

Technical University of Denmark



**UDTU**

**Education in University Teaching at DTU**

Uddannelse i universitetspædagogik på DTU

May 2018

LearningLab DTU

## Education in University Teaching at DTU – UDTU

UDTU is a practical education in teaching and learning at university level. It is a mandatory part of the educational introduction of new faculty members at DTU. In order to be responsible for a course at DTU you must participate in UDTU or equivalent training programme. The emphasis in UDTU is on topics that are important for designing, implementing, evaluating, and understanding teaching and assessment with focus on student learning in general, and in Engineering Education in particular.

### UDTU objectives

The overall objective of UDTU is to qualify you to conduct teaching at university level professionally by developing your knowledge about teaching and learning and your methods and tools. UDTU also prepares you for continually developing your teaching practice and your understanding of student learning. UDTU prepares you to take full responsibility for courses. UDTU is based on the principles of active learning and action research and you will learn about university teaching by working with the development of your own teaching practice.

After UDTU you are supposed to be able to

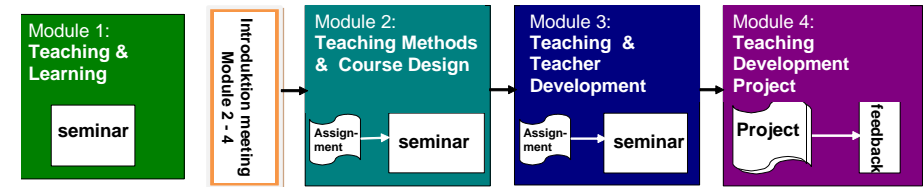
- Explain the most important prerequisites for student learning in Higher Education
- Set up learning objectives for a course in order to support the development of engineering disciplinary knowledge and competencies
- Identify core elements in a course curriculum related to the learning objectives
- Design a course with teaching and assessment methods that support students' deep approach to learning and match the level of the learning objectives
- Test students' pre-knowledge and learning outcome in a course
- Analyse and critically evaluate the impact of a course design on student learning
- Generate new ideas of how to develop and improve teaching by using evaluations of own teaching practice
- Use methods to continually develop your understanding of teaching and learning.

### UDTU structure and main topics

UDTU consists of a sequence of four modules plus a supplementary activity corresponding to a one-day's activity. The modules must be followed in the mentioned order:

#### Module 1: Teaching and Learning

- 4-day seminar. *Main topic:* Teaching exercises focusing on shorter lessons



#### Module 2: Teaching Methods and Course Design

- pre-assignment and a 2 ½-day residential seminar

*Main topics:* Student learning – Engineering competencies – Constructive alignment – Teaching and assessment methods – Course design.

#### Module 3: Teaching and Teacher Development

- pre-assignment and a 3 day seminar

*Main topics:* Test of students' knowledge and understanding – Learning environments – Teaching portfolio – Innovative competencies – Colleague supervision and coaching methods

#### Module 4: Teaching Development Project

- project assignment

*Main topics:* Design, implementation, analysis, and evaluation of own teaching with focus on student learning.

**Supplemental activity:** One day's activity within the field of university education proposed by you and approved by LearningLab DTU.

After having accomplished all UDTU tasks, you will receive a diploma including a written assessment based on your work in Module 4.

#### Practical information

The duration of the education is 1-1½ years. The total estimated workload is 250 hours. It is important for your outcome that sufficient time is allocated, and that you have relevant teaching tasks for the project in Module 4.

UDTU is held in English. The fee for Module 2-4 is DKK 25.500, and for Module 1 DKK 5.500. The price includes seminars, teaching materials, and feedback during the project in Module 4. Meals during seminars, accommodation during the residential seminar and course administration are also included in the fee.

Information on dates, registration, fees, and contact persons is available on <http://www.llab.dtu.dk/>.