



**MBEYA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

...

**ANNUAL REPORT
2019/2020**

JULY, 2021

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LIST OF ACRONYMS

ANSTI	The African Network of Scientific and Technological Institutions
AQRB	Architects and Quantity Surveyors Registration Board
ARU	Ardhi University
ATC	Arusha Technical College
CAPA	The Commonwealth Association of Technical Universities and Polytechnics in Africa
CoACT	College of Architecture and Construction Technology
CET	College of Engineering and Technology
CoHBS	College of Humanities and Business Studies
CoICT	College of Information and Communication Technology
CoSTE	College of Science and Technical Education
CoL	Commonwealth of Learning
CRB	Contractors Registration Board
CVCPT	Committee of Vice Chancellors, Principals of Public Universities and University Colleges, Tanzania
DIT	Dar es Salaam Institute of Technology
DVC-ARC	Deputy Vice Chancellor – Academic, Research and Consultancy
DVC-PFA	Deputy Vice Chancellor – Planning, Finance and Administration
ERB	Engineers Registration Board
FPT	Field Practical Training
FTC	Full Technician Certificate
HLI	Higher Learning Institution
ICT	Information Communication Technology
IPSAS	International Public Sector Accounting Standards
IPT	Industrial Practical Training
IRDP	Institute of Rural Development and Planning
IST	Institute of Science and Technology
IUCEA	The Inter-University Council for East Africa
MATI	Ministry of Agriculture Training Institute
MCB	MUST Consultancy Bureau
MIST	Mbeya Institute of Science and Technology
MJRD	MUST Journal of Research and Development
MoEST	Ministry of Education, Science and Technology
MoFP	Ministry of Finance and Planning
MoU	Memorandum of Understanding
MRCC	MUST Rukwa Campus College
MTC	Mbeya Technical College
MUHAS	Muhimbili University of Health and Allied Sciences
MUST	Mbeya University of Science and Technology
MUSTASA	Mbeya University of Science and Technology Academic Staff Association

MUSTSO	Mbeya University of Science and Technology Students Organization
MWAPOI	Mwanza Polytechnic Institute
NACTE	National Council for Technical Education
NCC	National Construction Council
NUFFIC	Dutch Organisation for Internationalisation in Education
PhD	Doctor of Philosophy
SADC	Southern Africa Development Cooperation
SARUA	Southern African Regional Universities Association
SEAP	Structured Engineers Apprenticeship Programme
SoHBS	School Humanities and Business Studies
SIDO	Small Industries Development Organization
STI	Science, Technology and Innovation
SUA	Sokoine University of Agriculture
TBA	Tanzania Building Agency
TCRA	Tanzania Communication Regulatory Authority
TCU	Tanzania Commission for Universities
TEA	Tanzania Education Authority
TEKU	Teofilo Kisanji University
THTU	Tanzania Higher Learning Institutions Trade Union
TIRDO	Tanzania Industrial Research and Development Organization
TP	Teaching Practice
UCSAF	Universal Communication Access Fund
UDOM	The University of Dodoma
UDSM	University of Dar es Salaam
URT	United Republic of Tanzania
USSR	Union of Soviet Socialist Republics
VC	Vice Chancellor
VETA	Vocational Education and Training Authority

STATEMENT FROM THE CHANCELLOR

HON. DR. PIUS MSEKWA



The time has once again arrived, for the Annual Report of Mbeya University of Science and Technology (MUST) for the Financial Year 2019/2020, to be presented to the relevant authorities. These Annual Reports are prepared regularly in order to fulfill a statutory requirement; but also in order to update our various stakeholders, plus the community at large; on the academic and administrative activities performed, and progress made during the relevant year, in implementing the University's strategic objectives and functions; as stipulated in its Charter of 2013, and in the Universities Act of 2005.

Since its establishment in 2012/2013, this University has continued to widen the scope of participation and contribution by its stakeholders, in its pursuit of academic excellence, plus its implementation of the national requirement to provide access to educational opportunities to all qualified students. The University has thus maintained a tradition of attracting students from a wide range of social and cultural backgrounds, to enroll in its academic programmes. Furthermore, the University has forged a strong and healthy partnership with its student and staff organizations, and its individual members of staff, in recognition of the importance of the 'participatory approach' principle in the implementation of its core function. This approach has paved the way that enabled the University to deliver an outstanding experience that enriches the lives of its students and staff, fosters a culture of wellbeing among them, and values their voices.

During the period covered by this Report, the University has reviewed existing curricula, and developed significant new curricula; with the aim of ensuring that all our academic programmes remain relevant, are market driven, they meet the needs of the country's labour market; and

positively contribute to the realization of the Government's industrialization agenda. Furthermore, the University also started offering postgraduate programmes, geared towards enhancing its capacity to conduct researches that address some important socio-economic challenges.

The achievements thus recorded in this Report could not have been possible without the support of the Government of the United Republic of Tanzania, which the University has continued to receive. For example, the Government has, only recently, disbursed to the University some generous development funds for infrastructure development, which have significantly improved the teaching and learning environment. I am thus obliged to express the University's sincere gratitude for this continuing generous financial support, and look forward to receiving more such support in the coming years.

STATEMENT FROM THE COUNCIL CHAIRPERSON

HON. ZAKIA HAMDANI MEGHJI



The Financial Year 2019/2020 is yet another successful year for Mbeya University of Science and Technology (MUST). The University has continued to uphold its competitive edge in providing training, conducting research, and in delivery of consultancy services. In this year, the University embarked on transformation whereby a new organisational structure was implemented in which new Colleges and Directorates were established. The newly formed Colleges resulted in establishment of new programmes which are expected to provide opportunity for more Tanzanians to access tertiary education. The newly established directorates will help reduce management bureaucracy thus improve the general administration of the University. The University Council is pleased to be part of the achievements registered by providing required guidance.

On behalf of the Council, I thank the University Management, Staff and Students for their commitment and enthusiasm in making MUST a great place for professional development, directly contributing towards achievement of economic, social and political goals enshrined in the Nation's development instruments.

To our stakeholders we at MUST reaffirm our commitment to providing knowledge, skills and applied education in science and technology. To achieve this ambition, we call for your continued support. Finally, I present to you the Annual Report for the Financial Year 2019/2020 that provides an account of the efforts taken by the University in implementation of its core activities.

STATEMENT FROM THE VICE CHANCELLOR

PROF. ALOYS MVUMA



I am delighted to take this opportunity to provide highlights of the accomplishments of Mbeya University of Science and Technology in the Financial Year 2019/2020. The year under review commenced with a high note; MUST transformed her academic environment by forming new colleges, directorates and departments to reposition itself as a reputable and efficient contributor to the knowledge generation and dissemination. This transformation has brought about many exciting achievements which will be narrated in this Annual Report.

In line with the 2017/2018 – 2021/2022 Corporate Strategic Plan, the University has relentlessly continued to place emphasis on providing quality higher education as well as actively engage in research and consultancy activities, thus responding to the most pressing issues of our era.

During the reporting year, the University increased student enrollment while registering the first cohort of postgraduate students in technical education and civil engineering. Central to that, to sustain the market demand and to cater for national development requirements, the University continued to improve the existing programmes through curricula review as well as developing new ones.

In order to strengthen capacity, the University has tirelessly urged and supported staff to pursue further studies. In line with that, the University continued to strengthen links with national and international institutions by signing Memoranda of Understanding (MoUs). It is anticipated that the collaborations will lead to new research and exchange opportunities for staff and students.

The University has remained committed to providing conducive environment for living and learning through infrastructure development and rehabilitation. During the period under review, construction of New Library

phase one was completed, construction of the New Workshop was practically completed, and construction of student hostel commenced.

On behalf of MUST community, I would like to express my appreciation for the support and guidance provided by all stakeholders in recording the accomplishments and achievements made. I am confident that 2020/2021 will be marked with more achievements for our University.

MUST GOVERNANCE



Hon. Pius Msekwa
Chancellor



Hon. Zakia Hamdani Meghji
Council Chairperson



Prof. Aloys Mvuma
Vice Chancellor



Prof. Justinian Anatory
**Deputy Vice Chancellor – Planning,
Finance and Administration**



Prof. Godliving Mtui
**Deputy Vice Chancellor – Academic,
Research and Consultancy**

COUNCIL MEMBERS



Hon. Zakia Hamdani Meghji
Council Chairperson



Dr. Amos Nungu
**DG - COSTECH
Representative
Vice Chairperson**



Prof. Aloys Mvuma
**Vice Chancellor
Member**



Ms. Anna Mbelwa
**Nominee of MoFP
Member**



Prof. Lugano Kusiluka
**Nominee of CVCPT
Member**



Prof. Justinian Anatory
**DVC-PFA
Member**



Prof. Godliving Mtui
**DVC-ARC
Member**



Prof. Shukuru Manya
**Nominee of the
Chancellor
Member**



Dr. Lwitiko Mwakalukwa
**Private Sector
Representative
Member**



Dr. Haji Mwevula
**Nominee of RGZ
Member**



Mr. Hassan Masanja
**MUSTSO President
Member**



Mr. Abbas Sanga
**Nominee of MUSTASA
Member**



*Mr. Emmanuel
Mwangomo*
**Nominee of THTU
Member**



Mr. Geofray Ngulla
Ag. Corporate Counsel - Secretary

EXECUTIVE SUMMARY

In the Financial Year 2019/2020, Mbeya University of Science and Technology (MUST) continued to fulfill its mandate by focusing its attention on its tripartite core functions i.e. academic, research and consultancy. Despite challenges that uniquely marked the reporting year, particularly the outbreak of COVID-19 pandemic, the University managed to record remarkable achievements worth narrating as summarized hereunder.

- (i) *Academic programmes:* Programmes offered increased by 30 per cent from 21 in 2018/2019 to 30. More significant was a 66.7 per cent increase in Bachelor programmes from 6 to 10. The most outstanding achievement was the offering of three (3) postgraduate programmes for the first time since the establishment of the University.
- (ii) *Curriculum review:* All 21 academic programmes curricula were reviewed to improve the content and enhance their relevance to the labour market. In addition, all 15 Ordinary Diploma programmes were reviewed to comply with TCU requirements and standards.
- (iii) *Curriculum development:* Curricula for 39 new programmes were developed that included 14 for postgraduate programmes. The curricula were submitted to TCU for validation and accreditation.
- (iv) *Student enrolment:* Enrolment rose to 5,678, equivalent to 22.6 per cent increase, compared with 4,630 in 2018/2019. The increase is attributed to the 30 per cent increase in the number of offered programmes. The proportion of female students in Diploma programmes increased from 22 to 25 per cent with no noticeable change in Bachelor programmes. The University started offering Postgraduate programmes by enrolling 15 pioneer students.
- (v) *Number of graduates:* At the 7th MUST graduation ceremony held on 14th December 2019, 446 candidates were awarded Ordinary

Diplomas and 671 candidates were conferred Bachelor degrees, making a total of 1,117 candidates. There was an increase of 21.9 per cent in the number of students who graduated and corresponding increase of 61.5 per cent and 4.8 per cent in Diploma and Bachelor degree graduates, respectively, compared to the 6th graduation. A sharp increase in the number of Diploma graduates is attributed to the 92.3 per cent increase in the student enrolment from 440 in 2015/2016 to 846 in 2016/2017.

- (vi) *Commercial consultancies and construction projects:* During the year under review, the two entities i.e. MISTECO and MCB were merged to form MCB Company Ltd. The Company was registered with Business Registration and Licensing Agency (BRELA) on 23rd June 2020. The number of commercial consultancies undertaken by the Company was 35 worth TZS 8,154,724,030. Likewise, the number of construction projects in which the Company was engaged as a contractor was nine (9) with contractual sum of TZS 4,717,060,024.
- (vii) *Research and academic projects:* The number of research projects increased from 20 in the previous year to 14 in the reporting period which is equivalent to 30% decrease. However, the number of publications increased to 53 from 46 in the year 2017/2018 which is equivalent to 15.2% increase.
- (viii) *Human resources:* The University had 552 employees that included 342 academic and 210 administrative staff, which was a 9.1 per cent increase compared to 2018/2019. The number academic staff increased by 30.5 per cent and administrative staff by 13.5 per cent. However, staff-to-student ratio deteriorated from 1:14 in 2018/2019 to 1:17 in 2019/2020.

Moreover, 103 staff were pursuing postgraduate studies to upgrade their qualifications and 29 academic staff were promoted to higher ranks after acquiring relevant qualifications. Six (6) members of staff

retired from public service after attaining compulsory retirement age of 60 years and one (1) staff passed away.

(ix) Infrastructure development:

- (a) Construction of the New University Library Phase I was completed and is being used for provision of library services.
- (b) Construction of students' hostel blocks commenced. The substructure was completed, superstructure was 20 per cent completed and the whole project was completed by 30 per cent.
- (c) Construction of two Classrooms was completed and were furnished and installed with audiovisual equipment. Each classroom has a sitting capacity of 400 students.
- (d) Renovation and transformation of the basement space into 66 offices with the capacity to accommodate 264 staff and 12 general purpose rooms was completed.

(x) Collaborations: The University has continued to forge strategic links with national and international institutions to support realization of its objectives.

INTRODUCTION

In the Financial Year 2019/2020, Mbeya University of Science and Technology (MUST) marked its eighth year since it was established in 2012/2013. The unique history of MUST traces its origin in 1986 when the Government of the United Republic of Tanzania (URT) established Mbeya Technical College (MTC). The establishment of MTC was aimed at training Full Technicians at Certificate Level (FTC) under the Union of Soviet Socialist Republics (USSR) - Tanzania Training Collaboration. In a deliberate move to transform the College to become a fully-fledged University, MTC was elevated to a comprehensive multi-disciplinary Mbeya Institute of Science and Technology (MIST) by the National Council for Technical Education (NACTE) in 2006. Finally, on 29th March 2012, the Institute was granted a provisional license by the Tanzania Commission for Universities (TCU) to operate as a University that formally gave birth to MUST. The University was granted its Charter on 20th August 2013.

All these transformations were the Government's intention to increase the number and quality of highly demanded technical experts who are responsive to the various requirements of the nation and beyond. Up to this end, several programmes for ordinary diploma and undergraduate degree programmes are being offered. Moreover, during the year 2019/2020 the University started to offer three postgraduate degree programmes.

This Report provides a summary of activities carried out during the reporting period and achievements made. Emphasis was placed on student enrolment, infrastructure development as well as research and consultancy. The Report also outlines challenges encountered during the reporting period that would need special consideration in subsequent years.

MOTTO

The Motto of Mbeya University of Science and Technology is endeavouring to lead in science and technology.

VISION

The Vision of Mbeya University of Science and Technology is to become a center of excellence for knowledge, skills and applied education in science and technology.

