

DEREE COLLEGE SYLLABUS FOR: SH 32XX CONTEMPORARY ISSUES IN SHIP OPERATIONS		3/0/3										
(New: FALL 2026)		UK LEVEL: 6 UK CREDITS: 15										
PREREQUISITES:	SH 2010 Introduction to Shipping SH 2061 Ship Operations and Technical Management											
CATALOG DESCRIPTION:	Key ship operation risks and concerns. Interaction of ship operations and strategic decisions. Application of contemporary technologies to enhance efficiency, safety and environmental protection.											
RATIONALE:	The course analyzes in depth the most common ship operations, moving beyond descriptive knowledge to develop critical analysis, strategic thinking, decision making, and problem solving skills. It integrates technical, commercial, financial, and regulatory perspectives, to emphasize on the common shipping challenges and application contemporary technology in the maritime industry.											
LEARNING OUTCOMES:	As a result of taking this course, the student should be able to: 1. Examine in depth the maritime industry’s shipborne and shore based operational aspects 2. Evaluate contemporary concerns, and challenges of the maritime industry 3. Propose solutions to a specific challenge in the maritime industry.											
METHOD OF TEACHING AND LEARNING:	In congruence with the teaching and learning strategy of the college, the following tools are used: Lectures and class discussions. Homework assignments. Office hours held by the instructor to provide further assistance to students. Use of library facilities for further study and preparation for the exams Use of the Blackboard course management platform to further support communication, by posting lecture notes, assignment instruction, timely announcements, formative quizzes and online submission of assignments.											
ASSESSMENT:	Summative:<table><tr><td>Assessment: single assessment consisting of</td><td>100%</td></tr><tr><td>Written Project: Case Study, Team project, 3-4 students per team 4000-5000 words (80%)</td><td></td></tr><tr><td>Peer assessment and reflection of team performance (10%)</td><td></td></tr><tr><td>Team Presentation of the suggested solution provided at the written project. Question and Answer session after the presentation. (10%)</td><td></td></tr></table> Formative:<table><tr><td>In class exercises and case studies</td><td>0%</td></tr></table> The formative in class exercises and case studies aim to actively engage students and enhance comprehension of the key concepts.		Assessment: single assessment consisting of	100%	Written Project: Case Study, Team project, 3-4 students per team 4000-5000 words (80%)		Peer assessment and reflection of team performance (10%)		Team Presentation of the suggested solution provided at the written project. Question and Answer session after the presentation. (10%)		In class exercises and case studies	0%
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	The summative assessment tests all Learning Outcomes. Students are required to resit failed assessments in this module.
INDICATIVE READING:	REQUIRED READING: Song D.W., Panayides P., (2021), <i>Maritime Logistics: A guide to contemporary shipping and port management</i>, Kogan Page Panayides P., (2023), <i>Shipping Performance Management</i>, Informa Law from Routledge Menon, A. (2024). <i>Energy efficiency in shipping for environmental sustainability</i> (1st ed.). Routledge RECOMMENDED READING: • Emad, G. R., & Ghosh, S. (2023). <i>Identifying essential skills and competencies towards building a training framework for future operators of autonomous ships: A qualitative study</i>. WMU Journal of Maritime Affairs, 22, 427–445. https://doi.org/10.1007/s13437-023-00310-9 • House D.J. (2024) <i>Cargo Work for Maritime Operations</i>, 9th edition, Routledge • Institute of Chartered Shipbrokers. (2022 ed.). <i>Ship Operations and Management</i>, Witherby & Co. Ltd. • Jugović, A., Sirotić, M., Poletan Jugović, T., & Žgaljić, D. (2025). <i>Green shipping corridors: A bibliometric analysis of policy, technology, and stakeholder collaboration</i>. Applied Sciences, 15(6), 3304. https://doi.org/10.3390/app1506330 • Kishore, L., Pai, Y. P., Ghosh, B. K., & Pakkan, S. (2024). <i>Maritime shipping ports performance: A systematic literature review</i>. Discover Sustainability, 5(1), 1–23. https://doi.org/10.1007/s43621-024-00299-y • Naghash, H., Schott, D., & Pruyn, J. (2024). <i>Shifting waves of shipping: A review on global shipping projections and methodologies</i>. Journal of Shipping and Trade, 9(29). https://doi.org/10.1186/s41072-024-00187-8 • Olsen A. A., (2023), <i>Merchant Ship Types</i>, Routledge • Olsen A. A., (2022), <i>Introduction to Container Ship Operations and Onboard Safety</i>, Routledge • Olsen, A.A.(2022). <i>Core Principles of Maritime Navigation</i>, Routledge • Psaraftis, H. N., & Kontovas, C. A. (2021). <i>Decarbonization of maritime transport: Is there light at the end of the tunnel?</i> Sustainability, 13(1), 237. https://doi.org/10.3390/su13010237 • Rodrigue J.P., (2024) <i>The Geography of Transport Systems</i>, Routledge • Soyer B., Tettenborn A., (2020), <i>Ship Operations New Risks, Liabilities and Technologies in the Maritime Sector</i>, Informa Law from Routledge • Tapaninen U., & Andelin J., (2020) <i>Maritime Transport Shipping Logistics and Operations</i>, Kogan Page. • United Nations Conference on Trade and Development (UNCTAD) (Annual Publication). <i>Review of Maritime Transport</i>. • Zeng, F., Chen, A., Xu, S., Chan, H. K., & Li, Y. (2023). <i>Digitalization in the maritime logistics industry: A systematic literature review of enablers and barriers</i>. Journal of Marine Science and Engineering, 13(4), 797. https://doi.org/10.3390/jmse13040797

	• Zhang, P. & Tang, L.(2021). <i>Ship Management: Theory and Practice</i>, Routledge. Other sources, including journal and newspapers' articles, research papers etc. recommended by the instructor throughout the semester.
INDICATIVE MATERIAL: <i>(e.g. audiovisual, digital material, etc.)</i>	REQUIRED MATERIAL: RECOMMENDED MATERIAL:
COMMUNICATION REQUIREMENTS:	Use of appropriate academic terminology as applicable in oral and written communications
SOFTWARE REQUIREMENTS:	MS Office and Blackboard CMS
WWW RESOURCES:	www.bimco.org www.cdim.org.uk www.iacs.org.uk www.intercargo.org www.intertanko.com www.ics-shipping.org www.imo.org www.ipta.org.uk www.shipsupply.org www.ocimf.org www.rightship.com www.ship-technology.com www.sigtto.org www.hellenicshippingnews.com www.lloydslist.com www.maritimejournal.com www.seatrade-maritime.com/ www.tradewindsnews.com splash247.com transportgeography.org
INDICATIVE CONTENT:	1. Introduction to Fleet Operations 2. Cargo Operations and Ship Handling 3. Freight Markets and Maritime Trade 4. Ship Supply, Procurement, and Logistics 5. Fleet Operational Performance Management 6. Commercial and Strategic Fleet Management 7. Ship Life Cycle and Asset Management 8. Digital Transformation in Shipping 9. Emerging Maritime Technologies 10. Sustainable Shipping and Decarbonization 11. Operational Risk, Safety, and Compliance 12. Future Trends in Maritime Operations