

## [GBM202] DEVELOPMENT OF MEDICAL EQUIPMENT

### GENERAL INFORMATION

<b>Studies</b>	DEGREE IN BIOMEDICAL ENGINEERING	<b>Subject</b>	?
<b>Semester</b>	1	<b>Course</b>	3
<b>Character</b>	COMPULSORY	<b>Mention / Field of specialisation</b>	
<b>Plan</b>	2022	<b>Modality</b>	Face-to-face
<b>Credits</b>	4,5	<b>Language</b>	ENGLISH
		<b>Total hours</b>	70.25 class hours + 42.25 non-class hours = <b>112.5 total hours</b>

### PROFESSORS

FERNANDEZ MANCHADO, RAUL

SAENZ DE ARGANDOÑA FERNANDEZ DE GOROSTIZA, ENEKO

### REQUIRED PREVIOUS KNOWLEDGE

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

### LEARNING RESULTS

LEARNING RESULTS	KC	SK	AB	ECTS
<b>GBR302</b> - To apply manufacturing knowledge in the design and development of medical equipment		x		3,78
<b>G-RTR1</b> - 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		0,4
<b>G-RTR2</b> - 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		0,32
<b>Total:</b>				<b>4,5</b>

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

### CONTENTS

P1) Material casting processes P2) Cost estimation in manufacturing processes: Process Information Maps, parametric and analytical cost estimation. P3) Special machining processes: Abrasive technologies Unconventional processes Other machining processes P4) CNC programming

### LEARNING RESOURCES AND BIBLIOGRAPHY

Learning resources	Bibliography
Subject notes	Manufacturing process selection handbook
Moodle Platform	
Class presentations	
Specific Master Software	
Video projections	
Programmes	