MISSION

The Mission of Mbeya University of Science and Technology is to develop academically, technologically and socially competent students, staff and other stakeholders who will be responsive to the broader needs and challenges of the society specified by:

- (a) Facilitating appropriate tuition, practical training and support according to the needs of students and other customers;
- (b) Encouraging staff commitment to quality education and services including research and consultancy;
- (c) Fostering lifelong learning, honesty and responsibility;
- (d) Promoting an environment conducive to human development; and
- (e) Promoting effective entrepreneurship and usage of appropriate technology that meet national and international needs and standards through skills and practical oriented training, research and consultancy.

FUNCTIONS

The mission is translated into the following concrete functions, which are also clearly highlighted in the Charter establishing the University:

- (a) To provide facilities for study and training in the principles, procedures and techniques in science, technology, and business management;
- (b) To conduct training programmes in the disciplines specified in (a) above;
- (c) To engage in applied research and consultancy services to the public;

- (d) To sponsor, arrange or provide facilities for conferences and seminars;
- (e) To establish colleges, institutes, schools, faculties and departments within the University for the organization and administration of its work and activities;
- (f) To conduct examinations and grant awards of MUST as approved by the relevant authorities;
- (g) To be a catalyst in science, technology and management reforms through conducting relevant research and educating the public in science, technology and management related issues;
- (h) To arrange for publication and general dissemination of materials produced in connection with the work and activities of the University;
- (i) To engage in self-reliance activities for effective financing and promotion of entrepreneurship;
- (j) To establish and foster closer cooperation with Universities, Technical Colleges and other institutions of tertiary and higher education and promote international cooperation with similar institutions; and
- (k) To do all such acts and things and enter into all such contracts and transactions as are in the opinion of the Council expedient or necessary for the proper and efficient discharge of the functions of the University.

CORE VALUES

MUST is committed to attracting and developing excellent staff and students to achieve the challenging goals, targets and directions set for tertiary and higher education. The following values characterize the work and life of the University. In fulfilling the Vision and Mission of the University, the following Core Values would be adhered to:

- (a) Leadership in innovation and technology;
- (b) Culture of excellence;

- (c) Diversity and equal opportunities for all;
- (d) Partnerships; and
- (e) Integrity and stewardship of resources.

GOVERNANCE AND MANAGEMENT STRUCTURE

SUPRA LEVEL

The supra level constitutes the University Chancellor and the University Council. The Chancellor is the Head of the University while University Council governs, controls and administers all activities of the University. On academic issues, the Council is assisted by the University Senate which is the principal decision-making organ in all academic matters. The Vice Chancellor is the Chairperson of the Senate while members are the Principals, Directors and a representative from the Ministry of Education, Science and Technology (MoEST) and students body.

HIGHER LEVEL

The higher administration level is the top management in the University structure which spearheads the operations of the University. It comprises the Vice Chancellor (VC) and two Deputies namely the Deputy Vice Chancellor - Academic, Research and Consultancy (DVC-ARC) and Deputy Vice Chancellor - Planning, Finance and Administration (DVC-PFA). The Vice Chancellor is the Chief Executive Officer of the University.

MIDDLE LEVEL

This level comprises Campus Colleges, Directorates and Centres. There are College of Engineering and Technology, College of Science and Technical Education, College of Humanities and Business Studies, College of Architecture and Construction Technology, College of Information, Science and Technology and MUST Rukwa Campus College (MRCC). Directorates are Directorate of Undergraduate Studies, Directorate of Postgraduate Studies, Research and Publications, Directorate of Library Services, Directorate of Public Services and External Links, Directorate of Quality Assurance,

Directorate of Student Affairs, Directorate of Planning and Investment, Directorate of Finance, Directorate of Estates and Technical Services, Directorate of Administration and Human Resource Management and Directorate of Information and Communication Technology and Statistics. Centres include Centre for Virtual and Continuing Education, and Centre for Innovation and Technology Transfer.

LOWER LEVEL

This level consists of Units and Departments. These include: Department of Civil Engineering, Department of Electrical and Power Engineering, Department of Mechanical and Industrial Engineering, Department of Geosciences and Mining Technology, Department of Chemical and Environmental Engineering, Department of Natural Sciences, Department of Technical Education, Department of Mathematics and Statistics, Department of Applied Sciences, Department of Earth Sciences, Department of Business Management, Department of Humanities, Department of Law, Department of Architecture and Art Design, Department of Urban Planning and Real Estate Studies, Department of Construction Management and Technology, Department of Computer Science and Engineering, Department of Information Technology Systems, Department of Electronics, Telecommunications Engineering; and Department of Informatics, Department of Admission, Department of Examination, Department of Loans and Scholarships, Department of Postgraduate Studies and Department of Research and Publication. Units comprise Internal Audit Unit, Legal Services Unit, Procurement Management Unit, Public Relation and Communication Unit, Transport Unit, Registry Unit, Security Unit, MUST Radio.

TEACHING AND LEARNING

Among the tripartite functions of the University i.e. teaching, research and consultancy, teaching stands out to be the most prominent. It is for this reason that most of the University financial and human resources are strategically deployed to facilitate teaching and learning. The aim has been and will always be to create the most conducive environment to support delivery of quality education that surpasses stakeholders' expectations.

In the endeavour to achieve this noble goal, the University has continued to develop market-driven academic programmes by engaging key stakeholders in the process of curricula development. Moreover, the University recognizes that well articulated tools and instruments play a vital role in enhancing monitoring and evaluation of teaching and learning. Thus, the University has passionately continued to review and develop new policies, guidelines and regulations for that purpose. Furthermore, the University has embarked on capacity building of academic members of staff to sharpen their professional ability to engage students in fruitful learning process through pedagogical skills training and the use of technology in teaching and learning.

Coupled with the above initiatives, the University has constantly recognized the need to improve physical infrastructure that directly or indirectly support teaching and learning.

The following sections highlight the teaching and learning activities during the reporting period.

ACADEMIC PROGRAMMES OFFERED

During the reporting period, MUST transformed the academic environment by restructuring colleges and departments so as to conform to the University organizational structure. The School of Humanities and Business Studies (SoHBS) was upgraded to the College of Humanities and Business Studies (CoHBS). Moreover, College of Information Communication Technology (CoICT) and College of Architecture and Construction Technology (CoACT)

were established. At the College of Science and Technical Education (CoSTE), two departments were added.

It is worth noting that the transformation, coupled with deliberate effort to develop more curricula, has resulted in an increase in the number of programmes offered as summarized in Table 1. In particular, the number of academic programmes has increased from 21 in 2018/2019 to 30, which is a 30% increase. More significant is the increase in Bachelor programmes from 6 (for the past six years) to 10 which is equivalent to a 66.7% increase. Moreover, notable achievement is the offering of three (3) Postgraduate programmes for the first time in the history of the University. Academic programmes offered at each College and Department are detailed in subsequent tables.

Table 1: Number of academic programmes offered for the past eight years

YEAR/ LEVEL	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
DIPLOMA	8	11	13	13	14	14	15	17
BACHELOR	5	6	6	6	6	6	6	10
POSTGRADUATE	-	-	-	-	-	-	-	3
TOTAL	13	17	19	19	20	20	21	30

COLLEGE OF ARCHITECTURE AND CONSTRUCTION TECHNOLOGY

The College of Architecture and Construction Technology (CoACT) was established to offer academic programmes, provide expert professional services and conduct research in the areas of settlement planning and development, and art design and construction technology. Currently, the College has two departments namely, Department of Architecture and Art Design (DoAAD) and Department of Construction Management and Technology (DoCMT). During the reporting period, the College was offering two (2) academic programmes as shown in Table 2. Moreover, two (2) curricula were submitted to Tanzania Commission for Universities (TCU) for

validation and accreditation. These are Master of Technology in Architecture and Building Performance and Master of Science in Construction Technology. The programmes would be offered starting from 2020/2021 academic year if approved by TCU, thus making the number of programmes to increase to four (4).

Table 2: Programmes offered at the College of Architecture and Construction Technology in 2019/2020

S/N	DEPARTMENT	PROGRAMME
1.	Architecture and Art Design	1. Bachelor of Technology in Architecture 2. Ordinary Diploma in Architecture

COLLEGE OF ENGINEERING AND TECHNOLOGY

The College of Engineering and Technology (CET) has continued to fulfill its core mandates which are to provide training, conduct research and offer expert professional services in the field of engineering and technology. The College is so far the largest in the University and is comprised of five departments and offers 11 academic programmes including two postgraduate programmes as shown in Table 3. Moreover, the College has developed new programmes which are expected to be offered starting in 2020/2021 academic year.

Table 3: Programmes offered at the College of Engineering and Technology in 2019/2020 by departments

S/N	DEPARTMENT	COURSE/PROGRAMME
1	Civil Engineering	1. PhD in Civil Engineering 2. Masters in Civil Engineering 3. Bachelor in Civil Engineering 4. Ordinary Diploma in Civil Engineering 5. Ordinary Diploma in Highway Engineering
2	Mechanical and Industrial Engineering	1. Bachelor of Mechanical Engineering 2. Ordinary Diploma in Mechanical Engineering, 3. Ordinary Diploma in Mechatronics Engineering

S/N	DEPARTMENT	COURSE/PROGRAMME
3	Electrical and Power Engineering	1. Bachelor of Electrical and Electronics Engineering 2. Ordinary Diploma in Electrical and Electronics Engineering
4	Geosciences and Mining Technology	Diploma in Mining Engineering

COLLEGE OF HUMANITIES AND BUSINESS STUDIES

The College of Humanities and Business Studies (CoHBS) is a result of the transformation of the former School of Humanities and Business Studies (SoHBS). The College is tasked to provide programmes, expert professional services and perform research tied up with current technology enriched with humanities and business studies to scientists and engineers. During the reporting period, the College had two departments i.e. Department of Business Management (DoBM) and Department of Humanities (DoH). The College offers two academic programmes in Business Administration (Table 4) with four specializations i.e. Accounting and Finance, Human Resource Management, Marketing and Entrepreneurship and Procurement and Supply Chain Management. Curricula for the programmes to be offered in the Department of Humanities are still under development.

Table 4: Programmes offered at the College of Humanities and Business Studies in 2019/2020

S/N.	DEPARTMENT	COURSE/PROGRAMME
1.	Department of Business Management	1. Bachelor of Business Administration 2. Ordinary Diploma in Business Administration

COLLEGE OF INFORMATION AND COMMUNICATION TECHNOLOGY

The College of Information and Communication Technology (CoICT) was established in recognition of the fact that computing and allied technologies have become ubiquitous, touching all aspects of human lives. The College is therefore aimed at strengthening provision of academic services in the field of ICT while providing expert professional services and carryout research.

During the reporting period, the College offered five (5) academic programmes hosted in three departments as shown in Table 5.

Table 5: Programmes offered at the College of Information and Communication Technology in 2019/2020 by departments

S/N.	DEPARTMENT	PROGRAMME
1.	Computer Science and Engineering	1. Bachelor of Computer Engineering 2. Ordinary Diploma in Computer Science 3. Ordinary Diploma in Computer Engineering
2.	Information Technology Systems	Ordinary Diploma of Information and Communication Technology
3.	Electronics and Telecommunications Engineering	Ordinary Diploma in Electronics and Telecommunication Engineering

COLLEGE OF SCIENCE AND TECHNICAL EDUCATION

The College of Science and Technical Education (CoSTE) provides training, conducts research and provides expert professional services in the field of science and technical education. During the reporting period, the College was comprised of four (4) departments and offered six (6) academic programmes as depicted in Table 6.

Table 6: Programmes offered at the College of Science and Technical Education in 2019/2020 by departments

S/N	DEPARTMENT	PROGRAMME
1.	Applied Sciences	Ordinary Diploma in Food Science and Technology
2	Medical Sciences and Technology	Ordinary Diploma in Biomedical Equipment Engineering
3	Natural Sciences	1. Bachelor of Laboratory Science and Technology 2. Bachelor of Science with Education 3. Ordinary Diploma in Laboratory Science and Technology
4	Technical Education	Postgraduate Diploma in Technical Education

MUST RUKWA CAMPUS COLLEGE

MUST Rukwa Campus College (MRCC), located in Rukwa Region, 47km from Sumbawanga, commenced its operations in this Financial Year (2019/2020). It was established to offer academic programmes that are strategic for fostering rural economic development and fuelling industrial economy, creating jobs and improving livelihood particularly in rural

settings. The College aims at offering academic programmes that have direct influence in rural settings. During the reporting period, the College had two (2) departments and offered two (2) academic programmes as shown in Table 7.

Table 7: Programmes offered at MUST Rukwa Campus College in 2019/2020 by departments

S/N	DEPARTMENT	PROGRAMME
1.	Business Management	1. Bachelor of Business Administration 2. Ordinary Diploma in Business Administration
2	Mechanical and Industrial Engineering	1. Bachelor of Mechanical Engineering 2. Ordinary Diploma in Business Administration

SHORT COURSES OFFERED

The University has continued to design, organize and offer short courses that are tailored to meet the emerging demands of labour market. During the reporting period, the University through the Department of Continuing Education under the Centre for Virtual and Continuing Education, managed to offer 21 short courses (Table 8):

Table 8: Short courses offered in 2019/2020

MONTH	SHORT COURSE	NO. OF PARTICIPANTS
July 2019	Fundamental of AutoCAD and Solid Work	2
August 2019	1. Website Designing and Hosting	1
	2. Labour-based Technology	48
	3. Automotive Electrical and Electronics	7
	4. Industrial Safety and Occupational Health	1
	5. Intensive Special Pedagogical Course for Technical Educators	35
September 2019	Introduction to Computer Application	2

October 2019	Intensive Special Pedagogical Course group II	29
November, 2019	Moodle Training	52
	1. Trouble Shooting and Maintenance of Refrigeration and Air Conditioning Systems	12
	2. Office Automation	204
	3. Labour Based Technology	45
December, 2019	1. Maintenance Planning and Scheduling	2
	2. Measurements and Troubleshooting of Electronics Devices and Circuits	1
January, 2020	1. Computer Maintenance and Repair	1
	2. VIP Driving	5
	3. Project Management	3
March, 2020	1. Routine Maintenance and Inspection for Drivers	2
	2. Introduction to Computer Applications	33
	3. Labour-based Technology	32
June, 2020	Labour-based Technology	58

CURRICULUM REVIEW AND DEVELOPMENT

The University's strategy is to continue improving programmes offered through curriculum development and reviews so as to make them more relevant and aligned to the current societal needs and labour market demand. The year under review witnessed a phenomenon achievement in curricula review and development, where all 21 programmes were reviewed to improve content and relevance. Moreover, all 15 Diploma programmes were reviewed to comply with TCU requirements and standards. Furthermore, 39 new programmes were developed including 14 postgraduate programmes. All programmes were submitted to TCU for

validation and accreditation. Table 9 summarizes the revised and developed programmes during the year under review.

