



## Deep Learning and Neural Networks (SE-041)

(SÜVAÕPE JA NÄRVIVÕRGUD)

### SUBJECT DESCRIPTION

<b>Credits (ECTS)</b>	4.00 ECTS
<b>Assessment</b>	grading
<b>Aim of the subject and short description</b>	
This course covers deep learning techniques, including neural network architectures such as CNNs, RNNs, and Transformers. Students will gain hands-on experience using TensorFlow and PyTorch to build AI models.	
<b>Learning outcomes:</b>	
Student: <ul style="list-style-type: none"><li>1. understand the structure and function of neural networks;</li><li>2. apply deep learning models for image and text processing;</li><li>3. train and optimize deep learning models using TensorFlow or PyTorch;</li><li>4. analyze the impact and limitations of deep learning models.</li></ul>	

