Prospectus

SALIM HABIB UNIVERSITY

Competitive Edge of SHU Programs

Promoting career opportunities in diverse fields such as Food Sciences, Hospital, Healthcare and Medical Device industries, Water Industry, Sewerage Disposal and Treatment Plants, Business Management and Financial Analysis through application of studies in Sciences, Pharmacy, Engineering, Information Technology and Management Sciences
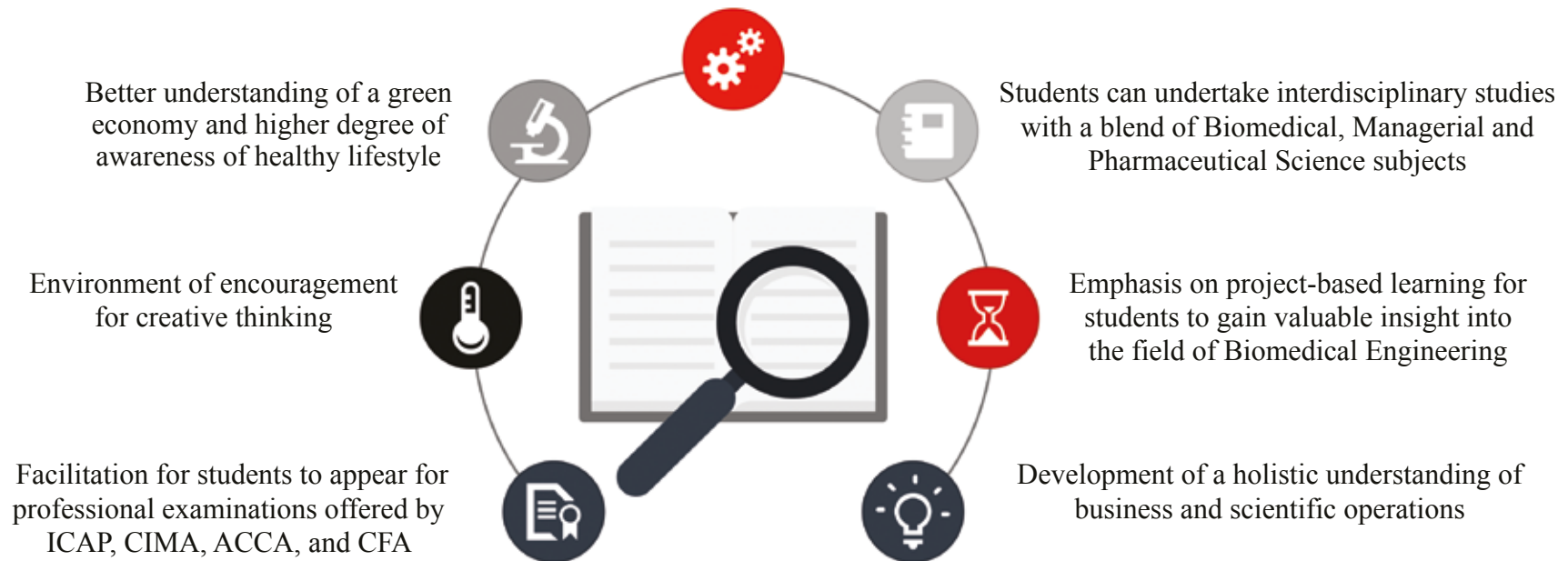
Better understanding of a green economy and higher degree of awareness of healthy lifestyle

Students can undertake interdisciplinary studies with a blend of Biomedical, Managerial and Pharmaceutical Science subjects

Environment of encouragement for creative thinking

Emphasis on project-based learning for students to gain valuable insight into the field of Biomedical Engineering

Facilitation for students to appear for professional examinations offered by ICAP, CIMA, ACCA, and CFA

Development of a holistic understanding of business and scientific operations

Table of Contents

Message from the Life Chairperson

All the ills of any nation start with lack of education and unfortunately Pakistan is one of them where the literacy rate is lower than 45%. Realizing this weakness of our nation it has been my lifelong passion and desire to do something about it. Therefore I decided that I should put my resources and efforts to contribute towards the development of education in Pakistan. Despite numerous hurdles and loss of precious years, I continued striving to setup the Salim Habib University in Karachi.

It is a proud moment for all of us especially for me that the Salim Habib University Karachi has opened its doors for admission. One thing I repeat that we all have to bear in mind, the lack of education facilities and or its accessibility to some individuals is the primary cause of nation's under development.

"An illiterate man is like a blind person in a dark room who will never see the light of the day"

I wish the University lot of success.

Dr M S Habib
Life Chairperson

SALIM HABIB UNIVERSITY

Message from the Chancellor

Education is the single most important factor in developing the economy of Pakistan. Its the most valuable tool an individual can possess, and holds the key to our country's future. Henceforth, it is my strong belief that if we wish to succeed, we must empower our educational system. While many have spoken around the benefits of education, few have acted upon addressing this change. We believe it is time to address this gap and ensure our youth an opportunity that can embolden their future. Here at Salim Habib University (SHU), we are committed to achieving this goal as we provide a foundation that cultivates passion, intelligence and character with largely one outstanding mission – To Provide Quality Education for our Children.

I welcome all my undergraduate students, and sincerely thank my dedicated faculty at SHU for mentoring our youth. This University was created in the face of many challenges. However, we pushed hard and were persistent in our mission. We have built an institution that is predicated upon values of integrity and transparency. These core values are the basis of every project I have established, and SHU has been built upon these values. It is a product of our sheer persistence against all odds, and it is this spirit of perseverance, loyalty and stick-to-it-ness that we aim to instill in our children as well.

The University is new yet fully equipped to walk you through each program with the goal of finding your unique passion. Additionally, the experience goes beyond books and laboratories as we have built an aesthetically pleasant campus with athletic facilities meeting international standards as we stand with our youth, and remain united to provide a system where they flourish.

Our goal is to empower our education system and also improve the culture of our nation. Here, at SHU, we want our students to be very proud of and confidently exclaim that they belong to a Pakistani Academic Institution. We want our parents, relatives and people abroad to become excited about what SHU stands for. We want local communities to look within our nation first- for education, and not abroad. Today, Karachi hears us but I can assure that one day the world will also hear about the success of our children.

I am proud of what we have accomplished, and look forward to the many unprecedented opportunities SHU has to offer. Our children will become leaders in business and industry. They will serve our nation with optimism and pride. They will make their mark on this world and Salim Habib University will always be there to support, sustain, and encourage those who are determined to learn.

Best of luck and endless success to Salim Habib University,

Dr Iram Afaq
Chancellor

Message from the Vice Chancellor

Salim Habib University (SHU), since its establishment has shown a commitment to innovation and to serve the needs of the community.

SHU constantly strives to provide high-quality education, equipping students with the acumen to be able to address both national and global challenges. Within a short span of its existence, SHU has shown success in introducing modern curriculum, student engagement, professional training, faculty development, local and international collaborations, progress towards a state-of-the-art campus building, industry partnerships, research endeavors and much more.

The faculty and staff at SHU are dedicated and capable of converting the challenges into opportunities, demonstrating their excellence in teaching, learning and research; and fulfiling the needs of communities.

As a Vice-Chancellor, I have focused my attention to respond to the challenges of ever-changing sector of higher education, identifying our strengths and building a distinctive character and identity.

The Salim Habib University offers work-integrated learning and emphasizes on continued professional development by providing the tools and support necessary to succeed in professional life. These aspects make SHU a challenging, exciting and competitive place to study and work with. If you are committed to the pursuit of excellence, SHU could be the best place to achieve your higher educational goals.

Dr. M. Shakeel Ahmed Khan

Vice Chancellor

SALIM HABIB UNIVERSITY

The Policy Makers

The Board of Governors

Dr. M S Habib
Life Chairperson
The Salim Habib Education Foundation & Barrett Hodgson Pakistan (Pvt) ltd.

Dr. Iram Afaq
Chancellor
Salim Habib University
Chief Executive Officer and Founding Member
The Salim Habib Education Foundation
Chief Executive Officer and Deputy Chairman
Barrett Hodgson Pakistan

Dr. M. Shakeel Ahmed Khan
Vice Chancellor
Salim Habib University

Justice Muhammad Karim Khan Agha
Judge
High Court of Sindh

Dr. A Q Mughal (SI)
A nominee of HEC

Mr. Tariq Amin
Director
The Salim Habib Education Foundation

Dr. Jonathan Addleton
Rector
Forman Christian College University, Lahore

Mr. Fazl ur Rehman
Ex-Chief Secretary
Government of Sindh

Mr. Ali Naqvi
Principal Architect
Ali Arshad Associates

Dr. Hasan Tharani
Managing Director
Barrett Hodgson Pakistan (Pvt) Ltd.

Mr. Muhammad Abbas
Executive Director
Salim Habib University
Chief Operating Officer
The Salim Habib Education Foundation

Dr. Muhammad Hussain Habib
Executive Director Education, Marketing, HR & Admin
Salim Habib University

Mr. Noor Ahmed Samoo
Secretary, Universities & Boards Department, Government of Sindh

Dr. Lubna Ayub
Nominee, Sindh Higher Education Commission (SHEC)

Two Members of the Provincial Assembly of Sindh

Academic Council, Salim Habib University

Chairman

Dr. M. Shakeel Ahmed Khan
Vice Chancellor
Salim Habib University

Members

Prof. Dr. Aqeel Ahmad
Dean Faculty of Science

Prof. Dr. Rahela Ikram
Dean Faculty of Pharmacy

Prof. Dr. Mohammad Nishat
Dean Faculty of Management Sciences

Prof. Dr. Rizwan Ahmed
Dean Faculty of Information Technology

Prof. Dr. Muhammad Zeeshan Ul Haque
Dean Faculty of Engineering

Prof. Dr. Noor Kamil
Chairperson Department of Basic Medical Sciences

Dr. Syed Babar Ali
Associate Professor & Chairperson, Department of Accounting & Finance

Dr. Arshad Mahmood
Associate Professor & Chairperson, Department of Biosciences

Dr. Sheeraz Arif
Associate Professor & Chairperson, Department of Computer Science

External members

Prof. Dr. Abid Azhar
Director
Dr. Abdul Qadeer Khan Institute of Biotechnology & Genetic Engineering, Karachi

Dr. Izhar Hussain
Pharmacist & Director
Institute of Business and Health Management (IBHM)
Dow University of Health Sciences (DUHS), Karachi

Engr. Prof. Dr. Johar Khurshid Farooqi
Director QEC
DHA Suffa University, Karachi.

