

MALAWI UNIVERSITY OF SCIENCE & TECHNOLOGY



ADMISSION OF NON-GENERIC (FULL ECONOMIC FEE-PAYING, MATURE ENTRY AND ODeL) UNDERGRADUATE AND POSTGRADUATE STUDENTS FOR THE 2023/24 ACADEMIC YEAR

The Malawi University of Science and Technology (MUST) has limited spaces which it would like to fill by admitting interested Malawians and non-Malawians who are **qualified, able and willing to pay the prescribed fees in the** following three undergraduate categories of Full Economic Fee Paying, Mature Entry and Open and Distance E-Learning (ODEL) and postgraduate (PG) students. Available programmes have been presented under each of the categories with their requisite qualifications and requirements as follows:

1.0 FULL ECONOMIC FEE PAYING UNDERGRADUATE ADMISSIONS

SN	PROGRAMME	DURATION
1	Bachelor of Engineering (Hons) in Biomedical Engineering	5 Years
2	Bachelor of Engineering (Hons) in Chemical Engineering	5 Years
3	Bachelor of Engineering (Hons) in Manufacturing Engineering	5 Years
4	Bachelor of Engineering (Hons) in Metallurgy and Materials Engineering	5 Years
5	Bachelor of Engineering (Hons) in Textile Engineering	5 Years
6	Bachelor of Science in Medical Microbiology	4 Years
7	Bachelor of Science in Medical Imaging	4 Years
8	Bachelor of Science in Immunology	4 Years
9	Bachelor of Science in Sports Science	4 Years
10	Bachelor of Science in Food Science and Technology	4 Years
11	Bachelor of Science in Science Education	4 Years
12	Bachelor of Science in Mathematics Sciences	4 Years
13	Bachelor of Science in Earth Sciences (Geology)	4 Years
14	Bachelor of Science in Meteorology and Climate Science	4 Years
15	Bachelor of Science in Disaster Risk Management	4 Years

16	Bachelor of Science in Geo-Information and Earth Observation Science	4 Years
17	Bachelor of Science in Petroleum Resources (Oil and Gas)	4 Years
18	Bachelor of Science in Water Quality and Management	4 Years
19	Bachelor of Science in Sustainable Energy Systems	4 Years
20	Bachelor of Science in Computer Systems and Security	4 Years
21	Bachelor of Science in Business Information Technology	4 Years
22	Bachelor of Arts in Indigenous Knowledge Systems and Practices	4 Years
23	Bachelor of Arts in African Musicology	4 Years
24	Bachelor of Arts in Language, Communication and Culture	4 Years
25	Bachelor of Arts in Cultural Economy	4 Years

Admission Requirements

a) Entry into Year 1

Applicants should possess a Malawi School Certificate of Education (MSCE) or IGSCCE or their equivalent 'O' level qualification with six credits including English obtained in the 2019/20, 2020/21 or 2021/22 academic years. Applicants must have scored an **aggregate of not more than 30 points**.

- i. Those applying for **programmes numbered 1 to 12** should score credit grades in Mathematics, Physics, Chemistry and Biology.
- ii. Those applying for **programmes numbered 13 to 19** should also have a credit in Geography in addition to Mathematics, Physics, Chemistry and Biology.
- iii. Those applying for the Bachelor of Science in Computer Systems and Security (**Number 20**) and Bachelor of Science in Business Information Technology (**Number 21**) should have minimum of credit in Mathematics and Physical Science (or Physics).
- iv. Those applying for Arts programmes (**programmes numbered 22 to 25**) should have minimum of credit in any three of the following: History, Life Skills, Social Studies, Creative Arts, Bible Knowledge, Performing Art and Languages.

b) Entry into Year 2

All candidates with GCE 'A' Levels will join in Year 2 of study.

- i. For those applying for science-related programmes, it is required that they should have completed A-Levels with a three subject combination. The acceptable subjects for this combination include Mathematics, Physics, Chemistry, Biology or Geography with a minimum grade of 'C' in each of the three subjects.
- ii. To apply for Arts programmes, candidates should have completed A-Levels with a three subject combination of either Geography, History, Life

Skills, Languages, Arts, or Social Studies, with a minimum grade of 'C' in each of any of the three subjects.

