

Course Descriptions None 2024-2025

Course Title	ICT in the Supply Chain*							
Course Code	EBC4114							
ECTS Credits	6,5							
Assessment	Whole/Half Grades							
Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
	4	3-2-2025	30-3-2025					X
Level	Advanced							
Coordinator	Simon Bartczek For more information:s.bartczek@maastrichtuniversity.nl							
Language of instruction	English							
Goals	Participants will learn to understand the role of information technology in global supply chains.							
Description	<p>Management of global supply chains is impossible without using information and communication technology. Advances in ICT such as the internet and wireless communication have had a dramatic impact on supply chains and the way supply chain processes are managed. In this course we systematically address the technologies and systems which play a role in contemporary supply chain management. We will treat topics such as digital transformation, big data analytics, omnichannel retailing, e-procurement, e-supply chain management, e-business, e-marketplaces, et cetera. We will not only focus on the systems, but also on the management aspects of implementing and choosing these ICT systems. Examination will be done in the form of facilitations, a company project and a final paper.</p>							
Literature	<p>Porter, M.E. (2001). Strategy and the Internet. <i>Harvard Business Review</i>, 79(3), 2-19. Porter, M. E., & Heppelmann, J. E. (2014). How smart, connected products are transforming competition. <i>Harvard business review</i>, 92(11), 64-88. Teece, D. J. (2010). Business models, <i>Business Strategy and Innovation</i>. Long Range Planning, 43(2), 172-194. Büyüközkan, G., & Göçer, F. (2018). Digital supply chain: literature review and a proposed framework for future research. <i>Computers in Industry</i>, 97, 157-177. Furr, N., & Shipilov, A. (2019). Digital Doesn't Have to Be Disruptive The best results can come from adaptation rather than reinvention. <i>Harvard Business Review</i>, 97(4), 94-103. Hartley, J. L., & Sawaya, W. J. (2019). Tortoise, not the hare: Digital transformation of supply chain business processes. <i>Business Horizons</i>, 62(6), 707-715. McGrath, R., & McManus, R. (2020). Discovery-Driven Digital Transformation. <i>Harvard Business Review</i>, 98(3), 124-133. Hagi, A., & Wright, J. (2020). When data creates competitive advantage. <i>Harvard Business Review</i>, 98(1), 94-101. Kache, F., & Seuring, S. (2017). Challenges and opportunities of digital information at the intersection of Big Data Analytics and supply chain management. <i>International Journal of Operations & Production Management</i>, 37(1), 10-36. Gunasekaran, A., Papadopoulos, T., Dubey, R., Wamba, S. F., Childe, S. J., Hazen, B., & Akter, S. (2017). Big data and predictive analytics for supply chain and organizational performance. <i>Journal of Business Research</i>, 70, 308-317. Ameen, N., Tarhini, A., Shah, M., & Madichie, N. (2021). Going with the flow: smart shopping malls and omnichannel retailing. <i>Journal of Services Marketing</i>, 35(3), 325-348. DHL Supply Chain (2019). Omni-Channel Retail: Fulfilling Demand Profitably. Quach, S., Barari, M., Moudry, D. V., & Quach, K. (2020). Service integration in omnichannel retailing and its impact on customer experience. <i>Journal of Retailing and Consumer Services</i>, https://doi.org/10.1016/j.jretconser.2020.102267. DHL Supply Chain (2019). The E-Commerce Supply Chain: Overcoming Growing Pains. Hallikas, J., Immonen, M., & Brax, S. (2021). Digitalizing procurement: the impact of data analytics on supply chain performance. <i>Supply Chain Management: An International Journal</i>, 26(5), 629-646. Min, H. (2019). Blockchain technology for enhancing supply chain resilience. <i>Business Horizons</i>, 62(1), 35-45. Allison, S., Pawlowski, J., & Frances, N. (2019). The future of the Services Supply Chain – a DHL perspective on key trends and technologies in service logistics. DHL Supply Chain. Kohtamäki, M., Einola, S., & Rabetino, R. (2020). Exploring servitization through the paradox lens: Coping practices in servitization. <i>International Journal of Production Economics</i>, 226, 107619. Vendrell-Herrero, F., Bustinza, O. F., Parry, G., & Georgantzis, N. (2017). Servitization, digitization and supply chain interdependency. <i>Industrial Marketing Management</i>, 60, 69-81.</p>							
Prerequisites	An introduction to Supply Chain Management equivalent to for instance EBC1029 Fundamentals of Supply Chain Management							
Teaching methods	PBL / Presentation / Lecture / Assignment / Papers / Groupwork							
Assessment methods	Final Paper / Attendance / Presentation							
Evaluation in previous academic year	For the complete evaluation of this course please click http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM							
This course belongs to the following programme / specialisation	Master Global Supply Chain Management and Change				Compulsory Course(s)			