Course: Research Methodology & Skills — credits: 5

Course code	SUVM23RMS
Name	Research Methodology & Skills
Study year	2025-2026
ECTS credits	5
Language	English
Coordinator	E. Vos
Modes of delivery	Teaching method 1
Assessments	Professional Skills - Assignment Research Report & Presentation - Other assessment

Learning outcomes

Objective of the Module:

At the end of the module the student is able to:

1. Communicate effectively both orally and written form at professional level to different target groups
2. Apply analytical and research methodologies effectively in assignments and case based projects
3. Apply project management skills while participating in an international and multidisciplinary team environment in different roles (e.g. project leader, project member)

Content

Reflective practitioner and transferable skills

A reflective practitioner is a professional with the ability to use transferable skills, see figure below.

Reflective practice is a way of improving individual and organizational effectiveness. Reflective practice consists of “mindful consideration of one’s actions” (Osterman, 1990) in which the reasons and assumptions that drive one’s behavior are thoughtfully reflected on in the interest of improving one’s professional effectiveness. Preferably, appropriate scientific theories are also part of the reflection. Thought and action are thus integrated through reflection. Osterman describes the process as a “challenging, focused, and critical assessment of one’s behavior as a means toward the development of one’s “craftsmanship”. The student will develop learning skills to allow autonomous learning and develop research skills to define and execute a small research project with the intention to act as a capstone assignment of the Core. The capstone assignment is focused on technical, economical, business and social aspects of the transition of a community to a sustainable community based on knowledge and understanding acquired in the previous modules of the CORE program.

Included in programme(s)

European Master in Sustainable Energy System Management

School(s)

Institute of Engineering

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