Навчальна дисципліна

«Six Sigma» Methodology in Project Management

Field of knowledge «17 Electronics, automation and electronic communications»

Level of education	*second (master)*
Rank of the discipline	*selective*
Amount of study	90 hours/ 3 credits ECTS
Language	English
Abstract	**Six Sigma**, or 6σ, is both a methodology for process improvement and a statistical concept that seeks to define the variation inherent in any process. The overarching premise of Six Sigma is that variation in a process leads to opportunities for error, opportunities for error leads to risks for product defects. Product defects, whether in a process or a service, lead to poor customer satisfaction. By working to reduce variation and opportunities for error, the Six Sigma method ultimately reduces process costs and increases customer satisfaction. The discipline covers such a list of topics as: - Six Sigma history and application; - Other process improvement and quality methods; - Lean concepts; - Basic Six Sigma concepts; - Approaching the problem; - What is a process? ; - Quality; - Selecting the right projects; - Basic Six Sigma team management; - Introduction to DMAIC and DMADV cycles of process improvement; - Advanced DMAIC (Define, Measure, Analyze, Improve and Control stages); - Beginner and intermediate statistics and other useful and interesting data.
Prerequisites	Knowledge in beginner statistics, principles of total quality management.
Department	Intellectual Instrumentation Systems and Quality Management department
Faculty	Aviation Control Systems faculty
Lecturer	

Name	**Zabolotnyi Oleksandr**
Position	Dean of the faculty
Academic rank	Associate professor
Academic degree	Doctor of engineering sciences
e-mail	o.zabolotnyi@khai.edu

Link to online tutorials	https://mentor.khai.edu/course/
Link to the work programme (syllabus)	https://khai.edu/assets/files/silabusi/tehnichna-inozemna/rp_m_nmk-2_Six-Sigma-Methodology-in-Project-Management_tehn-inoz-mova(1).pdf