

**THE NELSON MANDELA
AFRICAN INSTITUTION OF SCIENCE AND TECHNOLOGY
(NM-AIST)**



**INVITATION TO APPLY FOR ADMISSION INTO MASTER'S AND PhD
PROGRAMMES FOR 2022/2023 ACADEMIC YEAR**

1.0 BACKGROUND

The Nelson Mandela African Institution of Science and Technology (NM-AIST) in Arusha, Tanzania is one in a network of Pan-African Institutions of Science and Technology located across the continent. These institutions envision training and developing the next generation of African scientists and engineers to influence, profoundly, the continent's development through the application of Science, Engineering, Technology and Innovation (SETI).

The NM-AIST, which is accredited by the Tanzania Commission for Universities (TCU) is a research-intensive institution for postgraduate and post-doctorate studies and research in SETI. Its mission is to deliver and promote high quality and internationally competitive teaching and learning, research and innovation, and public service in Science, Engineering and Technology leveraging on entrepreneurship for enhanced value addition to people and natural resources, to stimulate, catalyze and promote economic growth and sustainable development in Tanzania and Sub-Saharan Africa. The training, therefore, incorporates appreciable doses of relevant business studies and humanities ingredients designed to develop attributes that will enable graduates to become better scientists and engineers for society and industry.

The goal of NM-AIST is to catalyze the development of excellent SETI through the production of high-quality scientists and engineers in Africa to stimulate, catalyze and promote economic growth and employment creation. Pursuant to this goal, the objective of NM-AIST is to educate the next generation of African scientists and engineers by equipping them with the technical, entrepreneurial and leadership capacities to solve African problems thereby contributing to the economic and social transformation of African countries. More information on NM-AIST is available on the website: www.nm-aist.ac.tz.

2.0 PROGRAMMES, AREAS OF SPECIALIZATION AND RESEARCH AREAS

The NM-AIST hereby invites qualified candidates for admission into various Master's and PhD programmes on offer for 2022/2023 academic year as shown in **Annex 1**.

3.0 ENTRY REQUIREMENTS

3.1 For Master's Programmes

3.1.1 Master's by Coursework and Dissertation

To be admitted into a Master's programme by Coursework and Dissertation at the NM-AIST, the following requirements will be taken into consideration:

- (i) Possession of at least a second class Bachelor's degree with at least a GPA of 3.0/5.0 or its equivalent or a postgraduate diploma with at least a GPA of 4.0/5.0 or its equivalent in an appropriate area of study from an accredited university or similar institution of higher learning. For an applicant holding unclassified degrees (e.g. M.D, BVM & DDS) should have at least an overall of "C" grade and an average of "B" grade in the relevant subject or field of his/her specialization.
- (ii) The applicant must satisfy the programme and speciality-specific requirements as specified by the respective School/Department hosting the programme (**See Annexes 2 to 4 below**).
- (iii) The applicant may be expected to undergo an entry assessment by a panel appointed by the host School/Department, which may take one of the following methods: (1) personal interview, (2) written assessment, or (3) interview plus written assessment.

3.1.2 Master's by Research and Thesis

To be admitted into a Master's programme by Research and Thesis at the NM-AIST, the following requirements will be taken into consideration:

- (i) Possession of a Bachelor's degree from an accredited university or similar institution of higher learning with a GPA of at least 3.5/5.0 or its equivalent or a postgraduate diploma with at least a GPA of 4.0/5.0 or its equivalent in an appropriate area of study from an accredited university or similar institution of higher learning. For an applicant holding unclassified degrees (e.g. M.D, BVM & DDS) should have at least an overall of "C" grade and an average of "B" grade in the relevant subject or field of his/her specialization and, either;
 - a) Possession of a prototype that requires incubation/scaling up in line with NM-AIST's research and innovation policy and guidelines, or
 - b) Evidence of at least ONE-year working experience in a related field and at least ONE publication in an accredited peer-reviewed journal as the FIRST author.

