



BIOINFORMATICS AND CELL AND TISSUE DESIGN

Enrollment year	2019/2020
Academic year	2020/2021
Regulations	DM270
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING
Course	BIOENGINEERING
Curriculum	Cellule, tessuti e dispositivi
Year of study	2°
Period	1st semester (28/09/2020 - 22/01/2021)
ECTS	15
Language	Italian

The activity is split

503310 - **BIOINFORMATICS AND SYNTHETIC BIOLOGY**

509088 - **TISSUE ENGINEERING**



BIOINFORMATICS AND SYNTHETIC BIOLOGY	
Enrollment year	2019/2020
Academic year	2020/2021
Regulations	DM270
Academic discipline	ING-INF/06 (ELECTRONIC AND INFORMATION BIOENGINEERING)
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING
Course	BIOENGINEERING
Curriculum	Cellule, tessuti e dispositivi
Year of study	2°
Period	1st semester (28/09/2020 - 22/01/2021)
ECTS	9
Lesson hours	76 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	PASOTTI LORENZO - 6 ECTS PASOTTI LORENZO - 3 ECTS
Prerequisites	
Learning outcomes	
Course contents	
Teaching methods	
Reccomended or required readings	
Assessment methods	
Further information	



TISSUE ENGINEERING	
Enrollment year	2019/2020
Academic year	2020/2021
Regulations	DM270
Academic discipline	ING-INF/06 (ELECTRONIC AND INFORMATION BIOENGINEERING)
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING
Course	BIOENGINEERING
Curriculum	Cellule, tessuti e dispositivi
Year of study	2°
Period	1st semester (28/09/2020 - 22/01/2021)
ECTS	6
Lesson hours	49 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	FASSINA LORENZO (titolare) - 6 ECTS
Prerequisites	=
Learning outcomes	One of the fundamental purposes of Tissue Engineering and Regenerative Medicine is to “build” implantable substitutes of tissues and organs. This course will provide an overview of normal tissues and organs and Tissue Engineering strategies to heal their damage.
Course contents	Biology of the cell and of the extracellular matrix. Anatomy, physiology, and substitutes of the following tissues and organs: - skin - bone - cartilage - skeletal muscle - nerve

	<ul style="list-style-type: none"> - arterial blood vessel - pancreas - liver - kidney - heart muscle. <p>Stereology.</p>
Teaching methods	=
Reccomended or required readings	On Kiro.
Assessment methods	Oral exam.
Further information	Oral exam.
Sustainable development goals - Agenda 2030	\$ibl legenda sviluppo sostenibile