

Code	ECE640
Name	Neural Engineering
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / anytime
Semester	Spring
Type	Elective
Prerequisites	-
Content	Fundamentals of neuroanatomy, basic neuroelectrophysiology, modeling of electrical activity on neural membranes (action potential), action potential propagation on a neuron and between neurons. Anatomical and functional imaging of brain and neural system. Technologies used in the diagnosis and treatment of brain and neural system diseases. Eye, vision and related diseases, technologies used in diagnosis and treatment of neural diseases of this organ. Ear, audition and related diseases, technologies used in diagnosis and treatment of neural diseases on this organ.