- (ii) Submission along with application documents, concise ONE-page concept notes or details of a prototype of what he/she wishes to work on as part of his/her study provided it be within the NM-AIST research agenda.
- (iii) Submission along with application documents, not more than ONE and a HALF -page of a statement of purpose/motivation letter on the requested study degree programme, with emphasis on his/her research experience.
- (iv) Submission along with application documents, not more than a concise TWO pages of his/her curriculum vitae (CV) with emphasis on research experience.
- (v) The applicant should be ready to pursue prescribed skills and capacity enhancing courses that are offered to all Master's students at NM-AIST as common core courses and as may be recommended by the supervisors, to enhance research performance. The courses may be taken flexibly during the duration of the programme but MUST be successfully completed before graduation.

3.1.3 Master's by Coursework and Project

This is a professional Master's programme and a student will spend the first three semester's doing coursework and one final semester in a pre-selected industry or NM-AIST laboratory to solve a pre-agreed problem of the industry or community. To be admitted into a Master's programme by Coursework and Project at the NM-AIST, the following requirements will be taken into consideration:

- (i) Possession of at least a second class Bachelor's degree with at least a GPA of 3.0/5.0 or its equivalent or a postgraduate diploma with at least a GPA of 4.0/5.0 or its equivalent in an appropriate area of study from an accredited university or similar institution of higher learning. For an applicant holding unclassified degrees (e.g. M.D, BVM & DDS) should have at least an overall of "C" grade and an average of "B" grade in the relevant subject or field of his/her specialization and working experience in related field (as guided by relevant School) will be added advantage.
- (ii) The applicant must satisfy the programme and specialty specific requirements as specified by the respective School/Department hosting the programme (**See Annexes 2 to 4 below**).
- (iii) The applicant may be expected to undergo an entry assessment by a panel appointed by the host School/Department, which may take one of the following methods: (1) personal interview, (2) written assessment, or (3) interview plus written assessment.

3.2 For PhD Programmes

3.2.1 PhD by Coursework and Dissertation

To be admitted into a PhD programme by Coursework and Dissertation at the NM-AIST, the following requirements will be taken into consideration:

- (i) Possession of at least a second class Bachelor's degree with at least a GPA of 3.0/5.0 or its equivalent or a postgraduate diploma with at least a GPA of 4.0/5.0 or its equivalent in an appropriate area of study from an accredited university or similar institution of higher learning. For an applicant holding unclassified degrees (e.g. M.D, BVM & DDS) should have at least an overall of "C" grade and an average of "B" grade in the relevant subject or field of his/her specialization.
- (ii) Possession of a Master's degree from an accredited university or similar institution of higher learning with a minimum GPA of 3.5/5.0 or its equivalent and at least an average of "B" in the relevant subjects or field of specialization.
- (iii) The applicant must satisfy the Programme and speciality specific requirements as specified by the respective School/Department hosting the programme (**See Annexes 2 to 4 below**).
- (iv) The applicant may be expected to undergo an entry assessment by a panel appointed by the host School/Department, which may take one of the following methods: (1) personal interview, (2) written assessment, or (3) interview plus written assessment.

3.2.2 PhD by Research and Thesis

To be admitted into a PhD programme by Research and Thesis at the NM-AIST, the following requirements will be taken into consideration:

- (i) Possession of at least a second class Bachelor's degree with at least a GPA of 3.0/5.0 or its equivalent or a postgraduate diploma with at least a GPA of 4.0/5.0 or its equivalent in an appropriate area of study from an accredited university or similar institution of higher learning. For an applicant holding unclassified degrees (e.g. M.D, BVM & DDS) should have at least an overall of "C" grade and an average of "B" grade in the relevant subject or field of his/her specialization.
- (ii) Possession of Master's degree from an accredited university or similar institution of higher learning with a minimum GPA of 3.5/5.0.
- (iii) Demonstrate working and research experience by either producing evidence of:
 - a) At least TWO years working experience in related field and at least TWO publications in accredited peer-reviewed journals, being the FIRST author in ONE publication or

