

Name of the Lecture	Drug Delivery For Tissue Engineering
Level of the Lecture	Graduate
Length of the Lecture	25 minutes
Type of the Lecture	Online
Lecturer	Prof. Anton FICAI
Lecturer Email	Anton.ficai@upb.ro
Aim of the Lecture	The aim of this lecture is to introduce to the attenders some of the benefits of the drug administration in a controlled manner, with a specific rate and over a specific period of time. Moreover, these systems can be beneficial in tissue engineering, the delivered drugs (active agents) being able to enhance healing or treat different diseases.
Content of the lecture	The lecture will be focussed on: <ul style="list-style-type: none"> • general aspects related to drug delivery; • classifications according to different aspects (mechanisms of delivery, role; etc.); • types of DDS • several examples of DDS used in tissue engineering, with specific activity (antiinfectious, antitumoral,...)
Recommended Sources	Binghe Wang, Longqin Hu, Teruna J. Siahaan; Drug Delivery: Principles and Applications; Wiley; 2016; ISBN: 9781118833360, 720pg
Language of the lecture	English
Learning Outputs	To use the proper terminology in the field;
	To understand the mechanisms of delivery;
	To understand the benefits of using DDS;
	To get the ability and knowledge to tune the delivery profile according to the needs;
	To design DDS according to the needs.