



FH JOANNEUM University of Applied Sciences





GENERAL INFORMATION							
Course name RO3. Enhanced robotic cells							
Semester	2		Charact		Compulsory	Type of module	Specialisati on
ECTS	6				Modality	Face-to-face	
Higher Education Institution							
Lecturer(s)				Maylis Uhart, Joseph Canou, Emmanuel Duc, Vincent Magimel			
LEARNING AND TEACHING							
ESCO Occupation(s) Manufacturing engineer							
,				Chief technology officer			
ESCO Skill & Competences (*no ESCO)				Apply numeracy skills Define technical requirement Ensure health and safety in manufacturing Coordinate technological activities Ensure adherence to standards* Operate precision measuring equipment Review development process of an organization			
Learning out				KU1, EA2, EP1, EP3, EP4, IN3			
(Please refer to Appendix 4 for the							
interpretation of the acronym) Teaching methods				Lectures Tutorials Case Studies Simulation-Based Learning Flipped Classroom			
Assessment methods				Technical reports Oral presentation & defence Examinations Case studies Problem sets and exercises Lab experiments Simulations and modelling exercises			
Previous requirements (if necessary)							
RO2 Industrial cells implementation							
Content index							
- Ser - Ser	oot / 1 nsor-b nsors	task base anc	tors on a ro matching ed control real-time plication				
Health and safety							
 Industrial risk management and assessments Standard and regulations Integration of cobotics Practical application Applications of cobotics Standards in cobotics Architecture of a cobotics platform Human-robot interaction (physical and non-physical) for cobotics Processing sensor information for cobotics Control strategies in cobotics: perception-decision-action loop Practical application 							
SOFTWARE							
Matlab, equipment-based specific software							