## UNIVERSITY OF DAR ES SALAAM

P.O. BOX 35091 DAR ES SALAAM, TANZANIA



### **PRESS RELEASE**

# RESULTS OF THE 5<sup>TH</sup> CALL FOR COMPETITIVE RESEARCH AND INNOVATION GRANTS 2022/2023

The University of Dar es Salaam is pleased to announce selection results of the 5<sup>th</sup> call of proposals for competitive research and innovation grants (2022/2023), which was announced on the 25<sup>th</sup> October 2022. The University has allocated **TZS 3,155,000,000/= for the 5<sup>th</sup> call,** out of which, TZS 2,450,000,000/- will fund research projects and TZS 705,000,000/- are for innovation projects. Statistics of submitted proposals and selected ones are summarized in the table below and details of successful applications are posted at <a href="https://www.udsm.ac.tz">https://www.udsm.ac.tz</a>

	Resea	arch Propo	sals	Innovation Proposals				
	Applications	Selected	Winning (%)	Applications	Selected	Winning (%)		
UDSM Main Campus	190	68	36%	18	2	11%		
DUCE	46	9	20%	3	1	33%		
MUCE	38	11	29%	3	1	33%		
Total	274	88	32%	24	4	16%		

Principal Investigators (PIs) of all successful applications are requested to contact the **Directorate of Research and Publication** (DRP) with effect from **Tuesday**, **28**<sup>th</sup> **February 2023** to collect their award letters and contracts to commence the activities.

Congratulations to all applicants who applied for this year's Competitive Research and Innovation Grants.

PROF. NELSON M.K. BONIFACE
ACTING DEPUTY VICE CHANCELLOR - RESEARCH
24th February, 202

#### **APPENDIX 2A:**

List of selected Research and Innovation Proposals Recommended for the Award of 5th UDSM Research and Innovation Grants 2021/2022 for Mwalimu Julius Nyerere Main Campus

#### UNIVERSITY OF DAR ES SALAAM

OFFICE OF THE DEPUTY VICE CHANCELLOR – RESEARCH

FIFTH CALL FOR COMPETITIVE RESEARCH PROPOSAL GRANTS

LIST OF SELECTED PROPOSALS FOR THE AWARD OF THE 5<sup>TH</sup> UDSM RESEARCH AND INNOVATION GRANT 2022/23 FOR MWALIMU JULIUS NYERERE MAIN CAMPUS

#### I. SELECTED INNOVATION PROPOSALS

S/N	PROJECT TITLE	PRINCIPAL INVESTIGATOR	TEAM MEMBERS	CLUSTER	COLLEGE	DEPARTMENT	BUDGET	Final Score	Selection Decision
1	Smart Fishing Innovative Solutions for Effective Conservation and Sustainability of Tanzania Blue Economy	Abdi Abdalla	Angelina Misso Baraka Maiseli Ellen Kalinga Eva Shayo Kwame Ibwe Moses Mchome Rahab Mwang'amba Rukia Kitula	Cluster 1: Science, Technology and Innovation (STI), ICT and Industrial Development	CoICT	Electronics and Telecommunicati ons Engineering	198,880,000	81.67	Selected for Award
2	Cost-effective digital fiscal solution for efficient revenue collection and management by Tanzania Revenue Authority	Alfred Mwambela	Thomas Luca Bahati Dickson Godwin Nazayoel Arnold Sylvester Lyimo Peter Thomas Muniko Antony Assey Baraka Maiseli Libe Massawe Tobias Swai	Cluster 1: Science, Technology and Innovation (STI), ICT and Industrial Development	CoICT	Electronics and Telecommunicati ons Engineering	200,000,000	86.67	Selected for Award

#### II. SELECTED RESEARCH PROPOSALS

S/N	PROJECT TITLE	PRINCIPAL	TEAM	CLUSTER	COLLEGE	DEPARTMENT	BUDGET	Final	Selected for Award
		INVESTIGATOR	MEMBERS					Score	

1.	Nutritional assessment of a beekeeping waste (slumgum) for the formulation of broiler chicken feed	Christopher Mduda	Ibrahim Kinyoro Juma Mmongoyo Masoud Muruke Namtero Newa Robert Katikiro Wilbert Gaudence Mitao Huruma Julius Mbonea	Cluster 1: Science, Technology and Innovation (STI), ICT and Industrial Development	CoAF	Crop Sciences and Beekeeping Technology	30,000,000	79.32	Selected for Award
2.	Cooperative Organization as An Engine of Market Participation Among Smallholder's Farmers in Tanzania	Franco Mbegallo	Jackson Elias Joyceline Gonslaves Swaumu Hassan	Cluster 1: Science, Technology and Innovation (STI), ICT and Industrial Development	CoAF	Agricultural Economics and Business	19,960,000	69.20	Selected for Award
3.	Macroalgae based biostimulants production for improving agricultural productivity and environmental adaption and mitigation.	Charles Joseph	Anold Towo Innocensia John Victor Matabura Enitha Michael	Cluster 2: Education, Agriculture, Food Security and Health	CoAF	Crop Sciences and Beekeeping Technology	30,000,000	76.63	Selected for Award
4.	Honeybee pollination for improving sunflower oil production and livelihoods in Singida, Tanzania	Shibonage Mashilingi	Beatrice Tonola Charles Joseph Ibrahim Kinyoro Mkabwa Manoko samora Andrew	Cluster 2: Education, Agriculture, Food Security and Health	CoAF	Crop Sciences and Beekeeping Technology	30,000,000	71.91	Selected for Award

