COURSE DETAIL

NEUROENGINEERING
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Bioengineering
UCEAP Course Number 117
UCEAP Course Suffix
UCEAP Official Title NEUROENGINEERING
UCEAP Transcript Title NEUROENGINEERING
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course gives a broad overview of neural engineering concepts and principles for recording outgoing and generating ingoing neural signals. The course gives insights into existing and future neural interfaces, neural prostheses, and neurorobotics. It covers principles and technologies of neuroengineering applications, including basic human neuroanatomy and physiology, brain stimulator, spinal cord stimulation, functional electrical stimulation (FES), neural-machine interface for motor prosthesis control, artificial vision, and auditory devices for augmented sensory perception.

Language(s) of Instruction
English

Host Institution Course Number
BMEF20

Host Institution Course Title
NEUROENGINEERING

Host Institution Course Details
https://kurser.lth.se/kursplaner/21_22%20eng/BMEF20.html

Host Institution Campus

Host Institution Faculty
Faculty of Engineering

Host Institution Degree

Host Institution Department
Biomedical Engineering

Course Last Reviewed
2021-2022

Print