



## List of recommended reading

(developed under Activity 1.1: Study of teaching methodologies and curriculum in relation to Industry)

Title	Author/s	Link	Media owner/source	Year
<b>Introduction to Industry 4.0</b>				
Industry 4.0: Proposing a Framework	da Silva et al	DOI: 10.14738/abr.86.8541	Archives of Business Research	2020
Industry 4.0 and Sustainability	Ejsmont et al	doi: 10.32545/encyclopedia202007.0022.v2	Scholarly Community Encyclopedia	2020
Industry 4.0 and Competitiveness	Bal & Erkan	<a href="https://link.springer.com/chapter/10.1007%2F978-3-030-49461-2_27">https://link.springer.com/chapter/10.1007%2F978-3-030-49461-2_27</a>	Procedia Computer Science	2019
Technology Roadmap for Industry 4.0	Sarvari et al	<a href="https://doi.org/10.1007/978-3-319-57870-5_5">https://doi.org/10.1007/978-3-319-57870-5_5</a>	Industry 4.0: Managing The Digital Transformation, Springer Series in Advanced Manufacturing	2019
How To Define Industry 4.0: Main Pillars Of Industry 4.0	Erboz	<a href="https://www.researchgate.net/publication/326557388">https://www.researchgate.net/publication/326557388</a>	Conference: Managerial trends in the development of enterprises in globalization era	2017
The Fourth Industrial Revolution is here—are you ready?	n.a.	<a href="https://www2.deloitte.com/content/dam/Deloitte/tr/Documents/manufacturing/Industry4-0_Are-you-ready_Report.pdf">https://www2.deloitte.com/content/dam/Deloitte/tr/Documents/manufacturing/Industry4-0_Are-you-ready_Report.pdf</a>	Deloitte Insights	2018
Forces of change: Industry 4.0	n.a.	<a href="https://www2.deloitte.com/content/dam/insights/us/articles/4323_Forces-of-change/4323_Forces-of-change_Ind4-0.pdf">https://www2.deloitte.com/content/dam/insights/us/articles/4323_Forces-of-change/4323_Forces-of-change_Ind4-0.pdf</a>	Deloitte Insights	2017
Industry 4.0 Concept: Background and Overview	Rojko	<a href="https://online-journals.org/index.php/ijim/article/view/7072">https://online-journals.org/index.php/ijim/article/view/7072</a>	Intl Journal of Interactive Mobile Technologies	2017
Industry 4.0 Analytical Study	n.a.	<a href="https://www.europarl.europa.eu/RegData/etudes/STUD/2016/570007/IPOL_STU(2016)570007_EN.pdf">https://www.europarl.europa.eu/RegData/etudes/STUD/2016/570007/IPOL_STU(2016)570007_EN.pdf</a>	European Parliament	2016
Industry 4.0: Digitalisation for productivity and growth	n.a.	<a href="https://www.europarl.europa.eu/RegData/etudes/BRIE/2015/568337/EPRS_BRI(2015)568337_EN.pdf">https://www.europarl.europa.eu/RegData/etudes/BRIE/2015/568337/EPRS_BRI(2015)568337_EN.pdf</a>	European Parliament	2015
An Industry 4 readiness assessment tool	n.a.	<a href="https://warwick.ac.uk/fac/sci/wmg/research/scip/reports/final_version_of_i4_report_for_use_on_websites.pdf">https://warwick.ac.uk/fac/sci/wmg/research/scip/reports/final_version_of_i4_report_for_use_on_websites.pdf</a>	University of Warwick	n.a.
<b>Learning Factories</b>				
The Simulation of Conveyor Control System Using the Virtual Commissioning and Virtual Reality	Ružarovsky et al	<a href="https://doi.org/10.12913/22998624/100349">https://doi.org/10.12913/22998624/100349</a>	Advances in Science and Technology Research Journal	2018