5.	Evaluation Of The Effect Of Absence Of Proper Career Guidance To Youth In Tanzania And Development Of Career Guidance And Counselling Program Guide	Mapesa Luhasile	Abraham Temu Adela Syikilili Eugenia Kafanabo	Cluster 2: Education, Agriculture, Food Security and Health	CoET	Chemical and Mining Engineering	19,980,000	62.69	Selected for Award
	For Secondary School Students								
6.	Surveillance of Giraffe Skin Disease using the Convolution Neural Network: A Case Study of Ruaha National Park	Aviti Mushi	Ally Bitebo Anitha Byabato Fred Chibwana Jestina Katandukila Mussa Daniel Budeba	Cluster 6: Natural Resources, Environment and Technology	CoET	Electrical Engineering	30,000,000	64.04	Selected for Award
7.	Rethinking parent-child sexual and reproductive health (SRH) communication: A case of Morogoro and Dodoma districts in Tanzania	Zilpah Ombijah	Egidius Rwezahula Paschal Mdukula Mr. Benedicto Luvanda Prof. Adedayo Abah	Cluster 2: Education, Agriculture, Food Security and Health	СоНИ	Centre for Communication Studies	19,950,000	61.66	Selected for Award
8.	A Critical Discourse Analysis of Social Media Posts expressing Public Sentiment and Discourse on Intimate Partner Violence in Tanzania	Rose Upor	Brighton Msagalla Lulu Mahai Thomas Ndaluka Selina Wayimba (DUCE)	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	СоНИ	Foreign Languages and Linguistics	19,430,000	78.37	Selected for Award

9.	An Exploration of the	Elgidius Ichumbaki	Catherine Joseph	Cluster 5:	CoHU	Archaeology and	19,500,000	73.17	Selected for Award
	Conflicts and Tensions in		Bhoke	History,		Heritage Studies			
	the Governance of Cultural		Felix Nyella	Culture,					
	Heritage Sites in Tanzania			Language,					
				Heritage and					
				Sustainable					
				Tourism					
10.	The State And Fire Fighting	Hezron Kangalawe	Digna Mlengule	Cluster 5:	CoHU	History	20,000,000	59.35	Selected for Award
	In The Plantation Forestry In		Imani Majenda	History,					
	Tanzania: An Historical		Yustina Komba	Culture,					
	Interrogation With A Case		Joseph Sondi	Language,					
	Of Mufindi District, 1984-			Heritage and					
	2022			Sustainable					
				Tourism					
11.	Data-Driven Artificial	Shililiandumi	Baraka Maiseli	Cluster 1:	CoICT	Electronics and	20,000,000	80.13	Selected for Award
	Intelligence System for	Naiman	Diana Rwegasira	Science,		Telecommunicati			
	Recording and Managing		Ellen Kalinga	Technology and		ons Engineering			
	Students' Attendance During		Leonard Peter	Innovation					
	Lectures and University		Libe Massawe	(STI), ICT and					
	Examinations		JOHN PAUL	Industrial					
			KUNDY	Development					
12.	Integrated information	Eva Shayo	Diana Rwegasira	Cluster 1:	CoICT	Electronics and	20,000,000	78.90	Selected for Award
	system for empowerment of		Fred Chibwana	Science,		Telecommunicati			
	street children under		Jestina Katandukila	Technology and		ons Engineering			
	resource-limited settings in		Respicius Damian	Innovation					
	Tanzania			(STI), ICT and					
				Industrial					
				Development					

13.	Minimizing Fish Mortality	Godfrey Chugulu	Abdi Abdalla	Cluster 1:	CoICT	Electronics and	19,590,000	77.50	Selected for Award
	in Aquafarms through		Angelina Misso	Science,		Telecommunicati			
	Proper Monitoring of Water		Baraka Maiseli	Technology and		ons Engineering			
	Quality Parameters using		Eva Shayo	Innovation					
	Internet of Things		Fatuma Simba	(STI), ICT and					
			Kwame Ibwe	Industrial					
			Libe Massawe	Development					
			Mercy Mbise						
			Samwel Limbu						
			Shamte Kawambwa						
14.	Analysis of Violence against	Ruthbetha Kateule	Hashimu Iddi	Cluster 4:	CoICT	Computer	19,680,000	70.72	Selected for Award
	Women and Children in East		Hellen Maziku	Gender,		Science and			
	Africa Drawing Insights		Jacqueline Damas	Professional		Engineering			
	from Publications and Social		Lilian Mtasingwa	Development,					
	Media Conversations			Policy					
				Development					
				and Policy					
				Implementation					
15.	Development and	Anthony	Angelina Misso	Cluster 6:	CoICT	Computer	29,359,000	66.47	Selected for Award
	Commercialization of	Kigombola	Diana Rwegasira	Natural		Science and			
	Electrical Conversion Kit for		Jackson Justo	Resources,		Engineering			
	Electrifying Internal		Moses Mchome	Environment					
	Combustion Engine		Zainab Katima	and Technology					
	Motorcycle (ICEM) in								
	Tanzania								

16.	Efficiency plastics recycling	Diana Rwegasira	Ellen Kalinga	Cluster 6:	CoICT	Computer	19,950,000	56.47	Selected for Award
	for sustainable environments		Moses Mchome	Natural		Science and			
	using blockchain technology		David Machuche	Resources,		Engineering			
				Environment					
				and Technology					
17.	Investigations on acrylamide	Geradius	Geradius Deogratias	Cluster 1:	CoNAS	Chemistry	26,960,000	82.88	Selected for Award
	levels in selected fried	Deogratias	LILIAN Kaale	Science,					
	foods, its mitigation		Stephen Nyandoro	Technology and					
	strategies and membrane			Innovation					
	permeability studies			(STI), ICT and					
				Industrial					
				Development					
18.	Development of Field-	Nuru Mlyuka	Ally Mahadhy	Cluster 1:	CoNAS	Physics	30,000,000	82.42	Selected for Award
	Deployable Immuno-		Daniel Maeda	Science,					
	Biosensor for Detection and		Grace Kinunda	Technology and					
	Quantification of Aflatoxin		J Phillip	Innovation					
	B1 in Foods		Margaret Samiji	(STI), ICT and					
				Industrial					
				Development					
19.	Biomechanical and Kinetic	Ginena Shombe	Cyprian Mpinda	Cluster 1:	CoNAS	Chemistry	30,000,000	78.68	Selected for Award
	Specificity Properties of		Grace Kinunda	Science,					
	Lactobacillus-Derived		Nuru Mlyuka	Technology and					
	Extracellular Vesicles: A		Sai Ngassa	Innovation					
	prospect for Bio-cargo and			(STI), ICT and					
	Drug Nano-Carrier for			Industrial					
	Cancer Therapy			Development					

