



LUMS
A Not-for-Profit University

Learning *Without* Borders



MASTER OF SCIENCE
**TECHNOLOGY
MANAGEMENT &
ENTREPRENEURSHIP**
FALL 2022

Suleman Dawood School of Business

IMAGINE
YOUR
FUTURE



MESSAGE FROM THE HONORARY DEAN

Few things are as powerful in moving humankind to the next stage of evolution as technological advancement. Old technologies such as calendars, compasses, and ships and newer ones such as smart tablets, digitised systems, computers, robots, blockchain systems, smart cities, and artificial intelligence have all made our lives easier, faster, and better in different ways. Today, civilisation and technology have become inseparable from one another. It is this that makes management capability essential in taking technological innovations forward. Similarly, entrepreneurs seek innovative solutions to financial, social, and practical issues. They change the way we live, work and experience things. The Master of Science (MS) in Technology Management and Entrepreneurship is a programme that will take you to the heart of technological, entrepreneurial, and societal issues so you can engage in intelligent disruption and drive desirable changes in people's lives.

If you want to be in the driving seat of change rather than a rider, join the Suleman Dawood School of Business (SDSB) and become a force of positive change. Come and see how this MS degree will help you move the world forward while creating value.

DR. ALNOOR BHIMANI
HONORARY DEAN
SULEMAN DAWOOD SCHOOL OF BUSINESS



MESSAGE FROM THE PROGRAMME DIRECTOR

Technology and innovations are developing at an increasing rate as new products and services are rapidly improving our lives in significant ways. Tech innovation managers and entrepreneurs who know how to lead technological changes in entrepreneurial practices are high in demand to capitalise on process and product development opportunities. This unique and integrated programme by SDSB provides you with an opportunity to lead your future as an entrepreneur and innovator. We offer an exciting classroom environment for you to grasp how to identify big problems and view them differently to create unique and creative solutions. World-class faculty, an Executive in Residence, industry mentors, an applied approach and access to incubators, technology labs, engineering and design resources prepare you to focus on entrepreneurial and innovation processes by which inventions and creative ideas are brought to market to create meaningful impact.

The MS Technology Management and Entrepreneurship programme aims to immerse and nurture a generation of technically grounded leaders in a world of innovation and entrepreneurship opportunities through one year of rigorous coursework. You will benefit from small class sizes and dedicated faculty advisors that provide one-on-one guidance. In terms of aptitudes and skills, you will develop a combination of technical and business expertise relevant to large incumbent firms and start-up ventures alike. For the capstone, you will be doing a field placement that will enable you to assess emerging technologies and be exposed to vibrant entrepreneurial and business ecosystems.

If you share a strong drive and passion for both technology and entrepreneurship and aspire to impact the world, we are waiting for you to join our community.

SARAH PERVEZ
TEACHING FELLOW &
PROGRAMME DIRECTOR

SULEMAN DAWOOD SCHOOL OF BUSINESS

The Suleman Dawood School of Business at LUMS is Pakistan's top business school. Its high calibre students, distinguished faculty, established recruiters, and institutional and environmental impacts are all testimony to this. Since its inception, SDSB has produced highly skilled graduates who have the ability to lead, transform and create long-lasting impact in business and society.

SDSB is internationally recognised; it is Pakistan's only business school to have achieved accreditation by AACSB International —The Association to Advance Collegiate Schools of Business (AACSB). Just around 5 per cent of the world's business schools currently hold this distinction. SDSB's AACSB accreditation speaks to the quality of its education and research, enabling it to stand out not only in the region, but around the world.

Research and teaching at LUMS extend its 'Learning Without Borders' philosophy across the University's community by breaking academic, geographic and socio-economic barriers to make education accessible to all. The University continues to be an intellectual hub, rich with varying perspectives and transformative ideas. With an environment brimming with inclusion, unity, and boundless knowledge, learning continues in and beyond the campus walls with the aim to develop innovators, leaders and change-makers who can contribute to the community and build strong, borderless networks.





LUMS and SDSB continue to build a new tomorrow.

