Daily Schedule				
9:30	Start Lecture			
10:30	Short Break			
10:40	Start Lecture			
11:40	Lunch Break			
14:00	Start Lecture			
15:00	Short Break			
15:10	Start Lecture			
	Close and working on			
16:15	assignments			

	Wang, Lihui, and Xi Vincent Wang. 2017. <i>Cloud-Based Cyber-Physical Systems in Manufacturing</i> . Cham:			
Location:	Springer. https://doi.org/10.1007/978-3-31 Monday - Thursday:	Lecture room M312		
		Lecture room M231		

Course Schedule

Day	Content	Lectur e No.	Book Chapter	Book Chapter No.	Responsible	Date	From	То	Location
Day1	Part 1: Literature Survey and Trends	0	Welcome and Course Introduction		Vincent	Vincent	9:30	10:00	M312
		1	· Latest Advancement in CPS and Industry 4.0 I	2	Vincent	March 9th	10:00	10:30	M312
		2	· Latest Advancement in CPS and Industry 4.0 II	2	Vincent	March 9th	10:40	11:40	M312
			· Lunch Break				11:40	14:00	
	Part 2: Cloud-Based Monitoring, Planning and Control in CPS	3	· Machine Availability Monitoring and Process Planning	4	Lihui	March 9th	14:00	15:00	M312
		4	· Cloud-Enabled Distributed Process Planning Condition Monitoring for Predictive Maintenance	5	Lihui	March 9th	15:10	15:10	M312
Day2		5	· Adaptive Machining Using Function Blocks Cloud-Enabled Distributed Process Planning	6	Lihui	March 10th	9:30	10:30	M312
		6	· Condition Monitoring for Predictive Maintenance Adaptive Setup Planning	7	Lihui	March 10th	10:40	11:40	M312
			· Lunch Break				11:40	14:00	
	Part 3: Sustainable Robotic Assembly in CPS Settings	7	· State-of the-art of HRC in Assembly	11	Lihui	March 10th	14:00	15:00	M312
		8	· Resource Efficiency Calculation as a Cloud Service	8	Abdullah	March 10th	15:10	16:10	M312
Day3		9	· Safety in Human-Robot Collaborative Assembly	9	Abdullah	March 11th	9:30	10:30	M312
		10	· Cloud Robotics towards a CPS Assembly System	10	Abdullah	March 11th	10:10	11:40	M312
			· Lunch Break				11:40	14:00	
			· Lab Tour		Abdullah	March 11th	14:00	14:30	M312
			· Hands-on Robot Programming		Abdullah	March 11th	14:30	17:00	M312
Day4	Part 4: CPS Systems Design and Lifecycle Analysis	11	Latest Advancement in Cloud Technologies and Architecture Design of Cloud CPS	1 & 12	Vincent	March 12th	9:30	10:30	M312
		12	· Product Tracking and WEEE Management	13	Vincent	March 12th	10:40	11:40	M312
			· Lunch Break				11:40	14:00	
		13	· Big Data Analytics for Scheduling and Machining	14	Lihui	March 12th	14:00	15:00	M312
			· 1 hour Discussion workshop		Lihui, Vincent, Abdullah	March 12th	15:10	16:10	M312
Day5		14	· IoT Applications Challenges in Cybersecurity	3	Vincent	March 13th	9:30	10:30	M231
- 474		15	Outlook of Cloud, CPS and IoT in Manufacturing, + Final Assignment	15	Vincent	March 13th	10:45	10:45	M231

		· Final remarks and Close	Vincent	March 13th			M231
		· Lunch Break			11:40	12:30	