Products Antimalarial Drug Discovery using Artificial Intelligence and Atomistic		Lucas Luchemba	Science,					
• •			20101100,					
Intelligence and Atomistic		Michael Ryoba	Technology and					
intelligence und l'itellinette		Olivia Kalokora	Innovation					
Simulations		Stephen Nyandoro	(STI), ICT and					
			Industrial					
			Development					
Epidemiological Study of	Angelamercy	Anitha Byabato	Cluster 2:	CoNAS	Zoology and	29,900,000	83.87	Selected for Award
Zoonotic Bacteria in Human	Baltazary	Fred Chibwana	Education,		Wildlife			
and Animal Interfaces in	•	Jestina Katandukila	Agriculture,		Conservation			
Southern Lowlands		Respicius Damian	Food Security					
		Victor Makene	and Health					
	Paul Limbu			CoNAS	Physics	30,000,000	80.52	Selected for Award
_		_						
		•	•					
Scale Farmers in Tanzania		•	_					
		_	and Health					
		Nuru Mlyuka						
		_						
Investigation of the role of	Amoni Ulime		Cluster 2:	CoNAS	Zoology and	29,930,000	77.40	Selected for Award
small mammals in the		Florence Tarimo	Education,		Wildlife			
transmission of		Kija Nghabi	Agriculture,		Conservation			
Leptospirosis a zoonotic		Leticia Musese	Food Security					
disease in Lindi and Mtwara		Monica Shilereyo	and Health					
regions, Tanzania		Amoni Ulime						
Z a S	Zoonotic Bacteria in Human and Animal Interfaces in Southern Lowlands  Agrivoltaic System as a Climate Smart Agriculture-Energy Approach for Small-Scale Farmers in Tanzania  Investigation of the role of small mammals in the ransmission of Leptospirosis a zoonotic lisease in Lindi and Mtwara	Zoonotic Bacteria in Human and Animal Interfaces in Southern Lowlands  Agrivoltaic System as a Climate Smart Agriculture-Energy Approach for Small-Scale Farmers in Tanzania  Investigation of the role of Small mammals in the ransmission of Leptospirosis a zoonotic lisease in Lindi and Mtwara	Econotic Bacteria in Human and Animal Interfaces in Southern Lowlands  Agrivoltaic System as a Climate Smart Agriculture-Energy Approach for Small-Scale Farmers in Tanzania  Ecale Farmers in Tanzania  Envestigation of the role of small mammals in the ransmission of Leptospirosis a zoonotic lisease in Lindi and Mtwara  Entergy Baltazary  Ered Chibwana Jestina Katandukila Respicius Damian Victor Makene  B Kazimili Esther Mvungi Exavery Makula Lwitiko Mwakyusa Margaret Samiji Nuru Mlyuka Rajabu Mangara Talam Kibona  Amoni Ulime  Amoni Ulime  Florence Tarimo Kija Nghabi Leticia Musese Monica Shilereyo	Development Epidemiological Study of Zoonotic Bacteria in Human and Animal Interfaces in Southern Lowlands  Agrivoltaic System as a Climate Smart Agriculture- Energy Approach for Small- Scale Farmers in Tanzania  Development  Anitha Byabato Fred Chibwana Jestina Katandukila Respicius Damian Victor Makene  B Kazimili Esther Mvungi Exavery Makula Lwitiko Mwakyusa Margaret Samiji Nuru Mlyuka Rajabu Mangara Talam Kibona  Investigation of the role of Imall mammals in the	Epidemiological Study of Zoonotic Bacteria in Human and Animal Interfaces in Gouthern Lowlands  Agrivoltaic System as a Climate Smart Agriculture-Energy Approach for Small-Scale Farmers in Tanzania  Agrivoltaic Tanzania  Paul Limbu  B Kazimili Esther Mvungi Exavery Makula Lwitiko Mwakyusa Margaret Samiji Nuru Mlyuka Rajabu Mangara Talam Kibona  Nestigation of the role of Imalimammals in the ransmission of Leptospirosis a zoonotic lisease in Lindi and Mtwara  Angelamercy Anitha Byabato Cluster 2: Echucation, Agriculture, Food Security and Health  ConAS  ConAS	Epidemiological Study of Zoonotic Bacteria in Human and Animal Interfaces in Southern Lowlands  Agrivoltaic System as a Climate Smart Agriculture-Energy Approach for Small-Scale Farmers in Tanzania  Paul Limbu  B Kazimili  Esther Mvungi Exavery Makula Lwitiko Mwakyusa Margaret Samiji Nuru Mlyuka Rajabu Mangara Talam Kibona  Nestigation of the role of mall mammals in the ransmission of Leptospirosis a zoonotic lisease in Lindi and Mtwara  Angelamercy Anitha Byabato Fred Chibwana Jestina Katandukila Respicius Damian Victor Makene  B Kazimili  Cluster 2: Esther Mvungi Esther Mvungi Exavery Makula Lwitiko Mwakyusa Margaret Samiji Nuru Mlyuka Rajabu Mangara Talam Kibona  Amoni Ulime  Amoni Ulime  Amoni Ulime  Cluster 2: CoNAS  Education, Agriculture, Food Security and Health  Cluster 2: CoNAS  CoNAS  Physics  CoNAS  CoNAS  CoNAS  Zoology and Wildlife Conservation  Cluster 2: CoNAS  Agriculture, Food Security and Health	Development  Development  Development  Conotic Bacteria in Human and Animal Interfaces in Southern Lowlands  Agrivoltaic System as a Climate Smart Agriculture-Bacteria in Tanzania  Paul Limbu  B Kazimili  Esther Mvungi  Exavery Makula  Lwitiko Mwakyusa  Margaret Samiji  Nuru Mlyuka  Rajabu Mangara  Talam Kibona  Amoni Ulime  Amoni Ulime  Development  Cluster 2:  CoNAS  Education,  Agriculture,  Food Security  and Health  Cluster 2:  CoNAS  Physics  30,000,000  Education,  Agriculture,  Food Security  and Health  Cluster 2:  CoNAS  Physics  30,000,000  Cluster 3:  Education,  Agriculture,  Food Security  and Health  Cluster 2:  CoNAS  ConAS  Physics  30,000,000  Cluster 3:  Education,  Agriculture,  Food Security  and Health  Cluster 2:  CoNAS  ConA	Development  Development  Angelamercy Baltazary  Angelamercy Baltazary  Angelamercy Baltazary  Fred Chibwana Jestina Katandukila Respicius Damian Victor Makene  Paul Limbu  B Kazimili Esther Mvungi Exavery Makula Lwitiko Mwakyusa Margaret Samiji Nuru Mlyuka Rajabu Mangara Talam Kibona  Paul Limbu  B Kazimili Exavery Makula Lwitiko Mwakyusa Margaret Samiji Nuru Mlyuka Rajabu Mangara Talam Kibona  Amoni Ulime  Alex Mujuni Florence Tarimo Kija Nghabi Leptospirosis a zoonotic lisease in Lindi and Mtwara  Development  Cluster 2: CoNAS Education, Agriculture, Education Conservation  Food Security and Health  Conservation  77.40  Wildlife Conservation  77.40  Wildlife Conservation