Objectives

The Salim Habib Education Foundation

- To impart quality education with state-of-the-art facilities across Pakistan
- To lure domestic and international educationists into the system to ensure quality education
- To inculcate curiosity, creativity and confidence among the Pakistani youth, the future leaders

Salim Habib University

- To be a leader in the fields of Biomedical Engineering, Biosciences, Pharmaceutical Sciences, Information Technology and Management Sciences
- To promote recognition and support of important interdisciplinary areas in the selected departments to ensure excellence in all disciplines
- To encourage mutually beneficial collaboration between the faculties as well as other universities
- To attract high profile faculty for undertaking thematic research in strategically important academic areas
- To develop and maintain infrastructure for research and creativity through grants, including government and corporate funding
- To create a culture that promotes teaching excellence and pedagogical innovations in academic environments
- To nurture the well-being of our students for lifelong success

Vision

To serve the society through education, advancement of learning by teaching and research of highest quality and its dissemination.

Mission

To provide quality and accessible education, effective research, creative thinking abilities and hands-on experience. This will be planned in a manner to benefit society at local, regional, national and international levels. The University is committed to position itself as a distinctive institution; using innovative educational models, exceptional values, and ability to prepare diverse student population with open-minded trust, exemplary service, motivated leadership and personal values.

Core Values

- Integrity through honoring our commitments
- Communicate, Connect and Compete at all levels
- Discipline with Time Management
- Zero Tolerance to Corruption
- Passion with Positive Mindsets and Initiatives
- Value Teamwork - Winning All The Way

SALIM HABIB UNIVERSITY

The SHU Philosophy

At SHU we believe that the difference between good and great curricula is the methodology adopted to transfer knowledge to the ultimate stakeholders – our students. We bring this difference to the fore through the adoption of the 'SPICES' curriculum model as a guiding philosophy with the following elements: Student-centered/active learning, Problem/practice based, Integrated, Community/systems-based, Electives, and Systematic approaches. In addition, our curricula through all our programs incorporate research and inter-professional experiences.

Case-based seminars that employ case-based collaborative learning approach; a hybrid of problem-based learning, and team-based learning approaches are offered in the early professional phase of our programs to promote learning in both; small groups to prepare for 'case-based seminars'; and in tutorial settings with student-directed learning.

Key components of the curriculum philosophy:

- Systematic curriculum that builds upon a solid foundation of basic courses in the early years
- Utilize active-learning in different settings including web-supported technologies in both large and small class sizes as well as laboratory settings
- Incorporation of case-based learning in a seminar course sequence that runs parallel to the integrated course sequences
- Incorporation of practicum and simulation in a series of courses beginning with the early professional phase of the curriculum with emphasis on skills development and demonstrating effective communication skills
- Integration of research principles and application with a required capstone research project
- Incorporation of elective didactic and experiential education courses
- Design of inter-professional education and practice experiences within the didactic and experiential settings across multiple settings in the healthcare system
- Extensive experiential education

An Artist's Impression of

SALIM HABIB UNIVERSITY

Salim Habib University

Messages from the Deans

Faculty of Science

Salim Habib University is committed to transform society through education, learning, and research at the high quality. As Dean Faculty of Science, I am pleased to welcome you to the University.

Faculty of Science presently has one department – Biosciences, which is a fascinating area of biology that is driving major advances in energy, environment, metagenomics, system biology, molecular biology, immunology, virology, tissue culture technology, health, food and nutrition, bio-manufacturing, and the like.

The curriculum for BS-Biosciences is designed to promote innovative learning styles and a solid foundation in applied biosciences. The curriculum is dynamic, internationally aligned, and evolves with the changing requirement of the healthcare, agriculture and industry. Biosciences is applied in almost every field where biological material is handled or tested.

The laboratories of Biosciences, are well-equipped to provide a flexible knowledge and practical skills, giving students a chance to maximize their potential and develop a successful career in academia, industry or commerce.

Department of Biosciences has highly qualified faculty with diversified expertise and experience who facilitates your development by providing deep insights into the discipline of Bioscience. The faculty will develop your technical proficiency to the level that allows you to resolve issues related to life and allied fields, not only at national but also at international level.

Hoping that your stay at SHU campus will be pleasant and stimulating, I wish you every success in future.

Dr. Aqeel Ahmad
Professor
Dean, Faculty of Science

Faculty of Pharmacy

Welcome to SHU, Faculty of Pharmacy. SHU greatest assets are the students specially our future Pharmacists who can play a significant role in healthcare. We at SHU intend to deliver the best to our students of Pharmacy since the profession of Pharmacy has expanded its role towards patient counselling, drug monitoring, consultation with the physician and are also taking the responsibilities of patient outcome. We apply a multifaceted approach to provide our students with holistic education so that they develop into young professionals, fully cognizant of the Pharmaceutical, clinical and social aspects of their profession. Pharmacy education requires close integration of clinical aspects of Pharmacy with scientific knowledge and practice hence we have developed strong academic collaborations with a number of hospitals and community pharmacies to incorporate clinical visits and provide internships for our students as per our curriculum. Since industries are a backbone in Pharmacy profession, therefore we have developed industrial labs in our campus as well as we shall expose our students to internships and training in different areas of Pharmaceutical industries. We aim to equip our students with knowledge skills and tools that will give them a distinct standing in professional market.

I will expect you to participate in all healthy and academic activities of the Faculty.

Dr. Rahila Ikram
Professor
Dean, Faculty of Pharmacy

Faculty of Management Sciences

The faculty of Management Sciences aims to achieve its objectives in line with the vision to become a reputable university in business management education in Pakistan and build our strengths in teaching, learning and research. Our curricula does not only allow the students the opportunity to experience and develop an understanding of the latest tools and techniques, but also exposes them to applied learning through experiential learning, field visits, and workshops from the very beginning of the program. Our training aims to nurture innovative young minds through offering broad-based curriculum that provides students exposure both within their discipline and soft skills. Our approach in the development of curricula has therefore been to be creative and entrepreneurial towards introducing new ideas aimed towards the personal and intellectual development of our students. Professional learning, in terms of refining our strong associations with industry, commerce and professions in order for students to become responsible citizens and well-equipped to enter the knowledge-based workplace and society.

After the experience of lingering pandemic, learning is taking many forms, and information will be available in many formats. By helping our students today discover how they can leverage the universities' wide-ranging resources for lifelong learning, we will position them better for effective role we continue to maximise through digital technology in the delivery of our programmes and expand our reach to attract students and faculty from all parts of the country and abroad.
I welcome you to the faculty of Management Sciences of Salim Habib University (SHU).

Dr. Mohammad Nishat
Professor
Dean, Faculty of Management Sciences

Faculty of Information Technology

Computing and computer technology are part of just about everything touching our lives today, from the cars we drive to the movies we watch to the many ways we all interact with each other. At times computer science is often confused with the everyday use of computers, such as using internet and web services, downloading and installing different services / apps, playing games etc. Rather, it is the study of principles, applications, and technologies of computing and computers. It involves the systematic study of data and data structures and the algorithms to process these structures; of principles of computer architecture; of addressing particular challenges in areas such as robotics, computer vision, or digital forensics; and of language design and structure.

At SHU, we provide a niche program in computer science. consistent with our vision to be a leader in innovation, research, and dissemination of knowledge we aspire to impart education in an effective and contemporary manner so we can prepare our students to cope with the rapid changes in the market needs. We offer tracks in Data Science / Artificial Intelligence, Network and Security, and Software Engineering. Our faculty consists of members with local and international research and industry experience. What makes us unique is our cross disciplinary collaboration in research and development. SHU will offer flexible study environment where students will be empowered to focus on inter-disciplinary areas as per their motivation.

Dr. Rizwan Ahmed Khan
Professor
Dean, Faculty of Information Technology

Faculty of Engineering

Faculty of Engineering is currently offering a four-year undergraduate degree program in Biomedical Engineering which is based on globally competitive curricula combining theoretical knowledge with hands-on training that allow the students to explore and solve complex engineering problems.

We have highly qualified and experienced faculty members to ensure that the program learning outcomes are achieved. Our teaching methodology accentuate on student-teacher interaction for providing optimal learning environment. We place strong emphasis on Industry-Academia collaboration for which we have set up an Industrial Advisory Board that facilitates the provision of insights on current trends in healthcare industry by arranging guest lectures, seminars, and workshops for the students.

Department of Biomedical Engineering at SHU aims to train and produce the next generation of biomedical engineers, researchers, innovators, and entrepreneurs with analytical and problem solving skills required for the success in the health care industry.

Dr. M. Zeeshan Ul Haque
Professor
Dean, Faculty of Engineering

Full Time Faculty

Department of Biomedical Engineering

Dr. M. Zeeshan Ul Haque
Professor

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Ph.D. (Bioengineering), University
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MSc (Medical Electronics &
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MSc (Advanced Photonics and Communication)
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SALIM HABIB UNIVERSITY

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SALIM HABIB UNIVERSITY

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MBA, IBA

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MPA (Marketing & Human Resource Management) University of Karachi

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Anglia Ruskin University, UK
MPA, University of Karachi

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MA (English Linguistics), Jinnah
University for Women, Karachi

