



FH JOANNEUM University of Applied Sciences





GENERAL INFORMATION								
Course name RO2. Indust					rial cells implementation			
Semester	2	² Characte			Compulsory	Type of module	Specialisati on	
ECTS 5					Modality	Face-to-face	- -	
Higher Education Institution(s)					ESTIA			
Lecturer(s)					Maylis Uhart, Joseph Canou, Patxi Hacala			
LEARNING AND TEACHING								
ESCO Occupation(s)					Chief technology officer			
ESCO Skill & Competences (*no ESCO)				Manage engineering projects Lead technology development of an organisation Interpret technical requirements Coordinate technological activities Industrial research and development Identify processes for re-engineering				
Learning outcomes				EA2, EP1, EP6				
(Please refer to Appendix 4 for the								
Teaching methods				Lectures Tutorials Case Studies Simulation-Based Learning Seminars Workshops				
Assessment methods				Technical reports Oral presentation & defence Examinations Case studies Problem sets and exercises Lab experiments Simulations and modelling exercises				
CONTENTS								
Previous requirements (if necessary)								
RO1 Fundamentals of robotics								
Content index								
Implementation of a robotic cell - CAD design of the cells - Flow simulation - Standards and regulations - Environmental impact of the					e cells			
Robot programming and implementation-CAD/CAM modelisation of the robot as a resource-Tool path programming and computation-Placement and planification-Simulation postprocessing & Optimization								
Practical application								
SUPPORTING BIBLIOGRAPHIC REFERENCES								
SOFTWARE								

3DExperience