DOCTORAL STUDIES SUBJECT DESCRIPTION

Subject	Scientific area (branch) Code	Faculty	Department
Quality Management Concepts, Models and Methodology	Management S 003	Faculty of Economics and Business Administration	Management

Study type	Number of ECTS Credits	Study type	Number of ECTS Credits
lectures		consultations	1
Self studies	6	seminars	

Subject description

While studying the subject, the doctoral student will expand, deepen and systematize his / her knowledge in the field of quality management by analyzing theories and research in scientific articles and monographs. Doctoral student will form his / her analytical, critical approach and insights related to the level of researched quality management aspects and further research perspectives.

The aim of the subject is to deepen and systematize doctoral students' knowledge and skills in the fields of advancement, deepening and application of quality management theory.

Tasks:

1. to form an understanding of quality management development trends;
2. to get acquaint with global topicalities of quality management, the latest international quality standards and models, their application in various business and public sector organizations;
3. to develop the ability to conceptually apply quality management principles, methods, tools, models and systems to improve the efficiency of organizations.

Key topics:

1. Development and future trends of quality management concepts.
2. Concepts, principles and models of Total Quality Management (TQM).
3. Quality management methods and tools.
4. International system of quality regulation. Standards, technical regulations and specifications.
5. Typology, structure, processes and content of management systems and their evaluation.
6. Management certification system, types and content of certification.
7. The improvement of business processes by implementing technological and social innovations in the context of Industry 4.0 / 5.0 development.
8. Supply chain quality management and implementation of ISO Circular economy standards.
9. The peculiarities of quality management in different sectors.

Study methods:

1. Analysis of main and supportive literature (thematic consultations and self studies).
During the thematic consultations, the most important topics of the subject are discussed on the basis of the most relevant literature. The main scientific literature is discussed, its place in the context of the topic is indicated. The most important sources of supplementary literature are indicated. Ways and directions of further independent search of additional literature are discussed. Emphasis is placed on issues related to the topic of the dissertation.

2 Reflective critique of basic research methods of consumer behaviour (paper).
The volume of the paper is up to 20 pages (Times New Roman 12, 1.5 line spacing).

The exam grade consists of:
- answers to the questions asked by the commission 70%

- quality of the paper and comments on its content 30%.

