# COURSE DETAIL

| INTRODUCTION TO ARTIFICIAL NEURAL NETWORKS AND DEEP LEARNING |
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| **Country**<br>Sweden |
| **Host Institution**<br>Lund University |
| **Program(s)**<br>Lund University |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Physics Mathematics Computer Science |
| **UCEAP Course Number**<br>113 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>INTRODUCTION TO ARTIFICIAL NEURAL NETWORKS AND DEEP LEARNING |
| **UCEAP Transcript Title**<br>ARTFCL NEURL NETWRK |
| **UCEAP Quarter Units**<br>6.00 |
| **UCEAP Semester Units** |

4.00

**Course Description**

This course provides an introduction to artificial neural networks and deep learning, with both theoretical and practical aspects. This course gives a basic knowledge of artificial neural networks and deep learning: both the theoretical background and how to practically use these methods for typical problems in machine learning and data mining. The course covers the most common models in artificial neural networks, with a focus on the multi-layer perceptron. The course contains three computer exercises where the student train and evaluate different ANN models.

**Language(s) of Instruction**
English

**Host Institution Course Number**
BERN04

**Host Institution Course Title**
INTRODUCTION TO ARTIFICIAL NEURAL NETWORKS AND DEEP LEARNING

**Host Institution Course Details**
https://www.cec.lu.se/education/undergraduate-advanced-studies/computational-sc...

**Host Institution Campus**
Lund

**Host Institution Faculty**
Science

**Host Institution Degree**

**Host Institution Department**

**Course Last Reviewed**
2025-2026

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