

<b>The title of the course</b>	<b>Process quality control</b>
<b>Faculty</b>	Faculty of Management and Transport
<b>The level of studies</b>	Undergraduate (BA)/ Postgraduate (MA)
<b>Semester</b>	Winter/summer
<b>The form of classes and number of hours</b>	Lectures and workshops – 15 h
<b>Classes conducted for Polish students. Erasmus students can join them</b>	Classes only for Erasmus students.
<b>Language of instruction</b>	English
<b>The number of ECTS</b>	ECTS: 4
<b>Teacher</b>	mgr inż. Barbara Słowiak bslowiak@ath.eu
<b>The aims of the course (maximum 500 characters)</b>	To present the theory and methods of quality monitoring including process capability, control charts, acceptance sampling, quality engineering, and quality design.
<b>The content of the course: main topics and key ideas</b>	This course discusses: <ul style="list-style-type: none"> <li>• the basic concepts of quality monitoring;</li> <li>• the statistical underpinnings of quality monitoring;</li> <li>• various available statistical tools of quality monitoring.</li> <li>• the statistical and economical design issues associated with the monitoring tools.</li> </ul>
<b>Didactics methods</b>	Presentations, conversations, case studies.
<b>Course requirements</b>	Students are expected to: <ul style="list-style-type: none"> <li>• read the assigned material and work the assigned problems before class and be prepared to discuss them in class;</li> </ul> prepare project on chosen topic. (preparation for classes, reading and analysing given materials; written assignments- 35h; preparation of the final presentation - 15h; preparation and presentation of the tasks - 20h)
<b>Literature (basic and supplementary)</b>	D. C. Montgomery (Edit.), <i>Introduction to Statistical Quality Control</i> , 7th Edition, New York: John Wiley & Sons, Inc., 2013.  J. S. Oakland, R. F. Followell, <i>Statistical process control: a practical guide</i> , Oxford: Butterworth-Heinemann, 1995
<b>The effects of the education</b> - knowledge - skills	Students are expect to:

<p>- <b>social competences</b></p>	<ul style="list-style-type: none"><li>• Knowledge: understand the basic concepts of quality monitoring; to know statistical tools of quality monitoring</li><li>• Skills: design and implement statistical tools to monitor processes</li><li>• Social competences: Students are expect to develop critical thinking and reasoning skills.</li></ul>
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