VIRTUAL LABORATORY FOR STUDY OF CONSTRUCTION OF MACHINE TOOLS	Kroupa et al	<a href="https://www.mmscience.eu/journal/issues/november-2018/articles/virtual-laboratory-for-study-of-construction-of-machine-tools/download">https://www.mmscience.eu/journal/issues/november-2018/articles/virtual-laboratory-for-study-of-construction-of-machine-tools/download</a>	MM Science Journal	2018
Learning Factory for Industry 4.0 to provide future skills beyond technical training	Schallock et al	10.1016/j.promfg.2018.03.156	Procedia Manufacturing	2018
Cyber- Physical Systems and Education 4.0 –The Teaching Factory 4.0 Concept	Mourtzis et al	doi: 10.1016/j.promfg.2018.04.005	Procedia Manufacturing	2018
Learning Factory: The Path to Industry 4.0	Baena et al	doi: 10.1016/j.promfg.2017.04.022	Procedia Manufacturing	2017
INDUSTRY 4.0 LEARNING FACTORY DIDACTIC DESIGN PARAMETERS FOR INDUSTRIAL ENGINEERING EDUCATION IN SOUTH AFRICA	Sackey et al	Doi: 10.7166/28-1-1584	South African Journal of Industrial Engineering	2017
Learning Factories for research, education, and training	Abele et al	doi: 10.1016/j.procir.2015.02.187	Procedia CIRP	2015
Implications for Learning Factories from Industry 4.0:Challenges for the human factor in future production scenarios	Jäger & Sihm	<a href="https://docplayer.net/35489285-Implications-for-learning-factories-from-industry-4-0-challenges-for-the-human-factor-in-future-production-scenarios.html">https://docplayer.net/35489285-Implications-for-learning-factories-from-industry-4-0-challenges-for-the-human-factor-in-future-production-scenarios.html</a>	TU Vienna	n.a.
<b>Adult training (starting from Version 2.0 content is moved to the next section)</b>				
Industrie 4.0 – Qualification 2025 (Management Summary)	n.a.	<a href="https://bildung.vdma.org/documents/14969637/23826425/Englische+Kurzfassung+Management+Summary+Industrie+4.0+Qualification+2025.pdf/18ae1602-6aa3-40f0-a204-097c74a2781e">https://bildung.vdma.org/documents/14969637/23826425/Englische+Kurzfassung+Management+Summary+Industrie+4.0+Qualification+2025.pdf/18ae1602-6aa3-40f0-a204-097c74a2781e</a>	VDMA	2016
The Labouring Capacity Index: Living Labouring Capacity and Experience as Resources on the Road to Industry 4.0	Pfeiffer & Suphan	<a href="https://www.sabine-pfeiffer.de/files/downloads/2015-Pfeiffer-Suphan-EN.pdf">https://www.sabine-pfeiffer.de/files/downloads/2015-Pfeiffer-Suphan-EN.pdf</a>	Universität Hohenheim	2015
Effects of Industry 4.0 on vocational education and training	Pfeiffer	<a href="http://epub.oeaw.ac.at/ita/ita-manuscript/ita_15_04.pdf">http://epub.oeaw.ac.at/ita/ita-manuscript/ita_15_04.pdf</a>	Austrian Academy of Sciences	2015
The lifetime learner A journey through the future of postsecondary education. A report in the Future of the Business Landscape series	Hagel et al	<a href="https://www2.deloitte.com/us/en/insights/industry/public-sector/future-of-online-learning.html">https://www2.deloitte.com/us/en/insights/industry/public-sector/future-of-online-learning.html</a>	Deloitte University Press	2014
Predictors of Learner Satisfaction and Transfer of Learning in a Corporate Online Education Program	Gunawardena et al	<a href="https://doi.org/10.1080/08923647.2010.522919">https://doi.org/10.1080/08923647.2010.522919</a>	American Journal of Distance Education	2010
<b>Curriculum development, skills identification</b>				
Industry 4.0 in Educational Process	Vetiska et al	<a href="https://doi.org/10.1007/978-3-030-62784-3_27">https://doi.org/10.1007/978-3-030-62784-3_27</a>	The International Symposium for Production Research	2020
Competencies for Industry 4.0	Hernandez-de-Menendez et al	<a href="https://doi.org/10.1007/s12008-020-00716-2">https://doi.org/10.1007/s12008-020-00716-2</a>	International Journal on Interactive Design and Manufacturing	2020
A Knowledge Graph for Industry 4.0	Bader et al	<a href="https://www.researchgate.net/publication/341659999_A_Knowledge_Graph_for_Industry_4_0">https://www.researchgate.net/publication/341659999_A_Knowledge_Graph_for_Industry_4_0</a>	European Semantic Web Conference	2020
What is knowledge in Industry 4.0?	Ullah	<a href="https://onlinelibrary.wiley.com/doi/full/10.1002/eng2.12217">https://onlinelibrary.wiley.com/doi/full/10.1002/eng2.12217</a>	Engineering Reports	2020