THIS IS HOW:

LUMS is ranked in the
651-700
band in QS World University
Rankings 2022

50th

in the World's Best Small
Universities by Times Higher
Education Rankings 2021

Placed in the top
123
institutions in QS Asian University
Rankings 2022

50%

scholarships awarded to all
women admitted to graduate
programmes at SDSB

Among top
200
universities worldwide and top
50
in Asia for employability in
QS Graduate Employability
Rankings 2022

800+

indigenously developed
case studies on local
industry

Among top
200
universities for Business and
Management Studies in QS
World University Rankings 2021
by Subject

SDSB is a Harvard Business
Publishing content partner

Among top
250
universities for Accounting and
Finance in QS World University
Rankings 2021 by Subject

Fully funded merit scholarships
available for local and
international students

Participant-centred and
Experiential Learning focusing
on industry diagnostics &
entrepreneurial drills

Placed between
251-300
Asian Universities by Times
Higher Education Asia University
Rankings 2021

THE MASTER OF SCIENCE IN TECHNOLOGY MANAGEMENT AND ENTREPRENEURSHIP

The Master of Science (MS) degrees are 1.5-year programmes envisioned to provide an intensive, rich, and innovative understanding of the intersection between business fundamentals and a focused specialisation area.

A blended learning approach is adopted to expose students to the business world's realities and challenges. This instructional perspective is applied throughout the Master of Science programmes, presenting students with a diversity of learning technologies, case studies, readings, simulations, and industry engagements. It reinforces participant-centred learning, providing in the process a truly transformative and interactive experience.

THE BLENDED LEARNING METHODOLOGY AT SDSB SEEKS TO ENSURE

1

ACADEMIC SUCCESS

To improve learning

2

LINKAGES

To improve connection between theory and practice

3

ENGAGEMENT

To increase students' active participation in class and motivation for learning in their specific areas

The MS in Technology Management and Entrepreneurship aims to develop candidates' entrepreneurial mindset and drive innovation. The programme encourages entrepreneurship and digitalisation, taps into emerging fields and opens up careers in various organisations from technology start-ups and large established companies to consulting firms, public organisations, project management and innovation management spaces. Expert faculty members from SDSB, along with other schools at LUMS and from the industry, will teach in the programme, making it a 'no-borders' initiative. The Executive in Residence for this programme is an accomplished industry leader who provides practical insights and imparts specialised field knowledge to students.

The programme will prepare leaders who can meet the needs of the digital future, drive technological advances and digitisation within enterprises. Graduates will spur technological adoption, innovation and effectiveness, underpinned by sound business management.

As an MS Technology Management and Entrepreneurship graduate you will:

- Understand the technology management ecosystem, including the legal, social, ethical, and economic aspects of technology management in the local and global context
- Assess the commercial viability of new technologies, business models and opportunities to create, identify, and capitalise on opportunities in the technology sector
- Lead digital transformation, address organisational challenges, and value-creation within enterprises through technological and business insight
- Effectively combine understanding and knowledge of technology and entrepreneurship to identify and drive innovation, and bring new products and services to the market





MEET THE EXECUTIVE IN RESIDENCE



BADAR KHUSHNOOD

**Co-founder,
Fishry.com,
Bramerz, and
Chairman P@SHA**

“My unique and innovative role as an Executive in Residence (EIR) for this programme is evidence of SDSB’s honest commitment and approach towards a truly futuristic and agile degree. As the knowledge economy rises at a global level, the essential role of technology innovation and entrepreneurship in the economic development of countries is becoming highly recognised. Preempting this trend, the MS Technology Management and Entrepreneurship programme, aims to provide a sustainable channel of knowledge transfer between the industry and academia for the benefit of its students. In this programme, we actively seek a broad range of industry engagements, including but not limited to, joint collaborative ventures, exchange of ideas for commercialisation, entrepreneurial motivation and hands-on training for the right skill sets. Given my role and industry experience of more than two decades in Pakistan’s digital journey and entrepreneurial ecosystem, I am confident that curating this degree with SDSB will open many avenues of more interesting partnerships. I would encourage all potential aspiring students to make full use of this opportunity.”

INDUSTRY PARTNERS

Industry partners play an essential role in the advancement and education of MS Technology Management and Entrepreneurship students. Our connections with the industry help ensure that the programme is responsive to industry trends and meets both student and employer needs. Through directly applicable coursework and faculty mentorship, along with the Executive in Residence guidance, students gain skills and the confidence to harness the power of cross-disciplinary teams to put innovation to work for their companies, their industries and the world. Everything we do is aimed at creating value for our industry partners.

