Code	**ECE 562**
Name	**Machine Learning**
Hour per week	3 + 0 (Theory + Practice)
Credit	3
ECTS	10
Level/Year	Graduate / 1, 2, 3, 4
Semester	Fall, Spring
Type	Elective
Prerequisites	Introduction to Computer Programming, Probability and Statistics, Linear Algebra
Content	The course provides a broad introduction to the techniques that enable computers to learn from and make predictions on data. Fundamental learning methods will be covered including classification, regression, linear models, neural networks, support vector machines, dimension reduction, ensembles, and advanced learning techniques. Methods will be implemented by a machine learning software and applied on various learning problems.