

	Special Topics in Machine Learning
Description	<ul style="list-style-type: none"> ● Deep learning and Natural Language Processing (NLP) - training various types and architectures of neural networks. ● Language models, vector representations of words. ● Recursive neural networks. ● Models of long-term memory. ● Convolutional neural networks and models that include attention mechanisms ● Machine learning applications in image analysis and text annotation.
Learning Outcomes	<p>After the course the student will be able to</p> <ul style="list-style-type: none"> ● apply and use deep learning tools with neural networks to natural language processing, image analysis and text annotation problems ● understand various types of neural networks and their potential applications in deep learning architectures