

Code	BENG524
Name	Material Design and Fabrication for Tissue Engineering
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / Anytime
Semester	Fall and Spring
Type	Elective
Prerequisites	-
Content	This course covers general introduction to tissue engineering, explanation of properties of tissue scaffold, comprehensive study of manufacturing methods of tissue scaffolds used in tissue engineering with the most recent studies in literature. Students will be able to gain knowledge of desalination, gas foaming, and additive manufacturing with particle aggregation, freeze-drying, thermally induced phase separation and production of tissue scaffold with supercritical carbon dioxide.