Project Information

Webpage:

https://www.nuneterasmus.eu/

Contact us

Partner Institution	Contact Person / Email Address
NTNU	ole.j.nydal@ntnu.no
USGM	s.cella@unimarconi.it
MAK	karidewa@gmail.com
AAU	abdulkadir.aman@aait.edu.et
UDSM	kihedu@udsm.ac.tz
MU	mulu.bayray@mu.edu.et
UEM	boaventura.cuamba@gmail.com
UDOM	william.nshama@gmail.com
BU	rsammy@eng.busitema.ac.ug
UNISAVE	nhabetse@hotmail.com



First project meeting hosted by UDSM in Tanzania, between 30th August and 2nd September 2021

Acknowledgements

Partner institutions and project teams in the partner countries would like to sincerely acknowledge the Erasmus+ of the European Union for co-founding the UNET project. The support is timely and instrumental in setting up taught PhD programs in Energy Technology for enhancement of human capacity in teaching and research in the energy field among the collaborating partner universities.

Program partner and Co-ordinator



NTNU Norwegian University of Science and Technology

Program partner Quality assurance



Università degli Studi Guglielmo Marconi

Curriculum partners









UNIVERSIDADE EDUARDO MONDLANE





Training partners









Co-funded by the Erasmus+ Programme of the European Union

EU Erasmus+ UNET Project

University Network on PhD Program in Energy Technology (UNET), is a project focused in development of taught PhD courses and improved laboratory capacities in the energy technology fields among partner universities.

The project supports partner universities to migrate from purely research-based PhD programs towards taught based PhD programs with mandatory coursework, similar to EU standards.

The project aims at improving the quality of the PhD programs and promote sustainable collaboration between the partner universities in this area.

Expected Project outcomes

Course Catalogue

- ⇒ Course descriptions
- \Rightarrow Teaching materials

Training Nodes

- ⇒ Laboratory equipment
- ⇒ Strength in research areas



Second project meeting held at Arusha between 29th November and 1st December 2021



Course Catalogue

The catalogue include a total of 17 courses to be developed by a consortium of partner universities. A total of 35 participants from different partner countries will be involved in course development.

Curriculum partners take the leading role in development of courses. Training partners participate in the implementation and Programme partners will offer expert support in course development.

	Course	Number of
Partner Institution	Lead-	Partici-
	ing	pants
Norwegian University of		
Science and Technolo-		
gy		
Università degli Studi		
Makerere University	3	7
Addis Ababa University	4	7
University of	3	9
Dar es Salaam	3	7
Mekelle University	4	4
Eduardo Mondlane	3	3
University	3	S
University of Dodoma		2
Busitema University		1
Universidade Save		2

Application of the Courses

Developed course catalogue may serve as a pool of courses from which partner universities can utilize to establish or update taught PhD programs in energy technology related fields.

	_	of the European Union
Lead Partner	Course Name	Coordinator
Makerere University (MAK)	Energy Storage	John Baptist Kirabira
	Solar Thermal Technology	Denis Okello
	Heat and Mass Transfer	Karidewa Nyeinga
Addis Ababa University (AAU)	Wind Turbine Rotor Design	Abdulkadir Aman
	Energy Modeling and Optimization	Demiss Alemu
	Computational Fluid Dynamics and Heat Transfer	Demiss Alemu
	Advanced Power Generation	Abdulkadir Aman
University of Dar es Salaam (UDSM)	Pumps and Hydro Turbines	Cuthbert Kimambo
	Process Control and Instrumentation	Abraham Temu
	Numerical and Computational Methods	Joseph Kihedu
Mekelle University (MU)	Wind Turbine Design	Mulu Bayray
	Aerodynamics	Mulu Bayray
	Numerical Optimal Control	Gebermi- chael Team
	Experimental Methods	Asfafaw Haileselasie
Eduardo Mondlane University (UEM)	PV Technologies	Boaventura Cuamba
	Bioenergy	Alberto Tsamba
	Advanced Statistics and Methods of Data Analysis	Rogerio Uthui

Training Nodes

Partner universities have strong needs for extending and improving research facilities. The project approach is to develop specific area of research capacity among curriculum partners through acquiring of modern laboratory equipment. As scientific equipment can be rather expensive, desirable research capacity may not be achieved at the expected standards and extents for each partner. Thus, shared access to 'Training Node" refers to research specialization among the partners envisaged to be a cost effective approach. This approach will also promote future research collaboration among project

Partner Institution	Training Node	Research Focus
Makerere University	Solar Thermal Energy	Solar Thermal, Gasification, Heat storage
Addis Ababa University	Computational Methods	Computational Methods, Thermal Systems, Wind Energy
University of Dar es Salaam	Hydropower	Small Hydropower, Solar Thermal, Adsorption Refrigeration
Mekelle University	Wind Power	Wind Energy, Solar Thermal
Eduardo Mondlane University	Photovoltaics	Photovoltaics, Solar Thermal