SALIM HABIB UNIVERSITY

31 State-of-the-Art-LABORATORIES

Other FACILITIES

Classrooms

Library

Multipurpose Hall

Admin Block

Cafeteria

SHU Officials

Prof. Dr. Kaleem Raza Khan
Registrar

Mr. Muhammad Abbas
Executive Director/Chief
Operating Officer

Dr. Muhammad Hussain Habib
Executive Director Education
Marketing, HR & Admin

Mr. M. Saleem Khan
Controller of Examinations

Mr. Syed Waqar ul Hasan
Director QEC & Regulatory Affairs

Offering Programs in Faculties of

Engineering

Science

Pharmacy

Information Technology

Management Sciences

BE Biomedical Engineering

SALIM HABIB UNIVERSITY
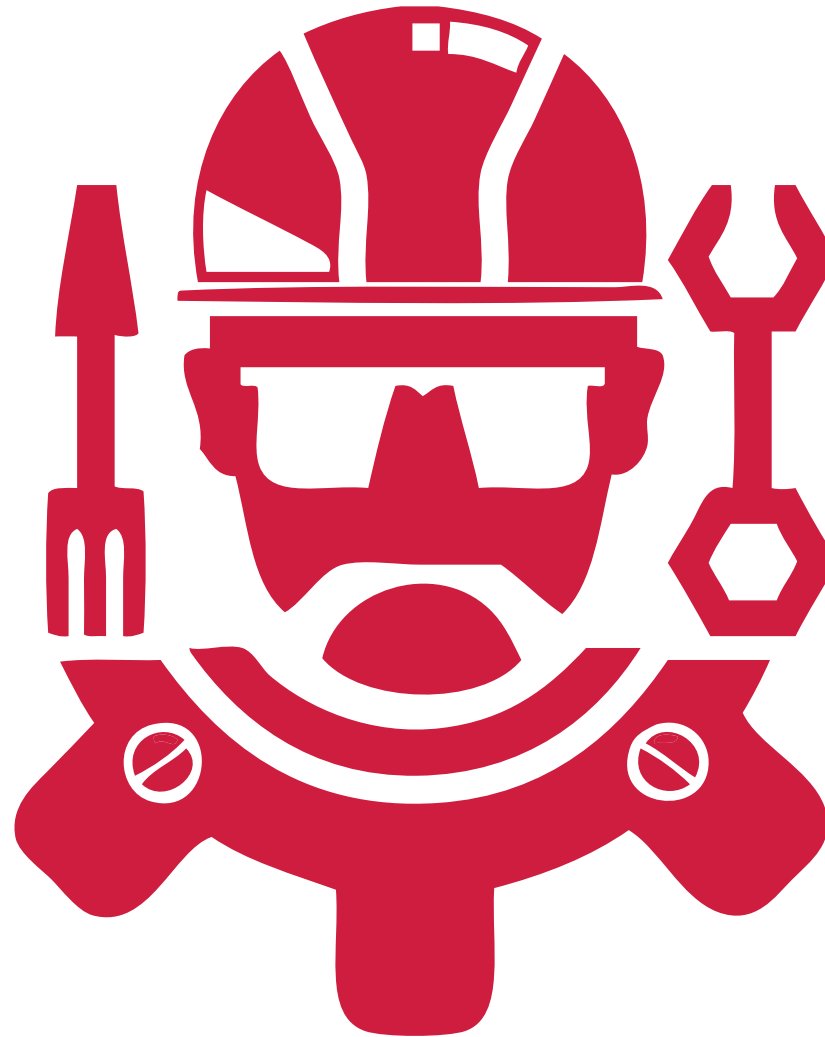
Curriculum Plan

Year 1

Semester 1

Course Code	Course Title	Credit Hours
PHC101	Applied Physics	3
BME101	Introduction to Biomedical Engineering	1
BME102	Introduction to Computing	3
ELE101	Basic Electrical Engineering	4
IST101	Islamic Studies	2
MTH101/BIO101*	Basic Mathematics / Biology	3
ENG100**	Functional English	0
Credit Hours		**16**

Semester 2

Course Code	Course Title	Credit Hours
ENG103	Communication Skills	2
PST101	Pakistan Studies	2
MTH103	Calculus and Analytical Geometry	3
BSC102	Biochemistry	3
CSC103	Object Oriented Programming	4
ELE102	Basic Electronics	4
Credit Hours		**18**

Year 2

Semester 3

Course Code	Course Title	Credit Hours
MTH201	Linear Algebra and Differential Equations	3
PHY201	Physiology I	3
ELE201	Circuit Analysis	4
BME201	Computer Aided Engineering Drawing	1
BME202	Biomedical Electronics	4
ANA201	Human Anatomy	3
Credit Hours		**18**

Semester 4

Course Code	Course Title	Credit Hours
MTH202	Complex Variables and Transformation	3
ELE203	Digital Logic Design	4
BME203	Biomechanics	4
PHY202	Physiology II	3
BME204	Biomedical Instrumentation I	4
Credit Hours		**18**

BS BIOSCIENCES

Program Objectives

BS-Biosciences will help students equip with necessary knowledge, skill and aptitude to:

- Comprehend the concept of modern Biosciences and its practical aspects.
- Understand the relationship between various fields of life sciences.
- Develop analytical and critical thinking and enhance interpersonal skills and leadership qualities.
- Produce multi-disciplinarily trained graduates.
- Effectively communicate scientific issues with the bioscience fraternity and general public.

Career Prospects

BS-Biosciences will provide a wide variety of career opportunities and attractive jobs in:

- Agriculture sector
- Biocontrol and bioremediation
- Biotechnological industries
- Food and beverage industries
- Healthcare organizations (Hospitals and diagnostic labs)
- Nutrition and dietetics
- Pharmaceutical industries
- Research and academic organizations
- Various organizations where biological materials are handled or tested
- Nutrition & Dietetics

Curriculum Plan

Year 1 (FRESHMEN)

Semester 1

Course Code	Course Title	Credit Hours
ENG101	Functional English	3
PST101	Pakistan Studies	2
MAT101 / BIO101	Mathematics/ Basic biology	3
PHI101	Philosophy, Logic & Critical Thisnking	3
BSC101	Cell Biology	3
BSC105	Physiology	3
Credit Hours		**17**

Semester 2

Course Code	Course Title	Credit Hours
ENG102	Communication/ Writing Skills	3
IST101	Islamic Studies	2
MTH201	Linear Algebra & Differential Equation	3
BSC102	Biochemistry	3
BSC103	Chemistry	3
BSC104	Fundamentals of Microbiology	3
Credit Hours		**17**

Year 2 (SOPHOMORE)

Semester 3

Course Code	Course Title	Credit Hours
CSC105	Programing Fundamentals	4
BSC201	Fundamentals of Classical Genetics	3
BSC205	Ecology & Biodiversity	3
BSC207	Cellular Metabolism & Regulation	3
BSC210	Biostatistics	3
PSY101	Psychology	3
Credit Hours		**19**

Semester 4

Course Code	Course Title	Credit Hours
BSC202	Molecular Biology	3
BSC203	Structural Biology	3
BSC204	Fundamentals of Immunlology	3
BSC208	Introduction to Biotechnology	3
BSC209	Enzymology	3
ECO102	Microeconomics	3
Credit Hours		**18**

Year 3 (JUNIOR)

Semester 5

Course Code	Course Title	Credit Hours
BSC301	Bioinformatics	3
BSC304	General virology	3
BSC305	Pharmacology	3
BSC308	Human Nutrition & Dietetics	3
BSC311	Neuroscience	3
Credit Hours		**15**

Semester 6

Course Code	Course Title	Credit Hours
BSC302	Epidemiology & Public Health	3
BSC303	Clinical & Laboratory Diagnostics	3
BSC306	Genetic Engineering & its Applications	3
BSC307	Stem cells & Developmental Biology	3
BSC310	Drug Designing & Development	3
Credit Hours		**15**

ELECTIVE COURSES		Credit Hours
1.	Probiotics & Microbiome	3
3.	Proteomics	3
5.	Inflammation: Acute & Chronic diseases	3
7.	Metagenomics in Health & Diseases	3
9.	Green Biotechnology	3

Year 4 (SENIOR)

Semester 7

Course Code	Course Title	Credit Hours
MGT401	Entrepreneurship	3
BSC401	Cell and Tissue culture	3
BSC	ELECTIVE-1	3
BSC422	FYP-I	3
ENG401	Technical Report Writing	3
Credit Hours		**15**

Semester 8

Course Code	Course Title	Credit Hours
BSC404	Contemporary Biosciences	3
BSC	ELECTIVE-2	3
BSC423	FYP - II	3
BSC	ELECTIVE-3	3
BSC	ELECTIVE-4	3
Credit Hours		**15**

ELECTIVE COURSES		Credit Hours
2.	Cellular and Molecular Biology of Cancer	3
4.	Advance Epidemiology	3
6.	Food Science & Technology	3
8.	Introduction to Genomics and Proteomics in Medicine	3

SALIM HABIB UNIVERSITY

PHARMACY (PharmD)

Pharmacy (PharmD)

Faculty of Pharmacy is a part of Salim Habib University (SHU), founded by The Salim Habib Education Foundation and offering a unique 5 year's Doctor of Pharmacy (Pharm-D) program, for those candidates who are interested to pursue a career in the fields of Health & Pharmaceutical Sciences. The Faculty of Pharmacy is divided into five departments:

• Department of Basic Medical Sciences

• Department of Pharmaceutics

• Department of Pharmaceutical Chemistry

• Department of Pharmacognosy

• Department of Pharmacy Practice

Degree Offered	Entry Requirements	Internship Opportunities
Doctor of Pharmacy (PharmD) Duration: 5 Years Semesters: 10 Credit Hours: 206	The applicants should: • Have 60% marks in HSC (Pre-Medical) /A-levels or equivalent qualification • Qualify the Aptitude Test and Interview	• Hospital and Clinical setup • Pharmaceutical Industry • Regulatory and enforcement bodies • Community Pharmacy

Program Objectives	Career Prospects
The Doctor of Pharmacy (Pharm-D) program aims to produce Pharmacists who are: • Par excellence in the area of Pharmaceutical care, clinical care and research • Leaders in Pharmacy education, practice and industry • Capable of Providing pharmaceutical care encompassing both the patient Care and community services with commitment, professionalism and ethical responsibilities • Use information technology to integrate evidence from scientific studies into practice • Able to develop and implement evidence-based programs and protocols, constructed upon the analysis, epidemiological data, pharmacoeconomics, medication-use data and risk reduction strategies	Pharmacy Graduates will find opportunities in the job market but not limited to: • Institutional (Hospital) Pharmacy • Clinical Pharmacy • Community Pharmacy • Pharmaceutical Industry • Academia • Research and Development • Allied Healthcare Industry • Technical Operations in the Pharmaceutical Industry • Commercial Operation of Pharmaceutical Industry including sales and marketing • Government Legislative Bodies • Pharmacy Regulatory Affairs • Pharmacy Entrepreneurship • Healthcare Insurance Companies

SALIM HABIB UNIVERSITY

Our Strengths

Our Pharm-D program is an exclusive, comprehensive and multi-faceted, designed to enhance the professional skills for the practical application in all disciplines of Pharmacy profession through a carefully developed curriculum inspired by ACPE (Accreditation Council for Pharmacy education) guidelines. We aim to provide academic excellence along with the best possible guidance to explore the clinical, community and industrial Pharmacy avenues with research opportunities in Pakistan and abroad.

The expanded role of profession of Pharmacy now requires close integration of clinical aspects of Pharmacy with scientific knowledge and practice. Hence, we have developed state of the art Skills and simulation lab which is the first of its kind, where we prepare our students with the help of simulators and simulating scenarios for both clinical and community pharmacy skills.

SHU is the first university in Pakistan to introduce IPP (introductory Pharmacy practice) and APP (Advanced pharmacy practice) as part of its curriculum. This improvisation connects the theoretical teaching of pharmacy to practice right from the initial years along with accommodating students at practice sites from the 2nd year of Pharmacy. To incorporate clinical visits and provide internships for our students as per our curriculum, we have collaborated with a number of hospitals and community pharmacies, as well as, industries.