- b) ONE publication and a patent/prototype emanating from his/her research/innovation work in line with NM-AIST's Research and Innovation Policy, or
 - c) A prototype that requires incubation/scaling up in line with NM-AIST's Research and Innovation Policy, or
 - d) A funded research project with a PhD training component in which the applicant is the project PI/ Co PI in a related field, or
 - e) Working experience (in related field) of at least FIVE years and a statement of purpose (education background, motivation for study programme, study plan and map, plan after study, and honors and awards); Submission of motivation letter, employer support letter and a detailed CV are required.
- (iv) Submission along with application documents, a concise TWO-page concept note or details of a prototype of what he/she wishes to work on as part of his/her study provided it is within the NM-AIST research agenda.
 - (v) The applicant may be expected to defend the concept note or prototype before a panel appointed by the host School/Department to demonstrate the candidate's research skills and work experience.
 - (vi) The applicant should be ready to pursue prescribed skills and capacity-enhancing courses that are offered to all PhD students at NM-AIST as common core courses and the supervisors may recommend as, enhancing research performance. The courses may be taken flexibly during the duration of the programme but **MUST** be successfully completed before graduation.

3.3 English Proficiency

Since English is the primary language of instruction, all applicants seeking admission to academic programmes at NM-AIST must possess adequate knowledge of written and spoken English as a prerequisite for admission. This demonstration may take one of the following forms:

- (i) Successful completion of a baccalaureate degree from a recognized university or similar institution of higher learning where English is the language of instruction.
- (ii) Successful completion of a postgraduate degree programme at a recognized university or similar institution of higher learning where English is the language of instruction.
- (iii) Submission of official results of the Test of English as a Foreign Language (TOEFL) with a paper-based score of 550 (or higher), computer-based score of 213 (or higher) or Internet-based with a score of 80 (or higher).

3.4 Academic Transcripts and Certificates

- (i) Candidates who have been awarded Bachelor's and/or Master's degrees at accredited universities or similar institutions of higher learning which issue academic documents in languages other than English shall submit notarized English translations of all supporting documentation including, but not limited to, transcripts, degrees, and diplomas.
- (ii) The Tanzania Commission must authenticate the academic levels or equivalence of the qualifications obtained from foreign institutions for Universities (TCU) before being registered for studies at NM-AIST. For the guidelines on how to submit, the documents to TCU follow the following link: <https://faas.tcu.go.tz/login.php>. Or https://www.tcu.go.tz/sites/default/files/Procedures_FAAS.pdf
- (iii) You are therefore, advised to start the process of applying for TCU authentication of your transcripts, degrees, or diplomas at least two (2) months before reporting to avoid any delays of registration for your studies at NM-AIST.

3.5 Programme Specialty Requirements

In addition to the minimum entry requirements for Master's and PhD programmes stipulated above, students with diploma level must have at least a GPA of 3.5/5.0 or its equivalent in an appropriate area of study from an accredited university or similar institution of higher learning. Other additional requirements specific for each programme and/or specialty stipulated by the host Department/School that will also be considered for admission into the respective programme or specialty are as shown in **Annexes 2 to 4**.

4.0 FEE STRUCTURE

The fee structure for NM-AIST applicable for 2022/2023 academic year is available along with this call for admissions application and also available on the NM-AIST website: www.nm-aist.ac.tz.

5.0 SPONSORSHIP OPPORTUNITIES

A limited number of scholarship opportunities may be available on competitive basis in the academic year 2022/2023, which will be uploaded on our website.

6.0 APPLICATION INFORMATION AND INSTRUCTIONS

- (i) All applicants must access, register and fill their application information through the Online Admission System (OAS) available on the website: www.nm-aist.ac.tz or click the direct link: <https://oas.nm-aist.ac.tz:8443/noas/>.
- (ii) Applicants are required to read and understand all information and instructions before filling the online application form.

(iii) The following documents **MUST** be organized, processed in PDF file, uploaded and submitted through Online Admission System:

- a) Certified copies of all academic transcripts and certificates;
- b) Certified copies of Secondary Education Examinations;
- c) All evidences required for the Master's or PhD by Research and Thesis degree mode;
- d) Evidence of English Proficiency if the medium of communication in the preceded academic levels were not in English Language;

7.0 PAYMENT OF APPLICATION FEES

The fee structure for 2022/23 can be accessed through www.nm-aist.ac.tz and the admission application fees are as follows:

- (i) For Tanzanians: TZS. 50,000/= for Master's degree applicants or TZS.65, 000/= for PhD degree applicants.
- (ii) For Internationals: USD 25 for Master's degree applicants or USD 32 for PhD applicants

All payments should be done by using control numbers, by following instruction directly from the Online Admission System (OAS) (<https://oas.nm-aist.ac.tz:8443/noas/>) after login and filling personal information form. Please carefully read the payment instructions provided after receiving the control number for payment.