24.	Evaluation of pharmacological potentials of polysaccharides and peptides extracted from native medicinal mushrooms found in Tanzania	Bhoke Nyaisaba	Cyprian Mpinda Esther Mvungi Rose Masalu	Cluster 2: Education, Agriculture, Food Security and Health	CoNAS	Molecular Biology and Biotechnology	30,000,000	77.33	Selected for Award
25.	Exploration of Potentials bioactivity of Mangrove Endophytic Fungi from Selected Tanzanian Mangroves Ecosystems for and Therapeutic Application	Juma Hussein	Donatha Tibuhwa Flora Stephano Hawa Myovela	Cluster 2: Education, Agriculture, Food Security and Health	CoNAS	Molecular Biology and Biotechnology	30,000,000	75.62	Selected for Award
26.	Investigation on Bioavailability of Iron from Rice Bran in Prevention of Iron-deficiency Anaemia	James Lugata	Chacha Nyamkinda Flora Stephano LILIAN Kaale Rose Masalu	Cluster 2: Education, Agriculture, Food Security and Health	CoNAS	Zoology and Wildlife Conservation	30,000,000	75.33	Selected for Award
27.	Control of A. flavus and A. parasiticus growth and subsequent Aflatoxin B1 production in maize and groundnuts by using microbial extracts as binder	Daniel Maeda	LILIAN Kaale	Cluster 2: Education, Agriculture, Food Security and Health	CoNAS	Molecular Biology and Biotechnology	30,000,000	72.83	Selected for Award

28.	Development of Antibiogram Regime for Inflammatory response Associated with Septicaemia in Patient Admitted in Tertiary Care Hospital	Modester Nkungu	Cyprian Mpinda Rose Masalu Abdilahi H. Kiula Sai Ngassa	Cluster 2: Education, Agriculture, Food Security and Health	CoNAS	Molecular Biology and Biotechnology	30,000,000	72.82	Selected for Award
29.	A Survey on the Impacts of Tungiasis on School Children's social life in Kigoma and Kagera Regions, Tanzania	Alex Mujuni	Alex Mujuni Chacha Nyamkinda Fred Chibwana Ignasia Mbatta Jestina Katandukila Lucius Mugisha	Cluster 2: Education, Agriculture, Food Security and Health	CoNAS	Zoology and Wildlife Conservation	29,900,000	71.81	Selected for Award
30.	Epidemiological Survey on plague a zoonotic disease among Rodents in East Usambara mountains, Morogoro Tanzania	Leticia Musese	Alex Mujuni Felista Mwingira Monica Shilereyo	Cluster 2: Education, Agriculture, Food Security and Health	CoNAS	Zoology and Wildlife Conservation	29,990,000	71.72	Selected for Award
31.	Valorization of marine beach wrack for production of value-added products, a circular bioeconomy approach.	Esther Mvungi	Daniel Mwaikambo Daniel Shilla Emmanuel Sangu Theresia Marijani	Cluster 6: Natural Resources, Environment and Technology	CoNAS	Botany	30,000,000	71.21	Selected for Award

32.	Investigation of agroforestry systems for enhanced biodiversity conservation and ecosystem services in Kagera (shortened as InvesTAFS)	Samora Andrew	Chacha Nyamkinda Leonia Raphael Joyceline David Gonsalves	Cluster 6: Natural Resources, Environment and Technology	CoNAS	Botany	30,000,000	71.05	Selected for Award
33.	Clean cooking for all: A novel application of Fresnel lens for a solar cooker	Exavery Makula	B Kazimili Lwitiko Mwakyusa M Mtelela Margaret Samiji Nuru Mlyuka Paul Limbu Rajabu Mangara Theresia Marijani	Cluster 6: Natural Resources, Environment and Technology	CoNAS	Physics	30,000,000	70.78	Selected for Award
34.	Efficacy of Neem Leaf and Aloe Vera gel Extracts on controlling of Colletotrichum species causing Anthracnose Disease in Avocado Fruits.	Daniel Mwaikambo	Chonga Nassoro Esther Mvungi Joyceline Gonslaves Stephen Nnungu Stoweka Sanga	Cluster 6: Natural Resources, Environment and Technology	CoNAS	Botany	27,805,000	69.95	Selected for Award
35.	The structure, diversity and function of gut microbiome in honeybees and stingless bees of Tanzania	Aneth Mwakilili	Christopher Mduda Masoud Muruke Namtero Newa Sylvester Lyantagaye	Cluster 6: Natural Resources, Environment and Technology	CoNAS	Molecular Biology and Biotechnology	29,570,000	65.37	Selected for Award