Curriculum Plan

Year 1

Semester 1

Course Code	Course Title	Credit Hours
ENG 111	English - A (Functional English)	2
PHM 101	Anatomy & Histology	3
PHM 101(Lab)	Anatomy & Histology	1
PHM 103	Physiology - A	3
PHM 103 (Lab)	Physiology - A	1
PHM 105	Pharmaceutics - IA (Physical Pharmacy)	3
PHM 105 (Lab)	Pharmaceutics - IA (Physical Pharmacy)	1
PHM 107	Pharmaceutical Chemistry - IA (Organic)	2
PHM 107 (Lab)	Pharmaceutical Chemistry - IA (Organic)	1
PHM 109	Pharmaceutical Chemistry - IIA (Biochemistry)	3
PHM 109 (Lab)	Pharmaceutical Chemistry - IIA (Biochemistry)	1
Credit Hours		**21**

Semester 2

Course Code	Course Title	Credit Hours
ENG 112	English - B (Communication & Writing skills)	4
PHM 102	Physiology - B	3
PHM 102 (Lab)	Physiology - B	1
PHM 104	Pharmaceutics - IB (Physical Pharmacy)	3
PHM 104 (Lab)	Pharmaceutics - IB (Physical Pharmacy)	1
PHM 106	Pharmaceutical Chemistry - IB (Organic)	2
PHM 106 (Lab)	Pharmaceutical Chemistry - IB (Organic)	1
PHM 108	Pharmaceutical Chemistry - IIB (Biochemistry)	3
PHM 108 (Lab)	Pharmaceutical Chemistry - IIB (Biochemistry)	1
PHM 110	Pharmacy Practice - IA (Pharmaceutical Mathematics)	3
Credit Hours		**22**

Year 4

Semester 7

Course Code	Course Title	Credit Hours
PHM 401	Pharmaceutical Chemistry - IIIA) (Pharmaceutical Analysis)	3
PHM 401 (Lab)	Pharmaceutical Chemistry - IIIA) (Pharmaceutical Analysis)	1
PHM 403	Pharmacy Practice -VIA (Advanced Clinical Pharmacy II)	3
PHM 403 (Lab)	Pharmacy Practice -VIA (Advanced Clinical Pharmacy II)	1
PHM 405	Pharmaceutics - IVA (Industrial Pharmacy)	3
PHM 405 (Lab)	Pharmaceutics - IVA (Industrial Pharmacy)	1
PHM 407	Pharmaceutics - VA (Biopharmaceutics & Pharmacokinetics)	3
PHM 407 (Lab)	Pharmaceutics - VA (Biopharmaceutics & Pharmacokinetics)	1
PHM 409	Pharmaceutics - VIA (Pharmaceutical Quality Management)	3
PHM 409 (Lab)	Pharmaceutics - VIA (Pharmaceutical Quality Management)	1
Credit Hours		**20**

Semester 8

Course Code	Course Title	Credit Hours
PHM 402	Pharmaceutical Chemistry - IIIB (Pharmaceutical Analysis)	3
PHM 402 (Lab)	Pharmaceutical Chemistry - IIIB (Pharmaceutical Analysis)	1
P1HM 404	Pharmacy Practice - VIB (Advanced Clinical Pharmacy-II)	3
PH3M 404 (Lab)	Pharmacy Practice - VIB (Advanced Clinical Pharmacy-II)	1
PHM 406	Pharmaceutics - IVB (Industrial Pharmacy)	3
PHM 406 (Lab)	Pharmaceutics - IVB (Industrial Pharmacy)	1
PHM 408	Pharmaceutics - VB (Biopharmaceutics & Pharmacokinetics)	3
PHM 408 (Lab)	Pharmaceutics - VB (Biopharmaceutics & Pharmacokinetics)	1
PHM 410	Pharmaceutics - VIB (Pharmaceutical Quality Management)	3
PHM 410 (Lab)	Pharmaceutics - VIB (Pharmaceutical Quality Management)	1
Credit Hours		**20**

Year 5

Semester 9

Course Code	Course Title	Credit Hours
PHM 501	Pharmaceutics-VIIA (Pharmaceutical Technology)	3
PHM 501 (Lab)	Pharmaceutics-VIIA (Pharmaceutical Technology)	1
PHM 503	Pharmacy Practice -VIIA (Forensic Pharmacy)	3
PHM 505	Pharmacy Practice -VIIIA (Pharmaceutical Management & Marketing)	3
PHM 507	Pharmaceutical Chemistry - IVA (Medicinal Chemistry)	3
PHM 507 (Lab)	Pharmaceutical Chemistry - IVA (Medicinal Chemistry)	1
PHM 509	Pharmacy Practice - XII A (Advanced Clinical Pharmacy III)	2
PHM 511 (Lab)	Pharmacy Practice - XI A (Advanced Pharmacy Practice Experience)	2
PHM 513 (Lab)	Pharmacy Practice - IX (Research Methodology)	1
Credit Hours		**19**

Semester 10

Course Code	Course Title	Credit Hours
PHM 502	Pharmaceutics - VIIB (Pharmaceutical Technology)	3
PHM 502 (Lab)	Pharmaceutics - VIIB (Pharmaceutical Technology)	1
PHM 504	Pharmacy Practice - VIIB (Forensic Pharmacy)	3
PHM 506	Pharmacy Practice - VIIIB (Pharmaceutical Management and Entrepreneurship)	3
PHM 508	Pharmaceutical Chemistry - IVB (Medicinal Chemistry)	3
PHM 508 (Lab)	Pharmaceutical Chemistry- IVB (Medicinal Chemistry)	1
PHM 510	Pharmacy Practice - XII B (Advanced Clinical Pharmacy III)	2
PHM 512 (Lab)	Pharmacy Practice - XI B (Advance Pharmacy Practice Experience)	2
Credit Hours		**18**

NB: This curriculum plan conforms to the current guidelines of the Higher Education Commission of Pakistan (HEC) for the program. These are subject to change by the HEC. Please refer to SHU website for latest information.

SALIM HABIB UNIVERSITY

BS COMPUTER SCIENCE

BS Computer Science

The BS Computer Science program at SHU offers an exceptional blend of theoretical research and extensive practical training. It molds its students into skillful professionals ready to take up real-world challenges in their professional lives. A strong curriculum is offered by highly qualified PhD and MS faculty with reputable accomplishments in research, academic publications and industrial projects.

You are expected to develop an understanding of programming languages and acquire skills to coding creatively solve complex problems. You should develop expertise in state-of-the-art approaches to a diverse set of technologies and market-oriented skills and interact with internationally renowned research groups. You will be engaged in interdisciplinary activities to grasp fundamental technical knowledge. The program imparts the essential skills employers expect from top-quality computer science graduates and will prepare you for employment in a wide variety of industries as we envisage to see our graduates to be of diverse efficacy to higher education and in almost every sphere of life where computer skills are required.

Degree Offered	Entry Requirements	Internship Opportunities	
BS Computer Science Duration: 4 Years Semesters: 8 Credit Hours: 131	The applicants should have: • "Minimum 50% marks in HSC (Pre Engineering, Pre-Medical, Computer Science), or equivalent qualifications recognized by IBCC" • Qualify the Aptitude Test and Interview	• Software houses • Technology incubators • E-Commerce startups • Pharmaceutical companies • Financial institutions/banks	• Manufacturing industry • Multinational corporations

Tracks Offered		
Software Engineering	**Network and Security**	**Artificial Intelligence**
Develops knowledge and skills in computer programming, mobile programming, web development, and information security	Develops knowledge and skills in understanding network, routing, switching and security management	Develops knowledge and skills in the field of big data analytics, data mining and Machine learning

Program Objectives	Career Prospects
The program objectives are to prepare graduates with deep knowledge and outstanding computational skills that make them able to: • Demonstrate a sound understanding of computing fundamentals with an ability to exercise critical judgment across a range of related issues. • Critically analyze and design solutions for complex computing problems with best practices and use of modern tools and techniques. • Function and communicate effectively as an individual and as a leader / member of a team having understanding of professional ethics and social responsibility. • Adapt technological advancements through active participation in life-long learning to serve society.	Graduates will find opportunities in: • Technology Entrepreneurship • Data Science/Machine Learning and Artificial Intelligence based Industry • Game Development/Graphic Designing • Mobile Application/Web Development • Software Engineering • Ethical Hacking • Information System Security Analysis • Network and System Administration • Business Intelligence Development • Web Design and Development

Curriculum Plan For Pre-Engineering Students

Year 1

Semester 1

Course Code	Course Title	Credit Hours
CSC105	Programming Fundamentals	3+1
CSC104	Introduction to Information and Communication Technologies	2+1
MTH103	Calculus and Analytical Geometry	3
ENG101	Functional English	2+1
PST101	Pakistan Studies	2
Credit Hours		**15**

Semester 2

Course Code	Course Title	Credit Hours
CSC103	Object Oriented Programming (Prerequisites: CSC105)	3+1
CSC210	Discrete Structures	3
PHC103	Applied Physics	3
MTH111	Multivariate Calculus (Prerequisites: MTH103)	3
IST102	Islam and World Religions	2
Credit Hours		**15**

Year 2

Semester 3

Course Code	Course Title	Credit Hours
ELE204	Digital Logic Design (Prerequisites: PHC103)	3+1
CSC201	Data Structures and Algorithms (Prerequisites: CSC103)	3+1
ENG106	Presentation and Communication Skills (Prerequisites ENG101)	2+1
MTH208	Linear Algebra	3
XXXX	General Elective – I	3
Credit Hours		**17**

Semester 4

Course Code	Course Title	Credit Hours
CSC202	Computer Organization and Assembly Language (Prerequisites: CSC105)	3+1
MTH301	Statistics	3
MTH302	Numerical Analysis (Prerequisites:MTH103)	3
XXXX	General Elective – II	3
MTH209	Differential Equations (Prerequisites: MTH103)	3
HUS201	Community Service	1
Credit Hours		**17**

* Non Credit

Year 3

Semester 5

Course Code	Course Title	Credit Hours
CSC303	Theory of Automata	3
CSC301	Operating Systems (Prerequisites: CSC201)	3+1
CSC302	Software Engineering	3
CSC304	Database Systems (Prerequisites: CSC201)	3+1
CSC407	Artificial Intelligence (Prerequisites: CSC201)	3+1
Credit Hours		**18**

Semester 6

Course Code	Course Title	Credit Hours
CSC305	Computer Networks	3+1
CSC306	Design & Analysis of Algorithms (Prerequisites: CSC201)	3
CSCXXXX	CS Elective – I	3
CSCXXXX	CS Elective – II	3
XXXX	General Elective – III	3
Credit Hours		**16**

Year 4

Semester 7

Course Code	Course Title	Credit Hours
CSC401	Final Year Project – I (Prerequisites: CSC302, CSC304)	3
CSC402	Parallel and Distributed Computing (Prerequisites: CSC301)	3
CSC404	Information Security	3
CSCXXXX	CS Elective – III	3
ENG201	Technical and Business Writing (Prerequisites: ENG106)	3
CSC405	Professional Practices	3
Credit Hours		**18**

Semester 8

Course Code	Course Title	Credit Hours
CSC403	Final Year Project – II (Prerequisites: CSC401)	3
CSC406	Compiler Construction (Prerequisites: CSC303)	3
CSCXXXX	CS Elective – IV	3
CSCXXXX	CS Elective – V	3
XXXX	General Elective– IV	3
Credit Hours		**15**

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SALIM HABIB UNIVERSITY

Curriculum Plan For Pre-Medical Students

Year 1

Semester 1

Course Code	Course Title	Credit Hours
CSC105	Programming Fundamentals	3+1
CSC104	Introduction to Information and Communication Technologies	2+1
MTH110 *	Basic Mathematics I	0
ENG101	Functional English	2+1
PHC103	Applied Physics	3
PST101	Pakistan Studies	2
Credit Hours		**15**

