%	C+	2.33
61% - 63%	C	2.00
58% - 60%	C-	1.66
54% - 57%	D+	1.33
50% - 53%	D	1.00
Below 50%	F	0
-	I	Incomplete
-	W	Withdrawn
-	Frz	Freeze



GPA = $\frac{\text{Sum of Courses in Semester (Course Credit Hours X Grade Point Earned)}}{\text{Total Semester Credit Hours}}$

Total Semester Credit Hours

CGPA = $\frac{\text{Sum of all taken Courses in all Semesters (Course Credit Hours X Grade Point Earned)}}{\text{Total Credit Hours Taken in all Semesters}}$

Total Credit Hours Taken in all Semesters

Credit Transfer Policy

Transfer into SMIU can only be accepted for candidates who have studied or are currently studying at HEC recognized university. The request for transfer must be made at the time of admission.

SMIU reserves the right to accept or reject all or any such candidates.

Credit Transfer applicants need to complete all requirements of the admission process and secure a valid admission. Once an admission offer has been made, then the applicant shall submit Credit Transfer request along with other required documents.

A transfer committee appointed by SMIU shall determine the courses to be accepted for transfer of credits of such candidates.

Transfer of credits will be applicable to those courses with at least 'C+/ 70%' or above grades. A minimum of 50% of total degree credits must be completed at SMIU. No credit hour of a course will be transferred if the grade is less than C+ for undergraduate and B for graduate.

Courses transferred shall be indicated in the final transcript as being transfer credits.

However, the credits for grades earned from universities other than those mentioned above will be decided on case to case basis but will not be included in the CGPA. Their positions / rankings will depend only on the courses they complete at SMIU.

Course transfer exemption fee will be Rs.2,000/- per course for undergraduate and Rs.3,000/- for graduate and postgraduate programs (For external students only).

CGPA requirement for completion of Undergraduate and Graduate Degrees

For completion of the degree, the minimum qualifying CGPAs for undergraduate, graduate and postgraduate program are 2.0 , 2.5 and 3.0 (Course Work) respectively.

Credit Hours for Undergraduate and Graduate Degrees

A credit hour means teaching a theory course for one hour each week throughout the semester.

One credit hour in laboratory or practical work/project would require lab contact of at least two hours per week throughout the semester.

The credit hours are denoted by two digits within brackets with a hyphen in between. The first digit represents the theory part while the second (right side) digit represents the practical.

Plagiarism Policy

Plagiarism is use of someone else's idea, words, projects, artwork, phrasing, sentence structure, or other work without properly acknowledging the ownership (source) of the property. Plagiarism is dishonest because it misrepresents the work of someone else as one's own. Students who are suspected of plagiarism will answer to an investigation. Those found guilty will face a disciplinary action as per the University rules.

Penalties for Plagiarism

When an act of plagiarism is found to have occurred, the "Disciplinary Committee" at SMIU in its recommendations, DEPENDING UPON THE SERIOUSNESS OF THE PROVEN OFFENCE, will advise the Vice Chancellor SMIU, to take any one or a combination of the following disciplinary action(s) against the student(s) found guilty of the offence:

- » The offender may be prohibited expelled/rusticated from the University and from joining any institution of higher education in Pakistan for a period as deemed appropriate by the "Disciplinary Committee" A notice may be circulated among all academic institutions and research organizations to this effect.
- » The offender will be given a failure grade in the subject.
- » The offender may be fined an amount as deemed appropriate.
- » The offender may be given a written warning if the offence is minor and is committed for the first time.
- » Any other penalty deemed fit by the "Disciplinary Committee".
- » In the case of thesis the responsibility of plagiarism will be of the student and not of the supervisor or members of the Supervisory Committee.
- » The notification of the plagiarism by the author(s) may be published in the print media or may be publicized on different websites at the discretion of the Vice Chancellor.
- » HEC or SMIU may debar the offender from sponsorship of research funding, travel grant, scholarship, fellowship or any other funded program for a period as deemed appropriate by the "Disciplinary Committee".