Table 9: Revised and new academic programmes curricula in 2019/2020

COLLEGE	PROGRAMME	STATUS
CET	Doctor of Philosophy (PhD) in Mechanical Engineering	New
	Master of Science in Energy Engineering	New
	Master of Engineering in Renewable Energy	New
	Master of Science in Mechanical Engineering	New
	Master of Science in Water Resources Engineering	New
	Bachelor of Mining Engineering	New
	Diploma in Automotive and Auto-electrical Engineering	New
	Bachelor of Mechanical Engineering	Review
	Bachelor of Civil Engineering	Review
	Bachelor of Electrical and Electronics Engineering	Review
	Diploma in Civil Engineering	Review
	Diploma in Highway Engineering	Review
	Diploma in Electrical and Electronics Engineering	Review
	Diploma in Mining Engineering	review
	Diploma in Mechanical Engineering	Review
	Diploma in Mechatronics Engineering	Review
Diploma in Mechanical Engineering with Industrial Safety and Occupational Health	Review	
CoHBS	PhD in Business Economics	New
	Master of Science in Economics	New
	Bachelor of Project Planning and Management with Technology	New
	Bachelor of Agribusiness with Technology	New
	Bachelor of Linguistics and Communication Technology for People with Special Needs	new
	Diploma in Business Administration Accounting and Finance	New
	Diploma in Business Administration Marketing and Entrepreneurship	New
	Diploma of Agribusiness with Technology	New
	Diploma in Business Administration	Review
	Certificate in Business Administration	Review
CoSTE	Master of Science in Applied Mathematics	New
	Master of Science in Biodiversity	New
	Master of Science in Statistics	New
	Bachelor of Technical Education in Civil Engineering	New
	Bachelor of Technical Education in Mechanical Engineering	New

COLLEGE	PROGRAMME	STATUS
	Bachelor of Technical Education Electrical and Electronics Engineering	New
	Bachelor of Technical Education in Architectural Technology	New
	Bachelor of Science in Natural Resources Conservation	
	Bachelor of Science in Statistics	New
	Diploma of Technical Education in Mechanical Engineering	New
	Diploma of Technical Education in Civil Engineering	New
	Diploma of Technical Education Electrical and Electronics Engineering	New
	Diploma of Technical Education Architectural Technology	New
	Bachelor of Science in Food Science and Technology	Review
	Diploma in Laboratory Science and Technology	Review
CoICT	PhD in Information Science and Engineering	New
	Master of Science in Information Technology	New
	Bachelor of Engineering in Data Science	New
	Bachelor of Information and Communication Technology	New
	Bachelor of Computer Science	New
	Bachelor of Engineering in Telecommunication Systems	New
	Diploma in Business Computing	New
	Bachelor of Computer Engineering	Review
	Diploma in Computer Science	review
	Diploma in Computer Engineering	review
	Diploma in Electronics and Telecommunication Engineering	Review
Diploma of Information and Communication Technology	review	
CoACT	Master of Construction Management and Technology	New
	Master of Science in Building Performance and Technology	New
	Bachelor of Quantity Surveying and Technology	New
	Bachelor of Technology in Landscape Architecture	New
	Bachelor of Technology in Architecture	Review
	Diploma in Architecture	Review

STUDENT ENROLMENT

In the Financial Year 2019/2020, 5,678 students were registered in Ordinary Diploma, Bachelor and Postgraduate programmes. The increase in enrolment, which was equivalent to 22.6% compared to 4,630 students

admitted in the 2018/2019 academic year, is attributed to the corresponding 30% increase in the number of academic programmes. The student enrolment trend for the past six (6) years is depicted in Figure 1.



Figure 1: Enrolment of students in undergraduate (Ordinary Diploma and Bachelor) programmes in the past six years

ENROLMENT IN ORDINARY DIPLOMA PROGRAMMES

During the year under review (2019/2020), 2,675 diploma students were enrolled in various Diploma programmes. As compared to the previous year (2018/2019), whose enrolment was 2,225 students, the enrolment increased by 20.2% as shown in Table 10 and Figure 2. Though the proportion of female students continued to be a challenge, there was a slight increase from 22% to 25% of enrolled Diploma students in 2018/2019 and 2019/2020, respectively.

ENROLMENT IN BACHELOR PROGRAMMES

MUST Bachelor student population continued to grow during 2019/2020, where 2,988 students were enrolled. This is equivalent to a 24.2% increase compared to previous year's enrolment of 2,405 Bachelor students. Out of all enrolled students, 2,457 (82.2%) were male and 531 (17.8%) were female. As was expected in the 2018/2019 Report, the enrolment of Bachelor students increased following establishment of new programmes. It should be noted that the proportion of female Bachelor students has not improved in comparison with that of 2018/2019 year. Table 11 and Figure 3 show the trend of the enrolment for the past six (6) years.

ENROLMENT IN POSTGRADUATE PROGRAMMES

During the reporting period, the University started offering three (3) Postgraduate programmes i.e. Postgraduate Diploma in Technical Education, Master of Science in Civil Engineering and Doctor of Philosophy in Civil Engineering, and 15 students were enrolled as indicated in Table 12.

Table 10: Enrolment of students in Ordinary Diploma programmes for the past six years

YEAR/LEVEL	NTA 4			NTA 5			NTA 6			TOTAL		
	F	M	T	F	M	T	F	M	T	F	M	T
2014/2015	84	381	465	187	463	650	192	563	755	463	1407	1870
2015/2016	86	354	440	82	347	429	197	459	656	365	1160	1525
2016/2017	170	676	846	75	313	388	88	322	410	333	1311	1644
2017/2018	151	681	832	124	483	607	69	251	320	344	1415	1759
2018/2019	243	834	1077	152	507	664	118	371	484	513	1712	2225
2019/2020	311	982	1293	192	526	718	172	492	664	675	2000	2675

Table 11: Enrolment of students in Bachelor programmes for the past six years

YEAR/LEVEL	UQF6			UQF7A			UQF7B			UQF8			TOTAL		
	F	M	T	F	M	T	F	M	T	F	M	T	F	M	T
2014/15	40	322	362	64	446	510	40	314	354	20	207	227	164	1289	1453
2015/16	48	486	534	112	717	829	60	449	509	38	308	346	258	1960	2218
2016/17	39	316	355	106	672	778	103	622	725	58	480	233	306	2032	2338
2017/18	34	292	326	128	600	728	104	608	712	99	594	693	365	2094	2459
2018/19	67	469	536	86	459	545	123	522	645	98	581	679	374	2031	2405
2019/20	94	540	634	221	905	1126	85	470	555	131	542	673	531	2457	2988

Table 12: Enrolment of postgraduate students in 2019/2020

S/N	PROGRAMME	F	M	Total
1	Postgraduate Diploma in Technical Education	0	2	2
2	Master of Science in Civil Engineering	1	6	7
3	Doctor of Philosophy in Civil Engineering	0	6	6
Total		1	14	15



Figure 2: Enrolment of students in Ordinary Diploma programmes for the past six years.



Figure 3: Enrolment of students in undergraduate degree programmes in the past six years

STUDENT OUTPUT

At the 7th MUST Graduation Ceremony which was held on 14th December 2019, 446 students were awarded Ordinary Diplomas and 671 students were conferred Bachelor Degrees making a total of 1,117 graduates. It should be noted that during the 6th Graduation Ceremony, 916 students graduated (276 in Ordinary Diploma and 640 in Bachelor Degree). There was therefore an increase of 21.9% in the total number of graduates and corresponding increase of 61.5% and 4.8% in Diploma and Bachelor graduates, respectively. Table 13 and Figures 4 and 5 show the trend of number of graduates for the past eight (8) years. A sharp increase in the number of Diploma graduates is attributed to the increase in the enrolment of new

students from 440 in 2015/2016 to 846 in 2016/2017, which was equivalent to 92.3% increase.

Table 13: Undergraduate students conferred Ordinary Diploma and Degree awards for the past six years

YEAR	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
FEMALE	60	127	143	143	83	56	106
MALE	263	602	465	338	237	220	340
TOTAL	323	729	608	481	320	276	446

Table 14: Undergraduate Students Conferred Ordinary Diploma and Degree Awards for the Past Six Years

YEAR	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
FEMALE	14	30	20	34	55	99	96
MALE	148	222	200	283	406	541	575
TOTAL	162	252	220	317	461	640	671

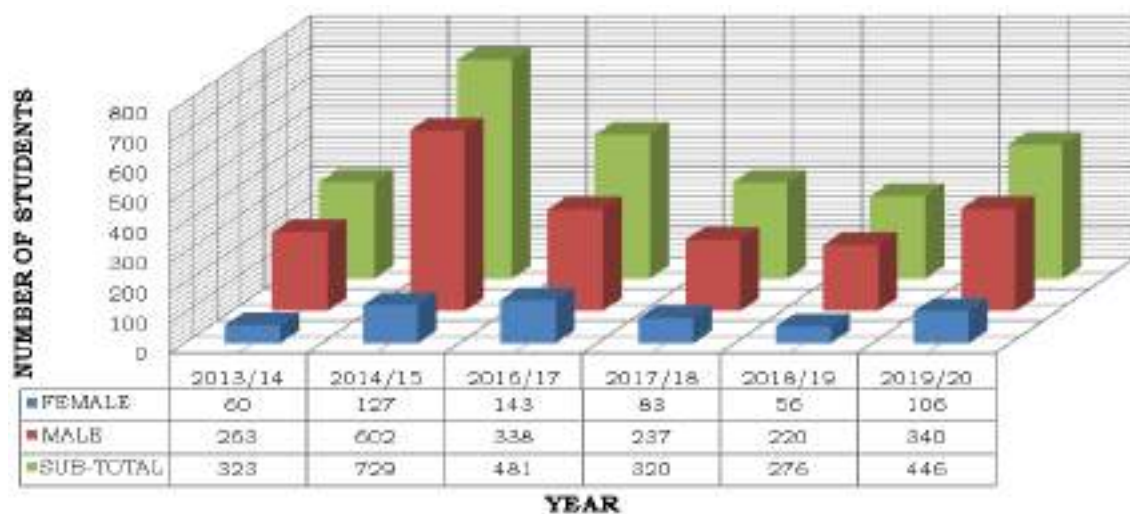


Figure 4: Number of MUST students awarded Ordinary Diploma in the past six years

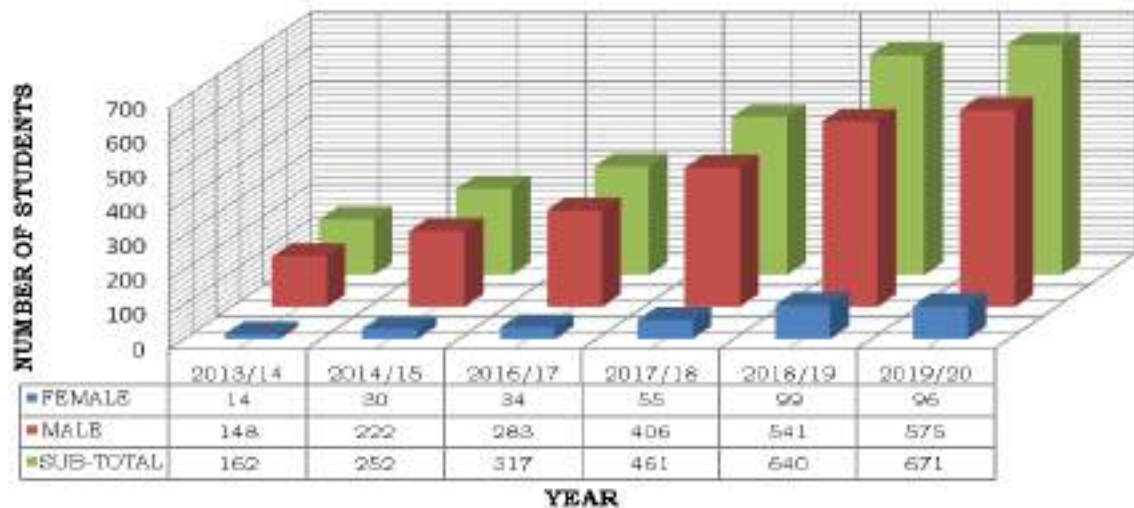


Figure 5: Number of MUST students awarded Degrees in various undergraduate programmes in the past six years



Figure 6: A section of graduands being conferred their Undergraduate Degrees (left) by the MUST Chancellor Hon. Pius Msekwa (right), during the 6th Graduation Ceremony held on 14th December, 2019

STUDENT-TO-ACADEMIC STAFF RATIO

TCU has set a standard staff-to-student ratio to be observed for different academic programmes to ensure provision of quality university education. The ratio is an indication of the teaching load of the staff which may impact on quality of teaching and learning. It further measures the level of utilization of the academic human resource at the University.

The ideal staff-to-student ratio specified by TCU for engineering, science and technology programmes for conventional mode of delivery ranges from 1:25 to 1:30. During the reporting period, the staff-to-student ratio has continued to deteriorate to 1:17 from 1:14 observed in 2018/2019 (Table 15 and Figure

7). Though the ratio is within the TCU standards, the need for the University to recruit more academic staff as student enrolment increases is inevitable.

Table 15: Student-to-Academic Staff Ratio Trend for the Past Seven Years

YEAR	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
Students	3,442	3,343	3,743	3,982	4,218	4,630	5,738
Academic Staff	178	264	331	336	318	321	342
Staff-to-Student Ratio	1:19	1:13	1:11	1:12	1:13	1:14	1:17



Figure 7: Student-to-staff ratio trend for the past seven years

PRACTICAL TRAINING

The University emphasizes the need to produce graduates who have hands-on skills that are relevant to the labour market. Therefore, students are required to participate in industrial practical training through field attachments in each year of study. In the year 2019/2020, all students eligible to go for Industrial Practical Training (IPT), Field Practical Training (FPT) and Teaching Practice (TP) secured placements in various industries, sites, consultancy firms and Institutions. Moreover, the University provided practical training placements to students who were attached to construction and consultancy projects under MCB Company Limited.

CONSULTANCY AND OUTREACH SERVICES

The University recognizes the importance of forging vibrant relationship with institutions, companies and regulatory boards for professional development of staff and students. Thus, during this reporting period, the University continued to offer professional services by supervising projects and providing consultancies in the construction industry through MIST Engineering Contractors Limited (MISTECO) and MUST Consultancy Bureau (MCB). Furthermore, MISTECO and MCB have continued to complement the University's efforts in achieving its core functions. In addition, they have provided opportunities for students to conduct field practical training and staff internships to facilitate their recognition by the regulatory boards and councils such as Engineers Registration Board (ERB), Architects and Quantity Surveyors Registration Board (AQRB), Contractors Registration Board (CRB), National Environmental Management Council (NEMC) and National Construction Council (NCC).

In order to improve operational efficiency, the two entities i.e. MISTECO and MCB were merged to form MCB Company Ltd incorporated under the Company Act 2002, CAP 212, and registered with Business Registration and Licensing Agency (BRELA) on 23rd June 2020. The MCB Company Ltd has two departments i.e. Department of Construction Services and Department of Commercial Consultancy.

