



## **MALAWI UNIVERSITY OF SCIENCE AND TECHNOLOGY APPLICATIONS FOR 2021/2022 POSTGRADUATE PROGRAMS**

The Malawi University of Science and Technology is inviting motivated and suitably qualified candidates to pursue postgraduate programs in various schools and departments of the University. The Postgraduate Programs are as follows:

### **Masters Programs under Malawi Institute of Technology (MIT)**



#### **MASTER OF SCIENCE IN INNOVATION**

The Master of Science in Innovation is a two-year program that is offered over four semesters. During first year, students will take basic courses using a combination of face to face and virtual lecturers. The lectures are blocked and students will periodically be taught and also given time to work on assignments at home. In the second year, students will undertake a research project focusing on product or process innovation and submit a Dissertation.



#### **MASTER OF SCIENCE IN ENTREPRENEURSHIP**

The Master of Science in Entrepreneurship is a two-year program aimed at equipping students with knowledge, skills, and attitudes needed to survive and thrive in business to propel this country to greater socio-economic heights. The program will be offered over four semesters. During first year, students will take basic courses using a combination of face to face and virtual lecturers. The lectures are blocked and students will periodically be taught and also given time for them to work on assignments at home. In the second year, students will undertake a research project focusing on entrepreneurship and submit a Dissertation.



## MASTER OF BUSINESS LEADERSHIP

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The Master of Business Leadership targets applicants that are working in highly dynamic modern organizations that require dynamic and robust leaders with strong skills in business leadership. Graduates will acquire management skills, and the ability to flourish in a dynamic global environment with global teams that are vibrant and challenging. The graduates will further be able to strategically assess and analyze their business and manage new business challenges ahead of time to enable growth and profitability of their businesses. This is a two-year program that will be offered over four semesters. During first year, students will take basic courses using a combination of face to face and virtual lecturers. The lectures are blocked and students will periodically be taught and also given time for them to work on assignments at home. In the second year, students will undertake a research project focusing on business leadership and submit a Dissertation.



## MASTER OF SCIENCE IN MATHEMATICAL MODELLING

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Master of Science in Mathematical Modelling is a two-year programme that serves as a follow-up to Bachelor of Science in the fields of mathematics, Physics, Statistics, Economics, Engineering, Biological Sciences, Chemistry, Technical Education with honours or minors in Mathematics. This M.Sc. in Mathematical modelling has focused on studies in the scientific fields. Students on this programme are expected to learn how to apply mathematics or its principles to solve practical problems within their field of study, e.g., finance, insurance, business, ecology, environment, computer science, healthy sciences and others. During first year, students will take basic courses using a combination of face to face and virtual lecturers. The lectures are blocked and students will periodically be taught and also given time for them to work on assignments at home. In the second year, students will undertake a research project that will involve mathematical modelling in any scientific field of their interest and submit a Dissertation.



## MASTER OF SCIENCE IN STRATEGIC FAMILY BUSINESS

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Family owned businesses make substantial contribution to the social and economic welfare and development of societies, countries, and regions of the world. They are therefore an important source of wealth creation and employment. The major problem with family businesses is succession and transfer of leadership and ownership from one generation to the other among the family members. Only a few family businesses successfully manage the succession to the second or third generations of family members amidst periods of risks and set-backs. The Master of Strategic Family Business is designed to ensure the success and full contribution of family businesses to the socio-economic development of Malawi and beyond.

The Master of Science in Strategic Family business is a two-year program that will be offered over four semesters. During first year, students will take basic courses using a combination of face to face and virtual lecturers. The lectures are blocked and students will periodically be taught and also given time for them to work on assignments at home. In the second year, students will undertake a research project focusing on family businesses and submit a Dissertation.



## MASTER OF ENGINEERING IN APPLIED CHEMICAL ENGINEERING

The Masters of Engineering in Applied Chemical Engineering program aims at addressing a shortfall in human resource needs in Chemical Engineering for industrial development in Malawi and beyond. The programme will be offered on block release using blended learning methods. The face to face approach will be limited to 2 weeks per semester, whilst the rest of the contacts with students will be virtual. The programme duration is 2 years. The students will in the second year conduct a research project in Chemical engineering and submit a Dissertation.



## MASTER OF SCIENCE IN COMPUTER SCIENCE (BY RESEARCH)

Computing is a key enabler of any modern knowledge based economy as it opens new channels and means of acquiring knowledge and information exchange in various sectors of an economy. In Malawi, there is a need for skilled human resource that can create advanced computing artefacts for propelling a knowledge based economy. The MSc in Computer Science program aims at producing locally, computer scientists that have mastered advanced practical principles of computer science and its sub-branches to positively contribute to the creation of tools for a vibrant knowledge based economy in Malawi and beyond. This two-year program is by research, but students will take two pre-requisite courses and participate in seminars as they work on their dissertations. The students will conduct a research project in Computer Science and submit a Dissertation.



## MASTER OF SCIENCE IN DATA SCIENCE

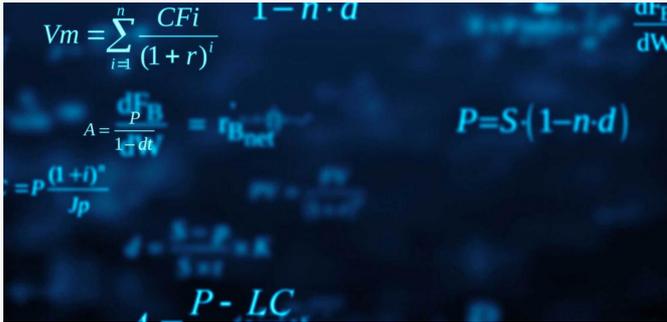
As the Fourth Industrial Revolution unfolds, it has become commonplace to refer to data as the 'new oil' of the global economy. Data scientists are the talent that provide the ability to extract, refine and deploy this new source of value for decision making in the global economy and even within the context of Malawi. The MSc in Data Science program is designed to help the graduate student master advanced practical principles of data science and its related courses including machine learning, data mining, business intelligence, big data analytics, data management and their applications. It is a two-year taught program. During first year, students will take coursework using a combination of face to face lectures and virtual lectures. In second year, students will conduct a research project in Data Science and submit a dissertation.