36.	Assessment of plant and fauna species diversity in Derema corridor, East Usambara Mountains, Tanzania	Mohamed Kibaja	Chacha Nyamkinda Christopher William Jasson John Mecklina Michael Monica Shilereyo Samora Andrew	Cluster 6: Natural Resources, Environment and Technology	CoNAS	Zoology and Wildlife Conservation	29,830,000	64.62	Selected for Award
37.	Diversity of marine microalgae and their bioactive metabolites for industrial applications	Aneth Mwakilili	Aneth Mwakilili James Lusana Sylvester Lyantagaye Dr. Vincent Rwehumbiza Dr. Stela Temu	Cluster 6: Natural Resources, Environment and Technology	CoNAS	Molecular Biology and Biotechnology	30,000,000	62.21	Selected for Award
38.	Implementation sustainability variation in youth-led crime control and prevention initiatives in informal settlements in Dar es Salaam: Exploring the drivers, impact, and acceptability	Respicius Damian	Ahimidiwe Munuo Estelia Alfred Mwambene	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	CoSS	Political Science and Public Administration	19,980,000	80.88	Selected for Award
39.	Business Intelligence Capabilities and Informed Marketing Decisions among Women-Owned Mining Enterprises in Tanzania	Pilly Silvano	Emmanuel Elia (COSS -UDSM)) Erasto Kabalo (COSS-UDSM)) Zacharia Gerald Mwakila (UDBS- UDSM)) Winnie Nguni	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	CoSS	Geography	20,000,000	77.88	Selected for Award

40.	Digitalization and Gender Based Violence n Tanzania	Verdiana Tilumanywa	Aklan Majaliwa Faustine Sambaiga Jonas Kinanda Victoria Makulilo Jerry Mangena	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	CoSS	Geography	20,000,000	74.48	Selected for Award
41.	Application of GIS and Remote Sensing in Enhancing Community Adaptive Capacity to Flood Disasters in Lower Rufiji Floodplain, Tanzania	Zahor Zahor	Evelyn Mcharo Johnstone Andrea Rosemarie Mwaipopo	Cluster 6: Natural Resources, Environment and Technology	CoSS	Geography	19,955,400	62.98	Selected for Award
42.	Women's Autonomy in Decision Making in Health Care Seeking: The Case of some selected Higher Learning Institutions in Tanzania.	Paul Japhet	Cecylia Mgombere Chakupewa Mpambije	Cluster 2: Education, Agriculture, Food Security and Health	IDS	IDS	20,000,000	59.19	Selected for Award
43.	Rural-Urban-Linkages: Exploring the Diversity of Household Livelihoods and Climate Change Resilience in Rural Tanzania.	Gelas Rubakula	Colman Msoka Sophia Mgoba Theresia Busagara	Cluster 3: Governance, Industrial Policy and Cleaner Production	IDS	IDS	20,000,000	67.70	Selected for Award

44.	Assessment of Vulnerability and Preparedness to Climate Related Hazards among Coastal Local Communities in Pangani, Tanzania	John Msinde	Esther Mvungi Heriel Moshi Samora Andrew Olipa Simon	Cluster 6: Natural Resources, Environment and Technology	IDS	IDS	26,000,000	73.93	Selected for Award
45.	Kamusi ya Uhandisi Madini na Nishati Kiingereza – Kiswahili	Michael Mashauri	Adventina Buberwa Edista Abdallah George Mrikaria	Cluster 5: History, Culture, Language, Heritage and Sustainable Tourism	IKS	TATAKI Kiswahili Language and Linguistics	20,000,000	67.25	Selected for Award
46.	40 Years Without Ujamaa Villages: Assessing their Legacy fCrom Ujamaa Villagers' Perspective	Angelus Mnenuka	Nives Ngullu	Cluster 5: History, Culture, Language, Heritage and Sustainable Tourism	IKS	TATAKI Literature, Communication and Publishing	18,280,000	66.95	Selected for Award
47.	Replenishment of Potential Marine Ecosystems for Artisanal Fishing in Tanzania	Barnabas Tarimo	Batuli Yahya Patric Ndaki Patric Ndaki	Cluster 2: Education, Agriculture, Food Security and Health	IMS	IMS	30,000,000	72.83	Selected for Award

