

[GBL201] MEDICAL INSTRUMENTATION, PROSTHESES AND IMPLANTS

GENERAL INFORMATION

Studies	DEGREE IN BIOMEDICAL ENGINEERING	Subject	MEDICAL ELECTRONICS
Semester	1	Course	2
Character	COMPULSORY	Mention / Field of specialisation	
Plan	2022	Modality	Face-to-face
Credits	3	Language	CASTELLANO
		Total hours	43.1 class hours + 31.9 non-class hours = 75 total hours

PROFESSORS

ARISTIMUÑO OSORO, PATXI XABIER
 AZPI-MIRANDA SAROBE, IÑIGO

REQUIRED PREVIOUS KNOWLEDGE

Subjects	Knowledge
(No specific previous subjects required)	(No previous knowledge required)

LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
GBR204 - To identify the medical instruments and implants used in the healthcare field	x			2,6
G-RTR1 - To develop interdisciplinary projects specific to their specialty and of gradual complexity, - becoming aware of respect for human rights and fundamental rights, and analyzing and assessing the impact of the proposed solutions on the SDGs - to acquire and/or apply basic, advanced and /or avant-garde, demonstrating the ability to work in multidisciplinary teams and/or undertake further studies with a high degree of autonomy		x		0,16
G-RTR2 - To express information, ideas and the arguments that support them in an orderly, clear and coherent manner, orally and in writing, based on quality information, self-made or obtained from different sources, using inclusive and non-discriminatory language		x		0,24
Total:				3

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

CONTENTS

1. Introduction.2. Hygiene, Asepsis, Antisepsis.3. Anaesthesia.4. Classification of instruments:
- 4.1 Scissors. 4.2 Scalpel/Electrosurgical units. 4.3 Retracting/Dilating. 4.4 Suturing.
- 4.5 Periosteum.5. Laparoscopy.6. interventional radiology7. Prosthesis.8. Implants.9. Orthotics.

LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Slides of the subject	Instrumentacion quirurgica. principios y practica. Editorial Medica
Presentations by external Lecturers	Panamericana. ISBN 978-950-06-0572-4
Class presentations	
Labs	
Moodle Platform	