Curriculum Industrial Informatics (Detailed)

V03 21.05.24

Module Name	СР	
Module Coordinator		
Course 1 Instructor	WSH	
Course 2 Instructor	WSH	
Total	WSH	

Overview • Student's point of view Students can start their studies in either semester 1 or semester 2. 3rd semester: 2nd semester: 2nd semester: 4 Mandatory (15 CP) 5 Comp. Opt. (5 CP) 6 Peer or Group Project (10 CP) 7 Peer or Group Project (10 CP) 8 Mandatory (15 CP) 9 Peer or Group Project (10 CP)

	3
(each	semester)

Master's Thesis
Programme Coordinator 30 CP

Master's Thesis
MIII-Staff (first examiner)

Master's Thesis
MIII-Staff (second examiner)

Total

30 CP

30 CP

30 CP

90 CP

2 (sep-feb)

Robotic Systems	
Cane	5 CP
ntroduction Robotic Systems Cane	2
ndustrial Robotic Systems Colombo	2
otal	4 WSH

Data Science and Analytics	
Wings	5 CP
Data Science	
Wings	2
Analytics	
Colombo	2
Total	4 WSH

Mathematical Modelling of I	CPS
Veltink	5 CP
Model-based Formal Methods &	Tools
Colombo	2
Algebraic Formal Methods & Too	ls
Veltink	2
Total	4 WSH

Innovation Engineering	
Mäkiö	5 CP
Digital Economy	
Mäkiö	2
Innovation Management	
Colombo	2
Total	4 WSH

Peer Project *)	
Programme Coordinator	10 CP
Peer Project	
MII-Staff	-
Group Project **)	
MII-Staff	2
Total	_ WSH

1 (mar-aug)

ndustrial Cyber-Physical Systems	
Colombo	5 CP
CPS and Industry 4.0	2
CPS Life Cycle Engineering Colombo	2
otal	4 WSH

Total	4 WSH
Industrial Internet of Things	
Streekmann	5 CP
IIoT and Data Transport	
Bergmann	2
IoT Data Processing	
Streekmann	2
Total	4 WSH

Digitalization Engineering	
Colombo	5 CP
Digitalization of ICPS	
Colombo	2
Digital Signal Processing	
Batke	2
Total	4 WSH

Human Factors and Au	gmented Reality
Pfeiffer	5 CP
Human Factors and Assist	ance Systems
Pfeiffer	2
Augmented Reality	
Pfeiffer	2
Total	4 WSH

Group Project *)	
Programme Coordinator	10 CP
Group Project	
MII-Staff	2
Peer Project **)	
MII-Staff	-
Total	2 WSH

^{*)} The curriculum is shown from the perspective of a student starting in semester 1. The two project types (group and peer) are offered each semester. Note: The group project is a pre-requisite for the peer project.

Note: Other compulsory optional modules could be offered, in particular by international partners

CP: Credit Points (ECTS)
WSH: Weekly Semester Hour

mandatory module
compulsory optional subject
project/practical module

Remarks for Group Project

The module "Group Project" can be used for practical/lab work in connection with a certain lecture.

^{**)} Offering for students starting in semester 2.