48.	Geochemical	Rachael Sabuni	Emily Kiswaka	Cluster 3:	IMS	IMS	30,000,000	72.43	Selected for Award
	Characterization and		Evelyne Mbede	Governance,					
	Correlation of Oil Seeps:		John Gama	Industrial					
	Contributing to the Search		Habibu Mohamedi	Policy and					
	for Oil in the Coastal		Momboli	Cleaner					
	Tanzania			Production					
49.	Inclusion of Women	Kelefa Mwantimwa	Daham Mhilimai	Cluster 4:	T :1	UDSM Library	20,000,000	78.44	Selected for Award
49.	women-owned SMEs in	Kelela Wwalitiliwa	Debora Mbilinyi Mesia Ilomo	Gender,	Library	ODSM Library	20,000,000	/ 6.44	Selected for Award
			Mesia Homo	Professional					
	Innovation and Knowledge								
	Systems in Tanzania			Development,					
				Policy					
				Development					
				and Policy					
	D 6 : 4 : 6	E 13.611.1	0 1: 0 1	Implementation	T '1	TID GLATII	17.040.000	7475	0.1 . 10 . 4 . 1
50.	Re-framing the rise of	Emmanuel Mkhai	Sophia Seleman	Cluster 4:	Library	UDSM Library	17,840,000	74.75	Selected for Award
	Connections; a look at		Elias Mwabungulu	Gender,					
	internet-based non-			Professional					
	consensual sharing of			Development,					
	sexually explicit materials			Policy					
	through Internet			Development					
	Disinhibtion Effect lens			and Policy					
				Implementation					
51.	Characterization of HPV	Mkunde Chachage	Daniel Maeda	Cluster 2:	MCHAS	MCHAS	30,000,000	85.12	Selected for Award
	genotypes in Paired Urine		Brenda Bashekera	Education,					
	and Cervical swabs Among			Agriculture,					
	Women attending Cervical			Food Security					
	Cancer Screening clinic in			and Health					
	Tanzania.								

52.	Evaluating the usability of mHealth app on HIV prevention services in Tanzania	Christopher Mbotwa	Elia J Mmbaga Emmy Metta Elia Magwaja	Cluster 2: Education, Agriculture, Food Security and Health	MCHAS	MCHAS	30,000,000	77.87	Selected for Award
53.	Genetic Analysis of Cancer Predisposition Genes among the Hadza Ethnic Group of Tanzania	Linus Paul	Christopher Mbotwa Lucy Namkinga Fatmahan Atalar	Cluster 2: Education, Agriculture, Food Security and Health	MCHAS	MCHAS	30,000,000	77.72	Selected for Award
54.	Assessment of acceptability and drivers of COVID-19 vaccines among adults aged 18 years and above attending outpatient clinics in Mbeya rural district council	Bernard Ngowi	Christopher Mbotwa Mwajabu Possi	Cluster 2: Education, Agriculture, Food Security and Health	MCHAS	MCHAS	20,000,000	64.64	Selected for Award
55.	Tackling post-harvest losses in marine dagaa' fishery: A Blue growth hub to boost the livelihoods and food security of coastal communities in Tanzania	Lydia Gaspare	Daniel Shilla Innocensia John Siajali Pamba	Cluster 2: Education, Agriculture, Food Security and Health	SoAF	Aquatic Sciences and Fisheries Technology	30,000,000	80.77	Selected for Award

56.	Assessing the Relevance of Primary Schools' Curriculum on Environmental Education in Addressing Climate Change towards Achieving Tanzania's Development Vision 2025	Thaudensia Ndeskoi	Albert Chagula Aurelia Kimaro Noah Pauline	Cluster 2: Education, Agriculture, Food Security and Health	SoED	Educational Foundation Management and Lifelong Learning SoED (EFMLL-SoED)	20,000,000	70.56	Selected for Award
57.	Research Project Title: Addressing the Predicament of Poor Mathematics Teaching and Learning in Tanzania: Its Scope and Pedagogical Solutions Model (MATELE Solutions)	George Kahangwa	Fortunatha Mathias Matiba Morwo Likinjiye Mollel Said Athumani Sima Theresia Marijani	Cluster 2: Education, Agriculture, Food Security and Health	SoED	Educational Foundation Management and Lifelong Learning SoED (EFMLL-SoED)	20,000,000	62.06	Selected for Award
58.	Rethinking about subject Specialisation for Primary School Teachers in Tanzania: A road map to Quality Education relevant for 4th Industrial Revolution	Septimi Kitta	David Koloseni Silvester Rugeihyamu Zubeda Mussa Rose Kisusi	Cluster 2: Education, Agriculture, Food Security and Health	SoED	Educational Psychology and Curriculum Studies SoED (EPCS)	19,995,000	61.51	Selected for Award
59.	An Investigation on the Perceived Impact of Teacher Characteristics on Students Performance in Mathematics among ordinary Secondary School Students	Albert Tarmo	David Koloseni Septimi Kitta Silvester Rugeihyamu Zubeda Mussa	Cluster 2: Education, Agriculture, Food Security and Health	SoED	Educational Psychology and Curriculum Studies SoED (EPCS)	20,000,000	61.09	Selected for Award

60.	Are we doing it right? Examination of Gender Trans-formative Education Practices in Secondary Schools in Igunga District, Tabora Region.	Eugenia Kafanabo	Albert Chagula Sophia Mgoba	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	SoED	Educational Foundation Management and Lifelong Learning SoED (EFMLL-SoED)	19,986,000	72.62	Selected for Award
61.	Source Rock Evaluation of Rukwa Rift Basin, Sw Tanzania: Implication of Hydrocarbon Potential	John Gama	Evelyne Mbede Rachael Sabuni George Bernard	Cluster 1: Science, Technology and Innovation (STI), ICT and Industrial Development	SoMG	Petroleum Science and Engineering (PSE)	29,983,200	83.32	Selected for Award
62.	Hydrogeological Assessment of Groundwater Quality at Mzakwe Well- field, Dodoma Municipality, Tanzania	Simon Melchioly	Clarah Kimani	Cluster 6: Natural Resources, Environment and Technology	SoMG	Geosciences (GY)	30,000,000	66.13	Selected for Award
63.	Contract farming inclusiveness and its impact on the welfare of smallholder farmers of Vegetable in the Arusha Region in Tanzania	Judith Iddy	Ranger Kanani Victor Matabura	Cluster 2: Education, Agriculture, Food Security and Health	UDBS	General Management	19,955,000	65.10	Selected for Award