2.0 MATURE ENTRY APPLICATIONS

Applicants can apply for any of the programmes listed above but they must ensure that they meet the following minimum requirements:

- a) A Malawi School Certificate of Education or its equivalent, such as GCE 'O' Level or IGCSE qualification with at least four (4) credits and a credit score of no more than 5 point in each of the subjects. The subjects include Mathematics, Physical Science (or Physics and Chemistry) and Biology.

In addition, applicants for BSc programmes in Earth Sciences, Climate Science, and Water Quality and Management, a credit in Geography is also required.

For those interested in the Bachelor of Arts programmes in Indigenous Knowledge Systems and Practices and African Musicology, a minimum credit is required in History, Life Skills, Social Studies, Creative Arts, and Languages.

Plus

- b) A relevant Diploma or Advanced Diploma from accredited institution of higher learning.

OR

- c) Applicants must have completed GCE A-Level with a three subject combination including Mathematics, Physics, Chemistry or Biology with a minimum grade of 'C' in each of these three subjects.
- d) For those applying for Bachelor of Arts in Language, Communication and Culture programme, candidates should have a relevant Diploma or Advanced Diploma from accredited institution of higher learning and a Malawi School Certificate of Education or its equivalent 'O' or IGCSE Level qualification with at least four (4) credits in History, Life Skills, Social Studies, Creative Arts, and Languages (including Chichewa). Candidates will join in third year of study.

Candidates should be aware that in certain cases, they may be required to take additional first-year modules as deemed necessary by the university or programme. The additional modules provide foundational knowledge and skills required for successful progression in the programme.

Tuition Fees

The tuition fees payable are as follows:

- a) Malawian students: Two Million, Eight Hundred and Fifty Thousand Malawi Kwacha (K2,850,000) per academic year.
- b) Foreign students from SADC countries: Three Thousand Nine Hundred US Dollars (US\$3,900) per academic year.

- c) All other foreign students: Four Thousand, Seven Hundred US Dollars (US\$4,700) per academic year.

Other Costs for Undergraduates

- a) Residence Fees: Three Hundred and Sixty Thousand Malawi Kwacha (K360,000) or. Four Hundred US Dollars (US\$400) per year
- b) Medical Insurance: Three Hundred Thousand Malawi Kwacha (K300,000) or Three Hundred and Fifty US Dollars (US\$350) per year
- c) Living expenses: approximately One Million Malawi Kwacha (K1,000,000) or One Thousand US Dollars (US\$1,000) per year

To be considered, applicants must submit the following mandatory requirements:

- a) A completed undergraduate application which can either be collected in person from MUST Registry Office or on written request or can be downloaded from the following website: www.must.ac.mw
- b) A letter of undertaking to pay economic fees from parent/guardian or sponsor with evidence of reliable source of income. Students will only be allowed to register upon part-payment of at least half the full fees.
- c) Authenticated copies of academic certificates or notification of results.
- d) An original bank deposit slip of a non-refundable application fee of K10,000 for Malawians and \$50 for all non-Malawians. Payment of application fees should be made into the bank account provided below.

3.0 OPEN DISTANCE AND E-LEARNING ADMISSIONS

Programmes eligible for ODeL applications are as follows:

- i. Bachelor of Science in Sciences Education
- ii. Bachelor of Arts in Language, Communication and Culture
- iii. Bachelor of Science in Mathematical Sciences

a) Admission requirements for Entry into Year 1

Applicants should possess a Malawi School Certificate of Education (MSCE) or IGSCCE or their equivalent 'O' Level qualification with six credits including English. Applicants must have scored an **aggregate of not more than 30 points**.