8.0 DEADLINE OF APPLICATIONS

All applications **MUST** be submitted before the end of **15 May 2022** for students intending to report for studies in **7 June 2022** and before the end of **15 November 2022** for the students intending to report for studies in **9th January 2023**. However, applications for Master's and PhD by Research and Thesis programmes are submitted throughout the particular academic year and qualified candidates report anytime for studies within that particular academic year.

Note: For assistance or more inquiries on general admission applications write to admission@nm-aist.ac.tz or call +255 628 183 676/+255737739529 during office hours. For information regarding international assistance such as TCU foreign degree awards authentication, VISA or permits applications write to international.office@nm-aist.ac.tz or call the same provided phone numbers.

Annex 1: Degree Programmes and Specializations

School	Degree Programmes	Programme Specialization
Life Sciences and Bio- Engineering (LiSBE)	1. Master of Science in Health and Biomedical Sciences (MSc- HBS) 2. PhD in Health and Biomedical Sciences (PhD- HBS)	i) Health and Biomedical Sciences
	1. Master of Science in Biodiversity and Ecosystem Management (MSc-BiEM) 2. PhD in Biodiversity and Ecosystem Management(PhD- BiEM)	ii) Molecular Biodiversity and Bio-Prospecting iii) Sustainable Utilization of Natural Resources i) Biodiversity and Ecosystem Management
	1. Master of Science in Sustainable Agriculture(MSc-SuAG) 2. PhD in Sustainable Agriculture(PhD-SuAG)	i) Plant Molecular Breeding ii) Agricultural Systems Management iii) Molecular Plant Pathology
	1. Master of Science in Food Science and Biotechnology (MSc- FoSB) 2. PhD in Food Science and Biotechnology (PhD- FoSB)	i) Postharvest Handling and Processing Technologies ii) Food Safety and Quality i) Food Science and Biotechnology
	1. Master of Science in Human Nutrition and Dietetic (MSc- HuND) 2. PhD in Human Nutrition and Dietetic (PhD HuND) (By Research and Thesis only)	i) Clinical Nutrition i) Regulation of Nutrient Metabolism ii) Molecular Mechanism of Human Disease-Nutrition
	1. Master of Science in Public Health Research (MSc-PHR)	i) Determinants of Health and Diseases ii) Intervention Research iii) Implementations and Health Systems Research

School	Degree Programmes	Programme Specialization
Computational and Communication Science and Engineering (CoCSE)	1. **Master's in Applied Mathematics and Computational Science (M- AMCS) 2. **PhD in Applied Mathematics and Computational Science (PhD- AMCS)	i) Applied Mathematics and Computational Science
	1. **Master of Information and Communication Systems Engineering (M-ICSE) 2. **PhD in Information and Communication Systems Engineering (PhD-ICSE)	i) Electronics Engineering ii) TelecommunicationsEngineering
	1. Master's in Information and Communication Science and Engineering (M-ICSE) 2. PhD in Information and Communication Science and Engineering (PhD-ICSE)	i) Information Technology Systems Development and Management
	1. Master of Science in Embedded and Mobile Systems (MSc-EMoS)	i) Embedded Systems ii) Mobile Systems
	1. Master of Wireless and Mobile Computing (M-WiMC) 2. Master of Information Systems and Network Security (M-ISNS)	i) Wireless and Mobile Computing ii) Information Systems and Network Security