64.	"Strengthening rural women's innovative capacities to climate change	Mohamed Semkunde	Aloyce Hepelwa Jackson Sawe Nelly Maliva	Cluster 2: Education, Agriculture,	UDBS	Accounting (UDBS)	20,200,000	60.52	Selected for Award
	adaptation for sustainable rural agripreneurship in rice subsector in Tanzania"		Winnie Nguni	Food Security and Health					
65.	Social enterprising potentials in e-waste management: analysis of drivers and barriers among informal e- waste dealers in Tanzania	Juma Masele	Ruthbetha Kateule Hamisi Fintan	Cluster 3: Governance, Industrial Policy and Cleaner Production	UDBS	General Management	19,717,000	75.20	Selected for Award
66.	The Role of Governance Practices on Performance of Women's Village Community Banking	Omari Mbura	Selela Shadrack Mwakalila Swaumu Hassan	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	UDBS	Marketing	19,512,000	78.02	Selected for Award
67.	Assessing the Impact of Entrepreneurial Ecosystem on Graduates' Self- Employment in the Agricultural Sector in Tanzania	Tumsifu Thomas	Amelia Buriyo John Sanga Musa Shelembi	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	UDBS	General Management	20,026,000	75.15	Selected for Award

68.	Exploring Linkages between	Wilhelm	Innocensia John	Cluster 2:	UDSoEC	Economics	20,000,000	62.16	Selected for Award
	Household Food Production,	Ngasamiaku		Education,					
	Food Security, Nutrition and			Agriculture,					
	Health in Tanzania			Food Security					
				and Health					

#### **APPENDIX 2B:**

List of selected Research and Innovation Proposals Recommended for the Award of 5<sup>th</sup> UDSM Research and Innovation Grants 2022/2023 for Dar es Salaam University College of Education (DUCE)

#### UNIVERSITY OF DAR ES SALAAM

OFFICE OF THE DEPUTY VICE CHANCELLOR - RESEARCH

FIFTH CALL FOR COMPETITIVE RESEARCH PROPOSAL GRANTS

LIST OF SELECTED PROPOSALS FOR THE AWARD OF THE 5<sup>TH</sup> UDSM RESEARCH AND INNOVATION GRANT 2022/23 FOR DAR ES SALAAM UNIVERSITY COLLEGE OF EDUCATION (DUCE)

#### I. SELECTED INNOVATION PROPOSALS

S/N	PROJECT TITLE	PRINCIPAL INVESTIGATOR	TEAM MEN	MBERS	CLUSTER		COLLEGE	DEPARTMEN	ΙΤ	BUDGET	Final Score	Selection Decision
1	Development Of Poultry	James Zacharia	David	Kacholi	Cluster	1:	DUCE	Department	of	100,000,000.	51.67	Recommended for the
	Feed From Under-Utilized		Halima	Amir	Science,			Chemistry.		00		Award of Innovation
	Food Wastes: A Strategic		Rita Lyatuu		Technology a	nd						and Commercialization
	Step Towards Value Added				Innovation							Grant to reduce budget
	Food Wastes And Improved				(STI), ICT a	nd						Shs. 196 million to Shs.
	Public Health In Tanzanian				Industrial							100 million
	Cities				Development							

#### II. SELECTED RESEARCH PROPOSALS

S/N	PROJECT TITLE	PRINCIPAL INVESTIGATOR	TEAM MEMBERS	CLUSTER	COLLEGE	DEPARTMENT	BUDGET	Final Score	Selection Decision
1	Computational Investigation	Sixberth Mlowe	Ebenezer Ngowi	Cluster 1:	DUCE	Chemistry DUCE	24,402,000	82.17	Recommended for the
	of Structural, Vibrational and		Fortunatus Jacob	Science,					Award of
	Thermodynamic Properties		Geradius Deogratias	Technology and					Multidisciplinary
	of K2MgX4 and K2AlX5 (X		Grace Kinunda	Innovation					Research Grant based
	= F, Cl, Br, I) Supersalts		James Mgaya	(STI), ICT and					on high score and
			Lucas Luchemba	Industrial					available fund in the
			Silvia Mushi	Development					respective cluster

Award Multidisciplinary Research Grant on high score available fund respective cluster 75.59 Recommended f Award Multidisciplinary	Grant based score and fund in the cluster aded for the
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66.36 Recommended f	
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	on high available respective of 6.36 Recommer Award Multidiscip Research on high available respective Award Multidiscip Research on high available respective on high available available respective on high available

6	Parenting in the Digital Age:	Cresencia Massawe	Hezron Onditi	Cluster 4:	DUCE	History, Political	20,000,000	81.37	Recommended for the
	Experiences from Tanzania		Salmin Singano	Gender,		Science and			Award of
	(Cyberparentproject_Tz)		Issakwisa Mwakyula	Professional		Development			Multidisciplinary
			•	Development,		Studies DUCE			Research Grant based
				Policy					on high score and
				Development					available fund in the
				and Policy					respective cluster
				Implementation					
7	Experience and Perception of	Ikupa Moses	Cresencia Masawe	Cluster 4:	DUCE	NULL	15,000,000	76.10	Recommended for the
	Sexual Harassment among		Hezron Onditi	Gender,					Award of
	DUCE Students		Ibrahimu kisinda	Professional					Multidisciplinary
			Neema Komba	Development,					Research Grant based
				Policy					on high score and
				Development					available fund in the
				and Policy					respective cluster
				Implementation					
8	An Ethno-Linguistic Survey	Kuria Mdoe	Amani	Cluster 5:	DUCE	Languages and	20,000,000	77.00	Recommended for the
	of Datooga Plant Names and		Mwamakombe	History,		Literature DUCE			Award of
	their Usage in Treatment of		Halima Amir	Culture,		(LL)			Multidisciplinary
	Human and Cattle Diseases			Language,					Research Grant based
				Heritage and					on high score and
				Sustainable					available fund in the
				Tourism					respective cluster
9	Integrated GIS and Remote	Evelyn Mcharo	Zahor Zahor	Cluster 6:	DUCE	Geography and	19,995,400	66.70	Recommended for the
	Sensing Technology for		Daniel Sabai	Natural		Economics			Award of
	Modelling the		Johnstone Andrea	Resources,		DUCE (GE)			Multidisciplinary
	Potential Groundwater			Environment					Research Grant based
	zones and Optimum Location			and Technology					on high score and
	for Water Supply Tanks in								available fund in the
	reducing water stress in Dar								respective cluster
	es Salaam								