CONSULTANCY PROJECTS

In the year 2019/2020, 35 consultancy projects worth TZS 8,154,724,030 were being carried out by the University and were at various stages of implementation. A total of TZS 4,056,839,231 (49.7%) was received from clients and the remaining amount i.e. TZS 4,097,884,799 (50.3%) was yet to be collected (Table 16).

Out of the 35, six (6) major consultancy projects, which mainly fell into the categories of design of buildings and roads, geotechnical investigation and material testing, supervision of construction of buildings and roads, were secured. Total contract consultancy fee of new projects amounted to TZS

644,750,751 whereby as of 30th June, 2020, TZS 54,262,480 (8.4%) was collected and TZS 590,488,271 (91.6%) was yet to be collected from clients.

CONSTRUCTION PROJECTS

Moreover, nine (9) construction projects, in which the University was engaged as a contractor, were also secured. The contractual sum of all construction projects amounted to TZS 4,717,060,024 whereby as of 30th June 2020, TZS 2,663,347,188 (56.4%) was received and TZS 2,053,712,836 (43.6%) was yet to be collected from clients (Table 17). Moreover, by 30th June, 2020, four (4) new construction projects were won, and contracts signed with clients, though implementation was yet to start (Table 18).

Table 16: Consultancy Projects Carried Out During 2019/2020 Year

S/N	PROJECT DESCRIPTION	CLIENT	START AND FINISH TIME	TOTAL CONSULTANCY FEE	COLLECTIONS BY 30 th JUNE 2020	OUTSTANDING FEE
1	Consultancy Services for Design and Construction Supervision of MUST Students Hostel at Main Campus	Vice Chancellor MUST	Sep. 2019 to Oct. 2020	120,000,000	0	120,000,000
2	Consultancy Services for Supervision of Mbeya Regional Commissioner's Administration Block	RAS-Mbeya	28 th May, 2020 to 26 th Aug., 2022	287,572,601	0	287,572,601
3	Consultancy Services for Rehabilitation of TEA office building located at Mikocheni B plot No. 711/1	Director General TEA	27 th Apr., 2020 to Apr., 2021	51,500,000	0	51,500,000
4	Consultancy Services for Rehabilitation and extension of four primary schools (Medeli, Kisasa, Kizota and Mlimwa C) in Dodoma	Director General TEA	27 th Apr., 2020 to Apr., 2021	94,900,000	0	94,900,000
5	Construction of Lecture Theatres at the Institute of Rural Development Planning Lake Zone Centre	IRD P	10 th Mar., 2020 to 9 th Jan., 2021	60,859,450	24,343,780	36,515,670.40
6	Geo Technical Investigation & Material Testing	CheonKwang Engineering	Apr., 2020 To Jun., 2020	9,156,800	9,156,800	0
TOTAL				623,988,851	33,500.580	590,488,271

Table 17: Construction Projects Carried Out During 2019/2020

S/N	PROJECT DESCRIPTION	CLIENT	PROJECT DURATION	CONTRACT SUM (TZS)	COLLECTIONS (TZS)	BALANCE (TZS)
1	Ujenzi wa Jengo la Wagonjwa wa Nje (Outpatient Department - OPD) katika Hospitali ya Halmashauri ya Wilaya ya Ileje – Mkoa wa Songwe	Ileje District Council	8 th Sep., 2019 to 8 th Dec., 2019	140,000,000	20,517,000	119,483,000
2	The Proposed Construction of the Health Facilities at Njombe Region	Permanent Secretary, Ministry of Health, Community Development, Gender, Elderly and Children	17 th Jul., 2019 to 16 th May, 2020	2,489,532,926	1,748,431,090.6	741,101,835
3	Proposed Construction of the Health Facilities at Songwe Region	Permanent Secretary, Ministry of Health, Community Development, Gender, Elderly and Children	23 rd Jul., 2019 to 22 nd May, 2020	728,072,752	291,229,100	436,843,652
4	Proposed Construction of Mother and Child Health Building at Mwananyamala Regional Referral Hospital in DSM	Permanent Secretary Ministry of Health, Community Development, Gender, Elderly and Children	29 th Jul., 2019 to 28 th May, 2020	354,110,875	195,187,097.61	158,923,777
5	Proposed Construction of Field Visitors (FVC) Center for STAWISTA at NaneNane – Uyole – Mbeya City	STAWISHA	25 th Nov. 2019 to 25 th Feb., 2020	357,185,214	269,583,267.44	87,601,947
6	Proposed Fit-Out Works for Workers Compensation Fund (WCF) - Regional Office Mbeya	Workers Compensation Fund (WCF)	2 nd Dec., 2019 to 2 nd Jan., 2020	87,641,201	77,540,181.49	10,101,020
7	Proposed Construction of Two Lecture Theatres for The Institute of Rural Development Planning Lake Zone Centre - Mwanza	Rector – Institute of Rural Development College - Dodoma	1 st Mar., 2020 to 31 st Dec., 2020	304,297,252	60,859,450.44	243,437,802
8	Office Partitioning for Workers Compensation Fund (WCF) - Dodoma	Director General, Workers Compensation Fund (WCF) - DSM	29 th Jun., 2020 to 29 th Jul., 2020	154,158,654	-	154,158,654
9	Office Partitioning For Workers Compensation Fund (WCF) - Morogoro	Director General, Workers Compensation Fund (WCF) - DSM	29 th Jun., 2020 to 29 th Jul., 2020	102,061,150	-	102,061,150
TOTAL				4,717,060,024	2,663,347,188	2,053,712,836

Table 18: Construction projects expected to start in 2020/2021 Financial Year

S/N	PROJECT	CONTRACT SUM (TZS)
1	Provision of Labour for Proposed Contraction of Blood Centres at Selected Region Referral Hospitals in Tanzania (Rukwa, Manyara, Tanga and Kigoma)	1,108,321,379
2	Provision of Labour for Proposed Construction of Blood Centres at Njombe Region Referral Hospitals – Njombe	228,237,016
3	Proposed Construction of EMD, OPD and Surgical Ward for Tumbi Regional Referral Hospital in Pwani Region	1,129,791,414
4	Proposed Construction of the OPD Complex with Diagnostic, EMD and ICU Services for Mount Meru Regional Referral Hospital in Arusha.	4,048,821,973
TOTAL		6,515,171,783



Figure 8: Part of the Njombe Referral Hospital Project buildings; MCB Co. Ltd is the Project Contractor

OUTREACH SERVICES

In the reporting period, the University was involved in a range of activities in its endeavour to enhance its services to the public. The University through the Centre for Innovation and Technology Transfer (CITT) held its first Innovation Week in 2020. The Innovation Week 2020 was sponsored by the

Human Development Innovation Fund (HDIF) and the Commission for Science and Technology (COSTECH) with support from UKaid. The Innovation Week 2020 themed “*Innovate for Impact*” was inaugurated by Prof. Justinian Anatory, the Deputy Vice-Chancellor Planning, Finance and Administration at MUST.

Mbeya University of Science and Technology also participated in the 2020 Agricultural Exhibitions (NaneNane) and emerged the third winner in the category of Colleges and Universities. The week-long Agricultural Exhibitions themed, “*For agricultural development, livestock and fisheries choose the best leaders 2020*” brought together farmers and other agriculture stakeholders, Universities and Research Institutes to showcase products, technologies and ideas in the agricultural sector. The ideas and projects showcased by MUST included a number of technologies incubated by CITT and projects carried out by the University’s MCB Company Limited. The opening ceremony was officiated by Hon. John Palingo, the District Commissioner of Mbozi District whereas Hon. Dr. Tulia Ackson the Deputy Speaker of the National Assembly of Tanzania presided over the official closing ceremony on 8th August 2020.

The University also participated in other exhibitions in the same reporting period. These included *Mashindano ya Kitaifa ya Sayansi Teknolojia na Ubunifu* (MAKISATU), Dar es Salaam International Trade Fair (Sabasaba Exhibitions) and TCU Exhibition.



Figure 9: The Vice Chancellor Prof. Aloys Mvuma (left) listening to MUST student explaining the technology he had innovated at the Nanenane Exhibition held at the John Mwakangale grounds in Mbeya. Deputy Permanent Secretary – MoEST, Dr. Avemaria Semakafu, keenly following a presentation from MUST innovator, Mr. Seuri Kilakoi, during the MAKISATU 2019 (right)

RESEARCH AND PUBLICATIONS

The University, like any other Higher Learning Institution (HLI), is aware of the expectation of the society to create and disseminate knowledge through research and publications. Besides being one of its tripartite mandates, the University acknowledges the importance of research as among key criteria used to rank universities and determine its credibility. Recognizing the fact that University members of staff are predominantly junior thus not adept in conducting research, the University undertook several initiatives to curb this bottleneck which could otherwise hinder achieving the research goals.

PUBLICATIONS

During the year under review, academic staff were encouraged to publish their research findings in the MUST Journal of Research and Development (MJRD) which was established on 30th May, 2019. As of 30th June 2020, 15 papers were published in three (3) issues of the Journal and 23 papers were published in other journals and conference proceedings. Though much still need to be done, the numbers indicate a change in attitude among staff regarding research and publication.

GRADUATE PROGRAMMES

In an effort to increase the volume of research and publications, during the year 2019/2020, the University started offering research-based graduate programmes i.e. PhD in Civil Engineering and Master of Science in Civil Engineering and 11 (5 PhD and 6 MSc) students were enrolled. It is anticipated that more graduate programmes will be offered in the next year thus strengthening contribution of graduate students in the volume of research and publications.

RESEARCH SEMINARS

During the reporting period, 37 research seminars (84 presentations) were organized. In the seminars, academic staff were given opportunities to present their research results, proposals and progress reports to their peers. The aim was to stimulate academic discussions and debates thus enhancing research culture among staff.

RESEARCH GRANTS

As a means to foster research profile, the University established Internal Calls for Research Grants to members of academic staff from July 2019. The grant is offered on competitive basis and is intended to award TZS 50 million to five winners each of which will win a grant worth TZS 10 million. During the year under review, two (2) members of academic staff won the grant of three proposals. Moreover, MUST members of staff won two (2) joint research projects in collaboration with the Ministry of Agriculture Training Institute (MATI) – Uyole, Arusha Technical College and Hanze University of Applied Sciences of the Netherlands. The projects are funded by the Dutch Organisation for Internationalization in Education (NUFFIC).

RESEARCH PROJECTS

The number of research projects conducted at MUST has decreased from 20 in 2018/2019 to 14 in 2019/2020 which is equivalent to 30% decrease as shown in Table 19 and Figure 10. The decrease calls for the University to encourage and devise strategies that will enable academic members of staff to engage more actively in research by soliciting funds through writing fundable research proposals.

Table 19: The Number of Research Projects for the Past Eight Years

YEAR	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20
NO. OF RESEARCH PROJECTS	4	5	7	6	7	11	20	14

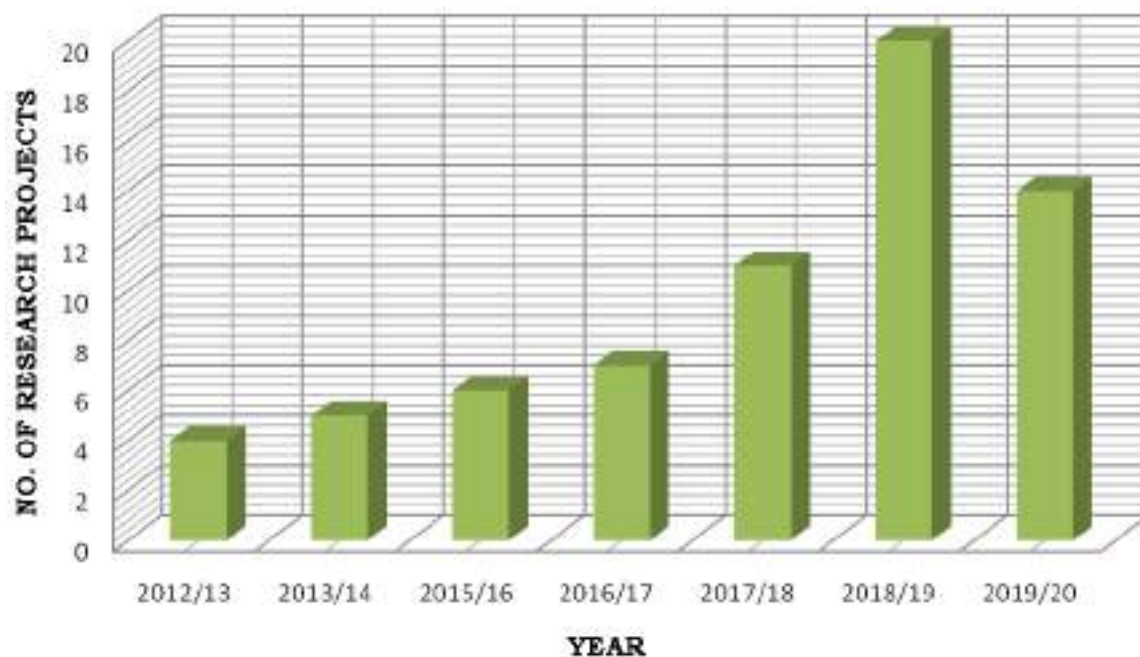


Figure 10: Trend of research projects for the past eight years

TREND OF PUBLICATIONS

MUST staff have been involved in publishing their research works in journals or conference proceedings. Though there is no significant change in number of publications in the last seven years, the University is still inculcating the culture of academic staff to publish. Moreover, the increase in number of publications from 46 to 60 in 2018/2019 and 2019/2020, respectively, which is equivalent to 30.4%, is worth noting. The trend of publications for the past few years is depicted in Table 20 and Figure 11.