****New Programmes to be offered from January 2023**

School	Degree Programmes	Programme Specialization
Materials, Energy, Water and Environmental Sciences (MEWES)	1. Master of Science in Hydrology and water resource Engineering (MSc HWRE)	i) Hydrology and Climate studies ii) Water Resources Engineering and Management
	2. PhD in Hydrology and water resource Engineering (PhD in HwRE)	i) Hydrology and water resource Engineering
	1. Master of Science in Environmental Science and Engineering (MSc EnSE)	i) Environmental science
		ii) Environmental Engineering
	2. PhD in Environmental Science and Engineering (PhD in EnSE)	i) Environmental science ii) Environmental Engineering
	1. Master of Science in Sustainable Energy Science and Engineering (MSc SESE)	i) Renewable Energy Engineering
	2. PhD in Sustainable Energy Science and Engineering (PhD in SESE)	i) Smart Grid Technology (Only for By thesis)
		ii) Renewable Energy Engineering
	1. Master of Science in Materials Science and Engineering (MSc. MaSE)	i) Material Science and Engineering
2. PhD in Materials Science and Engineering (PhD in MaSE)	i) Materials Science and Engineering	
1. Master of Science in Health Physics and 2. Radiation Protection (HPRP)	i) Health Physics and Radiation Protection	
School of Business Studies and Humanities (BuS)	1. *Master of Innovation and Entrepreneurship Management (M-IEM)	i) Innovation Management ii) Entrepreneurship Management
	2. *PhD in Innovation and Entrepreneurship Management (PhD-IEM)	i) Innovation Management ii) Entrepreneurship Management

**Conditionally accredited subject to meeting some requirements as directed by the TCU*

Annex 2: School of Life Science and Bioengineering (LiSBE)

Degree Program	Programme Specialization	Prerequisite degree Courses
Master of Science in Health and Biomedical Sciences (MSc-HBS) PhD in Health and Biomedical Sciences (PhD-HBS)	Health and Biomedical Sciences	Veterinary Science or Medicine (BVSc, BVM, DVM); Human Medicine (MD); Biomedical Sciences; Clinical Sciences; Animal Science; Microbiology; Molecular Biology; Biotechnology; Physiology (Medical or Veterinary), Pathology (Medical or Veterinary); Immunology (Medical or Veterinary); Parasitology; Zoology and related fields.
Master of Science in Sustainable Agriculture(MSc-SuAG) PhD in Sustainable Agriculture(PhD-SuAG)	i) Plant Molecular Breeding ii) Agricultural Systems Management iii) Molecular Plant Pathology	Agriculture; Crop Science; Biology; Horticulture; Agronomy; Plant Pathology; Biology; Genetics; Biotechnology; Botany and Forestry; Agricultural Economics; Crop Pathology, Agricultural Education and Extension; Agro-ecology, Botanical Science; Range Management and related fields.
Master of Science in Food Science and Biotechnology (MSc-FoSB)	i) Postharvest Handling and Processing ii) Food Safety and Quality	Food science, Food science and technology, Food science and nutrition, Food biotechnology, Food technology and product development, Home economics and human nutrition, Food engineering, Food processing engineering, Postharvest science and technology, Postharvest technology, Postharvest technology and management, Bioprocessing and postharvest engineering, Horticulture, Functional foods, Food production management, Chemical and processing engineering, Food chemistry, Food biochemistry.
PhD in Food Science and Biotechnology (PhD-FoSB)	i) Food Science and Biotechnology	Food safety, Food safety and public health, Mycotoxicology, Food microbiology, Biology, Microbiology, Food hygiene, Food regulation and legislation, and other related fields.
Master of Science in Human Nutrition and Dietetic (MSc-HuND)	i) Clinical Nutrition	Human Nutrition, Home Economics and Human Nutrition, Family and Consumer studies, Food science and Nutrition, Food Science and Technology, Community