Those applying for Bachelor of Science Education programme and Bachelor of Science in Mathematical Sciences must score credit grades in Mathematics, Physical Science (or Physics and Chemistry) and Biology. **Primary school teachers and those upgrading are encouraged to apply.**

Those applying for Bachelor of Arts in Language, Communication and Culture programme must have minimum of credit in any three of the following: History, Life Skills, Social Studies, Creative Arts, Bible Knowledge, Performing Art and Languages.

b) Admission requirements for Mature Entry Students

A Malawi School Certificate of Education or its equivalent GCE 'O' level or IGCSE qualification with at least four (4) credits including Mathematics, Physical Science (or Physics and Chemistry) and Biology with credit score of not more than 5 points in each of the above subjects.

PLUS

A relevant Diploma or Advanced Diploma from accredited institution of higher learning.

OR

GCE A-Level with a three-subject combination of any of the following subjects: Mathematics, Physics, Chemistry or Biology with a minimum grade of 'C' in each of these three subjects.

Take note that there is no ODeL mature entry for the Bachelor of Arts in Language, Communication and Culture programme for now.

Upgrading students will join either in second or third year of study depending on qualification.

Tuition Fees

Tuition fees is K585,000.00 per academic year. This fee shall be subject to change from time to time and can be paid in two equal instalments of K292,500 per semester.

Mode of Delivery

Classes will be delivered online with scheduled face to face classes that are determined from time to time.

Students will be expected to find their own accommodation and living expenses during face-to-face sessions

Mandatory Requirements

- i. A completed undergraduate application which can either be collected in person from MUST Registry Office or on written request or can be downloaded from the following website: www.must.ac.mw
- ii. Authenticated copies of academic certificates or notification of results.
- iii. An original bank deposit slip of a non-refundable application fee of K10,000.

4.0 POSTGRADUATE PROGRAMMES

4.1 Masters Programmes

4.1.1 Master of Science in Medical Microbiology

This is a two-year programme that is offered over four semesters. In the first year, students take taught courses using a combination of face-to-face and online lectures.

The lectures will be offered on a full-time basis during which the candidates will periodically be taught and allocated time to work on assignments after classes. During the second semester of the second year, candidates will undertake a research project which is relevant to Medical Microbiology. At the end of the project, the candidates will submit a well-structured Dissertation that has been reviewed and approved by their supervisors.

4.1.2 Master of Science in Diagnostic Ultrasound

This is a two-year programme that is offered over four semesters. In the first year, students take taught courses using a combination of face-to-face and online lectures. The lectures will be offered on full-time basis during which the students cover all the modules allocated for the specific semester and are allocated time to do assignments. Due to the nature of the programme, candidates will spend substantial amount of time conducting medical imaging practical sessions. In the second year, candidates will conduct a research project under the supervision of an expert in imaging field focusing on diagnostic ultrasound. At the end of the project, the candidates will submit a well-structured Dissertation that has been reviewed and approved by their supervisors.

4.1.3 Master of Science in Infection and Immunity

This is a two-year programme that is offered over four semesters. In the first year, students take taught courses using a combination of face-to-face and online lectures. The lectures will be offered on a full-time basis during which the candidates will periodically be taught and allocated time to work on assignments after classes. During the second semester of the second year, candidates will undertake a research project which is relevant to Infection and Immunity. At the end of the project, the candidates will submit a well-structured Dissertation that has been reviewed and approved by their supervisors.

4.1.4 MSc in Disaster Risk Management

The programme is aimed at building capacity and expertise in managing disaster risks and dealing with disasters. It will impart knowledge and skills for minimizing both economic and human losses arising from natural and anthropogenic hazards. The programme is designed to train professionals and equip them with in-depth knowledge and skills to deal with disasters and their interrelated global issues in the areas of climate change, global warming and socio-economic implications. This is a two-year programme that is offered over four semesters. In the first year, students take taught courses using a combination of face-to-face and virtual lectures, which build upon the prior knowledge and experience of the students with a relevant undergraduate degree in the fields of geography, earth sciences, climate sciences, resource/agricultural economics, social sciences, environmental sciences, water resources, and other related fields. Those with an Honours degree in the fields listed above shall also be eligible for enrolment/admission. In the second year, students undertake research in a related area of interest to them.