Table 20: Number of Published Papers and Books in Seven Years

YEAR	NO. OF JOURNAL PAPERS	NO. OF CONFERENCE PAPERS	BOOKS	TOTAL
2012/13	4	23	0	27
2013/14	13	17	1	31
2014/15	30	10	0	40
2015/16	11	4	0	15
2016/17	31	4	1	36
2017/18	14	0	0	14
2018/19	37	9	0	46
2019/20	47	6	0	53
TOTAL	187	73	2	262

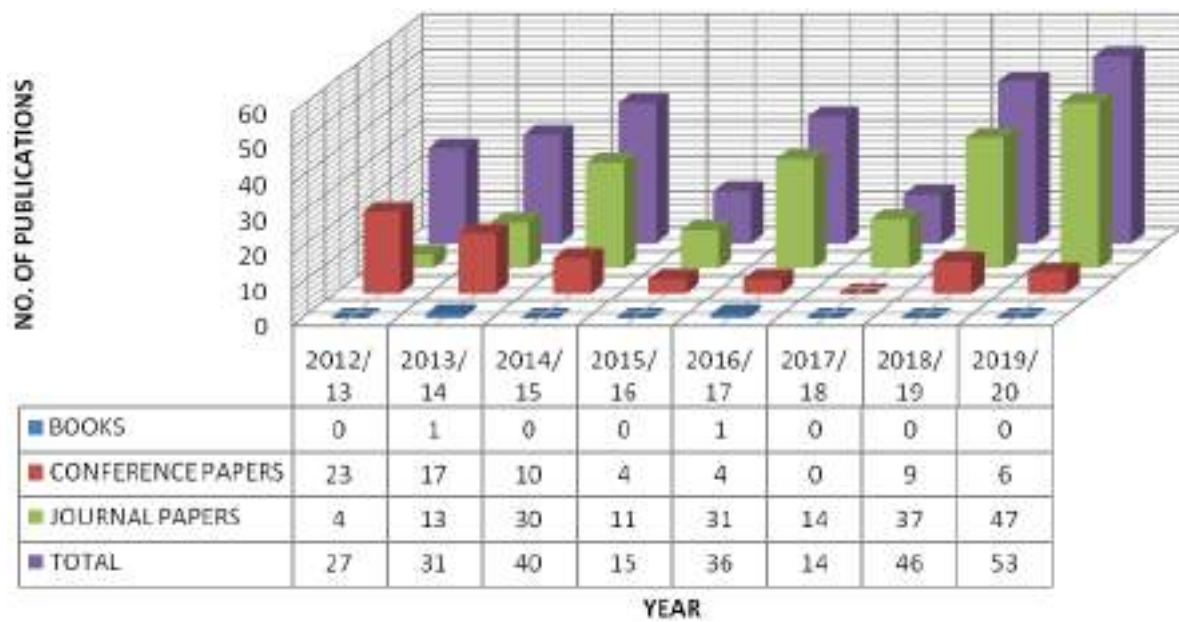


Figure 11: Number of published journal, conference papers and books for the past seven years

HUMAN RESOURCES

In the year 2019/20, the University had a total of 552 employees; among them, 419 were male and 133 were female. This number included 342 academic staff (including staff in the instructor and technician cadre) and 210 administrative staff. In general, the number of staff increased by 9.1% compared to 2018/2019 while academic staff increased by 6.9% and administrative staff increased by 13.5%. The increase in the number of staff is attributed to staff who were transferred to MUST from other institutions. As shown in Table 21 and Figure 12, academic staff profile is still dominated by junior staff. This observation suggests that concerted efforts are still needed to support staff to pursue graduate studies to PhD level.

Table 21: Academic Staff by Rank and Gender

Year	Prof.		Senior Lecturer		Lecturer		Assistant Lecturer		Tutorial Assistant		Instructor		Technician		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	T
2012/13	1	0	0	1	4	0	60	3	50	5	26	5	7	3	148	17	165
2013/14	3	0	2	1	5	0	62	3	60	7	23	5	4	3	159	19	178
2014/15	3	0	2	1	5	0	71	8	84	15	39	14	14	8	218	46	264
2015/16	3	0	4	1	10	1	115	14	87	11	55	12	17	1	291	40	331
2016/17	3	0	4	1	11	1	111	16	85	12	61	7	23	1	298	38	336
2017/18	2	0	3	1	9	1	119	16	73	10	52	7	24	1	282	36	318
2018/19	5	0	4	1	23	3	119	18	76	9	33	4	24	2	284	37	321
2019/20	5	0	4	1	26	4	144	21	60	10	37	8	20	2	296	46	342

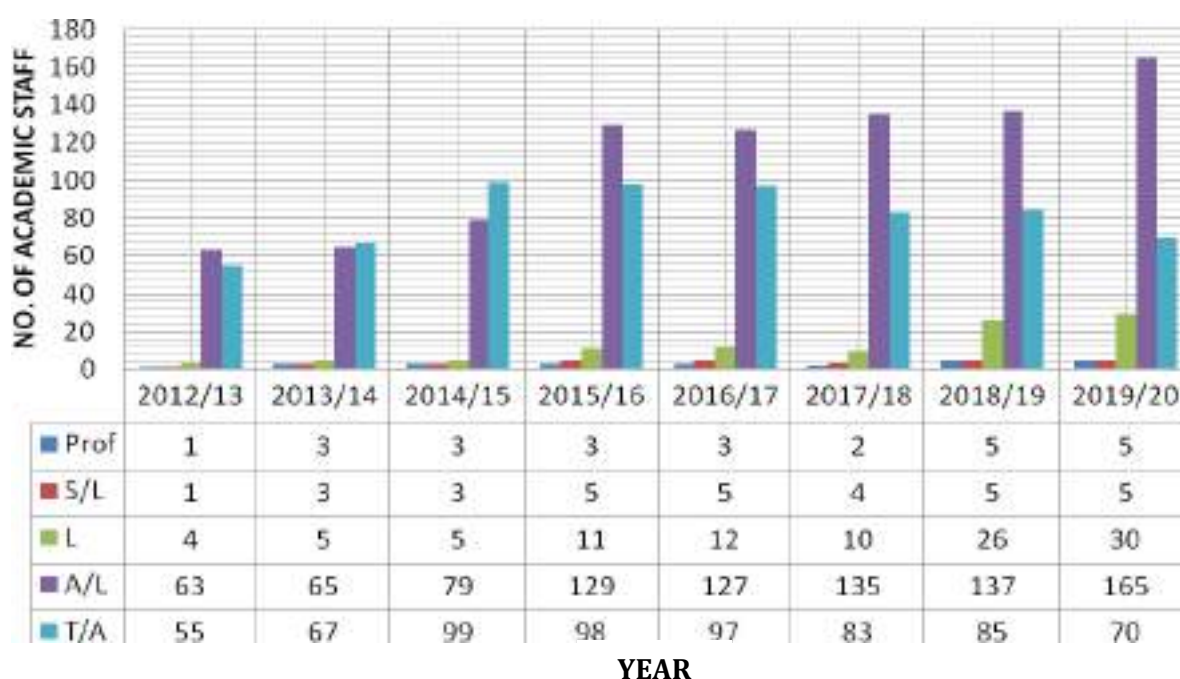


Figure 12: Academic staff by rank for the past eight years (S/L: Senior Lecturer, L: Lecturer, A/L: Assistant Lecturer, T/A: Tutorial Assistant)

Table 22: Administrative staff by qualification and gender

Year	PhD		Masters		Post Grad		Degree		A/Dip		O/Dip		Cert		Others		Total		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	T
2012/13	0	0	8	3	1	1	6	11	7	4	13	16	24	20	1	1	60	56	116
2013/14	0	0	9	4	2	2	9	12	7	4	11	12	26	20	2	1	66	55	121
2014/15	0	0	9	3	2	3	22	27	9	7	18	26	54	33	4	3	118	102	220
2015/16	0	0	11	8	0	0	30	26	5	3	14	18	52	34	0	0	112	89	201
2016/17	0	0	11	10	0	0	25	23	5	4	14	16	46	32	0	0	101	85	186
2017/18	0	0	8	6	0	0	32	18	5	6	25	24	25	20	15	3	110	77	187
2018/19	0	0	10	10	0	0	25	20	5	8	45	32	21	9	0	0	106	79	185
2019/20	0	0	16	17	0	0	33	31	4	6	46	31	15	8	1	2	115	95	210

STAFF DEVELOPMENT

The University continued to provide a conducive environment for members of staff to pursue further studies. During the reporting period (2019/2020), 103 members of staff were enrolled in higher learning institutions in various programmes to upgrade their academic qualifications as shown in Table 23. It is worth mentioning that three (3) academic members of staff were registered in MUST graduate programmes under the sponsorship of the University.

Table 23: Staff development in 2019/2020 Financial Year

S/N	LEVEL OF STUDY	MALE	FEMALE	TOTAL
1.	Diploma	4	-	4
2.	Bachelor	7	2	9
3.	Masters	21	9	30
4.	PhD	54	6	60
TOTAL		86	17	103

STAFF PROMOTION

During the reporting period, 29 members of academic staff were promoted to various ranks after acquired requisite qualifications as guided by public service guidelines (Table 24).

Table 24: Staff promotions in 2019/2020 Financial Year

S/N	QUARTERS	ADMINISTRATIVE STAFF	ACADEMIC STAFF	TOTAL
1.	1 st Quarter	0	13	13
2.	2 nd Quarter	0	3	3
3.	3 rd Quarter	0	12	12
4.	4 th Quarter	0	1	1
TOTAL		0	29	29

CONTRACT STAFF

During the reporting period a total number of 34 staff were employed on contract basis and assigned various duties and responsibilities so as to enable the University in achieving its objectives.

LABOUR TURNOVER

During the year under review, six (6) members of staff retired from Public Service after attaining compulsory retirement age of 60 years and one (1) staff passed away (Table 25).

Table 25: Labour turnover in 2019/2020 by reason

S/N	CATEGORY	RESIGNATION	RETIREMENT	DISCIPLINARY	DEATH	TOTAL
1	Administrative	0	1	0	1	2
2	Academic	0	5	0	0	5
	Total	0	6	5	1	7

APPOINTMENTS

During the reporting year (2019/20), the following appointments were made:

CHANCELLOR APPOINTEES

1. Prof. Osmund Kaunde, Principal – MUST Rukwa Campus College
2. Dr. John P. John, Principal – College of Science and Technical Education

COUNCIL APPOINTEES

1. Dr. Lulu C. Lufenge, Director of Quality Assurance
2. Dr. Asheri Mwidege, Director of Postgraduate Studies, Research and Publications
3. Dr. Idas Kiondo, Director of Undergraduate Studies

VICE CHANCELLOR APPOINTEES

Heads of Department

College of Architecture and Construction Technology

1. Ms. Rosemary Kavishe Department of Architecture and Art Design

- | | | |
|----|-----------------------|--|
| 2. | Dr. Gislar E. Kifanyi | Department of Construction Management and Technology |
|----|-----------------------|--|

College of Engineering and Technology

- | | | |
|----|-----------------------------|---|
| 1. | Dr. Edmund I. Mutayoba | Department of Chemical Processing and Environmental Engineering |
| 2. | Dr. Mwajuma Lingwanda | Department of Civil Engineering |
| 3. | Mr. Sospeter I. Gabriel | Department of Electrical and Power Engineering |
| 4. | Mr. Oltingey Lindi | Department of Geosciences and Mining Technology |
| 5. | Mr. Wambura Mwiryenyi Mwita | Department of Mechanical and Industrial Engineering |

College of Science and Technical Education

- | | | |
|----|--------------------------|---|
| 1. | Dr. Zaharan Mgina | Department of Applied Sciences |
| 2. | Dr. Isack E. Kibona | Department of Mathematics and Statistics |
| 3. | Mr. Optatus S. Mwalongo | Department of Medical Sciences and Technology |
| 4. | Dr. Eliezer B. Mwakalapa | Department of Natural Sciences |
| 5. | Ms. Atida O. Mbingamno | Department of Technical Education |

College of Information and Communication Technology

- | | | |
|----|--------------------------|--|
| 1. | Mr. Mrindoko R. Nicholas | Department of Computer Science and Engineering |
| 2. | Mr. Emmanuel S. Mahenge | Department of Electronics and Telecommunications Engineering |
| 3. | Dr. Juma S. Ally | Department of Informatics |
| 4. | Mr. Stanley Leonard | Department of Information Technology Systems |

College of Humanities and Business Studies

- | | | |
|----|------------------------|-----------------------------------|
| 1. | Dr. Charles N. Raphael | Department of Humanities |
| 2. | Dr. Lazaro Kagata | Department of Business Management |

MUST Rukwa Campus College

- | | | |
|----|------------------------|--------------------------------------|
| 1. | Mr. Joram L. Ngilangwa | Department of Mechanical Engineering |
| 2. | Mr. Makebe E. Majogoro | Department of Business Management |

DIRECTORATES

- | | | |
|----|-----------------------------|--|
| 1. | Ms. Christer B. Ruguga | Department of Postgraduate Studies |
| 2. | Dr. Leoncia Henerico Kibani | Department of Research and Publication |

- | | | |
|----|----------------------------|---|
| 3. | Ms. Herieth J. Rogath | Department of Entrepreneurship and Business Management |
| 4. | Ms. Lilian Kawala | Department of Consultancy |
| 5. | Mr. Justin Mwakatobe | Department of Innovation and Incubation |
| 6. | Dr. Arthur Omari | Department of Industrial Labour Market and External Links |
| 7. | Mr. Vicent M. Kikohi | Department of Virtual Education |
| 8. | Ms. Albentina L. Mwakibete | Department of Quality Assurance |

Acting Positions

1. Dr. Alexander Mtawa, Acting Principal – College of Architecture and Construction Technology
2. Dr. Visent Kipene, Acting Principal – College of Humanities and Business Studies
3. Dr. Julius Rwakarambi, Acting Principal – College of Information and Communication Technology
4. Dr. Buberwa M. Tibesigwa, Acting Director of Public Services and External Links
5. Dr. Duncan Mwakipesile, Acting Director of Rural Technology Park
6. Dr. Juma A. Mpangule, Acting Director of Centre for Innovation and Technology Transfer
7. Mr. Shwaibu S. Shabani, Acting Director of Finance
8. Mr. Imani Mwalumbwe, Acting Director of Information and Communication Technology Services and Statistics
9. Mr. Deusdedit Sinda, Acting Chief Internal Auditor
10. Mr. Geoffrey Ngulla, Acting Head of Legal Services Unit

STAFF WELFARE

The welfare of MUST staff remains central to the University's growth strategy. During the year, the University made concerted efforts to improve staff welfare and working conditions.

Relationship between Management and Staff

The University has continued to enjoy good working relationship between the Management and Staff. Staff complaints were resolved mainly using consultative meetings that involved the Management, Trade Union and Staff through Workers' Council. In cementing this healthy work relationship, the University continued to provide a number of facilities for the purpose of improving the working environment and living standards of its staff. Such

facilities include medical services, sports facilities, employee training and development, housing facilities to 87 staff at the Main Campus and 47 staff at MUST Rukwa Campus College.

Staff Training

The University continued to support staff to pursue the long and short term training within Tanzania and abroad. On regular basis, the University conducted in-house tailored training and seminars. The University Management provided scholarship opportunities to staff to enrol in programmes offered at MUST in different disciplines at Masters and PhD level.

Health care services

The University through the National Health Insurance Fund (NHIF) continued to provide medical insurance services to all staff, spouses and up to four beneficiaries. The University also provided medical services to staff through its dispensaries at the Main Campus, MUST Rukwa Campus College and other hospitals.

Financial Assistance

The Management has established loan facility with favourable borrowing terms with the University's SACCOS and commercial banks. Staff loans are also available to all staff depending on the assessment made to the applicant and other circumstances.