## MASTER OF SCIENCE IN INFORMATION TECHNOLOGY (BY RESEARCH)

Information technology (IT) concerns the usage of computer technologies to solve problems in various contexts including business settings. The aim of the MSc in Information Technology program is to produce high calibre graduates equipped with advanced knowledge and practical skills in information technology which will enable them to resourcefully and cost-effectively apply information technology tools, at their disposal, in solving real-life problems in Malawi and beyond. This two-year program is by research. Students will, however, take two pre-requisite courses and will also be required to participate in seminars as they work on their dissertations. The dissertation will be on a research topic in IT.

## PhD Programs under MIT



### PHD IN APPLIED MATHEMATICS

The Applied Mathematics doctorate program spans for 3 (for full time students) to 4 years (for part time students) and is aimed at enabling learners to conduct advanced applied research in any scientific field such as Engineering, Medicine, Physics, Biology, Computer Sciences and others under the supervision of advisors. There is now an increased need for experts to analyze collected data in line with international standards in this new information age. Hence, mathematical and statistical analyses have become an indispensable element for various industries. During first year, students will take basic courses using a combination of face to face and virtual lecturers. The lectures are blocked and students will periodically be taught and also given time for them to work on assignments at home. From year 2 to 4, students will conduct a research project that will apply Mathematics in any scientific field of their interest and submit a Dissertation.



### PHD IN BUSINESS LEADERSHIP

The PhD in Business Leadership aims at providing professional advanced knowledge and skills to students. The program emphasizes research on contemporary business leadership issues in Malawi, the Region and beyond. The program is designed to equip students with better decision-making capabilities on various contemporary challenges facing modern businesses locally and internationally. This program is for 3 years (for full-time students) or 5 years (for part time students). During first year, students will take basic courses using a combination of face to face and virtual lecturers. The lectures are blocked and students will periodically be taught and also given time for them to work on assignments at home. From year 2 to 5, students will conduct a research project in Business Leadership and submit a Dissertation.

## PhD Program attainable under MIT and MUST Institute of Industrial Research and Innovation (MIIRI)



### PHD IN INNOVATION AND DEVELOPMENT (BY RESEARCH)

The PhD in Innovation and Development is a 3-year programme for full time students and a 4 year program for part time students. Students will be allowed to secure their own internship or attachment. However, they will have their academic projects incubated through the University Innovation Garage. The world is facing several challenges that include; rapid human population growth, environmental degradation, socio-economic and political conflicts, health related problems and specific to developing countries, increased poverty. The use and application of innovation tools and concepts for development including transformation development in the use of digital technologies, if properly harnessed in the developing countries may translate the challenges into economic opportunities. This program aims at producing graduates with new set of skills, critical thinking and development oriented human resource that will use technologies as a vehicle for short- and long-term solutions to the global challenges. The program is by research, however, the learners will participate in seminars and short courses that are relevant to their field of study as they conduct research for their theses.

## Admission Requirements

### Candidates must have:

1. A good Bachelor's degree from any recognized and accredited university in the relevant field of the program applied (For Master's degree program applicants) and a good M.Sc. degree from recognized and accredited university in the relevant fields of the program applied for PhD applicants.
2. At least two years of work experience in a relevant field
3. A letter of undertaking to pay the required fees from the applicants or their parent/guardian or sponsor with evidence of reliable source of income

### Fees

The fee for all Postgraduate Programs at MUST is US\$5,000 or Malawi Kwacha equivalent per academic year, payable in each semester. However, for M.Sc. students, 50% partial scholarships and for PhD students 35% partial scholarships are available for successful and eligible candidates.



## Enrolment and Partial Scholarships

To be considered for enrolment and partial scholarship, applicants must submit the following mandatory documents:

1. A completed postgraduate application form available at MUST registry (or downloaded on MUST website on [www.must.ac.mw](http://www.must.ac.mw) under Media Centre, then Downloads or send a request email to: [research@must.ac.mw](mailto:research@must.ac.mw) and [communication@must.ac.mw](mailto:communication@must.ac.mw))
2. A motivation essay of 500 words
3. Certified copies of academic certificates
4. Sealed academic transcripts
5. Proof of funding, for example sponsorship letter or copies of appropriate financial records for self-sponsored students
6. Two reference letters (one academic and one professional)
7. An original bank deposit of a non-refundable application fee of MK10,000 for Malawians and US\$50 for all non-Malawians. Payment of application fees should be made into the bank account provided below;

Bank Name : Standard Bank  
Branch : Limbe  
Account Name : MUST Students Account  
Account Type : Current Account  
Account Number: 9100001063429  
Swift Code : SBICMWMX

## Deadline for Submission of Application Forms

The deadline for receipt of completed applications is September, 18th, 2021. For enquiries please contact the Postgraduate Directorate on email: [research@must.ac.mw](mailto:research@must.ac.mw) or Phone +265 8888 53769. Completed application forms should be sent to:

University Registrar  
Malawi University of Science and Technology  
P.O. Box 5196, Limbe  
MALAWI  
Email: [admissions@must.ac.mw](mailto:admissions@must.ac.mw) with a copy to [research@must.ac.mw](mailto:research@must.ac.mw)

**Malawi University of Science and Technology**  
Where Excellence Reigns