AGU Course Record Catalogue



Code ECE545	
Name	
Fundamentals of	
BioMEMS	
Hour per week	3 (Theory)
Credit	3
ECTS	5
Level/Year	Graduate
Semester	Fall
Туре	Elective
Prerequisites	
Content	Nanotechnology and its applications
	Materials and specificationsFabrication Process: Etching, Deposition and patterning
	Surface properties
	Nanotechnology based transduction
	Microfluidics
	Micro/nano biosensors
	Standard laboratory methods
	Micro/nano cantilevers
	• Biochips
	 Application of MEMS to medicine and biology