

Code	EE543
Name	Biomedical Instrumentation and Signal Analysis
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / anytime
Semester	Fall
Type	Elective
Prerequisites	-
Content	Fundamentals of bioinstrumentation, sensors and transducers. Origins of bioelectric signals. Cardiac and neural anatomy and physiology basics. Biosignal types and their properties. Artifact removal from biosignals: Filtering and time and frequency domain filters. Information extraction from morphology of biosignals. Frequency characterization of biosignals.