

## COURSE DETAIL

### APPLIED MACHINE LEARNING IN ENGINEERING

**Country**

Germany

**Host Institution**

Technical University Berlin

**Program(s)**

Technical University Berlin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

110

**UCEAP Course Suffix**

D

**UCEAP Official Title**

APPLIED MACHINE LEARNING IN ENGINEERING

**UCEAP Transcript Title**

APP MACHINE LEARN

**UCEAP Quarter Units**

5.50

**UCEAP Semester Units**

3.70

### **Course Description**

All engineering disciplines today employ machine learning for monitoring systems and fault detection, for data-based decision support as well as for leveraging new potentials in the environment of big data. This module teaches the fundamentals of standard machine learning techniques as well as their implementation using standard libraries in the Python programming language based on real-world engineering examples. It focuses on the complete data science process from data exploration over modeling to inference and production.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

#51049 / #4

### **Host Institution Course Title**

APPLIED MACHINE LEARNING IN ENGINEERING

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Institut für Maschinenkonstruktion und Systemtechnik

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