Quality Assurance and International Memberships

Sindh Mudressatul Islam University has established a full-fledged Quality Enhancement Cell. Quality education has always been the prime priority of SMI University. The university management ensures quality in every dimension and in every manner whether it is to provide infrastructure and ancillary facilities to students or to develop intellect in them.

QAA (Quality Assurance Agency) of HEC Pakistan has devised a three-tier quality assurance mechanism. At the first stage, Self Assessment (SA) of programs is required to be conducted annually. Secondly, universities are required to carry out internal audit after every two years, which is to be followed by external review on four yearly basis.

Self Assessment is an exercise conducted by the institution / department itself to assess whether its programs meet their educational objectives and outcomes with the purpose to improve quality of programs and enhance students' learning. Self Assessment is documented as self assessment report (SAR) which makes the basis of all future audits and reviews. Self Assessment is carried out with certain objectives and institutional goals, provision of feedback for quality assurance of academics.

Memberships

SMIU is member of following Quality networks and civic service societies:



Quality Assurance Agency Higher Education Commission, Pakistan



Asia Pacific Quality Network



International Association of Universities



Association of Quality Assurance Agencies of the Islamic World (IQA)



The Association of Commonwealth Universities (ACU)



The Talloires Network



International Network for Quality Assurance Agencies in Higher Education (INQA/AHE)



Pakistan Chapter of the Talloires Network (PCTN)

Code of Conduct

All SMIU students shall be under the full disciplinary control of the SMIU. No student shall be allowed to participate in politics or any type of malpractice. The action against the act of indiscipline shall include fines, debarring from attending class and cancellation of admission, depending on the gravity of indiscipline.

The following shall constitute acts of indiscipline for which action may be taken against the student(s).

- » Breach of any rule of public morals, such as:
- » Use of indecent or filthy language.
- » Use of immodest dress.
- » Use of undesirable remarks or gestures and disorderly behaviour, such as shouting, abusing, quarrelling, fighting and disrespect etc.
- » Wall chalking, pasting posters or any kind of pictures.
- » No flags other than National/University flag.
- » Disobedience of authority.
- » Any action or remarks defamatory or derogatory against any religion.
- » Immorality.
- » Use of drugs/smoking inside the university's premises.
- » Giving false information or wilful suppression of information, cheating or deceiving.
- » Inciting or staging a walk-out, a strike or an unauthorized procession.
- » Shouting slogans, degrading the prestige of the university or the reputation of its officers or teachers.
- » Visiting places declared out of bounds for students.



Identity Card

Every student must carry his/her Student Identity Card, which can be demanded at the time of entrance to the university and various departments of the SMIU.

No student will be entertained by the facilities like library, transport or canteen unless he/she is in possession of the identity card. Strong actions may be taken if a student is found without card

Student Grievances Against Course Instructor/grade

SMIU have a 05-member Committee constituted of Deans, Registrar, COE and relevant head of the department, and headed by Controller of Examinations to redress the grievances of the students about any course instructor or grades or for any other issue.

In respect of grade, a student must submit the grievance application if any, in writing to the Head of the Department within (07) seven working days of the receipt of the grade. The Head of Department shall forward the grievance application to the Committee. It will be mandatory for the Committee to hear both sides (student and the instructor) and will give its final decision within (05) five working days or before the start of registration for the new semester, whichever comes earlier. The decision of the Committee will be deemed final and will be binding on all parties.

A Departmental Committee headed by the Chairman/Senior Faculty Members will be constituted to check randomly a few answer papers of the final semester examination for uniformity of scoring & covering of the course content.

Malir Campus

SMI University is in process of establishing its another campus over 100 acres of land in Education City, near emerging DHA City in vicinity of Karachi. This would be an additional campus to the City Campus of Karachi. The Government of Sindh has already allotted the plot free of cost for this Malir campus amidst green farms in Malir District of Karachi. Civil works relating to construction of boundary wall, four watch towers, camp office and underground and overhead water tank as well as process of contour mapping of the site have already been completed. The construction work of other buildings is in progress.