4.1.5 Master of Science in One Health

The One Health curriculum is to build capacity and expertise that can address emerging issues of ecosystems, animal and human health to minimize both economic and human losses due to crises arising from natural and anthropogenic situations. The specific objective is to train and educate workforces, who are equipped to deal with the

interrelated and interconnected challenges of human, animal and environmental health. 'One Health' is a public health approach which promotes the health of humans, animals and the environment in all policies, practices and programmes. It is closely linked to the ecological health with the underlying premise that the health and well-being of humans and animals (including livestock) cannot be sustained if the planet is polluted.

This is a two-year programme that is offered over four semesters. In the first year, students take taught courses using a combination of face-to-face and virtual lectures. In the second year, students undertake a research project focusing on the One Health triad (human health, animal health and ecosystem health).

4.1.6 Master of Science in Innovation

This is a two-year programme that is offered over four semesters. In the first year, students take taught courses using a combination of face-to-face and virtual lectures. The lectures are on block release and students are periodically taught and also given time to work on assignments at home. In the second year, students undertake a research project focusing on product or process innovation and submit a Dissertation.

4.1.7 Master of Science in Entrepreneurship

This is a two-year programme aimed at equipping students with knowledge, skills, and attitudes needed to survive and thrive in business to propel Malawi and the region to greater socio-economic heights. The programme is offered over four semesters. During first year, students take taught courses using a combination of face-to-face and virtual lectures. The lectures are on block release and students are periodically taught and also given time to work on assignments at home. In the second year, students undertake a research project focusing on entrepreneurship and submit a Dissertation.

4.1.8 Master of Business Leadership

This postgraduate programme 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 programme that will be offered over four semesters. During first year, students will take taught courses using a combination of face-to-face and virtual lectures. The lectures are on block release 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 business leadership and submit a Dissertation.

4.1.9 Master of Science in Strategic Family Business

Family-owned businesses make substantial contributions 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. This program is specifically and

carefully designed to ensure success and full contribution of family businesses to the socio-economic development of Malawi and beyond.

This is a two-year programme that will be offered over four semesters. During first year, students will take taught courses using a combination of face-to-face and virtual lectures. The lectures are on block release 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 family businesses and submit a Dissertation.

4.1.10 Master of Science in Mathematical Modelling

This 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 MSc in Mathematical Modelling has focused on studies in the scientific fields. Students on this program are expected to learn how to apply mathematics or its principles to solve practical problems within their field of study, for instance, finance, insurance, business, ecology, environment, computer science, health sciences and others. During first year, students will take taught courses using a combination of face-to-face and virtual lectures. The lectures are on block release 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 that will involve mathematical modelling in any scientific field of their interest and submit a Dissertation.

4.1.11 Master of Engineering in Applied Chemical Engineering

The programme aims at addressing a shortfall in human resource needs in Chemical Engineering for industrial development in Malawi and beyond. It will be offered on block release using blended learning methods. The face-to-face approach for taught courses in the first year will be limited to two weeks per semester, whilst the rest of the contacts with students will be virtual. The programme's duration is two years and students in the second year will conduct a research project in Chemical Engineering related area and submit a Dissertation.

4.1.12 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. This programme 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 programme 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.

4.1.13 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 provides 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

programme 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 programme. During first year, students will take coursework using a combination of face-to-face and virtual lectures. In second year, students will conduct a research project in Data Science and submit a Dissertation.

4.1.14 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 this programme 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 programme 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.

4.2 PhD Programmes

4.2.1 PhD in Applied Mathematics

The Applied Mathematics doctorate programme runs for three (full time) or four years (part time) 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 taught courses using a combination of face-to-face and virtual lectures. The lectures are on block release and students will periodically be taught and given time 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.

4.2.2 PhD in Business Leadership

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

4.2.3 PhD in Innovation and Development (By Research)

This is a three-year programme for full time students and four years 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 programme 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 programme 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.