Semester 2

Course Code	Course Title	Credit Hours
CSC103	Object Oriented Programming Prerequisites: CSC105	3+1
ENG106	Presentation and Communication Skills (Prerequisites: ENG101)	2+1
ELE203	Digital Logic Design (Prerequisites: PHC103)	3+1
MTH120 *	Basic Mathematics II	0
XXXX	General Elective – I	3
IST102	Islam and World Religions	2
Credit Hours		**16**

* Non Credit

Year 2

Semester 3

Course Code	Course Title	Credit Hours
MTH103	Calculus and Analytical Geometry	3
CSC201	Data Structures and Algorithms (Prerequisites: CSC103)	3+1
XXXX	General Elective – II	3
CSC210	Discrete Structures	3
XXXX	General Elective – III	3
Credit Hours		**16**

Semester 4

Course Code	Course Title	Credit Hours
CSC202	Computer Organization and Assembly Language (Prerequisites: CSC105)	3+1
MTH111	Multivariate Calculus (Prerequisites: MTH103)	3
CSC304	Database Systems (Prerequisites: CSC201)	3+1
MTH208	Linear Algebra	3
MTH301	Statistics	3
HUS201	Community Service	1
Credit Hours		**18**

Year 3

Semester 5

Course Code	Course Title	Credit Hours
CSC303	Theory of Automata	3
CSC301	Operating Systems (Prerequisites: CSC201)	3+1
CSC302	Software Engineering	3
MTH209	Differential Equations (Prerequisite: MTH103)	3
CSC407	Artificial Intelligence (Prerequisites: CSC210)	3+1
Credit Hours		**17**

Semester 6

Course Code	Course Title	Credit Hours
CSC305	Computer Networks	3+1
CSC306	Design & Analysis of Algorithms (Prerequisites: CSC201)	3
CSCXXXX	CS Elective – I	3
CSCXXXX	CS Elective – II	3
MTH302	Numerical Analysis (Prerequisites: MTH103)	3
Credit Hours		**16**

Year 4

Semester 7

Course Code	Course Title	Credit Hours
CSC401	Final Year Project–I Prerequisites: CSC304, CSC302	3
CSC402	Parallel and Distributed Computing (Prerequisites: CSC301)	3
CSC404	Information Security	3
CSCXXX	CS Elective – III	3
ENG201	Technical and Business Writing (Prerequisites: ENG106)	3
CSC405	Professional Practices	3
Credit Hours		**18**

Semester 8

Course Code	Course Title	Credit Hours
CSC403	Final Year Project–II (Prerequisites: CSC401)	3
CSC406	Compiler Construction (Prerequisites: CSC303)	3
CSCXXX	CS Elective – IV	3
CSCXXX	CS Elective – V	3
XXXXXX	General Elective – IV	3
Credit Hours		**15**

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SALIM HABIB UNIVERSITY

LIST OF ELECTIVES

S. No	Courses	Domain	Credit Hours
1	Mobile Application Development	Software Engineering	3
2	Web Engineering	Software Engineering	3
3	Software Quality Assurance	Software Engineering	3
4	Enterprise Resource Planning	Software Engineering	3
5	Simulation and Modelling	Software Engineering	3
6	DevOps	Software Engineering	3
7	Computer Vision	Artificial Intelligence	3
8	Data Science	Artificial Intelligence	3
9	Big Data Analytics	Artificial Intelligence	3
10	Machine Learning	Artificial Intelligence	3
11	Natural Language Processing	Artificial Intelligence	3
12	Human Computer Interaction	Artificial Intelligence	3
13	Deep Learning	Artificial Intelligence	3
14	Internet of Things	Network and Security	3
15	Digital Forensics	Network and Security	3
16	Cloud Computing	Network and Security	3
17	Ethical Hacking	Network and Security	3
18	Blockchain Technologies	Network and Security	3

BS ACCOUNTING AND FINANCE

SALIM HABIB UNIVERSITY

BS Accounting and Finance

The program includes: one, the body of knowledge of major accounting certifications offered by ICAP, ACCA, ICMAP and CIMA; two, the functional areas of the business necessary for developing a holistic understanding of a business enterprise; and three, courses within the realm of humanities, social sciences, and personal development that provide students with the intellectual grounding needed for creative thinking and strategy development.

The program focuses on developing technical knowledge and skills associated with Accounting and Finance, and their auxiliary areas like Audit, Banking, and Taxation. Hands-on understanding of the operations of national and international financial markets and instruments, including Pakistan Stock Exchange, Pakistan Mercantile Exchange, NYSE, NASDAQ, CBOT, LSE, forms a primary learning competency of the program. Intellectual grooming necessary for critical thinking, brainstorming and idea generation, and insight into the real business environment through experiential learning courses based on action-learning methodological approach are also major components of the program.

Degree Offered	Entry Requirements	Internship Opportunities	
BS Accounting and Finance Duration: 4 Years Semesters: 8 Credit Hours: 136	The applicant should: • Have 45% marks in HSC/A-level or equivalent qualification • Qualify the Aptitude Test and Interview	• Commercial Banks • Audit firms • Brokerage houses • Insurance companies • Multinational corporations	• Corporate treasuries • Multinational corporations • Regulatory bodies • Management consultancies • Venture Capital Firms

Tracks Offered				
Financial and Management Accounting	Corporate Finance	Capital Markets and Investment Management	Auditing and Taxation	Banking and Risk Management
Provides in-depth conceptual and technical knowledge of Accounting with rigorous application of international financial reporting standards	This track features a platform for discussing the value impact of tactical and strategic financial activities such as working capital management, capital structure decision, capital budgeting decisions, and important business decisions in corporate acquisitions and restructuring	This track focuses on areas such as Equity and Fixed-income Analysis, Institutional and Private Wealth Management, Financial Derivatives, and various types of money management frameworks	The track covers the concepts, practices, and regulations in the fields of auditing and taxation	This track deals with: • Management of financial institutions with an emphasis on credit management, asset liability management, and regulatory compliances. • Risk management of financial and non-financial institutions with an emphasis on interest rate risk management, credit risk management, market risk management, operational risk management, currency risk management, and related regulations

Program Objectives	Career Prospects
To equip graduates with contemporary and marketable knowledge, skill-sets, and personality traits to: • Enable them to work Proficiently in an accounting or finance department at an entry level managerial position • Embark on studies at post graduate and doctorate levels • Pursue accounting certifications such as CFA, CA, ACCA, ACMAP, ACMA(UK) CMA(USA), FRM(USA), and CIA(USA).	Graduates will find opportunities in: • Commercial banks, Insurance companies, and Finance companies • Investment banks, AMCs, and brokerage houses • Audit firms and tax advisory consultancies • Accounting and finance departments • Risk management and Compliance departments • Management consultancies • Consumer banking departments • Structured product departments

Curriculum Plan

Year 1

Semester 1

Course Code	Course Title	Credit Hours
CSC106	Introduction to Computer Applications	3
ENG101	Functional English	3
ACC101	Introduction to Accounting	3
MGT101	Principles of Management and Leadership	3
HUM101	Foundation of Human Behavior	3
Credit Hours		**15**

Semester 2

Course Code	Course Title	Credit Hours
ECO102	Microeconomics	3
MTH107	Business Mathematics	3
MKT101	Principles of Marketing	3
ACC106	Financial Accounting and Corporate Reporting	3
IST102	Islam and World Religions	2
PDV103	Personal Development and Career Planning	2
Credit Hours		**16**

Summer Semester

Course Code	Course Title	Credit Hours
IIP100	Industry Immersion Project - I (Community Service)	0
Credit Hours		**0**

Year 2

Semester 3

Course Code	Course Title	Credit Hours
ENG105	Presentation and Communication Skills	3
MTH104	Introduction to Business Analytics	3
FIN206	Introduction to Finance	3
PHI101	Philosophy, Logic, and Critical Thinking	3
ACC202	Computerized Accounting Applications	3
PST101	Pakistan Studies	2
Credit Hours		**17**

Semester 4

Course Code	Course Title	Credit Hours
ACC201	Advanced Financial Accounting and Reporting	3
ACC203	Cost Management	3
FIN204	Financial Management	3
FIN207	Emerging Trends in Accounting & Finance	2
ECO203	Macroeconomics	3
PDV203	Arts and Literature	2
Credit Hours		**16**

Summer Semester

Course Code	Course Title	Credit Hours
IIP200	Industry Immersion Project - II (Corporate)	0
Credit Hours		**0**

SALIM HABIB UNIVERSITY

Year 3

Semester 5

Course Code	Course Title	Credit Hours
ENG306	Applied Business Communication	3
FIN302	Financial Institutions and Markets	3
LAW202	Legal Environment for Business in Pakistan	3
ACC303	Performance Management	3
MTH304	Business Analytics (Modelling & Forecasting)	3
ACC210	Audit & Assurance	3
Credit Hours		**18**

Semester 6

Course Code	Course Title	Credit Hours
FIN303	Regulations & Financial Markets	3
CSC307	Introduction to MIS and ERP	3
ACC304	Financial Statement Analysis	3
FIN304	Investment Analysis	3
ACC302	Data Analytics for Accounting & Finance	3
MGT305	Business Research Methods	3
Credit Hours		**18**

Year 4

Semester 7

Course Code	Course Title	Credit Hours
MGT401	Entrepreneurship	3
FIN411	Islamic Finance	3
ACC402	Principles of Taxation	3
FIN409	Derivatives and Risk Management	3
XXXxxx*	Accounting/Finance Elective-I	3
MGT407	ELP -1	3
Credit Hours		**18**

Semester 8

Course Code	Course Title	Credit Hours
MGT406	Business Strategy	3
FIN412	Fintech: Foundations & Applications	3
XXXxxx*	Accounting/Finance Elective-II	3
XXXxxx*	Accounting/Finance Elective- III	3
XXXxxx*	Accounting/Finance Elective- IV	3
MGT408	ELP – 2	3
Credit Hours		**18**

*Every elective course has a unique course code.

NB: This curriculum plan conforms to the current guidelines provided by the Higher Education Commission of Pakistan (HEC). However, these guidelines are subject to changes made by the HEC. Please refer our SHU websites for latest information.

