

SYLLABUS

Name of the course:	Innovation, the Digital Economy and the Environment (module of the Course Innovation and Sustainability)			
Teacher:	Elena Vallino			
University / organisation:	University of Torino			
Language of teaching:	English			
ECTS:	36			
Semester (S1, S2, S3 or S4):	<input type="checkbox"/> S1	<input checked="" type="checkbox"/> S2	<input type="checkbox"/> S3	<input type="checkbox"/> S4
Teaching method(s):	<input checked="" type="checkbox"/> Lecture courses		<input type="checkbox"/> Flipped classroom	
	Other: _____			
Type(s) of evaluation:	<input checked="" type="checkbox"/> Sitting exam		<input checked="" type="checkbox"/> Written report	
	<input type="checkbox"/> Oral defence		<input checked="" type="checkbox"/> Group project	
	Other / comments: _____			
Expected deadline(s) for the evaluation(s)	July			
Expected date of final results:	July			
Summary of the content:	Patterns of innovation related to digital disruptions present challenges to the way in which the knowledge economy shapes the production of goods and services. The course aims to provide an overview of the recent trends in the digital economy domain, in particular in relation to innovation and transformation in different industries.			
Indicative list of lectures:	<ul style="list-style-type: none"> -general debate on the digital disruption tendencies -conceptual linkages with the narrative on environmental sustainability, twin transition -the economics of the platforms -digital economy in manufacturing -digital economy and the labour market -digital innovations in the health sector -Artificial Intelligence -Blockchains and decentralized finance 			
Short bibliography:	-Mansell R. and Steinmueller W. E. (2020) <i>Advanced Introduction to Platform Economics</i> . Edward Elgar Publishing.			

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-Geuna, A., Guerzoni, M., Nuccio, M., Pammolli, F., & Rungi, A. (2021). *Resilience and Digital Disruption: Regional Competition in the Age of Industry 4.0*. Springer Nature.

-Zheng, T., Ardolino, M., Bacchetti, A., & Perona, M. (2021). The applications of Industry 4.0 technologies in manufacturing context: a systematic literature review. *International Journal of Production Research*, 59(6), 1922-1954.

-Lupton, D. (2014). Critical perspectives on digital health technologies. *Sociology compass*, 8(12), 1344-1359.

-Abrardi, L., Cambini, C., & Rondi, L. (2021). Artificial intelligence, firms and consumer behavior: A survey. *Journal of Economic Surveys*.

-Montobbio, F., Staccioli, J., Virgillito, M. E., & Vivarelli, M. (2023). The empirics of technology, employment and occupations: Lessons learned and challenges ahead. *Journal of Economic Surveys*.