4.2.4 PhD in One Health

“One Health” is a public health approach focusing on the paradigm shift of the interrelationships between veterinary and human health, and environmental health, and brings the understanding of these three disciplines to a level where the assessment of the implications of any change in sub-system or a policy on the entire system. One Health is closely linked to the ecological health with the underlying premise that the health and well-being of humans and animals cannot be sustained if the planet is polluted. This is a three-year programme that is offered through course work for the first six months and thereafter intensive research. Students undertake a research project focusing on the increasing interactions between humans and animals within the environment and numerous factors exacerbating ecological (environmental) health and, the emergence, re-emergence and spread of infectious diseases and other growing global threats to human health and socioeconomic wellbeing which necessitate a multi-sectoral and multidisciplinary collaboration and coordination on prevention through environmental management.

4.2.5 PhD in Maternal and Neonatal Health

In Malawi, like in most countries in the region, most maternal deaths are mainly attributed to direct obstetric causes such as haemorrhage, sepsis, complications of abortion and hypertensive disorders. However, the fight against high Maternal Mortality Rates (MMRs) requires a multidisciplinary approach. This PhD programme is aimed at employing research in various thematic areas to investigate the various contributing factors towards maternal mortality. Similarly, neonatal mortality, which is estimated at close to 30 deaths per 1,000 births, is still higher compared to the global ratio of 18 deaths per 1,000. There is, therefore, still need for multidisciplinary research to investigate the various factors that contribute to this high ratio in Malawi such as asphyxia, premature birth and infections. This PhD programme will provide a platform for such studies. This is a three-year full time PhD programme which will build upon candidates’ prior knowledge and experience in specific health-related thematic areas. As such, the programme will consider applications from prospective candidates who are already trained to a Master’s level in any of the following thematic areas: Medical Microbiology, Immunology, Ultrasound and Radiography, Environmental Health, Pathology, Nursing and/or Midwifery, Obstetrics and Gynaecology or Family Medicine.

Admission Requirements

- 1, For applicants to the Master's degree programmes, a good Bachelor's degree from a recognized and accredited university in the relevant field of the programme applied for is required. As for applicants to the PhD programmes, a good Master's degree from a recognized and accredited university in the relevant fields of the program applied for is required.
- 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 tuition fee for all postgraduate programs at MUST is set at US\$5,000 or the equivalent in Malawi Kwacha per academic year. This fee can be paid in instalments over each semester. However, for the One Health programmes, qualifying candidates will be eligible for 100% limited scholarships. As for the other programmes, qualifying candidates can access limited partial scholarships of up to 30% for both Masters and PhD programmes.

Enrollment

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

- 1, A completed postgraduate application form available at MUST Registry or downloaded on MUST website (www.must.ac.mw) under Media Centre, then Downloads or send a request email to: admissions@must.ac.mw
- 2, A motivation essay of 500 words for MSc applicants and a page long concept for PhD applicants structured with title, background, problem statement, objectives, methods and impact.
- 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 for Masters programme applicants) and three reference letters (two academic and one professional) for PhD applicants.
- 7, An original bank deposit slip of a non-refundable application fee of K10,000 for Malawians and US\$50 for all non-Malawians. Payment of application fees should be made into the bank account provided below;

Bank Name: National Bank

Branch: Limbe

Account Name: MUST Collections

Account Type: Current Account

Account Number: 1008811427

OR

Bank Name: FDH Bank
Bank Branch: Limbe
Account Name: MUST Collections
Account Type: Current Account
Account Number: 1070000218137

Partial Scholarships

The allocation of partial scholarships mentioned above will be contingent upon the eligibility assessment conducted by the University. To apply for these scholarships, candidates must submit a mandatory scholarship application letter, providing relevant information and supporting documents as required. The University will evaluate the applications and determine the eligibility of candidates for the partial scholarships.

Deadlines for submission

The deadline for submitting completed applications for all programmes under all categories is August 25, 2023. For any inquiries or further information, please feel free to contact the Registrar via email (registrar@must.ac.mw). To apply, please ensure that you send the completed application forms along with **certified** copies of your academic qualifications and a deposit slip to the following address:

University Registrar
Malawi University of Science and Technology
P.O. Box 5196, Limbe
MALAWI
Email: admissions@must.ac.mw

Email applications for postgraduate programmes should be copied to:
amtewa@must.ac.mw

Email applications for ODeL programmes should be copied to:
pmakocho@must.ac.mw