2b. System design and integration/interfacing between electronic and mechanical components	
Functional Area: R&D	
Assessment criteria	**Assessment criteria**
LO2B.1. Designs prototypes and mechanisms of mechatronic systems. • Describe the main characteristics of a mechatronics assy and its potential use applications • Propose solutions for the design of a simple product/process • Design, on the basis of an outline design draft, a prototype of a product/process	LO2B.1. Designs prototypes and mechanisms of mechatronic systems. • Describe the main characteristics of a mechatronics assy and its potential use applications • Propose solutions for the design of a simple product/process • Design, on the basis of an outline design draft, a prototype of a product/process
	Skills
	• Capability to properly read and understand technical specifications and material description • Identify type of materials and components for machining/assembling or storing in appropriate environment • Identify and propose adequate types of material for product/process • Identify appropriate machining procedures • Identify relevant parameters (eg temperature, humidity, RPM, clean room level...) • Machine/construct components on the basis of relevant specification
	Transferable skills
	• Capability to communicate in English in a interdisciplinary / international team, in virtual and real modality • Understand descriptions, specifications, technical data and other info typical of the profession in English and prepare them for next phase of project/Customer in understandable manner • Be capable to interface/report with the R&D/Engineering/Maintenance departments in a logical and coherent manner