Main literature
Ibidapo, T. A. (2022) From Industry 4.0 to Quality 4.0: An Innovative TQM Guide for Sustainable Digital Age Businesses. Springer Cham. (eBook, https://doi.org/10.1007/978-3-031-04192-1). 658 p.
Yang, K. (2024). Quality in the Era of Industry 4.0: integrating tradition and innovation in the age of data and AI. John Wiley & Sons, Inc.
Industry 4.0 for SMEs: Challenges, Opportunities and Requirements (1st ed. 2020.). (2020). /edited by Dominik T. Matt, Vladimír Modrák, Helmut Zsifkovits, Springer Nature eBook. XXXV, 412 p. (https://books.google.lt/books?id=6_XHDwAAQBAJ&printsec=frontcover&source=gbs_ViewAPI&redir_esc=y#v=onepage&q&f=false)
ISO Žiedinės ekonomikos standartai (2024). Prieiga per eLaba.
Nassar N., Tvaronavičienė M. (2021) A systematic theoretical review on sustainable management for green competitiveness // Insights into regional development. Vilnius: Entrepreneurship and Sustainability Center. 2021, vol. 3, no. 2, p. 267-281; DOI: 10.9770/IRD.2021.3.2(7) (https://jssidoi.org/ird/uploads/articles/10/Nassar_A_systematic_theoretical_review_on_sustainable_management_for_green_competitiveness.pdf)
Helmold, M. (2023) Virtual and Innovative Quality Management Across the Value Chain Industry Insights: Case Studies and Best Practices. Springer, Cham. (eBook, https://doi.org/10.1007/978-3-031-30089-9). 221 p.
Kiran, D.R. (2017) Total Quality Management: Key Concepts and Case Studies. Elsevier Inc. Butterworth-Heinemann. (eBook, https://doi.org/10.1016/C2016-0-00426-6). 545 p.
Cudney, E. A., Venuthurumilli, S. S. J., Materla, T., & Antony, J. (2018). Systematic review of Lean and Six Sigma approaches in higher education. Total Quality Management & Business Excellence, 31(3–4), 231–244. https://doi.org/10.1080/14783363.2017.1422977
Felicetti, A. M., Ammirato, S., Corvello, V., Iazzolino, G., & Verteramo, S. (2022). Total quality management and corporate social responsibility: a systematic review of the literature and implications of the COVID-19 pandemics. Total Quality Management & Business Excellence, 1–20. https://doi.org/10.1080/14783363.2022.2049443
Khalaf Alateyyat, S., Jaaron, A. A. M., & Igudia, E. (2024). Unveiling the status of TQM-performance link in the private, public, and third sectors: a systematic review. Total Quality Management & Business Excellence, 35(9–10), 938–970. https://doi.org/10.1080/14783363.2024.2348660
Komkowski, T., Antony, J., Garza-Reyes, J. A., Tortorella, G. L., & Pongboonchai-Empl, T. (2022). The integration of Industry 4.0 and Lean Management: a systematic review and constituting elements perspective. Total Quality Management & Business Excellence, 34(7–8), 1052–1069. https://doi.org/10.1080/14783363.2022.2141107
Laureani, A., Antony, J., Sarabi, Y., & Gountcheva, N. (2024). Leadership for quality: a systematic review and future directions. Total Quality Management & Business Excellence, 35(13–14), 1465–1508. https://doi.org/10.1080/14783363.2024.2370486
Camango, C., & Cândido, C. J. F. (2023). ISO 9001 maintenance, decertification and recertification: a systematic literature review. Total Quality Management & Business Excellence, 34(13–14), 1764–1796. https://doi.org/10.1080/14783363.2023.2203379
Mahdikhani, M. (2023). Total quality management and lean six sigma impact on supply chain research field: systematic analysis. Total Quality Management & Business Excellence, 34(15–16), 1921–1939. https://doi.org/10.1080/14783363.2023.2214506
Oliveira, J. M., & Gomes, C. F. (2023). Excellence models beyond total quality management: inception, thematic structure and forthcoming paths. Total Quality Management & Business Excellence, 35(1–2), 137–169. https://doi.org/10.1080/14783363.2023.2276821
Fadilasari, D. P., Roy Ghatak, R., Garza-Reyes, J. A., Joshi, R., & Kandasamy, J. (2024). Adopting quality management practices in the industry 4.0 era: an investigation into the challenges. Total Quality Management & Business Excellence, 35(9–10), 1098–1123. https://doi.org/10.1080/14783363.2024.2354840
Nguyen, T. A. V., Tucek, D., Pham, N. T., & Nguyen, K. H. (2024). Quality 4.0 practices toward sustainable excellence in the manufacturing sector. Total Quality Management & Business Excellence, 35(13–14), 1593–1610. https://doi.org/10.1080/14783363.2024.2383616
Ruževičius J. (2012) Management de la Qualité. Notion globale et recherche en la matière. Vilnius: Maison d'éditions Akademinė leidyba, 432 p.
Ruževičius, J. (2007). Kokybės metodai ir modeliai. - Vilnius: Vilniaus universitetas.

