MA105] ADVANCED TECHNIQUES IN TISSUE ENGINEERING AND REGENERATIVE MEDIC

GENERAL INFORMATION

Studies	MASTER'S DEGREE IN BIOMEDICAL TECHNOLOGIES			**Subject**	?
Semester	1	**Course**	1	**Mention / Field of specialisation**	???
Character	OPTIONAL				
Plan	2023	**Modality**	Face-to-face	**Language**	ENGLISH
Credits	3	**Hours/week**	2.58	**Total hours**	46.5 class hours + 28.5 non-class hours = **75 total hours**

PROFESSORS

ZABALA EGUREN, ALAITZ

BURUAGA LAMARAIN, LOREA

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
FUNDAMENTALS OF MEDICINE AND BIOMATERIALS	*(No previous knowledge required)*

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
MMRA26 - To apply the knowledge acquired and your problem-solving skills in new, little-known or changing environments within broader (or multidisciplinary) contexts related to your area of study		*x*		0,72
MMRA28 - To communicate your conclusions and the knowledge and ultimate reasons that support them to specialized and non-specialized audiences in a clear and unambiguous way		*x*		0,18
MM18-2 - Understanding the techniques and uses of tissue engineering and regenerative medicine in accordance with the professional codes and ethics of engineering			*x*	2,1
			Total:	3

KC: Knowledge or Content / SK: Skills / AB: Abilities

CONTENTS

L1-Surface modification of polymers

L2-Characterization Techniques

L3-Bioreactors for tissue Engineering

P2- Practical sessions on hybridized 3D printing+electrospinning technology

M1- Master class on industrial experiences regarding tissue Engineering technology

M2- Master class on medicine regenerative experiences in Osakidetza

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes Technical articles Presentations by external Lecturers Lab practical training Video projections	Zink M: in ‘Thin films and coatings in biology’, (ed. Nazarpour S), 11–67; 2013, Dordrecht, Netherlands, Springer. https://doi.org/10.2174/156802608783790893