Representing diverse industries, from consumer technology to health innovation to government institutions, some of our top industry partners this year have been CureMD, Daraz, Finja, Microsoft, Mobilink Jazz, NETSOL Technologies, P@sha, Shaukat Khanum Memorial Cancer Hospital and Research Centre, Siemens, Systems Limited, and Zameen.com among others. These companies also regularly engage with our students via field placement projects in the Fall semester. Students address their current challenges or provide insights to shape the future of products or services for their business.





YASSER BASHIR

**Chief Executive Officer,
Arbisoft**

“A serious shortage of tech-savvy middle management afflicts most businesses in the tech sector, especially start-ups. It is a double whammy because the vacuum created by this shortage is often filled by senior engineers who leave their engineering career tracks to assume management positions, for which they are often not ready. Consequently, both management and technology suffer. The MS Technology Management and Entrepreneurship programme is a great initiative to help this situation. The timing of this programme could not have been better. Graduates of this programme will help established tech companies break their size plateaus and help new start-ups that will be ready for growth-stage challenges over the next few months and years.”

ZEESHAN H. BAIG

**General Manager,
Syngenta Pakistan**

“This is a strong programme, launched at the right time. It will prepare graduates to be well-equipped with the changing digital ecosystem and will help produce strong leaders for the tech industry, fulfilling industry requirements.”

MS TECHNOLOGY MANAGEMENT AND ENTREPRENEURSHIP PROFILE CLASS OF 2021

GENDER RATIO

MALE
48%

FEMALE
52%



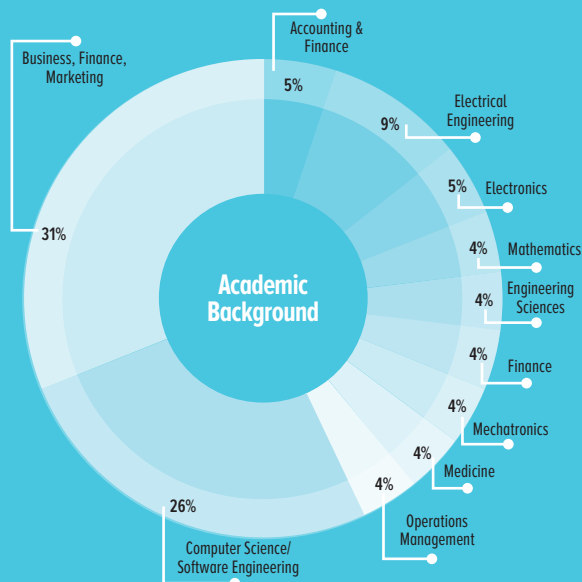
AVERAGE AGE

26
YEARS



AVERAGE EXPERIENCE

2
YEARS



Note: MS programmes are classified from the induction year and not the graduating year





PROGRAMME STRUCTURE

The Master of Science business-based degree programme requires 1.5 years to complete 33 credit hours.

Graduation Requirement	33
Core Courses	12
Specialised Electives	12
Summer Semester	3
Field Project/Thesis	6

MS Technology Management and Entrepreneurship

Credit Hours

1st Semester/Module I

Fall (1st Year) Core (Sept - Dec)

Financial Management and Accounting	3
Business Economics	3
Organisations and Leadership	3
Marketing Management	3
Total	12

2nd Semester/Module II

Spring (1st Year) Core/Specialised Electives (Jan - May)

Technology Entrepreneurship	3
Business Venture Proposal Writing	3
Technology, Design, and Innovation Management	3
Technology and Operations Management	3
Total	12

3rd Semester/Module III

Summer (1st Year) Core (Jun - Aug)

Applied Data Analysis	3
Total	3

4th Semester/Module IV

Fall (2nd Year) Core (Sept - Dec)

Field Project/Thesis	6
Grand Total	33

THE STUDENT EXPERIENCE



M. MUNEEB SHAHID

MS Technology Management and Entrepreneurship

"After graduating with a degree in Computer Engineering in 2016, I was working in the domain of marketing and product management and needed a degree at the intersection of technology, management and entrepreneurship to bridge the gap between tech and management and pursue my career aspirations. I chose SDSB, a truly global business school, for its academic excellence and also for its legacy of chaperoning individuality through teamwork and promoting a culture of ingenuity and self-learning. The highly diversified 1.5-year curriculum of the MS Technology Management and Entrepreneurship programme, combined with the practical component of experiential learning and a strong focus on fostering leadership/entrepreneurial skills, made SDSB the perfect fit for my future ambitions."