Name and surname of consulting lecturer	Scientific degree	Main scientific achievements within scientific field within 5 years.
Dalius Serafinas	Prof. Dr.	1. Zalepūgaitė, D., Serafinas, D., Melys, K. (2023) The Impact of Changes in Leadership Styles on Quality Culture in Youth NGOs: The Case of Lithuania // Business transformation in uncertain global environments: 16th annual conference of the EuroMed Academy of Business, September 27-29 2023, Vilnius, Lithuania // EuroMed Press, 2023. ISBN 9789963711987. ISSN 2547-8516. p. 691-706. 2. Stravinskienė, I., Serafinas, D. (2023) The Link Between the Business Process Management Capabilities and the Benefits Created by Robotic Process Automation in an Organisation. // Transformations in Business & Economics, 2023 Vol. 22, No 3A (60A). ISSN 1648-4460. 1060-1073 p.p. (ISI Web of Science, SCOPUS, EBSCO; http://www.transformations.knf.vu.lt/) 3. Stravinskienė, I., Serafinas, D., & Ruželė, D. (2022). Links between Business Process Management Capabilities, Robotic Process Automation, and Organization Performance: a Theoretical Model. In D. Vrontis, Y. Weber, & E. Tsoukatos (Eds.), 15th Annual Conference of the EuroMed Academy of Business (EMAB): Sustainable Business Concepts and Practices, 842-856. EuroMed Press. ISBN: 978-9963-711-96-3. 4. Stravinskiene, I., Serafinas, D. (2021). Process management and robotic process automation: the insights from systematic literature review. Management of organizations: systematic research, 85, 87-106. https://doi.org/10.1515/mosr-2021-0006..
Roma Adomaitienė	Doc. Dr.	Simonyte, S., Adomaitiene, R., Ruzele, D. (2022). Experience of lean application in higher education institutions. *International Journal of Lean Six Sigma*. Vol. ahead-of-print No. ahead-of-print. DOI: 10.1108/IJLSS-11-2020-0208
Darius Ruželė	Dr.	1. Buckė, V., Ruželė, D., Ruževičius, J., & Buckus, R. (2024). Risk management maturity enhancement in healthcare through the application of quality management principles. *International Journal of Learning and Change*. Vol. 16, No 2/3, pp 132-170. (**Scopus**, Elsevier). DOI: https://doi.org/10.1504/IJLC.2024.137517 2. Bagherpour, H., Ruzele, D. (2023). Impact of Organizational Culture on Leanness: an Empirical Study with CVF Approach. *International Journal of Management Practice*. Vol. 16, No. 6. pp 765-789. **(AJG ABS1)** DOI: https://doi.org/10.1504/IJMP.2023.133944 3. Veronika Buckė, Darius Ruželė, Juozas Ruževičius, Raimondas Buckus (2022) The Cohesion of the Error Management Culture and Risk Management Maturity in Healthcare. 17th Prof. Vladas Gronskas International Scientific Conference. Kaunas: Vilnius University, Kaunas Faculty, 2nd of December, 2022. *Vilnius University Press,* Vol. 37, p. 20-27. ISSN 2669-2139, eISSN 2669-0233. DOI: https://doi.org/10.15388/VGISC.2023.3 4. Buckė, V., Ruželė, D., Ruževičius, J., & Buckus, R. (2022) „The Link Between the Application of Quality Management Principles and Risk Management in Healthcare ". 12th International scientific conference "Business and management 2022", May 12-13, 2022, Vilnius, Lithuania. *Vilnius: VGTU Press*. p. [1-12]. ISSN 2029-4441. eISSN 2029-929X. ISBN 9786094762888. eISBN 9786094762895. DOI: https://doi.org/10.3846/bm.2022.746 5. Stravinskienė, I., Serafinas, D., & Ruželė, D. (2022). Links between Business Process Management Capabilities, Robotic Process

Name and surname of consulting lecturer	Scientific degree	Main scientific achievements within scientific field within 5 years.
		Automation, and Organization Performance: a Theoretical Model. In D. Vrontis, Y. Weber, & E. Tsoukatos (Eds.), 15th Annual Conference of the EuroMed Academy of Business (EMAB): Sustainable Business Concepts and Practices, 797-812. EuroMed Press. ISBN: 978-9963-711-96-3. https://emrbi.org/wp-content/uploads/2022/09/euromed2022-book-of-proceedings-2022-09-16.pdf 6. Simonyte, S., Adomaitiene, R., Ruzele, D. (2021). Experience of lean application in higher education institutions. *International Journal of Lean Six Sigma.* **(AJG ABS1)** DOI: https://doi.org/10.1108/IJLSS-11-2020-0208 7. Zgirskas, A., Ruževičius, J., Ruželė, D. (2021). Benefits of Quality management standards in organizations. *Standards*, Vol. 12. ISSN: 2305-6703 (MDPI). DOI: https://doi.org/10.3390/standards1020013 8. Ruželė, D. (2020). Organizacinės kultūros muziejuose tyrimo metodika. *Muziejininkystės studijos: Modernaus muziejaus veiklos gairės*, V tomas, p. 10-31. Sudarytojas A. Puškorius. Vilnius: Akademikai. ISSN 2351-5104, ISBN 978-609-96071-4-6.

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