

DEREE COLLEGE SYLLABUS FOR:		3/0/3								
LM 3025 LOGISTICS SYSTEMS - LEVEL 5		UK Credits: 15								
(Updated Fall 2021)										
PREREQUISITES:	None									
CATALOG DESCRIPTION:	Demand forecasting, demand management, customer service, warehouse management, green, reverse and global logistics. Material flows in supply chain management. Logistics as a set of key processes and functions essential to strategic and operational success.									
RATIONALE:	As future professionals in supply chain and logistics students need to become familiar with fundamental analytical tools for designing and operating logistics systems, technological changes and developments in logistics. By taking this module students will be able to decide where and how the available tools/techniques can be used for improving the overall performance of the supply chain. Students will have the opportunity to solve real problems occurring in logistics systems through various industry examples.									
LEARNING OUTCOMES:	As a result of taking this module, the student should be able to: 1. Analyze performance drivers related to warehouse management, green, reverse and, global logistics. 2. Explain current logistics and supply chain management trends and discuss the impact of innovation on related operations. 3. Collect and analyse data, diagnose challenges and identify effective and innovative solutions to facilitate operations related to logistics systems. 4. Build teamwork skills and develop collaborative competences by identifying opportunities and challenges associated with logistics systems.									
METHOD OF TEACHING AND LEARNING:	In congruence with the teaching and learning strategy of the college, the following tools are used:  ➤ Classes consist of lectures, discussions, collaborative in-class small projects and case presentations. ➤ Office Hours: Students are encouraged to make full use of the office hours of their instructor in order to consult and discuss issues related to the course's content. ➤ Use of blackboard site, where instructors post lecture notes, assignments instructions, timely announcements, as well as additional resources.									
ASSESSMENT:	<b>Summative:</b> <table><tr><td>First Assessment: Written Project (group, 4,000-5,000 words)</td><td>60%</td></tr><tr><td>Final Assessment: Written Examination (Essay-type questions)</td><td>40%</td></tr></table> <b>Formative:</b> <table><tr><td>In-class, 1-hour, "diagnostic" test (Essay-type questions)</td><td>0</td></tr><tr><td>Coursework (Case studies, experiential exercises, in class quizzes)</td><td>0</td></tr></table> The formative test aims to prepare students for the summative assessments.  The Written Project tests Learning Outcomes 3 and 4.		First Assessment: Written Project (group, 4,000-5,000 words)	60%	Final Assessment: Written Examination (Essay-type questions)	40%	In-class, 1-hour, "diagnostic" test (Essay-type questions)	0	Coursework (Case studies, experiential exercises, in class quizzes)	0
First Assessment: Written Project (group, 4,000-5,000 words)	60%									
Final Assessment: Written Examination (Essay-type questions)	40%									
In-class, 1-hour, "diagnostic" test (Essay-type questions)	0									
Coursework (Case studies, experiential exercises, in class quizzes)	0									

