

# COURSE DETAIL

## PATTERN RECOGNITION

**Country**

Netherlands

**Host Institution**

Utrecht University

**Program(s)**

Utrecht University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

107

**UCEAP Course Suffix****UCEAP Official Title**

PATTERN RECOGNITION

**UCEAP Transcript Title**

PATTERN RECOGNITION

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

**Course Description**

This course studies statistical pattern recognition and machine learning. The subjects covered are: general principles of data analysis; over fitting, the bias-variance trade-off, model selection, regularization, the curse of dimensionality; linear statistical models for regression and classification; clustering and unsupervised learning; support vector machines; neural networks and deep learning. Prerequisites include knowledge of elementary probability theory, statistics, multi variable calculus, and linear algebra. This is an advanced level course.

**Language(s) of Instruction**

English

**Host Institution Course Number**

INFOMPR

**Host Institution Course Title**

PATTERN RECOGNITION

**Host Institution Course Details****Host Institution Campus**

Science

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Information and Computing Sciences

**Course Last Reviewed**

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