

GENERAL INFORMATION					
Subject name		RO4. Robotics application for Advanced processes			
Semester	2	Character	Compulsory	Type of module	Specialisation
ECTS	4	Modality		Face-to-face	
Higher Education Institution(s)			ESTIA		
Lecturer(s)			Maylis Uhart, Anais Domergue, Jean-Baptiste Daramy		
LEARNING AND TEACHING					
ESCO Occupation(s)		Manufacturing engineer Chief technology officer			
ESCO Skill & Competences (*no ESCO)		Use mathematical tools and equipment Advise on manufacturing problems Keep up with digital transformation of industrial processes Define technology strategy Scientific research methodology			
Learning outcomes (Please refer to Appendix 4 for the interpretation of the acronym)		KU1, EP1, EP3, IN5			
Teaching methods		Flipped Classroom Tutorials Case Studies Simulation-Based Learning Workshops			
Assessment methods		Technical reports Oral presentation & defence Case studies Simulations and modelling exercises Work experience assessment			
CONTENTS					
Previous requirements (if necessary)					
RO3 Enhanced robotic cells					
Content index					
Robotization of composite and ALM processes <ul style="list-style-type: none">- Robotic wrapping: cell structure, programming, implementation- WAAM: cell structure, programming, implementation- DED L: cell structure, programming, implementation- Cells design, specific requirement- Updated programming- In situ control of the process- Standard and regulation specification					
Practical application					
SUPPORTING BIBLIOGRAPHIC REFERENCES					
SOFTWARE					
3DExperience, ESI, equipment-based specific software, Morpheo, Abaqus, Ansys, Coriolis software					