Sports and Recreational activities

The University recognizes the importance of sports in promoting health and wellbeing of its staff and encourages participation in sports and games. During the reporting period, MUST participated in the *Shirikisho la Michezo la Mashirika ya Umma, Taasisi na Kampuni Binafsi Tanzania (SHIMUTA)* competitions, which took place in Mwanza from 28th November to 10th December 2019. The University continued to maintain supremacy in SHIMUTA tournaments by winning games in the following categories:

Athletics

- | | |
|-----------------------|--------------------------|
| 1. 200m (female) | - 1 st winner |
| 2. 800m (male) | - 1 st winner |
| 3. Sack race (female) | - 1 st Winner |

4. 1500m (male)

- 2nd runner up

Ball Games

1. Basketball (female team)

- 1st winner

2. Volleyball (female team)

- 2nd runner up

3. Volleyball (male team)

- 3rd winner

4. Netball (female team)

- 4th winner



Figure 13: (Left) Prof. Godliving Mtui (DVC-ARC) displaying trophies to celebrate the triumphant victory during SHIMUTA 2019/2020 in Mwanza. (Right) MUST Team celebrating the victory.

Workers Council

The 2nd MUST Workers Council was inaugurated on 13th September 2019 and marked the continuation of a healthy labour relations between the University Management, workers unions, and workers in general. The official launching was presided over by Prof. Aloys Mvuma, MUST Vice Chancellor (Figure 14) and was attended by Workers Council members.



Figure 14: MUST Workers Council members (Left) keenly following the speech delivered by Prof. Aloys Mvuma - Vice Chancellor (3rd left, left photo) during the inauguration ceremony of the 2nd MUST Workers Council.

STUDENTS MATTERS

STUDENTS GOVERNANCE

MUST Students Organization (MUSTSO) conducted Annual Elections on 10th July 2020 where Mr. Hilary Looken from Business Administration Department and Mr. Sixbert S. Sitta from Architecture and Construction Technology Department emerged winners. The two were confirmed President and Vice President of MUSTSO respectively after taking oaths on 14th July 2020 before the Commissioner of Oaths (Figure 15). Moreover, the election of MUSTSO Judiciary Chairperson and Deputy Chairperson was conducted on 13th July 2020 where Ms. Janeth E. Mboivoi from the Mechanical Engineering Department was elected the Chairperson and Mr. Jeladi N. Gula from the Department of Medical Science and Technology was elected the Deputy Chairperson. Furthermore, election of Speaker and Deputy Speaker was conducted on 18th July 2020 where Mr. Elias C. Rwegerera from the Electrical Engineering Department and Ms. Mrashi J. Said from the the Department of Medical Science and Technology were elected Speaker and Deputy Speaker, respectively.



Figure 15: Mr. Hilary Looken taking the Oath of Office before the Commissioner of Oaths after being elected MUSTSO President

The University has continued to involve students in decision-making process through their representatives in the MUST Council, Senate and other committees as stipulated in the University Charter. It recognizes the critical role played by student governance which is responsible for overseeing, coordinating, administering and supporting the University Student Representative Council (USRC). During the reporting period, MUSTO leaders were given leadership induction seminar for smooth running of the student government. Leaders were also equipped with knowledge and skills on financial matters so as to manage and use MUSTSO funds for the benefit of all. In addition to that, MUSTO representatives actively participated in Council, Senate and other University management committee and sub-committee meetings.

In 2019/2020 MUSTSO focused on Leadership development, capacity building to USRC representatives and students, USRC office improvement and USRC Elections. During the reporting period MUSTSO organized various seminars and workshops including:

1. Seminar to equip students with appropriate skills, techniques and knowledge on self-employment and how to discover their gifts and talents for maximizing their potentials;
2. Workshop to inspire and empower girls to participate in leadership activities, sports and other social issues through their abilities, talents, professions and resources around them; and
3. Workshop on agricultural opportunities for youth development in Mbeya Region. The aim was to enable young people to recognize and take action and build a sense of self-employment from these available opportunities.

STUDENT DEVELOPMENT

The Department of Student Welfare oversees issues related to the wellness, health, growth and development of students by involving various stakeholders in activities and programmes that are planned for students. During the year under review, the Department provided guidance and counselling to students experiencing personal, career developmental and

psychological problems as well as students' seminars coordination including orientation to new students and life skills and HIV/AIDS awareness seminars. The Department also facilitated student leaders' participation in various programmes such as 12th Africa Youth Leadership Forum hosted in Uganda, TAHLISO General Assembly, capacity building programme on power of innovation and personal development in Engineering life.

SPORTS AND GAMES

The University recognizes the need for investment in sports and games and to promote sports and games among students. It promotes the developmental role of sports which may enhance academic performance. The activities, achievements and challenges experienced in 2019/2020 included the organized participation of students in the following competitions; TUSA games held at Dodoma, Dream FM league, interuniversity friendly matches, in-campus soccer league and *Ujirani Mwema Bonanza*. The University witnessed excellent performance in high jump, long jump, athletics tennis and netball.

DEVELOPMENT PROJECTS

CONSTRUCTION OF NEW LIBRARY BUILDING

During the reporting period, Construction of Library Block Phase I project, which commenced on 6th September 2012, came to its completion at a total cost amounting to TZS 3,373,632,331.07. Completion of the project is attributed to the generosity of H.E. Dr. John Pombe , the 5th Phase President of URT who pledged to provide funds amounting to TZS 2.9 Billion from the Government for the project when he laid the Foundation Stone during his visit at the University on 3rd May 2019. Subsequently, the Library building was handed over to the University by the Contractor (Tanzania Buildings Agency (TBA)) in May 2020 and is being used for provision of library services to students and staff since then. However, some of the rooms are being used for facilitation of lectures and seminars to cater for the large number of enrolled students which has already surpassed the capacity of the available teaching and learning infrastructure.

Construction of the Library Block Phase II was expected to start in the next Financial Year (2020/2021).



Figure 16: New MUST Library Building as of June 2020 after Completion of Phase I of its construction

CONSTRUCTION OF STUDENTS HOSTELS

In 2019/2020, the University made remarkable progress in the construction of Students Hostel Blocks. The Hostel Blocks will have the capacity to accommodate up to 1000 students when completed. The Government disbursed TZS 2.055 Billion on 19th August 2019, which was the first installment of TZS 5 Billion pledged by the Government to finance the project on 3rd May, 2019. The project aims at addressing the acute shortage of accommodation space facing students by expanding the in-campus accommodation capacity. The ultimate goal is to improve students' learning environment and experience.

The project is implemented using *Force Account* method by engaging local fundis under supervision by MUST Consultancy Bureau (MCB) as a Consultant.

Phase I of the Project, which involved the construction of the substructure (i.e. excavation of foundation, steel works, form works, concrete works, backfilling, compaction and casting of over site concrete) and preliminaries commenced on 12th June 2019 and was completed by 10th June 2020. The construction of the superstructure started on 10th June 2020. By 25th June, 2020, setting out and casting of column kickers, preparation and fixing of reinforcement cages for columns, and preparation and fixing column formwork for the ground floor were completed. By end of 2019/2020, the substructure was completed by 100%, superstructure by 20% and the whole project was 30% complete.

The University community is grateful to the Government for generously providing highly needed funds for improving the University infrastructure.



Figure 17: Still fixing and formworks for tie beams (left) and second round of foundation wall



Figure 18: Civil works on reinforcement for beams and slabs including spacer blocks

CONSTRUCTION OF TWO CLASSROOMS

During the reporting period, the University completed the construction of two Classrooms each with sitting capacity of 400 students (Figure 19). The classrooms were furnished and installed with audiovisual equipment. The Project was funded by internally generated revenue and was implemented using *Force Account* method by engaging local *fundis* under the supervision of the Estates and Technical Services Directorate. The classrooms are very useful in supporting large classes during lecture and examination sessions.



Figure 19: Two classrooms at final stage of their construction. Each classroom has a sitting capacity of 400 students

RENOVATION OF BASEMENT SPACE FOR STAFF OFFICES

During the reporting period, the University embarked on the renovation and transformation of basement space into staff offices. The project was funded by the Government and aimed at expanding the in-campus office space for members of staff. The project renovated the unused basement space at Civil, Electrical, and Mechanical Engineering wings into 66 offices with the capacity to accommodate 264 staff and 12 general purpose rooms, thus reducing the large number of staff who formerly shared offices to a more practical number. The ultimate goal was to improve the working environment and enhance performance.

The Project commenced in September 2019 following disbursement of TZS 750 Million by the Ministry of Education, Science and Technology (MoEST) in July 2019 and was completed in June 2020. It was implemented using the *Force Account* by engaging local *fundis* under the supervision of the MUST Consultancy Bureau (MCB) as a Consultant.

Total cost for the project was TZS 657,169,100.60 including building materials (TZS 529,752,490), labour TZS 122,416,610.60 and other costs TZS 5,000,000. The remaining TZS 92,830,900 has been approved to be used for procurement of office furniture. The University is grateful to the Government of the United Republic of Tanzania (URT) through MoEST for the financial support.



Figure 20: Part of the basement space which has been renovated to provide offices for staff

REHABILITATION OF MUST RUKWA COLLEGE CAMPUS

The University continued with rehabilitation of MUST Rukwa Campus College (MRCC) so as to prepare it for accreditation by TCU. The University plan was to ensure that the College starts enrolling students in the academic year 2019/2020. The project involved rehabilitation of two students' Hostels, construction of two Classrooms, rehabilitation of Office Buildings, construction of Main Gate and construction of Business Centre.



Figure 21: Two Classroom Constructed at MUST Rukwa Campus College

LINKS AND COLLABORATION

During the reporting year (2019/2020), the University enhanced its commitment to forge strategic links with national and international institutions. In a deliberate move to realize that ambition, the University established the Directorate of Public Services and External Links mandated to coordinate the use of the University expertise and other resources to promote collaborative partnerships, provide comprehensive consultancy and outreach services. A total of 10 Memoranda of Understanding (MoUs) were signed in 2019/2020 adding up to the existing collaborations.



Figure 22: The Vice Chancellor of MUST Prof. Aloys N. Mvuma (L) shake hands with UDOM Vice Chancellor Prof. Faustine K. Bee (R) after signing an MoU between MUST and UDOM

MEMORANDA OF UNDERSTANDING SIGNED IN 2019/2020

1. Memorandum of Corporation among Mbeya University of Science and Technology (MUST), Dar es Salaam Institute of Technology (DIT), Arusha Technical College (ATC), and Hanze University of Applied Sciences.
2. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and University of Dodoma (UDOM).
3. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and All Green Energy Company.
4. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and Rujewa Integrated Efforts to Fight Poverty (RIEFP).

5. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and Tanzania Industrial Research and Development Organisation (TIRDO).
6. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and University of Dar es Salaam (UDSM).
7. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and Small Industries Development Organisation (SIDO).
8. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and Vocational Education and Training Authority (VETA).
9. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and Mwanza Polytechnic Institute (MWAPOI)
10. Memorandum of Understanding between Mbeya University of Science and Technology (MUST) and Ardhi University (ARU)

OTHER COLLABORATIONS AT NATIONAL LEVEL

1. Arusha Technical College (ATC)
2. Dar es Salaam Institute of Technology (DIT)
3. Ardhi Institute Morogoro
4. Confucius Institute at the University of Dar es salaam
5. Sokoine University of Agriculture (SUA)
6. Teofilo Kisanji University (TEKU)
7. Muhimbili University of Health and Allied Sciences (MUHAS)
8. Tanzania Communications Regulatory Authority (TCRA)
9. Universal Communication Services Access Fund (UCSAF)
10. Mbeya Zonal Referral Hospital
11. MIC Tanzania (TIGO)

COLLABORATION AT INTERNATIONAL LEVEL

1. The Commonwealth of Learning (CoL)
2. The Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA)
3. The Southern African Regional Universities Association (SARUA)
4. The African Network of Scientific and Technological Institutions (ANSTI)

5. The Inter-University Council for East Africa (IUCEA)
6. University of Applied Sciences and Technology Burgenland, Austria
7. Universitas Permangunan Jaya of Indonesia
8. Michigan State University
9. University of Rwanda

FUTURE PLANS

MUST has set strategic plans that are geared towards facilitating its rapid growth. The plans, which are extracted from its 2017/2018 – 2021/2022 Corporate Strategic Plan, are designed to accelerate achievement of its goals while optimizing utilization of its human, financial and infrastructural resources. During the next Financial Year (2020/2021), the University desires to continue implementing the following plans which are carried forward from the 2018/2019 fiscal year:

1. To increase student enrolment to meet national demand and continue to ensure that students' needs are met, staff careers are developed and communities remain confident that MUST is the centre for innovation that enables our collective future success.
2. To improve the working/study environment by:
 - (i) Acquisition of modern working tools, equipment and machines for training laboratories and workshops.
 - (ii) Acquisition of sufficient technical and training materials.
 - (iii) Establishment of incubation centers.
 - (iv) Rehabilitation and improvement of existing buildings, fixtures and other amenities.
 - (v) Acquisition of modern scientific and technological data, literature and books relevant to existing demand and projected demand of the curricula.
 - (vi) Completion of the construction of the New Library building.
 - (vii) Construction of infrastructure for Colleges.
 - (viii) Construction of administrative building and staff residential houses.
 - (ix) Completion of the construction of New Students Hostel for the expanded enrolment.
3. Enhance existing relations at district, regional, national and international levels and establish areas of cooperation with new institutions
4. Implementation of policy on combating HIV/AIDS, in collaboration with the local community surrounding the University and other national and international organizations.

CHALLENGES AND OPPORTUNITES

MUST operates in an environment endowed with numerous opportunities to support its growth. It is therefore the intention of the University to continue identifying available opportunities and utilize them to the optimum in order to realize its Vision of becoming the leading centre of excellence for knowledge, skills and applied education in Science and Technology. However, there are also several challenges that if not well identified and tackled can hinder its path towards success. During the reporting year, the following opportunities and challenges were identified:

OPPORTUNITIES

1. Goodwill from the Government and other stakeholders in terms of moral and material support.
2. Supportive policies on technical education and training-related issues.
3. Some programmes are offered at degree level but no corresponding programmes are offered in the country at technician level and vice versa to ensure the balance of engineers, technicians, and artisans.
4. Clear need for practical oriented engineers and technologists.
5. Introduction of the Structured Engineers Apprenticeship Programme (SEAP).
6. Globalization (competitive pressure forcing companies to improve/update products and services more frequently and optimize production processes).
7. Increased utilization of ICT in the country.
8. Some new technologies have not been adequately addressed by local institutions.
9. Current socio-economic environment in the country is very attractive for consultancy assignments.
10. Economic growth and hence increase in formal engineering employment and self-employment.
11. Increased demand for science and technology education and training.
12. Government pronouncement to promote STI activities.