	The Final Examination tests Learning Outcomes 1 and 2.
<b>REQUIRED MATERIAL:</b>	<ul style="list-style-type: none"> <li>Coyle, J.J., Langley, Jr., C. J., Novack, R.A. and Gibson, B.J. (2021), <i>Supply Chain Management: A Logistics Perspective</i>, 11<sup>th</sup> ed., Cengage Learning, ISBN: 9781305859975</li> </ul>
<b>RECOMMENDED MATERIAL:</b>	<p><b>BOOKS</b></p> <ul style="list-style-type: none"> <li>Bowersox, D., Closs, D., and Cooper, M.B. (2019), <i>Supply Chain Logistics Management</i>, 5<sup>th</sup> ed., McGraw-Hill/Irwin, ISBN10: 0078096642</li> <li>Stock, J. (2020). <i>Supply Chain Management</i>, 1st ed. McGraw-Hill/Irwin, ISBN10: 1260395596</li> </ul> <p><b>ARTICLES</b></p> <ul style="list-style-type: none"> <li>Bag,S., Wood,L., Mangla, S. and Luthra,S., (2020), Procurement 4.0 and its implications on business process performance in a circular economy, <i>Resources, Conservation and Recycling</i>, 152 (in press) .doi.org/10.1016/j.resconrec.2019.104502.</li> <li>Grant,D. (2019), Outsourcing integration and third party logistics services: An appreciation of two 'classic' articles in industrial marketing management, <i>Industrial Marketing Management</i>,79,21-26. doi.org/10.1016/j.indmarman.2019.03.005</li> <li>Hendrik Birkel, Julian M. Müller, (2021), Potentials of industry 4.0 for supply chain management within the triple bottom line of sustainability – A systematic literature review, <i>Journal of Cleaner Production</i>, Volume 289, doi.org/10.1016/j.jclepro.2020.125612.</li> <li>James R. Francis, Bruce M. Mairose, Eric M. Tichy, (2020), The Year the World Was Awakened to the Importance of Supply Chain Management, <i>Mayo Clinic Proceedings: Innovations, Quality &amp; Outcomes</i>, Volume 5, Issue 1, 187-192, doi.org/10.1016/j.mayocpiqo.2020.10.006.</li> <li>Kam-Fung Cheung, Michael G.H. Bell, Jyotirmoyee Bhattacharjya, (2021), Cybersecurity in logistics and supply chain management: An overview and future research directions, <i>Transportation Research Part E: Logistics and Transportation Review</i>, Volume 146, 102217, doi.org/10.1016/j.tre.2020.102217.</li> <li>Narendar Sumukadas, (2021), Are you ready for your next product recall crisis? Lessons from operations and supply chain management, <i>Business Horizons</i>, Volume 64, Issue 2, Pages 211-221, doi.org/10.1016/j.bushor.2020.12.001.</li> <li>Sadrnia,A., Roghani Langarudi, N., and Sani,A., (2020), Logistics network design to reuse second-hand household appliances for charities, <i>Journal of Cleaner Production</i>,244 (in press).doi.org/10.1016/j.jclepro.2019.118717.</li> <li>Xu,m., Cui, Y., Hu,M., Xu, X., Zhang, Z., Liang,S.,and Qu,S., (2019), Supply chain sustainability risk and assessment, <i>Journal of Cleaner Production</i>,225,857-867. doi.org/10.1016/j.jclepro.2019.03.307.</li> <li>Zuopeng Xiao, Quan Yuan, Yonghai Sun, Xixiong Sun (2021), New paradigm of logistics space reorganization: E-commerce, land use, and supply chain management, <i>Transportation Research Interdisciplinary</i></li> </ul>

	<p><i>Perspectives</i>, Volume 9, doi.org/10.1016/j.trip.2021.100300.</p> <p><b>REPORTS</b></p> <ul style="list-style-type: none"> <li>• <i>Impact of the Fourth Industrial Revolution on Supply Chains (2017)</i> Published by World Economic Forum, Geneva, Switzerland.</li> <li>• <i>Outlook on the Logistics &amp; Supply Chain Industry 2013</i>, (2013) Published by World Economic Forum, Geneva, Switzerland.</li> </ul>
<b>COMMUNICATION REQUIREMENTS:</b>	Assignments presented in MS Office tools or equivalent. Use of appropriate terminology.
<b>SOFTWARE REQUIREMENTS:</b>	Blackboard, MS Office, search engines
<b>WWW RESOURCES:</b>	<p>Students are expected to use the internet at their own discretion to select information on the module. Useful sources include:</p> <p><a href="#">Council of Supply Chain Management Professionals</a> (CSCMP)</p> <p><a href="#">Institute for Supply Management</a> (ISM)</p> <p><a href="#">International Federation of Purchasing &amp; Supply Management</a> (IFPSM)</p> <p><a href="#">Logistics Management</a></p> <p><a href="#">Logistics Quarterly</a></p> <p><a href="#">Logistics Viewpoints</a></p> <p><a href="#">Material Handling Management</a></p> <p><a href="#">MM&amp;D</a></p> <p><a href="#">Packaging News</a></p> <p><a href="#">Procurement Insights</a></p> <p><a href="#">SCM Resource Centre</a></p> <p><a href="#">Supply Chain &amp; Logistics Association Canada</a> (SCL)</p> <p><a href="#">Supply Chain Council</a> (SCC)</p> <p><a href="#">Supply Chain Digital</a></p> <p><a href="#">Supply Chain Intelligence</a></p> <p><a href="#">Supplymanagement.com</a></p> <p><a href="https://www.weforum.org/communities/supply-chain-and-transportation">https://www.weforum.org/communities/supply-chain-and-transportation</a></p>
<b>INDICATIVE CONTENT:</b>	<ol style="list-style-type: none"> <li>1. Demand Forecasting and Management</li> <li>2. Global Logistics</li> <li>3. Green Logistics</li> <li>4. Managing Relationships with Customers and Suppliers</li> <li>5. Measure and Managing Logistics Performance</li> <li>6. Order Management and Customer Service</li> <li>7. Packaging and Material Handling</li> <li>8. Reverse Logistics</li> <li>9. Role of Logistics in Supply Chain</li> <li>10. Supply Chain Trends</li> <li>11. Sustainable Logistics</li> <li>12. Warehouse Management</li> <li>13. Warehouse Management Systems (WMS)</li> </ol>