

Code	<b>SIE530</b>
Name	<b>Eco-Efficient Concrete for Sustainable Infrastructure</b>
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate
Semester	Fall or Spring
Type	Elective
Prerequisites	
Coordinator(s)	
Description:	In this course, eco-efficient concrete mixtures, which are one of the important components of sustainable infrastructure, are addressed in a wide scope. The course consists of the following topics: Environmental impacts of Portland cement production, Life cycle analysis of concrete (LCA); Mineral admixtures and High-volume mineral admixtures concrete and their durability properties; Self-consolidating eco-efficient concrete; Concrete mixtures containing reactive and non-reactive waste; Innovative and sustainable binder types.