CHALLENGES

1. Limited female applicants to the University.
2. Competition from similar institutions within the East African Cooperation and the SADC Region.
3. Online courses delivered by other institutions which may be more attractive to potential students than the similar face-to-face courses offered by the University.
4. HIV/AIDS threatening the MUST investments in human resources.
5. Insufficient and unpredictable financial support from the Government.
6. Low level of economic growth to support STI activities and ICT development.
7. Low private sector participation in STI.
8. COVID-19 pandemic that disrupted academic and administrative activities and affected income generation.

IMPACT OF COVID-19 PANDEMIC

The outbreak of COVID-19 has been declared a public health emergency of international concern, and the virus has spread in all countries around the World.

Governments around the world including Tanzania temporarily closed education institutions in an attempt to contain the spread of the corona virus. As far as MUST is concerned, suspension of academic activities brought a profound impact to the University operations. Unlike most of the developed countries where most governments urged the Universities to migrate to online digital platforms to facilitate continuity in learning, the situation was quite different in most of the Higher learning Institutions in Tanzania including MUST.

As a result of University closure for several months due to Covid 19 pandemic, students could not access education because of technology bottlenecks. The pandemic has had an impact on the accessibility of online teaching material exacerbated by inadequate digital infrastructure and capacity to offer distance learning.

On the other hand, the closure of educational institutions resulted to fiscal difficulty in revenue collections and therefore undermining the University readiness to meet its obligations. This is due to the fact that the University budget largely depends on revenues from the tuition fee collection.

The intensity of the impact was also in the national economy thus the Government did not disburse funds as approved. As a result, most of the University development activities such as construction of students' hostels and recurrent activities were negatively impacted. Covid-19 pandemic was an eye opener and a reminder that the University needs to establish an effective and sustainable academic continuity plans.

MEASURES TAKEN TO PREVENT THE SPREAD OF COVID-19

The University has been at the forefront to engage various stakeholders in taking the following measures to prevent the spread of coronavirus pandemic:

1. Engaged the University staff and students to the production of affordable handwashing devices and sanitizers. Over 100 handwashing devices were produced and distributed to several institutions and individuals across the country;
2. Engaged companies and other service providers at the University to handle customers during COVID-19 crisis;
3. Engaged the staff in the University's Radio station to create awareness, providing correct updates and educating the general public as per Government directives;
4. Prepared a strategic Covid-19 response plan in line with the Government directives; and
5. Engaged the University Management to convene meetings on virtual platforms.

The University will continue to take significant and decisive measures to ensure safety of students and staff is given the first priority. As the Government is taking measures to stop the spread of COVID-19, the University will also continue to adapt its strategy to safeguard its entire community.

FINANCIAL STATEMENTS

MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST)

4.0 INDEPENDENT REPORT OF THE CONTROLLER AND AUDITOR GENERAL

Chairperson of the Council,
Mbeya University of Science and Technology (MUST),
Plot No. 1&2,
P.O. Box 131,
Mbeya, Tanzania

4.1 REPORT ON THE AUDIT OF FINANCIAL STATEMENTS

Opinion

I have audited the consolidated financial statements of Mbeya University of Science and Technology (MUST), which comprise the statement of financial position as at 30th June, 2020, and the statement of financial performance, statement of changes in net assets and cash flow statement and the statement of comparison of budget and actual amounts for the year then ended, as well as the notes to the financial statements, including a summary of significant accounting policies.

In my opinion, the accompanying financial statements present fairly in all material respects, the financial position of Mbeya University of Science and Technology (MUST) as at 30th June, 2020, and its financial performance and its cash flows for the year then ended in accordance with International Public Sector Accounting Standards (IPSAS) Accrual Basis.

Basis for Opinion

I conducted my audit in accordance with International Standards of Supreme Audit Institutions (ISSAIs). My responsibilities under those standards are further described in the section below entitled "Responsibilities of the Controller and Auditor General for the Audit of the Financial Statements." I am independent of Mbeya University of Science and Technology (MUST) in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants (IESBA Code) together with the National Board of Accountants and Auditors (NBAA) Code of Ethics, and I have fulfilled my other ethical responsibilities in accordance with these requirements.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

Key Audit Matters

Key audit matters are those matters that, in my professional judgment, were of most significance in my audit of the financial statements of the current period. These matters were addressed in the context of my audit of financial statements as a whole, and in forming my opinion thereon, and I do not provide a separate opinion on these matters.

No.	Area of focus	How my audit addressed the key audit matter
	<i>Revenue recognition</i>	
	Refer to the Notes 4.2, 18 and 19 of the consolidated financial statements addressing the accounting policies and disclosure of revenue respectively.	My audit of the revenue from exchange transactions involved checking accuracy, occurrence, cut off and completeness of revenue as at reporting date.

MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST)

No.	Area of focus	How my audit addressed the key audit matter
	<p>The reported revenue comprises revenue from non-exchange transactions and revenue from exchange transactions.</p> <p>The University's most significant revenue streams are from exchange transactions that comprises student fees, construction income and consultancy income amounting to TZS 6.6 billion, TZS 3.3 billion and TZS 1.5 billion respectively.</p> <p>Revenue from student fees is recognized in the statement of financial performance when it can be estimated reliably and it is probable that the economic benefits or service potential associated with the transaction will flow to the entity i.e. at the time when students are fully registered. Revenue is recognized in November and May for semesters I and II respectively.</p> <p>Revenue from construction contracts e.g. consultancy, construction services is recognized in the statement of financial performance when the outcome of construction contract can be measured reliably by reference to the stage of completion of the contract activity at the reporting date. Stage of completion is measured through survey of work performed.</p> <p>The risk for revenue being recognized in an incorrect period presents a key audit matter due to its financial significance. My review noted cases where revenue from construction contracts is recognized on cash basis instead of accrual as per IPSAS 11 and I also noted that student fees were not properly accounted for students who delayed in completing registration process.</p>	<p>In addressing this matter my audit performed the following: Recomputed expected student fees-based on the number of students registered and approved fees structure; Obtained and reviewed approved certificate of completion for each construction project; Establish expected revenue from construction contracts based on reviewed contracts.</p> <p>Results of my work Based on the procedures performed and evidence obtained, I observed that the University incorrectly recognized revenue from construction contracts on cash basis. I therefore reviewed the completion certificates and established stages of completion of the contracts in accordance with IPSAS 11 <i>Construction contracts</i>;</p>

Other information

Management is responsible for the other information. The other information comprises the Council's Report or any other equivalent report and the Declaration by the Head of Finance but does not include the financial statements and my audit report thereon.

My opinion on the financial statements does not cover the other information and I do not express any form of assurance conclusion thereon. In connection with my audit of the financial statements, my responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or my knowledge obtained in the audit, or otherwise appears to be materially misstated.

If, based on the work I have performed on the other information that I obtained prior to the date of this audit report, I conclude that there is a material misstatement of this other information; I am required to report that fact. I have nothing to report in this regard.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with IPSAS, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the entity's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the entity or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the entity's financial reporting process.

Responsibilities of the Controller and Auditor General for the Audit of the Financial Statements

My objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an audit report that includes my opinion. Reasonable assurance is a high level of assurance but is not a guarantee that an audit conducted in accordance with ISSAIs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with ISSAIs, I exercise professional judgment and maintain professional skepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the entity's ability to continue as a going concern. If I conclude that a material uncertainty exists, I am required to draw attention in my audit report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify my opinion. My conclusions are based on the audit evidence obtained up to the date of my audit report.

However, future events or conditions may cause the entity to cease to continue as a going concern.

- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

I communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

I also provide those charged with governance with a statement that I have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on my independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, I determine those matters that were of most significance in the audit of the financial statements of the current period and are therefore the key audit matters. I describe these matters in my audit report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, I determine that a matter should not be communicated in my report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

In addition, Section 10 (2) of the Public Audit Act, 2008 requires me to satisfy myself that, the accounts have been prepared in accordance with the appropriate accounting standards.

Further, Section 48(3) of the Public Procurement Act, 2011 requires me to state in my annual audit report whether or not the audited entity has complied with the procedures prescribed in the Procurement Act and its Regulations.

4.2 REPORT ON COMPLIANCE WITH LEGISLATIONS

Compliance with the Public Procurement Act, 2011 (as amended in 2016)

In view of my responsibility on the procurement legislation and taking into consideration the procurement transactions and processes I have reviewed as part of this audit, except for the matters described below, I state that, Mbeya University of Science and Technology (MUST) procurement transactions and processes have not generally complied with the requirements of the Public Procurement Act No.7 of 2011 (as amended in 2016) and its underlying Regulations of 2013 (as amended in 2016).

1. **Procurement of goods amounting to TZS 373,852,989 from unapproved suppliers**
Regulation 131(4)(b) of the Public Procurement Regulations, 2013 (as amended in 2016) details that a procuring entity to procure common use items and services from tenderers awarded framework agreements by GPSA through placing of call off orders prepared by the Procurement Management Unit and approved by the accounting officer or any delegated officer.

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Despite of the aforementioned Regulation, my review noted that the University procured worth of products amounting to TZS 373,852,989 from unapproved suppliers by GPSA.

2. Inadequate invoking liquidated damages for the delayed works


Regulation 112 (1) of the Public Procurement Regulations, 2013 (as amended in 2016) requires a procuring entity to impose on a tenderer, a liquidated damage for undelivered materials or goods, undelivered or delayed services or delayed works while part (b) in the case of procurement of works, 0.10 up to 0.15 per cent of the contract value per day up to a sum equivalent to the amount of the performance guarantee.

My review noted that the University terminated tender amounting to TZS 2,489,738,004 on the ground of delays but did not invoke the liquidated damage thereon contrary to the aforementioned regulations.

3. User department involvement in designing of the construction of Library Block Phase I was not justified

Regulation 39(c) Public Procurement Regulations 2013 (Amended 2016) requires the User department, to prepare technical inputs to statements of requirements and or terms of reference for procurement requirements to the Procurement Management Unit; while Regulation 29(d) requires user department to propose technical specifications to the Procurement Management Unit when necessary.

My review of the user department participation in designing of the construction of Library Block Phase I could not be justified by documented evidence from the MUST management.


Charles E. Kichefe
Controller and Auditor General
Dodoma, United Republic of Tanzania
March, 2021



5.0 CONSOLIDATED FINANCIAL STATEMENTS

 STATEMENT OF FINANCIAL POSITION AS AT 30TH JUNE 2020

	NOTES	MUST 2020 TZS'000	CONSOLIDATED 2020 TZS'000	Restated MUST 2019 TZS'000	Restated CONSOLIDATED 2019 TZS'000	Restated MUST 2018 TZS'000	Restated CONSOLIDATED 2018 TZS'000
ASSETS							
Current assets							
Cash and cash equivalents	7	777,884	882,810	3,897,035	3,913,383	4,466,458	4,620,680
Trade and other receivables	8	1,442,647	2,339,201	899,298	990,785	1,388,611	1,388,761
Deferred tax asset	9	-	27,859	-	-	-	-
		2,220,531	3,249,870	4,796,333	4,904,168	5,855,069	6,009,441
Non-current assets							
Investments	10	700	-	700	-	200	200
Intangible assets	11	33,480	33,480	50,220	50,220	66,960	66,960
Property, plant and equipment	12	22,884,132	22,918,039	16,433,409	16,433,409	16,666,204	16,666,204
Work in progress	13	2,558,742	2,558,742	4,590,346	4,590,346	2,525,611	2,525,611
		25,477,054	25,510,261	21,074,675	21,073,975	19,258,975	19,258,975
TOTAL ASSETS		27,697,585	28,760,131	25,871,008	25,978,143	25,114,044	25,268,416
LIABILITIES							
Current Liabilities							
Trade and other payables from exchange transactions	14	2,553,543	2,920,933	4,561,578	4,571,225	2,904,446	3,061,526
Deferred revenue	15	604,881	604,881	957,698	957,698	-	-
Tax payable	16	-	204,214	-	27,641	-	-
Current portion of long-term loan- TIB	17	207,496	207,496	142,857	142,857	214,286	214,286
				Restated	Restated	Restated	Restated
				142,857	142,857	214,286	214,286
							31


Controller and Auditor General


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MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST)

	MUST 2020	CONSOLIDATED 2020	Restated MUST 2019	Restated CONSOLIDATED 2019	Restated MUST 2018	Restated CONSOLIDATED 2018
Total current liabilities	3,365,920	3,937,5424	5,662,133	5,699,421	3,118,732	3,275,812
Non-current Liabilities						
Long term loan -TIB	607,143	607,143	785,714	785,714	785,714	785,714
TOTAL LIABILITIES	3,973,063	4,544,667	6,447,847	6,485,135	3,904,446	4,061,526
NET ASSETS	23,724,522	24,215,464	19,423,161	19,493,008	21,209,598	21,206,890
EQUITY FUND AND RESERVES						
Taxpayer's fund	20,599,741	20,599,741	20,599,741	20,599,741	20,599,741	20,599,941
Accumulated surplus/(deficit)	3,124,781	3,615,232	(1,176,580)	(1,106,803)	609,857	606,952
Non-controlling interest	-	491	-	70	-	(3)
TOTAL EQUITY FUND AND RESERVES	23,724,522	24,215,464	19,423,161	19,493,008	21,209,598	21,206,890

Notes form an integral part of these financial statements.


 HON. ZAKIA HAMDAN MEGHJI
 CHAIRPERSON


 PROF. ALOYS N. MYUMA
 VICE CHANCELLOR

DATE: 15/3/2021


MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST)

STATEMENT OF FINANCIAL PERFORMANCE FOR THE YEAR ENDED 30TH JUNE 2020

REVENUE	NOTE	MUST 2020 TZS'000	CONSOLIDATED 2020 TZS'000	Restated MUST 2019 TZS'000	Restated CONSOLIDATED 2019 TZS'000	Restated MUST 2018 TZS'000	Restated CONSOLIDATED 2018 TZS'000
Revenue from non-exchange transaction	18	20,525,705	20,525,705	15,071,633	15,071,633	14,060,579	14,060,579
Revenue from exchange transaction	19	8,403,249	11,673,723	7,337,174	7,699,740	5,060,392	5,095,028
Other revenue	20	1,114,596	1,053,453	250,456	250,456	1,780,060	1,780,060
TOTAL REVENUE		30,043,550	33,252,881	22,659,263	23,021,829	20,901,031	20,935,667
EXPENSES							
Wages, salaries and employee benefits	21	18,096,097	18,249,961	15,686,972	15,686,972	13,939,689	13,944,979
Supplies and consumables used	22	1,696,590	1,729,807	1,635,154	1,635,154	2,358,587	2,358,587
Depreciation and amortization expenses	23	747,088	749,781	804,858	804,858	694,358	694,358
Administrative expenses	25	5,004,209	7,405,317	6,127,557	6,389,726	2,265,931	2,297,972
Finance costs	24	196,378	196,378	191,160	191,160	147,336	147,549
TOTAL EXPENSES		25,740,362	28,331,244	24,445,701	24,707,870	19,405,901	19,443,445
SUPPLUS/(DEFICIT) FOR THE YEAR		4,303,188	4,921,637	(1,786,438)	(1,686,041)	1,495,130	1,492,222
BEFORE TAX	26	-	(197,355)	-	(27,641)	-	-
Corporate tax							
SUPPLUS/(DEFICIT) FOR THE YEAR		4,303,188	4,724,282	(1,786,438)	(1,713,682)	1,495,130	1,492,222
AFTER TAX							
Attributable to:							
Owners of the controlling entity		4,303,188	4,723,861	(1,786,438)	(1,713,755)	1,495,130	1,492,225
Non-controlling interest		-	421	-	73	-	(3)
		4,303,188	4,724,282	(1,786,438)	(1,713,682)	1,495,130	1,492,222

Notes form an integral part of these financial statements.


