Neural Engineering

Prerequisite Course (درس جبرانی):
- Mathematics for neuroscience*
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Statistics and Learning Courses
- Causal inference*
- Estimation theory and optimal filters
- Machine learning / Pattern recognition
- Time series analysis**

Signal and Image Processing Courses
- Computer vision (Equivalent courses: Digital image processing / Medical image processing)
- Biological signal processing
- Time frequency analysis
- Adaptive filters
- Speech processing

Neuroscience Courses
- Current topics in system and behavioral neuroscience*
- Neuroscience of learning, memory, cognition
- Systems biology

Technology Courses
- Neurotechnology**
- Advanced biosensors**
- Advanced bioelectronics**
- Fabrication technology