#### **APPENDIX 2C:**

List of selected Research and Innovation Proposals Recommended for the Award of 5<sup>th</sup> UDSM Research and Innovation Grants 2021/2022 for Mkwawa University College of Education (MUCE)

#### UNIVERSITY OF DAR ES SALAAM

OFFICE OF THE DEPUTY VICE CHANCELLOR – RESEARCH FIFTH CALL FOR COMPETITIVE RESEARCH PROPOSAL GRANTS

LIST OF SELECTED PROPOSALS FOR THE AWARD OF THE 5<sup>TH</sup> UDSM RESEARCH AND INNOVATION GRANT 2022/23 FOR MKWAWA UNIVERSITY COLLEGE OF EDUCATION (MUCE)

#### I. SELECTED INNOVATION PROPOSALS

S/N	PROJECT TITLE	PRINCIPAL INVESTIGATOR	TEAM MEMBERS	CLUSTER	COLLEGE	DEPARTMENT	BUDGET	Final Score	Selection Decision
1	Compositing of disposable diapers: Empowering women on management of Disposable Diapers for economic and environmental health improvement	Shakila Mteti	Ashura Ngoya Chakupewa Mpambije Lewis Mtashobya Pasiens Nazary Nyoni	Natural Resources, Environment	MUCE	History, Political Science and Development Studies MUCE	85,000,000.	51.67	Selected for Award

#### I. SELECTED RESEARCH PROPOSALS

S/N	PROJECT TITLE	PRINCIPAL INVESTIGATOR	TEAM MEMBERS	CLUSTER	COLLEGE	DEPARTMENT	BUDGET	Final Score	Selected for Award

1	Effectiveness of Pesticidal Plants in Reducing Pre and Post-harvest losses in Stored Maize: A case study of Songea Rural District, Ruvuma	Washa Washa	Saada Mbepera Shaabani A. Mshamu	Cluster 1: Science, Technology and Innovation (STI), ICT and Industrial Development	MUCE	N/A	30,000,000	77.40	Selected for Award
2	Promoting Mathematics Teachers' Understanding and Implementation of Jigsaw Strategy in Teaching and Learning of Mathematics in Tanzania	Chacha Chacha	Mariana Manyusi Mhewa	Cluster 2: Education, Agriculture, Food Security and Health	MUCE	Physics, Mathematics and Informatics MUCE	20,000,000	65.92	Selected for Award
3	Predicting and Understanding Excessive Use of Alcohol Using Machine Learning Algorithms: Case of Rombo District in Kilimanjaro	Ubaya Msemwa	Joyce Kalistus Ndauka Livini Donath Tesha	Cluster 2: Education, Agriculture, Food Security and Health	MUCE	N/A	30,000,000	52.50	Selected for Award
4	Biogas generation from fish wastes as energy source in enhancing resource recovery for environmental conservation	Jovine Emmanuel	Flaviana Ngabala Godlisten Shao Lewis Mtashobya Jonas Gervas Philimon Nganyira	Cluster 3: Governance, Industrial Policy and Cleaner Production	MUCE	Chemistry MUCE	30,000,000	76.33	Selected for Award

5	Land Use Conflicts in tree planting surge: Manifestation and Mechanisms for Conflict Resolution in the Southern Highlands of Tanzania	Sospeter Charles	Esther Dungumaro Justin Lusasi	Cluster 3: Governance, Industrial Policy and Cleaner Production	MUCE	Geography and Economics MUCE (GE)	20,000,000	63.57	Selected for Award
6	Enhancing the Use of ICT among Mathematics Teachers to Improve Students' Academic Performance in Tanzanian Secondary Schools	Willy Kasuga	Chacha Chacha Doris Mosha Hassan Iddy Upendo Jeremia	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	MUCE	N/A	20,000,000	84.28	Selected for Award
7	Gender and Perceptions of Legitimacy and Inheritance: A Comparison between Matrilineal and Patrilineal Societies in Tanzania	Helena Myeya	Livini Tesha Michael Mgonja	Cluster 4: Gender, Professional Development, Policy Development and Policy Implementation	MUCE	Geography and Economics MUCE (GE)	15,000,000	68.41	Selected for Award
8	Promoting Endogenous Knowledge through Oral tales in Tanzania Primary Schools: A Case of Sangu People in Mbarali District	Michael Kalenge	Selina Thomas Mkimbili	Cluster 5: History, Culture, Language, Heritage and Sustainable Tourism	MUCE	N/A	20,000,000	69.87	Selected for Award

9	Reconstructing Ecological Footprints of Diverse Human Activities in the Western Serengeti Ecosystem over the Last 500 Years	Titus Ombori	Sinyati Robinson Mark	Cluster 6: Natural Resources, Environment and Technology	N/A	30,000,000	64.51	Selected for Award
10	Climate Change and Food Security Nexus in Tanzania: Enhancing Smallholder Farmers' Adaptation Strategies for Improving Household Crop Production in Dodoma Region	Tiemo Haule	Chakupewa Mpambije Masolwa Pima	Cluster 6: Natural Resources, Environment and Technology	Geography and Economics MUCE (GE)	20,000,000	64.32	Selected for Award
11	Enhancing modern beekeeping practices to increase productivity and income among beekeepers in Uyui and Sikonge Districts of Tabora region Western Tanzania	Michael Mgalula	Amos Majule	Cluster 6: Natural Resources, Environment and Technology	Geography and Economics MUCE (GE)	30,000,000	58.45	Selected for Award