

**Course Syllabus for  
Smart and Sustainable Industry PhD  
(2023-24)**

<b>Course title</b>	<i>Fundamentals of Industrial Internet of Things</i>
<b>Scientific Discipline Sector</b>	ING-INF/03
<b>Hours of instruction</b>	20 hours
<b>CFU</b>	2 CFU
<b>Semester</b>	(second semester second year)
<b>Goal</b>	The course will address the key technologies enabling the so-called Industrial Internet of Things.
<b>Syllabus</b>	Protocol architectures Internet protocols for embedded systems Fieldbuses
<b>Bibliography</b>	DANIEL MINOLI, BUILDING THE INTERNET OF THINGS WITH IPv6 AND MIPv6, 2013 John Wiley & Sons. Internet of Things A to Z, Technologies and Applications, Edited by Qusay F. Hassan, 2018 John Wiley & Sons. O. Hersent et al. The Internet of Things: Key Applications and Protocols, Wiley; 2nd ed, 2012. D. Uckelmann et al. Architecting the Internet of Things, Springer, 1° ed. 2011. Z. Shelby. 6LoWPAN: The Wireless Embedded Internet. Wiley; 1° ed. 2010. Slides and support material from lecturer.
<b>Examination method</b>	Final examination in class