PhD in Human Nutrition and Dietetic (PhD-HuND- By Research and Thesis only)	i) Regulation of Nutrient Metabolism ii) Molecular Mechanism of Human Disease- Nutrition	Nutrition, Dietetics, Public Health, Nursing, Medicine, Agriculture and related fields
Master of Science in Biodiversity and Ecosystem Management(MSc-BiEM) PhD in Biodiversity and Ecosystem Management(PhD-BiEM)	i) Molecular Biodiversity and Bio-Prospecting ii)Sustainable Utilization of Natural Resources.	Ecology and Biodiversity; Wildlife Science and Conservation; Conservation Biology; Forestry; Silviculture; Aquaculture; Evolutionary Biology; Tropical Biodiversity and Wildlife Management; Organic Chemistry; Microbiology; Agro-ecology; Animal Science; Population Biology and related fields.
Master of Science in Public Health Research (MSc- PHR)	i) Determinants of Health and Diseases ii) Intervention Research iii) Implementations and Health Systems Research	Social Sciences (Sociology, Anthropology), Environmental Sciences, Doctor of Medicine, Veterinary Science/Medicine, Human Nutrition Sciences, Statistics, Biology, Informatics and related fields Statistics, Doctor of Medicine, Veterinary Science/Medicine, Environmental Sciences, Human Nutrition Sciences, Biology and related fields Social Sciences, Doctor of Medicine, Environmental Sciences, Health System Management, Economics, Statistics, Informatics and related fields

Annex 3: School of Computational and Communication Science and Engineering (CoCSE)

Degree Programme	Programme Specialization	Prerequisite degree Courses
**Mathematical and Computer Science and Engineering (MCSE)	i) Applied Mathematics and Computational Science (AMCS)	Mathematics, Applied Mathematics, Statistics, Applied Statistics, Mathematical Modelling, Statistical Modelling, Computational Mathematics, Data Science or related fields
**Master of Information and Communication Systems Engineering (Master of ICSE)	i) Electronics Engineering ii) Telecommunications Engineering	Mobile Computing, Wireless Networks; Software Engineering; Computer Science and Engineering; Computer Engineering, Electronics Engineering, Electrical Engineering, and Telecommunications Engineering or related fields.
**PhD in Information and Communication Systems Engineering (PhD in ICSE)	i) Electronics Engineering ii) Telecommunications Engineering	Mobile Computing, Wireless Networks; Software Engineering; Computer Science and Engineering; Computer Engineering, Electronics Engineering, Electrical Engineering, and Telecommunications Engineering or related fields
Information and Communication Science and Engineering (ICSE)	i) Information Technology Systems Development and Management (ITSDM)	Information Systems; Information Technology; Informatics; Computer Science; Software Engineering; Computer Engineering, or related fields
Embedded and Mobile Systems (EMoS)	i) Embedded Systems ii) Mobile Systems	Mobile Computing; Wireless Networks; Software Engineering; Computer Science; Computer Engineering; Electronics Science and Engineering; Telecommunication Engineering; Electrical Engineering, Embedded systems, or related fields.
Wireless and Mobile Computing (WiMC)	i) Wireless and Mobile Computing	Information Systems; Informatics; Mobile Computing; Wireless Networks; Software Engineering; Computer Science, electronics and Computer Engineering.
Information Systems and Network Security (ISNS)	i) Information Systems and Network Security	Information Systems; Information Technology; IT Security, Informatics; Software Engineering; Computer Science; and Computer Engineering.

****New Programmes to be offered from January 2023**

Annex 4: School of Materials, Energy, Water and Environmental Science (MEWES)

Degree Programme	Programme Specialization	Prerequisite degree Courses	Specific Requirements
Hydrology and Water Resources Engineering (Masters & PhD)	i) Hydrology and Water Resources Engineering	Water Resources Engineering, Irrigation Engineering, Geology, Hydrogeology, Environmental Science, Environmental Engineering, Geography, Civil Engineering, Sanitation Engineering, Mining Engineering and related fields.	Applicants MUST have at least “B” grades at a Bachelor’s degree, in courses majoring the degree programme/ specialty applied for. Work experience and knowledge in modelling will be an added advantage.
Environmental Science and Engineering (Masters&PhD)	i) Environmental Science ii) Environmental Engineering	Chemistry, Biology, Zoology, Aquatic/Marine Sciences, Chemical Engineering, Environmental Science/Engineering, Food Sciences/Engineering, Biochemical Engineering, Agriculture, Wildlife, Forestry, Mining Engineering, Mineral Processing, Geology, Public health, Ecotourism and Natural Resources Conservation Water Resources Engineering, Microbiology and related fields.	In addition to the above, applicants holding Bachelor’s degrees majoring in Chemistry or Biology like Bachelor of Education with Chemistry/Biology and Bachelor of Science (Chemistry/Biology) MUST have at least “B” grades in Chemistry, Biology and/or other courses related to Environmental Science/Engineering, Chemical Engineering and related courses.
Master of Science in Health Physics and Radiation Protection (HPRP)	i) Health Physics and Radiation Protection	i) Possess a Bachelor’s degree from an accredited university or similar institution of higher learning with GPA of at least 3.0/5.0 or its equivalent from an accredited university of similar institution of higher learning in Natural Sciences; Biological/Physical Sciences, Radiation Therapy Technology, Health Sciences, Applied Nuclear Physics, Engineering;	The students should have successful completion of Bachelor’s degree in Natural Sciences; Health Sciences, Engineering; Specifically, the appropriate fields will include Physics, Chemistry, Biology, Health, Engineering or related degrees or related fields