Brief History of SMIU

Foundation by Hassanally Effendi:

Sindh Madressatul Islam was founded on 1st September 1885 by a group of enlightened Muslims of Sindh, led by Khan Bahadur Hassanally Effendi, as the first modern Muslim educational institution of Sindh, whose doors were open to everyone irrespective of their religious affiliations.

After end of the Mughul era in the subcontinent and annexation of Sindh by the British by the middle of nineteenth century, the Muslims in Sindh were not ready to accept the new system of education. This closed the doors of social, economic and political development on them. This took its toll and by early 1880s, the majority Muslim community in Sindh had degenerated to an abysmally low economic, social and political standing. It may be interesting to note that when the University of Bombay conducted the matriculation examination in Sindh for the first time in 1870, not a single Muslim student passed it, though Muslims constituted seventy-five percent of Sindh's population.

Around this time an internal reformation movement amongst Muslims of India began. Three greatest proponents of this movement were Sir Syed Ahmed Khan of Aligarh in the North, Justice Syed Amir Ali of Calcutta in the East and Hassanally Effendi in the South-West. They employed education as tool for bringing social reformation. Hassanally Effendi took up the cause of establishment of Sindh Madressatul Islam, to which both Sir Syed and Justice Amir Ali extended fullest support including financial assistance.

The opening of Sindh Madressah proved to be harbinger of change for betterment amongst the Muslims of Sindh. Students from all over the region started flocking to this institution. Though SMI was founded primarily for the benefit of Muslims, its doors were equally open to followers of all other religions. Early records show that around ten percent students of SMI were always from non-Muslim communities. In addition to non-Muslim students, SMI also had several non-Muslim teachers on its payroll. This multicultural and liberal atmosphere helped in creating a cosmopolitan culture within the institution.



Association with Quaid-e-Azam M.A. Jinnah

In July 1887, less than two years of Sindh Madressah's establishment, Quaid-e-Azam Mohammad Ali Jinnah got enrolled in the institution and studied here for the longest period of his academic life, from 1887 to 1892. He carried deep imprints of SMI on his mind throughout his life, which is evident from the fact that he bequeathed one-third of his personal property to Sindh Madressah through his Last Will.

He also elevated his Alma-Mater from school to college level. He personally came to inaugurate "Sindh Madressah College" on 21st June 1943. On that occasion he was overcome by his sentiments. Speaking in a reminiscent mood, he declared before his audience that he knew every inch of the splendid grounds of the institution where he had studied and played as a schoolboy fifty five years earlier. "Every inch of these splendid grounds where I took part in various games, I know" - Daily Morning News and Daily Star of India quoted him.