"Knowledge is power."
Sir Francis Bacon

SALIM HABIB UNIVERSITY
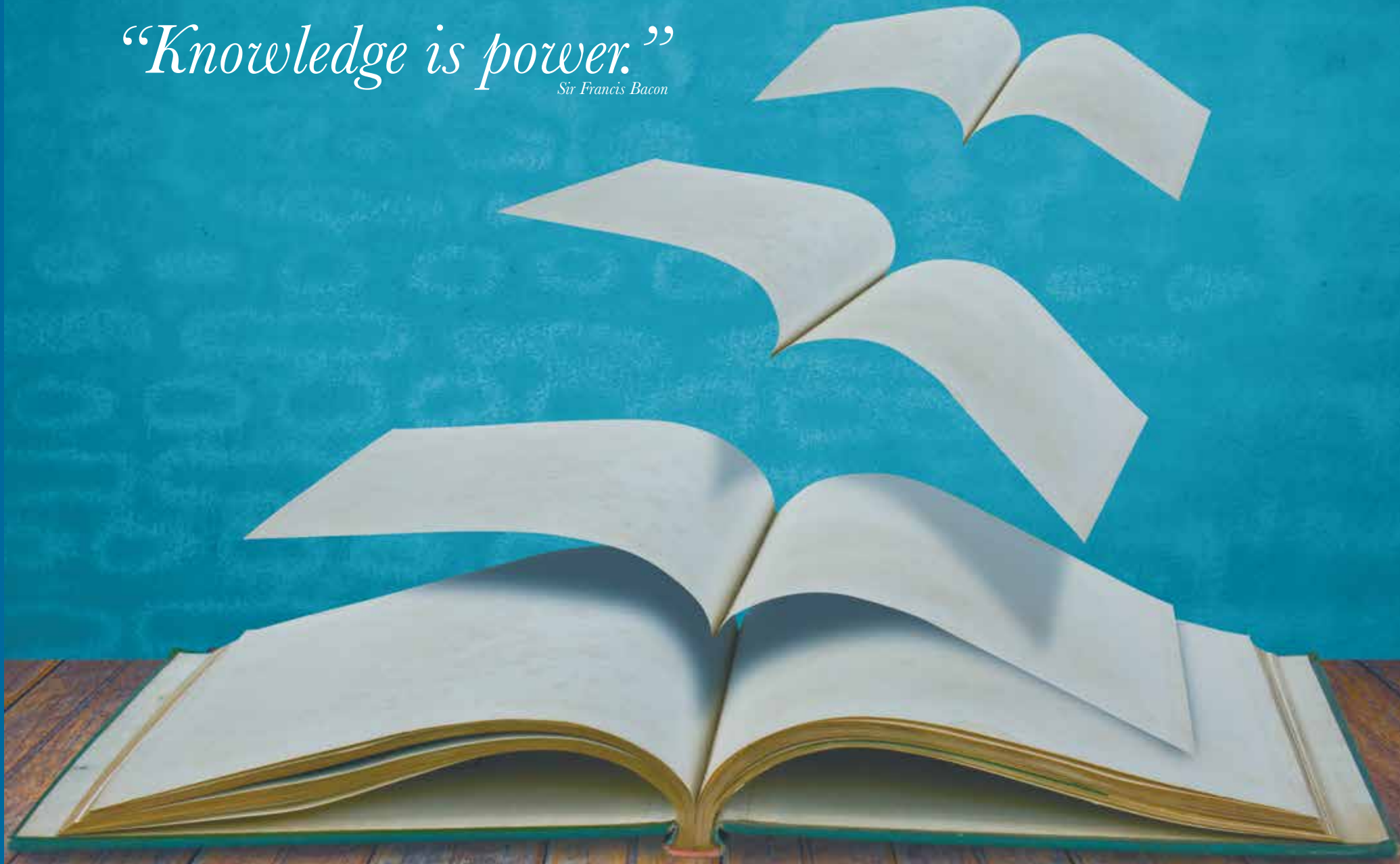
BACHELOR OF BUSINESS ADMINISTRATION

BBA

The program has been developed based on a comprehensive evaluation of the curriculums of BBA programs offered at international universities, and those in Pakistan. The objective of the program is to develop foundational knowledge of the students in all major areas of business as well as to develop their personal competencies to understand, appreciate, think, and act strategically in a fast paced environment.

The program incorporates a number of innovative elements in its curriculums which include: the allowance for electives in the area of liberal sciences, natural sciences, computer sciences, and law. The programs also includes workshops on arts and literature, and workshop on personal development and career planning. Additionally, there is the provision for trading lab to introduce students to the environment and valuation of securities and derivatives; use of language lab for teaching langauges and business communications; and the provision of experiential learning courses involving operational enterprise assignments are also a core competencies of the program.

Degree Offered	Entry Requirements	Internship Opportunities	
BBA Duration: 4 Years Semesters: 8 Credit Hours: 136	The applicants should: • Have 45% marks in HSC /A-levels or equivalent qualification • Qualify the Aptitude Test and Interview	• FMCGs • Banks • Multinational companies • Advertising agencies • Media houses	• Pharmaceutical companies • NGOs • Public sector enterprises • Startups

Tracks Offered				
Digital Marketing	Technology Management and Innovation	Human Resource Management	Finance and Banking	Intrapreneurship and Startup Management
Prepare students to learn and apply online digital media marketing tools and techniques	Prepare students for the application of management skills for the proper use of technology	Designed to produce competent human resource professionals equipped with requisite soft skills	Designed to encompass various functional areas of banking and finance	Grooms students to take initiatives within established organizations, or initiate their own business ventures

Program Objectives	Career Prospects
To prepare graduates with knowledge, skills and aptitude to: • Be acquainted with business dynamics and functionalities, practices and processes • Understand the role of economics in the global marketplace • Acquire awareness of local and global business issues • Develop effective business communication skills	Graduates will find opportunities in: • Brand management • Marketing management • Technology management • Finance management • Operations management • Sales management • Digital marketing • Social media planning • Human resource management • Project management • Entrepreneurship and startup management • Market analysis • Management consultancy

Curriculum Plan

Year 1

Semester 1

Course Code	Course Title	Credit Hours
CSC106	Introduction to Computer Applications	3
ENG101	Functional English	3
ACC101	Introduction to Accounting	3
MGT101	Principles of Management and Leadership	3
HUM101	Foundation of Human Behavior	3
Credit Hours		**15**

Semester 2

Course Code	Course Title	Credit Hours
ECO102	Microeconomics	3
MTH107	Business Mathematics	3
MKT101	Principles of Marketing	3
ACC106	Financial Accounting and Corporate Reporting	3
IST102	Islam and World Religions	2
PDV103	Personal Development and Career Planning	2
Credit Hours		**16**

Summer Semester

Course Code	Course Title	Credit Hours
IIP100	Industry Immersion Project - I (Community Service)	0
Credit Hours		**0**

Year 2

Semester 3

Course Code	Course Title	Credit Hours
ENG105	Presentation and Communication Skills	3
MGT201	Organizational Behavior and Leadership	3
FIN206	Introduction to Finance	3
PHI101	Philosophy, Logic, and Critical Thinking	3
MTH104	Introduction to Business Analytics	3
PST101	Pakistan Studies	2
Credit Hours		**17**

Semester 4

Course Code	Course Title	Credit Hours
MKT201	Consumer Behavior	3
MGT205	Human Resource Management	3
FIN204	Financial Management	3
MTH203	Calculus with Applications	3
ECO203	Macroeconomics	3
PDV203	Arts and Literature	2
Credit Hours		**17**

Summer Semester

Course Code	Course Title	Credit Hours
IIP200	Industry Immersion Project - II (Corporate)	0
Credit Hours		**0**

Year 3

Semester 5

Course Code	Course Title	Credit Hours
ENG306	Applied Business Communication	3
MTH304	Business Analytics (Modelling & Forecasting)	3
ECO301	Financial Institutions and Markets	3
LAW202	Legal Environment for Business in Pakistan	3
ACC306	Accounting for Management Decisions	3
FIN306	Securities Trading & Applied Economics	2
Credit Hours		**17**

Semester 6

Course Code	Course Title	Credit Hours
MGT305	Business Research Methods	3
MGT301	Operations and Project Management	3
XXXxxx*	Business Majors Elective I	3
ECO401	Pakistan Economy	3
XXXxxx*	Natural Science/Social Science/Humanities Elective-I	3
LAN304	Foreign Language	3
Credit Hours		**18**

Year 4

Semester 7

Course Code	Course Title	Credit Hours
MGT401	Entrepreneurship	3
MKT401	Marketing Research	3
MGT404	Business Simulations	3
MGT407	ELP - 1	3
XXXxxx*	Business Majors Elective-II	3
XXXxxx*	Business Minors Elective-I	3
Credit Hours		**18**

Semester 8

Course Code	Course Title	Credit Hours
MGT406	Business Strategy	3
HUM401	Business Ethics	3
XXXxxx*	Business Majors Elective-III	3
XXXxxx*	Business Majors Elective-IV	3
XXXxxx*	Business Minors Elective-II	3
MGT408	ELP - 2	3
Credit Hours		**18**

*Course code for the electives is subject to the course offered

NB: This curriculum plan confIrms to the current guidelines provided by the Higher Education Commission of Pakistan (HEC) for the program. However, these are subject to change by the HEC. Please refer to SHU websites for latest information.

MASTER OF BUSINESS ADMINISTRATION

SALIM HABIB UNIVERSITY

MBA

The Salim Habib University MBA program aims to be a transformational master's degree program where the students end up with so much more than a master's degree. Careers often change, industries disrupt and the world changes itself, with the offerings at MBA program at SHU the students will not only keep pace with that pervasive change, in fact will drive it as wholesome individuals who know their unique place in the global community.

The MBA program at SHU has been designed to be highly competitive, versatile, and pragmatic in its orientation and pedagogical approaches. It will cater to the current demands of the private sector, non-profit non-government, as well as government agencies. It has all the scientifically recognized scaffoldings to instill internationally recognized competencies among students of diverse backgrounds to succeed as managers, public sector's administrators, non-profit organization employees, sociopreneuers, and entrepreneurs in assorted careers of their choosing.

The program offers a range of competitive higher level curricula on top of core courses to give strong foundations to its students. Students will have numerous options to configure the combination of their higher-level electives to choose from multiple majors and minors. The value-added feature of the program is its methodological approach to inculcate academic knowledge through industry immersion projects; a feature derived from cutting edge American Universities' curricula for MBA programs. Another distinguishing feature of the MBA program at Salim Habib University is the inclusion of a course on Action Research which comprises of various tools and methodologies for systematically examining industry problems, and the development of their solutions; and the capstone project which involves the application of this learning to a real industry problem, thus providing the students with experiential basis of practical implications and subtleties of a real world scenario.

Degree Offered	Entry Requirements	Internship Opportunities
MBA Duration: 1.5 years Semesters: 3 Credit Hours: 30	• Candidates should have 16 years of business discipline 50% marks in last acquired degree with minimum of 2.0 CGPA • Aptitude test and interview	• FMCG • Banks • Brokerage Companies • Asset Management Companies • Multinationals • Advertising Agencies • Market Research Firms • Media Houses • Health and Pharma Companies • NGOs • Public Sector Enterprises • Startups
MBA Duration: 2 years Semesters: 4 Credit Hours: 60	• 16 years of education in non-business disciplines; e.g. BS, MSc or equivalent with minimum 50% marks in last acquired degree or 2.0 CGPA • Aptitude test and interview	
BBA Duration: 2 years Semesters: 4 Credit Hours: 75	• 14 years of education in non-business disciplines; e.g. BA, BSc, Bcom, with 50% marks in last acquired degree or 2.0 CGPA • Aptitude test and interview	

Tracks Offered*				
Pharmaceutical Management & Marketing	**Supply Chain Management**	**Management Information Systems**	**Integrated Human Resource Management**	**Marketing in Digital Age**
This specialization is designed to fulfill the demand of pharmaceutical industry for managerial positions and making students instrumental for catering a competitive edge.	This track will connect the student to the decision making regarding the procurement, logistics, product forecasting, and ERP.	Management information systems track will familiarize students with the use of technology to manage huge volumes of business-relevant information to assist in strategic decision-making and to improve a company's operation.	This track will help students to be instrumental and making them competent human resource professionals who have significant human skills	This specialization covers various functional areas of marketing as per requirement of modern age along with marketing solutions of real time and will prepare students for modern technology management in Marketing.

