Code	**ECE 560**
Name	**Neural Networks**
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / anytime
Semester	Fall - Spring
Type	Elective
Prerequisites	-
Content	This course provides an introduction to neural networks. It covers single and multi-layer networks, backpropagation algorithm, network training algorithms, regularization, Bayesian neural networks, self organizing maps and extreme learning machine. The course also provides applications of neural networks for classification, regression, clustering and feature selection. Methods will be implemented by a neural network software and applied on various machine learning problems.