		<p>Specifically, the appropriate fields will include Physics, Chemistry, Health, Radiology, Electrical, Mechanical or Chemical Engineering or related degrees or related fields.</p> <p>ii) In case of applicants with unclassified degrees, should have at least an overall of “B” grade and an average of “B+” grade in the relevant subjects or field of his/her specialization: Natural Sciences; Health Sciences, Engineering; Specifically, the appropriate fields will include Physics, Chemistry, Health, Biology, Engineering or related degrees or related fields.</p> <p>iii) Possess Postgraduate diploma in the fields of study mentioned in (i) with a postgraduate diploma in the same field with GPA of 4.0 as entry route to Master’s programme</p>	
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<p>Materials Science and Engineering (Masters&PhD)</p>	<p>i) Material Science and Engineering</p>	<p>Physics, Chemistry, Biology, Mechanical Engineering, Structural Engineering, Mathematics and/or related courses, Mechanical Engineering, Civil Engineering, Chemical Engineering, Computer Engineering, Computer Science, Electrical Engineering, Polymer Engineering, Materials Science and Engineering and related fields.</p>	<p>Applicants holding Bachelor's degrees majoring in Chemistry, Physics or Biology, like Bachelor of Education with Chemistry/Biology/Physics and Bachelor of Science (Chemistry/Biology/Physics) MUST have at least "B" grades in Chemistry, Biology, Physics courses and/or other courses related to Environmental Sciences/Engineering and Chemical Engineering. Work experience in indigenous raw materials application, material structure and failure and nanotechnology will be an added advantage.</p>
<p>Sustainable Energy Science and Engineering (Masters & PhD)</p>	<p>i) Smart Grid Technology ii) Sustainable Power Generation and Energy Utilization iii) Renewable Energy Engineering</p>	<p>Energy Engineering, Electrical Engineering, Mechanical Engineering, Chemical Engineering, Chemicals and Processing Engineering; Bachelor's degrees in other Engineering disciplines or natural sciences (Physics and Chemistry) may also be sufficient provided that relevant coursework in Thermodynamics, Basic Engineering, Statics and Dynamics Controls, Heat Transfer, Fluid Dynamics, Energy and Mass Transfer, Reactor Design, Electrochemistry, Semiconductors, Mathematics: with a focus on Numerical Analysis, Vector Calculus Differential Equations, Computer Programming knowledge or related fields were pursued</p>	<p>Applicants MUST have at least "B" grades in Chemistry, Physics, Mathematics, Energy Sciences and/or Mechanical Engineering and related courses in their Bachelor's degree.</p>

Annex 5: School of Business Studies and Humanities (BuSH)

Degree Programme	Specialization	Pre requisite degree courses
*Master of Innovation and Entrepreneurship Management (IEM)	i) Innovation Management ii) Entrepreneurship Management	Business Administration and or Management, Entrepreneurship Management, Innovation Management, Natural Science, Engineering, and Technologies or any related area
*Ph.D. in Innovation and Entrepreneurship Management (IEM)	i) Innovation Management ii) Entrepreneurship Management	Business Administration and or Management, Entrepreneurship Management, Innovation Management, Natural Science, Engineering, Technologies and any related area

**Conditionally accredited subject to meeting some requirements as directed by the TCU*

