

Course title: Quality Management	Neptun code: GEGTT441-a
Course coordinator: Dr. Gyula Varga, associate professor, PhD	
type of lesson: 2 lectures per week (2+0)	
method of accountability: exam	
curriculum location of the subject: Spring	
pre-study conditions: -	
The task and purpose of the subject:	
The aim is to introduce the principles of quality management trends and to present the characteristics of their application.	
Course description:	
General management skills. Quality funds. The improved concept of quality. Management methods, tendencies. Organization, organizational development. Quality policy and strategy. Ways of creating strategies. The requirements of the company's quality assurance system, during design, development, production, installation and customer service (ISO 9001). Documentation of quality management systems. Integrated company management systems. Auditing and certification of quality management systems. Quality-cost components. Types of quality awards, application and evaluation system. Experimental design methods. The strategic system of computerized quality control. Quality analysis and development methods. The main characteristics of LEAN systems.	
Required literature:	
<ol style="list-style-type: none"> 1. Sunil Luthra, Dixit Garg, Ashish Agarwal, Sachin K. Mangla: Total Quality Management (TQM), Principles, Methods, and Applications, CRC Press, Taylor & Francis Group, 2021 2. Jack E. Reece: Measurement, Analysis, and Control Using JMP, Quality Techniques for Manufacturing, SAS Institute Inc., 2007 3. Thomas, A. – Lewis, G.: Developing an SME-based integrated TPM-Six Sigma strategy, Int. J. Six Sigma and Competitive Advantage, Vol. 3, No. 3, 2007, pp. 228-247 4. Douglas Brauer and John Cesarone: Total Manufacturing Assurance Controlling Product Quality, Reliability, and Safety, Second Edition, CRC Press, Taylor & Francis Group, 2022 5. Graeme Knowles, Quality Management, Download free eBooks at bookboon.com, 2011 	
Recommended literature:	
<ol style="list-style-type: none"> 1. Erdei János: Minőségmenedzsment módszerek II., Oktatási segédanyag, Budapesti Műszaki- és Gazdaságtudományi Egyetem, Budapest, 2019 2. MSZ EN ISO 9001:2015, Minőségirányítási rendszerek. Követelmények, (Magyar Szabvány) 3. Bedzsula Bálint, Erdei János, Topár József, Tóth Zsuzsanna Eszter: Minőségmenedzsment, Budapest, 2013, p.: 472 4. Breyfogle F. Implementing Six Sigma, John Wiley & Sons; 2nd edition, 2003, ISBN-13: 9780471265726 5. N.N.: Mérési rendszerek elemzése, MSA, Referencia kézikönyv, Negyedik kiadás, 2010. június, Chrysler Group LLC, Ford Motor Company, General Motors Corporation, ISBN: 978-1-60534211-5 	