 HON. ZAKIA HAMDAN MEGHJI
 CHAIRPERSON


 PROF. ALOYS N. MVUMA
 VICE CHANCELLOR

DATE: 15/3/2021

MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST)

STATEMENT OF CHANGES IN NET ASSETS FOR THE YEAR ENDED 30TH JUNE 2020

	Taxpayers fund MUST	Taxpayers fund CONSOLIDATED	Attributable to owners of the controlling entity Accumulated surplus/deficit MUST	Accumulated surplus/deficit CONSOLIDATED	Non-controlling interest	Total MUST	Total CONSOLIDATED
	TZS '000	TZS'000	TZS'000	TZS'000	TZS '000	TZS '000	TZS '000
At 30 June 2018							
At the beginning of the year	20,599,741	20,599,741	(2,376,622)	(2,376,622)	-	18,223,119	18,223,119
Prior year adjustment	-	-	1,491,349	1,491,349	-	1,491,349	1,491,349
Surplus for the year	-	-	1,495,130	1,492,225	(3)	1,495,130	1,492,222
At the end of year	20,599,741	20,599,741	609,857	606,952	(3)	21,209,598	21,206,690
At 30 June 2019							
At the beginning of the year	20,599,741	20,599,741	609,857	606,952	(3)	21,209,598	21,206,690
Surplus for the year	-	-	(1,786,438)	(1,713,755)	73	(1,786,438)	(1,713,682)
At the end of year	20,599,741	20,599,741	(1,176,581)	(1,106,803)	70	19,423,160	19,493,008
At 30 June 2020							
At the beginning of the year	20,599,741	20,599,741	(1,176,581)	(1,106,803)	70	19,423,160	19,493,008
Opening balance difference	-	-	(1,826)	(1,826)	-	(1,826)	(1,826)
Surplus for the year	-	-	4,303,188	4,723,861	421	4,303,188	4,724,282
At the end of year	20,599,741	20,599,741	3,124,781	3,615,232	491	23,724,522	24,215,464

Notes form an integral part of these financial statements.


 HON. ZAKIA HAMDAN MEGHJI
 CHAIRPERSON


 PROF. ALOYS N. MVUMA
 VICE CHANCELLOR

DATE: 15/3/2021

Controller and Auditor General

AR/PA/MUST/2019/20

STATEMENT OF CASHFLOWS FOR THE YEAR ENDED 30TH JUNE 2020

	NOTES	MUST 2020 TZS'000'	CONSOLIDATED 2020 TZS'000'	MUST 2019 TZS'000'	CONSOLIDATED 2019 TZS'000'
CASH FLOW FROM OPERATING ACTIVITIES					
Receipts					
Transfers from other Government entities		18,010,224	18,010,224	15,090,292	15,090,292
Students' fees		6,407,267	6,407,267	5,599,324	5,599,324
From HESLB		5,441,670	5,441,670	5,689,816	5,689,816
Other receipts		2,461,535	4,840,292	1,933,326	2,033,416
Grants		-	-	1,009,496	1,023,166
		<u>32,320,696</u>	<u>34,699,453</u>	<u>29,327,254</u>	<u>29,436,014</u>
Payments					
Wages, salaries and employee benefits		(18,011,694)	(18,165,918)	(16,565,638)	(16,657,124)
Supplies and consumables used		(1,836,906)	(1,870,124)	(1,954,159)	(2,107,185)
Other payments		(5,249,820)	(7,293,474)	(2,768,946)	(2,776,301)
Finance costs		-	-	(227,816)	(228,082)
HESLB loan disbursements to students		(5,976,600)	(5,976,600)	(5,718,500)	(5,718,500)
		<u>(31,075,020)</u>	<u>(33,306,116)</u>	<u>(27,235,059)</u>	<u>(27,487,192)</u>
Net cash Inflows from Operating Activities		1,245,676	1,393,337	2,087,195	1,948,822
CASH FLOWS FROM INVESTING ACTIVITIES					
Purchase of laboratory equipment	12	(110,247)	(136,346)	(64,636)	(64,636)
Purchase of office furniture	12	(306,361)	(306,361)	(83,440)	(83,440)
Purchase of office equipment	12	(244,405)	(254,906)	(203,727)	(203,727)
Purchase of plant and machinery	12	-	-	(104,052)	(104,052)
Building work in progress	13	(3,422,285)	(3,422,285)	(2,129,335)	(2,129,335)
Dividend received	20	22,483	-	-	-
Net cash Outflows to Investing Activities		(4,060,815)	(4,119,898)	(2,585,190)	(2,585,190)

MBEYA UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST)

CASH FLOWS FROM FINANCING ACTIVITIES	17	(304,012)	(304,012)	(71,428)	(71,429)
Loan repayment					500
Share capital					(70,929)
Net cash Outflows to Financing Activities		(304,012)	(304,012)	(71,428)	
Net increase/(decrease) in cash and cash equivalents		(3,119,151)	(3,030,573)	(569,423)	(707,297)
Cash and cash equivalents at beginning of period	7	3,897,035	3,913,383	4,466,458	4,620,680
Cash and cash equivalents at end of period		777,884	882,810	3,897,035	3,913,383

Cash flow is prepared using direct method (actual cash inflows/outflows) while financial statements are prepared on accrual basis. Reconciliation of cashflows is on Note 35. Notes form an integral part of these financial statements.


 HON. ZAKIA HAMDEN MEGHJI
 CHAIRPERSON


 PROF. ALOYS N. MVUMA
 VICE CHANCELLOR

DATE: 15/3/2021

STATEMENT OF COMPARISON OF BUDGETS AND ACTUAL AMOUNTS FOR THE YEAR ENDED 30TH JUNE 2020

	Original Budget {A} TZS '000	Adjustment{B} TZS '000	Final Budget C = {A+/-B} TZS '000	Actual on Comparable Basis {D} TZS '000	Difference {C-D} TZS '000	VARIANCES % (Notes)
Receipts						
Transfers from other Government entities	23,805,038	5,650,000	29,455,038	18,010,224	11,444,814	39% 31 (i)
Students fee	5,043,763	2,030,435	7,074,198	6,407,267	666,931	9% 31 (ii)
Other Revenue	8,738,122	3,338,815	12,076,937	10,281,961	1,794,976	15% 31 (iii)
	<u>37,586,923</u>	<u>11,019,250</u>	<u>48,606,173</u>	<u>34,699,452</u>	<u>13,906,721</u>	
Payments						
Wages, salaries and employee benefits	20,529,057	613,477	21,142,534	18,165,918	2,976,616	14% 31 (iv)
Supplies and consumables used	839,648	1,470,029	2,309,677	1,870,124	439,553	19% 31 (v)
Administrative expenses	11,111,328	1,922,462	13,033,790	13,270,074	(236,284)	(2)% 31 (vi)
Finance cost	362,000	(100,299)	261,701	304,012	(42,310)	(16)% 31 (vii)
Construction of buildings and purchase of office equipment and furniture	4,744,890	7,113,581	11,858,471	4,119,897	7,738,574	65% 31 (viii)
	<u>37,586,923</u>	<u>11,019,250</u>	<u>48,606,173</u>	<u>37,730,025</u>	<u>16,989,922</u>	
Deficit for the year	-	-	-	<u>(3,030,572)</u>	<u>(3,030,572)</u>	

The budget and financial statements are prepared on a different basis. The statement of comparison of budget and actual amounts above is prepared on the same basis as the budget. Explanations on the deviations is on Notes 30 of these financial statements.

Notes form an integral part of these financial statements.

APPENDICES

APPENDIX I: Collaboration with Local Institutions

S/N	INSTITUTION	EXISTENCE OF MOU OR MEMBERSHIP	MOU DATE SIGNED	TENURE OF MOU	STATUS OF MOU OR MEMBERSHIP	AREA OF COLLABORATION
1.	Arusha Technical College	Signed MoU	2016	Five Years	Active	<ul style="list-style-type: none"> • Technology Development • Curriculum exchange and development • Staff exchange and development • Research and Publication • Solicitation of funds
2.	Dar es Salaam Institute of Technology	Signed MoU	March 2017	Five Years	Active	<ul style="list-style-type: none"> • Technology Development • Curriculum exchange and development • Staff exchange and development • Research and Publication • Solicitation of funds
3.	Ardhi Institute - Morogoro	Signed MoU	June 2016	Five Years	Active	<ul style="list-style-type: none"> • Technology Development • Curriculum exchange and development • Students and Staff exchange • Research, Education and Development • Publications including Journals, websites, handbooks • Sharing of facilities • Professional Services • Sharing of academic programmes • Solicitation of funds
4.	Confucius Institute at University of Dar es Salaam	Signed MoU	2019	Five Years	Active	<ul style="list-style-type: none"> • To provide instruments for teaching Chinese Language at MUST
5.	Sokoine University of Agriculture (SUA)	Signed MoU	2015	Five Years	Active	<ul style="list-style-type: none"> • Collaborative Research • Staff exchange • Supervision of students • Student exchange • Joint PhD degree • Solicitation of funds
6.	Teofilo Kisanji University	Signed MoU	September 2016	Five Years	Active	<ul style="list-style-type: none"> • Technology Development • Curriculum exchange and development

S/N	INSTITUTION	EXISTENCE OF MOU OR MEMBERSHIP	MOU DATE SIGNED	TENURE OF MOU	STATUS OF MOU OR MEMBERSHIP	AREA OF COLLABORATION
	(TEKU)					<ul style="list-style-type: none"> • Staff exchange and development • Research and Publication • Solicitation of funds
7.	Muhimbili University of Health and Allied Sciences (MUHAS)	Signed MoU	June 2017	Five Years	Active	<ul style="list-style-type: none"> • Staff exchange • Staff development • Students exchange • Research, Education and development • Organisation and participation in conferences, workshops and seminars • Publications including Journals, websites, handbooks • Sharing facilities • Professional services • Academic Programmes • Curriculum development • Curriculum exchange • Funds solicitation • Running joint programmes
8.	Tanzania Communications Regulatory Authority (TCRA)	Signed MoU	February 2018	Three Years	Active	<ul style="list-style-type: none"> • Conducting Research in the area of Telecommunication • Development of Curriculum for Telecommunication Engineering • Telecommunication and ICT Training Equipment • Joint Professional paper presentations/publications and visiting lecturers
9.	Universal Communications Service Access Fund (UCSAF)	Signed MoU	October 2017	Five Years	Active	<ul style="list-style-type: none"> • Women Scholarship (2 best female students per year. • Development of Curriculum for Telecommunication Engineering • Telecommunication and ICT Training Equipment • Joint Professional paper presentations/publications and visiting lecturers
10.	Mbeya Zonal Referral Hospital	Signed MoU	May 2016	Five Years	Active	<ul style="list-style-type: none"> • Establishment of College of Health Science and Technology • Staff Sourcing • Training programmes • Research, Consultancy

S/N	INSTITUTION	EXISTENCE OF MOU OR MEMBERSHIP	MOU DATE SIGNED	TENURE OF MOU	STATUS OF MOU OR MEMBERSHIP	AREA OF COLLABORATION
						and community outreach activities
11.	MIC Tanzania Limited (TIGO)	Draft MoU submitted for inputs from their end	2018	Three Years	Active	<ul style="list-style-type: none"> • To assist business and industrial development • To promote mutual organizational interests in ways that are consistent with the mandates, policies priorities and resources of each party

APPENDIX II: Collaboration with International Institutions

S/N	INSTITUTION	EXISTENCE OF MOU OR MEMBERSHIP	MOU DATE SIGNED	TENURE OF MOU	STATUS OF MOU OR MEMBERSHIP	AREA OF COLLABORATION
1.	Commonwealth of Learning (CoL)	Membership	N/A	Renewed Annually	Active	<ul style="list-style-type: none"> Capacity Building
2.	The Commonwealth Association of Technical Universities and Polytechnics in Africa (CAPA)	Membership	N/A	Renewed Annually	Active	<ul style="list-style-type: none"> Capacity Building
3.	Southern African Regional Universities Association (SARUA)	Membership	N/A	Renewed Annually	Active	<ul style="list-style-type: none"> Capacity Building
4.	The African Network of Scientific and Technological Institutions (ANSTI)	Membership	N/A	Renewed Annually	Active	<ul style="list-style-type: none"> Capacity Building
5.	The Inter-University Council for East Africa (IUCEA)	Membership	N/A	Renewed Annually	Active	<ul style="list-style-type: none"> Capacity Building Networking with Universities in East Africa Provide a forum for discussion on a wide range of academic and matters relating to higher education in East Africa; Higher Education Quality Assurance and Control
6.	University of Applied Sciences Burgenland, Austria	Signed MoU	October 2017	Five Years	Active	<ul style="list-style-type: none"> Students and staff mobility Research activities Capacity building and academic exchange Development and implementation of joint study programmes
7.	Universitas Pembangunan Jaya (Indonesia)	Signed MoU	December 2017	One Year	Active	<ul style="list-style-type: none"> Exchange Scholars Exchange of Students Exchange of academic information Organization of joint

S/N	INSTITUTION	EXISTENCE OF MOU OR MEMBERSHIP	MOU DATE SIGNED	TENURE OF MOU	STATUS OF MOU OR MEMBERSHIP	AREA OF COLLABORATION
						research programmes
8.	Michigan State University (USA)	Signed MoU	October 2017	Five Years	Active	<ul style="list-style-type: none"> • Exchange of Students and Staff • Capacity Building • Collaborative projects • Promote and support joined entrepreneurial activities for faculty and students • Pursue funding and professional development opportunities for enhancement of MUST's information technology and laboratory infrastructure
9.	University of Rwanda	Signed MoU	2018	Two Years	Active	<ul style="list-style-type: none"> • Staff exchange • Staff development • Students exchange • Research, Education and development • Organisation and participation in conferences, workshops and seminars • Publications including Journals, websites, handbooks • Sharing facilities • Professional/academic services • Curriculum development • Curriculum exchange • Funds solicitation • Running joint programmes



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