Finance	**Program Objectives**
Finance track will train students with analytical skills and knowledge for use of financial information in business decision making, global financial systems and market, and learn to examine and evaluate source of finance and access to capital markets. *Tracks will be offered subject to 1/3 majority of student's enrollment in track	Our students will master the following competencies after the completion of their degrees • They will understand the forces that shape a particular economic, legal and regulatory environment, and thus appreciate the impact of one's decisions on society at large. • They will have effective writing and speaking skills. • They will understand team dynamics while exercising their leadership skills. • They will have a commitment to fostering up-to-date, cutting edge knowledge of business disciplines. • They will acquire skills for effective employment of technology in organizational setting. • They will develop personal and professional interest in developing others, and will exhibit through their conduct the belief that every person deserves space and dignity. • They will appreciate social, legal, and ethical responsibilities as an individual, and as an employee of an organization, under the ambit of Corporate Social Responsibility (CSR). • They will develop insight and skillset required for meaningful evidence-based quantitative analysis.

Career Prospects

Our MBA Program is aimed at being more than a resume enhancement or a means to an end. It is aimed as an experience that will shape the entire career of the students, and prepare them to navigate the economic, social, and other complex changes of the future. The scope of opportunities available for MBA graduates goes beyond the needs of the business enterprises to cover governmental agencies, and non-governmental welfare enterprises which are increasingly becoming cognizant of the enhanced efficacy that a business professional brings to an organization. The following are a few of the areas that define scope of the MBA Program.

- Entrepreneurial Management
- Product/Brand Marketing
- Sales Management
- Marketing Management
- Market Analytics/Data Science
- Advertising
- Media Management

- Marketing Research
- Supply Chain Management
- Business Development
- Human Resource Management
- Operations/Production Management
- Regulatory Affairs Management
- Real Estate Management

- Project Management
- Strategy Consulting
- Computer and Information Systems Management
- Technology Management
- Investment Banking
- Risk Management

- Sales, Trading, and Brokerage
- Private Equity
- Insurance, Pension Funds
- Health Care Management
- Pharmaceutical Management
- Governmental Service Management

SALIM HABIB UNIVERSITY

Master of Business Administration (MBA)
Semester-wise Study Plan MBA-1.5 Years (30 Credit Hours)

Year 1

Semester 1		
Course Code	**Course Title**	**Credit Hours**
FIN501	Strategic Finance and Investment	3
MTH501	Business Analytics (Modelling & Forecasting)	3
MKT511	Strategic Marketing	3
MGT 516	Research Methods for Business Managers	3
Total Credit Hour		**12**

Semester 2			
Course Code	**Course Title**	**Credit Hours**	**Pre-requisite**
MGT515	Strategic Management	3	
ELVXXXX	Business Elective-I	3	MKT511 or FIN501
ELVXXXX	Business Elective-II	3	MKT511 or FIN501
MBM701(I)	Thesis I Industrial Project-1	3	MGT516
Total Credit Hour		**12**	

Year 2

Semester 3			
Course Code	**Course Title**	**Credit Hours**	**Pre-requisite**
ELVXXX	Business Elective-III	3	MKT511 or FIN501
XXXX	Thesis II/ Industrial Project II	3	MGT516, MBM701(I)
Total Credit Hour		**6**	

Master of Business Administration (MBA)
Semester-wise Study Plan MBA-2 Years (60 Credit Hours)

Year 1

Semester 1

Course Code	Course Title	Credit Hours
ACC401	Financial Accounting and Corporate Reporting	3
MTH401	Introduction to Business Analytics	3
MGT403	Business Management and Leadership	3
ENG405	Applied Business Communication	3
MKT402	Marketing (Theory & Application)	3
Total Credit Hour		**15**

Semester 2

Course Code	Course Title	Credit Hours	Pre-requisite
MGT303	Organizational Behavior & HR Practices	3	MGT403
LAW301	Legal Environment for Business in Pakistan	3	
FIN301	Finance for Business Managers	3	ACC401
ACC305	Accounting for Management Decisions	3	ACC401
MGT517	Methods for Business Research	3	MTH401
Total Credit Hour		**15**	

Year 2

Semester 3

Course Code	Course Title	Credit Hours	Pre-requisite
ECO302	Business Economics	3	
FIN501	Strategic Finance and Investment	3	FIN301
MTH501	Business Analytics (Modeling & Forecasting)	3	MTH401
XXXX	Business Elective – I	3	MGT403 or MKT402
MBM701(I)	Thesis I / Industrial Project I	3	MGT517
Total Credit Hour		**15**	

Semester 4

Course Code	Course Title	Credit Hours	Pre-requisite
MKT511	Strategic Marketing	3	MKT402
MGT515	Strategic Management	3	MGT403
XXXX	Business Elective – II	3	MGT403 or MKT402
XXXX	Business Elective – III	3	MGT403 or MKT402
XXXX	Thesis II/ Industrial Project II	3	MGT517, MBM701(I)
Total Credit Hour		**15**	

SALIM HABIB UNIVERSITY

Bachelor of Business Administration Two Years Weekend Program Semester-wise Study Plan (75 Credit Hours)

Year 1

Semester 1

Course Code	Course Title	Credit Hours
ACC401	Financial Accounting and Corporate Reporting	3
MTH401	Introduction to Business Analytics	3
MGT403	Business Management and Leadership	3
ENG405	Applied Business Communication	3
MKT402	Marketing (Theory &Application)	3
Credit Hours		**15**

Semester 2

Course Code	Course Title	Credit Hours	Pre-req
MGT303	Organizational Behavior & HR Practices	3	MGT403
LAW301	Legal Environment for Business in Pakistan	3	
FIN301	Finance for Business Managers	3	ACC401
ACC305	Accounting for Management Decisions	3	ACC401
ECO302	Business Economics	3	
Credit Hours		**15**	

Summer Semester

Course Code	Course Title	Credit Hours
IIP401	Industry Immersion Project (Mandatory Supervised Internship)	3
PST401	Pakistan Studies	3
PDV403	Arts & Literature	3
Credit Hours		**9**

Year 2

Semester 3

Course Code	Course Title	Credit Hours	Pre-req
MGT503	Application of Quantitative Techniques in Research	3	MTH401
ENG406	Presentation & Communication Skills	3	ENG405
SCM402	Supply Chain Management	3	MGT403
PHI401	Philosophy, Logic & Critical Thinking	3	
MIT410	Introduction to MIS & ERP	3	
Credit Hours		**15**	

Semester 4

Course Code	Course Title	Credit Hours	Pre-req
MGT513	Entrepreneurship	3	FIN301, MGT303, ECO406
ENG407	Communication Skills for Negotiations	3	ENG406
MKT512	Marketing Research	3	MKT402, MGT503
MGT515	Strategic Management	3	MKT402, MGT503, MGT303, LAW301, FIN301 , ACC301
MGT514	Business Ethics	3	PHI401, MGT303
Credit Hours		**15**	

Summer Semester

Course Code	Course Title	Credit Hours	Pre-req
IST401	Islam & World Religions	3	ACC305
FIN402	Securities Trading & Applied Economics	3	FIN301
Credit Hours		**6**	

SALIM HABIB UNIVERSITY

Admissions Policy

General

To obtain admission candidates must meet the minimum academic eligibility requirements for the concerned program, clear the Aptitude Test and interview and pay the prescribed fee. Applicants who are waiting for the announcement of their results will be granted provisional admission, based on the result of first year equivalent exam or awaiting result for the 2nd year of HSC/A-Level examination as specified by the admission policy.

Requirements for Admission

To gain admission, candidates must meet the following requirements:

- Apply online and register for appearing in the Aptitude Test
- Pay the Admission processing fee before of collection of the admit card for the Aptitude Test
- Qualify the Aptitude Test OR provide proof for exemption by providing transcripts of SAT I/SAT II (score of 1200 or above) as applicable
- Appear for an interview
- Provide equivalence certificate in case of holders of degrees/certificates issued by non-Pakistani Universities/Boards
- Salim Habib University acknowledges the merit of all meritorious students through scholarships and provide financial support to all deserving students to meet their demonstrated financial need. For further details please visit our website https://www.shu.edu.pk/fee-structure-financial-aid
- Entrance scholarships are granted between 50% to 100%, depending upon the candidate's merit score.

Objectives

Aptitude Test: To evaluate the candidate's abilities in quantitative, analytical and logical reasoning, communications skills, reading comprehension, grammatical and general aptitude for the program.

Interview: To ascertain whether the candidate has the qualities needed to succeed in the chosen program of study along with the potential to contribute positively to society.

Weightage Criteria

Previous Academic Performance	30%	SHU Entrance Testing	70%	Weightage Criteria for Biomedical Engineering	
• SSC	10%	• SHU Aptitude Test (ETS / SAT)	50%	• Passing marks on entry test	33%
• HSC	20%	• Essay Writing	10%	• HSSC/A-level / relevant DAE	50%
or		• Interview	10%	• SSc/ O-level	10%
• O-A Level (or Equivalent)	30%		70%	• Interview	07%

Provisional Offer

All offers of admission made to successful candidates will be provisional and subject to candidate's meeting the minimum eligibility criteria, verification of academic credentials, and paying the prescribed fee.

Academic Eligibility Requirements for Admission

Program	Eligibility Criteria	Required Percentage
BS Biosciences	HSC Pre-Medical or Pre-Engineering O/A Level (Physics, Chemistry, Math or Biology)	45 45
BS Accounting & Finance	HSC O/A Level	45 45
BBA	HSC O/A Level	45 45
BS Computer Science	HSC Pre-Engineering / Pre-Medical / Computer Science or eqtuivalent qualification with mathematics certified by IBCC.	50 50
BE Biomedical Engineering	HSC Pre-Engineering & Pre-Medical & Computer Science O/A Level (Physics, Chemistry and Biology/Math/D.A.E) D.A.E, or B.Sc. or Equivalent	60 60 60
Pharm D	HSC Pre-Medical O/A Level (Physics, Chemistry and Biology)	60 60
MBA	16 years of Education / 4 years Bachelor's Degree	50 or 2 CGPA

SALIM HABIB UNIVERSITY

Exemption and Transfer of Credits

- Eligible candidates may apply for transfer of courses/credits and professional certification (where required) from other HEC recognized universities to the degree programs at SHU
- The University reserves the right to accept or reject any or all of such requests
- The University may consider waiving off SHU Aptitude Test for those candidates who have already cleared an equivalent test; however, the concerned candidates will be required to appear for interview and provide valid transcripts in original of the courses undertaken/credit achieved from their previous institution
- A minimum of 50% of total degree credits must be completed at SHU
- The courses transferred shall be recorded in the final transcript as being transfer of credits
- The transfer of credit will be subject to the SHU policy and approval of Deans' committee

Fee Structure

Amount in Rupees

Programs	Tuition Fee	Lab Fee
PharmD,	132,000	10,000
BBA, BS (Accounting & Finance) & BS (Computer Science)	121,000	Nil
BME & BS (Biosciences)	121,000	10,000
MBA (Per Credit Hours)	6,150	

Other Charges	Rupees
Admission Fee (Non-Refundable)	15,000
Security Deposit (Refundable)	10,000
Exam Fee (Per Semester)	5,000
Student Activity Fund (Per Semester)	5,000

SHU Scholarship and Financial Assistance Schemes

Salim Habib University, with the generous support of its parent organization, The Salim Habib Education Foundation, offers comprehensive Scholarship and Financial Assistance Schemes. The aim of the Scholarship Scheme is to encourage meritorious students to pursue their educational goals at SHU.