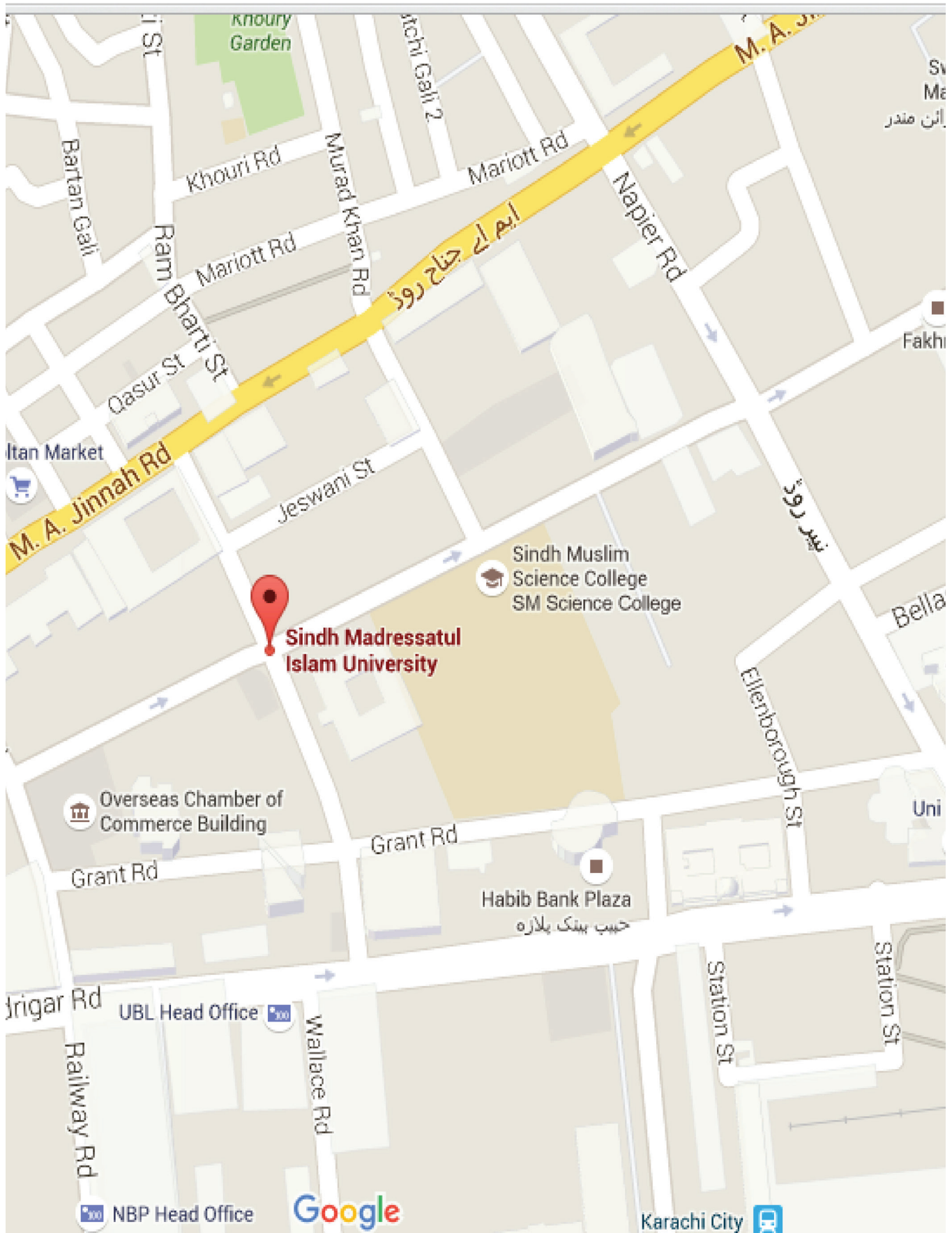
Alma-Mater of Freedom Fighters

In addition to Quaid-e-Azam, Sindh Madressah has educated several leading lights of firstly struggle for separation of Sindh from Bombay Presidency and subsequently of Pakistan movement, including Sir Shahnawaz Bhutto, Sir Abdullah Haroon, Sir Ghulam Hussain Hidayatullah, Khan Bahadur Mohammad Ayub Khuhro, Shaikh Abdul Majid Sindhi and others. It was in this background that Syed Ghulam Mustafa Shah, an alumnus of SMI and renowned educationist used to call SMI "Child of Sindh and Mother of Pakistan." Besides the freedom fighters, SMI has produced great educationists, jurists, soldiers and men of letters. Some of them are: Allama I.I. Kazi, Allama Umer Bin Mohammad Daudpota, A.K. Brohi, Ali Ahmed Brohi, Lt Gen Ghulam Mohammad Malik and several others who constitute its proud Roll-of-Honor.

After the demise of Quaid-e-Azam, SMI witnessed a period of decline due to indifferent attitude of the private management board that ran the affairs of the institution at that time. The first casualty was the scheme of Boarding Houses (hostels), disconnecting the link of the institution with rest of the province and beyond. This was followed by constructing long rows of shops on the prime-most land given for the sole purpose of education, in utter disregard of aesthetics as well as respect for the philosophy of education. Slowly and gradually, the institution lost its grandeur and by 1972 it had been reduced to a non-descript local school from an institution of international repute.



Location Map







Alma-Mater of Quaid-e-Azam Mohammad Ali Jinnah
Sindh Madressatul Islam University, Karachi

Alwan-e-Tijarat Road, Karachi-74000 Phones: (021) 99217501-03 Fax: (021) 99217504
Email: info@smiu.edu.pk, URL: www.smiu.edu.pk