

## UNET Workshop 2

### University Network on PhD Programs in Energy Technology

**Time:** 30 August - 1 September, 2021  
**Place:** Arusha, Tanzania  
**Organizer:** University of Dar es Salaam (UDSM)  
**Host:** Arusha Technical College (ATC)

**Notes:** Ole Jorgen Nydal (NTNU)

#### Workshop 2

This UNET workshop concludes Work Package 1 (WP1): "Common framework for Curriculum and Training Nodes" and initiates WP2 "Curriculum Development" and WP3 "Development of Training Nodes".

The UNET workshop is held in conjunction with a Norhed project status meeting: "Energy Technology Network, ENET". UNET concerns PhD curriculum and training facilities, ENET concerns research. UNET and ENET includes many of the same partner universities.

The Workshop was originally planned for NTNU, but with entry limitations (due to the pandemic) to Norway, it was shifted to Addis Ababa. With escalation of the political situation in Ethiopia, the most convenient place for all was in Tanzania, Arusha.

#### Agenda

| Time         | Chair    |   |
|--------------|----------|---|
| <b>Day 1</b> |          | <b>Course Catalogues</b>  |
| 09:00        | ATC      | <b>Welcome</b>  |
| Morning      | AAU      | Introduction on status  |
|              | UDSM     | <i>Presentation of Course Catalogue from WP1</i>  |
|              |          | <i>Working Groups:<br/>Development of course description and specification of course material</i> |
| Lunch        | ATC      |   |
| Afternoon    | AAU      | <i>Reports from the Course Coordinators</i>   |
| <b>Day 2</b> |          | <b>Training Nodes: Equipment and GA Annual Meeting</b>  |
| Morning      | MAK      | Introduction on status  |
|              | UDSM     | <i>Presentation on Plan for Training Nodes from WP1</i>   |
|              | Partners | <i>Equipment for procurement on each Training Node</i>  |
|              | MAK      | <i>Summary on each Training Node and way forward</i>  |
| Lunch        | ATC      |   |
| Afternoon    | NTNU     | <i>General Assembly (all partners) Annual Meeting</i>   |
|              |          | <i>Review of the Work Packages (WP Leads)</i>   |
|              |          | <i>QA Review: (WP5 Lead)</i>  |
|              |          | <i>NTNU: Review of the Work Plan.</i>   |

## **Course Catalogue**

The participants went through the Course Catalogue and filled in the remaining gaps. A template for the course description is provided by AAU, with a CFD course as an example. Each course coordinator will complete the course descriptions in coordination with the Working Groups for each course.

## **Equipment list for the Training Nodes**

A tentative list for each partner university is prepared. Discussions between the partners were useful as some equipment is of common needs (some instrumentation and data logging systems).

Two particular procurement challenges were noted.

**1)** Suppliers require payment before shipping and buyers require receiving goods before payment.  
Solution (ref. UDSM): A letter of credit can be issued from the Director of Finance. This is sufficient for the supplier.

### **2) Tax waivers**

This should be in agreements with established with suppliers. If it is not, it can still be done, but may take more time.

Solution: Tax exemption to be requested when ordering goods. Local companies can also be used for international procurements.

## **Further work and actions noted**

WP1 Lead (UDSM) finalizes the preparational documents from WP1 (Course Catalogue and Training Nodes) and forwards to WP5 (USGM) Lead for assessments of the Internal Evaluation Board

WP2 Lead (AAU) will communicate with each course coordinator to arrive at a complete assembly of the course descriptions. The further progress will be towards detailing the course material and delivery modes.

Make separate folders on Teams for each course.

WP3 Lead (MAK) will communicate with WP5 Lead and each Training Node in order to initiate the procurements of the training equipment as soon as possible.

A list of suppliers will be established and posted on Teams.

UDSM is asked to provide advice on procedures to all regarding the Letter of Credit and the Tax exemption procedures.



### Attendance

Due to the pandemics, it was uncertain ahead of the Workshop how many could join physically. On-line participation was attempted, but proved to be inefficient.



UNET Workshop2 group in Arusha, Tanzania 20 November and 1 December 2021

Joseph: please paste attendance lists