For details please access.

http://www.shu.edu.pk/fee-structure

Sibling's Discount, Student Loans, Fee Installments and **HEC** mandated Need Based Financial Assistance options are also available
(terms & conditions apply)

Examination Policy

The following grading scheme will be used for the overall evaluation and assessment of the students:

The University adopts a Semester system of education consisting of:

- Two regular semesters (Fall and Spring)
- One short Summer semester

Regular semesters consist of 16 weeks of teaching including one week for midterm examinations and an additional two weeks for the final semester examinations. The Summer Semester consists of 8 weeks of teaching including midterm and final examinations.

Students are required to finish all their degree requirements within the stipulated time period:

- Undergraduate program – 4 years (7 years maximum)
- Undergraduate program (Pharmacy) – 5 years (8 years maximum)

Attendance Policy

Students are required to maintain a minimum of 80% attendance in each subject to be eligible to appear in the final semester examinations. Students who fall short on attendance may be awarded 'F' grade.

Methods of Assessment and Evaluation

Student assessment and evaluation is based on the following techniques for theory courses with distribution of marks as mentioned against each:

- Midterm Examinations (1½ Hours)   20%
- Quizzes/assignments/mini projects/presentations etc.   30%
- Final Semester Examinations (2½ Hours)   50%

As a policy, students will be shown marked answer scripts for all of their examinations.

Grading Scheme

System of Education

Percentage of Marks	Grade	Grade Point	Remarks
85-100	A	4.0	Outstanding
80-84	A-	3.66	Excellent
75-79	B+	3.33	Very good
71-74	B	3.0	Good
68-70	B-	2.66	Average
64-67	C+	2.33	Satisfactory
61-63	C	2.0	Adequate
58-60	C-	1.66	Pass
54-57	D+	1.30	Pass
50-53	D	1.0	Pass
Below 50	F	0.0	Fail
	W	-	Withdrawal of course
	I	-	Incomplete

SALIM HABIB UNIVERSITY

Facilities and Services

At Salim Habib University, students are at the heart of everything that we do. The essence of the University begins with the overall campus, which has been developed to provide a balance of curricular, co-curricular and extra-curricular spaces aesthetically blend to give an ambiance of openness, greenery and grandeur architecture.

Academic Block
The largest of the building structures; the Academic block houses all the instructional spaces; comprising classrooms, seminar halls, science and engineering laboratories, equipped with state-of-the-art teaching and learning equipment and aids. All spaces are centrally air-conditioned; well spread out and provide enough circulation area. The Block also houses community spaces such as three lecture theatres to seat up to 100 students each, a multi-purpose hall cum auditorium with capacity of 350 students and a well-appointed cafeteria built to international standards to serve as many as 350 persons at a time.

Sports Complex
An ideal location for extra-curricular activities and recreation, the facility houses an indoor swimming pool, basketball, badminton and squash courts along with professional level cross training equipment. For those students who like to spend time outdoors, the lush green football ground and the volleyball court provide exciting options, while the walking track presents yet another option.

Connectivity
At SHU, technology is at the forefront of all that we do. From our classrooms to the state-of-the-art computer labs our emphasis is on providing our students with the best quality resources. All computer labs are equipped with 'All in One' computers, while campus-wide WIFI connectivity and a large bandwidth of internet supports all kinds of ICT activities.

Library
The uniquely designed split-level Library forms the central knowledge repository at SHU. Forming the epicenter amidst the academic block, the Library is spread over 4 floors housing in excess of 15,000 volumes of curriculum books and several international journals with notable impact factor. Administered by an online system, students can inquire about book availability and reserve books without having to physically come to the library.

Student Affairs
At SHU, the student experience is characterized not only by academics but also through a host of co-curricular activities in the form of clubs, societies and sports. The Student Affairs department is committed to ensuring that the time spent on campus is meaningful and memorable for all our students. Aside from recreational activities, the department also provides career counseling services to all our students ensuring that the decisions they make are informed ones.

Security
Constructed in a composite manner, the SHU campus is surrounded by high barbed wire equipped perimeter walls on all four sides. Physical security is bolstered with the presence of electronic surveillance devices, a vigilant section of security guards and SOPs to ensure that contraband and unauthorized presence is deterred and promptly prosecuted where required.

SHU Centre for Learning and Teaching (CLT)

SHU firmly believes that students deserve the best possible knowledge from the teaching faculty. It has hired teachers based not only on their advanced degrees but also expect them to enhance their teaching potential on a regular basis. The Center will fulfill this requirement by having CLT assigned a twin role, first as Quality Enhancement Cell and secondly being instrumental in providing opportunities for enhancing their pedagogical skills. CLT is thus specifically charged to the following:

- Work with permanent and visiting faculty, departments, and co-curricular units to advance best practices in all aspects of curriculum, instruction, and assessment.

- Share knowledge of evidence-based, student-centered, and outcomes-guided pedagogy.

- Help improve the quality of education; providing expertise and build collective knowledge in teaching and learning; and leveraging resources and opportunities for faculty enrichment.

- Promote iterative experimentation and transformation across curriculum to enhance student learning and engagement.

- Support teaching methodologies that recognize the diversity of learning styles, responding to the differences in learning styles, and creating an inclusive learning environment.

- Bring together and build dialogues and mutually beneficial partnerships and cross-functional teams.

- Recognize and value teaching excellence; make high quality pedagogy visible; and reward faculty for their contributions to teaching and learning.
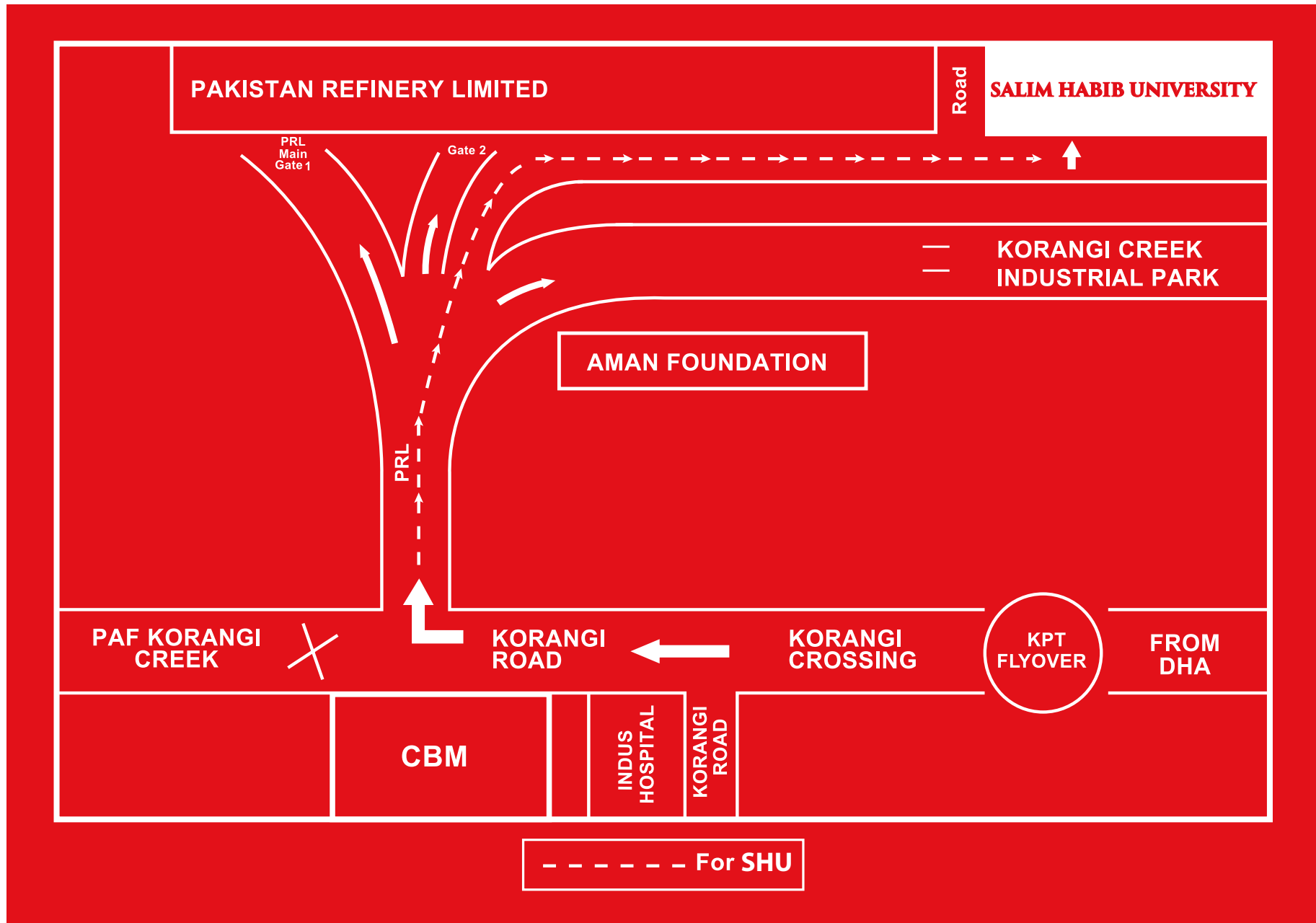
SALIM HABIB CENTER OF LEARNING AND TEACHING

Marketing in the Digital Era

SALIM HABIB CENTER OF LEARNING AND TEACHING

SALIM HABIB UNIVERSITY

PAKISTAN REFINERY LIMITED

Road

SALIM HABIB UNIVERSITY

PRL Main Gate 1

Gate 2

KORANGI CREEK INDUSTRIAL PARK

PRL

AMAN FOUNDATION

PAF KORANGI CREEK

KORANGI ROAD

KORANGI CROSSING

KPT FLYOVER

FROM DHA

CBM

INDUS HOSPITAL

KORANGI ROAD

— — — — — — For **SHU**

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SALIM HABIB UNIVERSITY