AMBREEN ASHFAQ

MS Technology Management and Entrepreneurship

"The MS Technology Management and Entrepreneurship programme has helped me develop a new perspective towards technology management and entrepreneurship, and it has also provided an understanding of the efficient manner in which technology has enabled us. Revolving around the process of learning and relearning, this programme focuses on a student-centred experience with a good balance of theory and practical work, while also catering to participants coming in from diverse backgrounds. So, if you are looking to explore the opportunity of integrating technology with business strategies, pursuing this programme is the way to go."





ADMISSION CRITERIA

Admission is purely merit-based and rests solely on the following criteria:

Academic Record

A minimum of sixteen (16) years of education leading to a Master's or Bachelor's* or equivalent degree in a relevant discipline including Business, Management and Commerce. A student with a non-business background may be required to take pre-requisite courses to be determined by the LUMS Admissions Committee depending on the academic background of the applicant. Options to do this will be given to accepted applicants requiring pre-requisite courses.

**Applicants holding only a Bachelor's degree of less than four years' duration will be required to produce an equivalence certificate issued by the Higher Education Commission (HEC), Pakistan. Prior university studies must be from an institution recognised by the HEC, Pakistan.*

Performance in Admission Test

Applicants are required to take the GRE (General) or Graduate Management Admission Test (GMAT) or NTS GAT (General) to be considered for admission.

For further details on GRE (General), GMAT and NTS GAT (General), please visit www.ets.org, www.mba.com and www.nts.org.pk

Note

- GRE (General)/GMAT taken more than five (5) years before the admission deadline will not be accepted.
- NTS GAT (General) taken more than two (2) years before the admission deadline will not be accepted. A cumulative score of 50 in GAT (General) is a requirement for admission.
- If the applicant has taken more than one test, the best score will be considered for application evaluation.
- For equivalency details for the GRE (General) and GMAT, please see: https://www.ets.org/gre/institutions/admissions/interpretation_resources/mba_comparison_tool/

Statement of Purpose

Applicants will be asked to submit a written statement of purpose. It should identify in clear terms why they think they are suited to the programme. They should state how the degree would enable them to achieve their career goals.

Two Recommendation Letters

Recommendation letters should indicate the applicant's academic performance, commitment to excellence and their strong aptitude for business education. These can be from professional as well as academic referees.

Work Experience

The programme does not require prior work experience. Students may however benefit from having worked before in a relevant industry.

Submission of Online Application, Application Processing Fee and Online Supporting Documents

The complete online application, application processing fee and supporting documents should be submitted by the stipulated deadline. Submission of a minimum of two recommendation letters is compulsory.

Application Review

The relevant committee to analyse the admission decision will review shortlisted applications. Applicants are encouraged to provide complete information regarding their academic achievement, research reports, attended workshops, extracurricular activities and must tell LUMS about their significant experiences that can strengthen their applications.

Interview (if called)

Only short-listed candidates will be called for interviews.





FINANCIAL SUPPORT

Financial support is available to all eligible local and international applicants applying to our Master of Science programmes.

Merit Scholarship

75% scholarships are awarded to the top 3 candidates admitted to the programme.

Women Scholarship

Fostering, celebrating, and advancing women's leadership in business, a 50% tuition fee waiver will be awarded to all admitted female students.

LUMS Interest-free Loan

LUMS offers interest-free loans to local MS students based on their annual financial needs assessment. These loans cover partial to full tuition fee expenses.

For details, please visit
<https://lums.edu.pk/programmes/ms-technology-management-and-entrepreneurship?ref=financial-aid>

FOR FURTHER DETAILS, VISIT
**[HTTPS://LUMS.EDU.PK/PROGRAMMES/
MS-TECHNOLOGY-MANAGEMENT-AND-
ENTREPRENEURSHIP](https://lums.edu.pk/programmes/ms-technology-management-and-entrepreneurship)**

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