TEACHING INDUSTRY 4.0	Marzano & Martinovs	<a href="http://journals.rta.lv/index.php/SIE/article/view/4833/4488">http://journals.rta.lv/index.php/SIE/article/view/4833/4488</a>	SOCIETY. INTEGRATION. EDUCATION Proc. of the Intl Sci Conf	2020
CAREER MANAGEMENT IN THE AGE OF INDUSTRY 4.0 TRAINING NEEDED ANALYSIS FOR INDUSTRY 4.0 COMPETENCIES	Demir & Demir (Editors)	<a href="https://www.researchgate.net/publication/344163637">https://www.researchgate.net/publication/344163637</a>	T.C. Kültür ve Turizm Bakanlığı	2019
Industry 4.0 Implications for Higher Education Institutions. State-of-Maturity and Competence Needs		<a href="http://universitiesofthefuture.eu/wp-content/uploads/2019/02/State-of-Maturity_Report.pdf">http://universitiesofthefuture.eu/wp-content/uploads/2019/02/State-of-Maturity_Report.pdf</a>	Universities of the Future:	2019
The Future of Jobs Report 2018		<a href="http://www3.weforum.org/docs/WEF_Future_of_Jobs_2018.pdf">http://www3.weforum.org/docs/WEF_Future_of_Jobs_2018.pdf</a>	World Economic Forum	2018
Observatory of Educational Innovation: Augmented and virtual reality.		<a href="https://observatory.tec.mx/edu-trends-augmented-and-virtual-reality">https://observatory.tec.mx/edu-trends-augmented-and-virtual-reality</a>	EduTrends	2018
Preparing for Industry 4.0—will digital skills be enough?	IBSA	<a href="http://ibsa.org.au/wp-content/uploads/2018/11/IBSA-Manufacturing-Preparing-for-Industry-4-will-digital-skills-be-enough.pdf">http://ibsa.org.au/wp-content/uploads/2018/11/IBSA-Manufacturing-Preparing-for-Industry-4-will-digital-skills-be-enough.pdf</a>	IBSA	2018
Requirements for Education and Qualification of People in Industry 4.0	Benešová & Tupa	<a href="https://doi.org/10.1016/j.promfg.2017.07.366">https://doi.org/10.1016/j.promfg.2017.07.366</a>	Procedia Manufacturing	2017
A competency model for “Industrie 4. 0” employees	Prifti et al	<a href="http://www.wi2017.ch/images/wi2017-0262.pdf">http://www.wi2017.ch/images/wi2017-0262.pdf</a>	13th Intl Conf on Wirtschaftsinformatik	2017
Analytical underpinning for a new skills agenda for Europe		<a href="http://www.parlament.gv.at/PAKT/EU/XXV/EU/10/73/EU_107327/imfname_10637287.pdf">http://www.parlament.gv.at/PAKT/EU/XXV/EU/10/73/EU_107327/imfname_10637287.pdf</a>	European Commission:	2016
INDUSTRIAL ENGINEERING CURRICULUM IN INDUSTRY 4.0 IN A SOUTH AFRICAN CONTEXT	Sackey & Bester	Doi: 10.7166/27-4-1579	South African Journal of Industrial Engineering	2016
Skills Needs Analysis for “Industry 4.0” Based on Roadmaps for Smart Systems	Hartmann & Bovenschulte	<a href="https://www.iit-berlin.de/en/publications/skills-needs-analysis-for-201cindustry-4-0201d-based-on-roadmaps-for-smart-systems">https://www.iit-berlin.de/en/publications/skills-needs-analysis-for-201cindustry-4-0201d-based-on-roadmaps-for-smart-systems</a>	Institute for Innovation and Technology, Berlin, Germany	2013