

## PRACTICAL INFORMATION

### Admission

Application form can be downloaded at: <http://www.mpbl.aau.dk>

Required documentation of educational and professional background:

- Copy of diploma
- Documentation of relevant work experiences
- A brief statement of motivation for this application
- Curriculum Vitae

The MPBL is offered once a year. For next start date, see: <http://www.mpbl.aau.dk>

### Tuition

The tuition fee covers staff and examination expenses. Literature expenses are not included.

### Contact

Questions concerning admission:

Aalborg University  
Secretariat for Continuing Education  
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Phone: +45 9940 9420  
or visit the website: <http://en.evu.aau.dk/>

Questions concerning professional contents:

Jette Egelund Holgaard, Associate Professor, [jeh@plan.aau.dk](mailto:jeh@plan.aau.dk)  
Anette Kolmos, UNESCO Chair [ak@plan.aau.dk](mailto:ak@plan.aau.dk)  
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# Master in Problem Based Learning in Engineering and Science - a Staff Development Programme



## INTRODUCTION

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### Programme Description and Objectives

Master in Problem-Based Learning (MPBL) is a fully online and highly interactive study programme for academic staff who have interests in PBL. The objective of the programme is to facilitate participants with knowledge and skills of innovative teaching, educational experiments and curriculum transformations in engineering and science educational institutions. This learning objective will be reached through problem-based and project-based team work.

### Target groups

Target groups for MPBL programme are:

- Academic staff from engineering and science educational institutions that are in the process of changing to a student-centred pedagogy or individual staff who have interested in innovative pedagogy
- Managers
- Educational consultants
- Others interested in learning about PBL

### Duration

The MPBL programme is a part-time programme (60 ECTS). It allows the participants to combine the study with a full-time job.

### Form

There are two types of study activities: Project work and courses. The project work, which is the most essential element in the MPBL programme, may involve: project work individually or in teams, portfolio work, work-based learning activities, and thesis work. Courses may be arranged in various ways, such as seminars or study groups.

The MPBL programme uses technology-based meeting facilities such as Skype and Adobe Connect. Different learning resources such as discussions, readings materials, teamwork, status seminars, peer learning and assessment will be facilitated online.

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### Entrance requirements

All applicants are required to have:

- A relevant bachelor's degree
- A minimum of two years of teaching experiences or similar relevant work experiences
- Written and oral mastery of English, this requirement is important due to the teamwork in the programme
- IT-skills and relevant equipments

Applicants are also expected to have:

- experiences in using a net-based computer and navigating in a www environment
- access to a computer with a reliable Internet connection, a web camera and a headset

For details, see: [www.mpbl.aau.dk](http://www.mpbl.aau.dk)

### Program overview

#### Module 1

Theme: Development of Teaching Competences

Project: Teaching Portfolio. The unit consists of preparing a personal teaching portfolio

Course:

- Teaching and Learning in engineering and science

#### Module 2

Theme: Planning and designing a PBL based educational experiment

Project: PBL experiments

The project work is carried out in teams.

Courses:

- PBL-models and change strategies
- Project Facilitation and Process Competences

Module 2 is also offered as a single subject course in the form of a one-year programme.

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### Module 3

Master thesis

Project: Researching and designing PBL

The Master Thesis is completed individually or in teams.

Course:

- Theory and methods in educational research
- Optional course: PBL and sustainability, PBL and intercultural learning or PBL and management

