

Code.....

Course item: ...

**1. INFORMATION ABOUT THE COURSE****A. Basic information**

Name of course	<b>Technical Normalisation and Cost Estimation</b>
Study level	<i>first degree</i>
Unit running the study programme	<i>Faculty of Management, Department of Management Engineering</i>
Study programme	<i>Management</i>
Speciality	
Name of teacher (s) and his academic degree	<i>Mariusz Żółtowski, PhD</i>
Introductory courses	<i>none</i>
Prerequisites	<i>Knowledge management concepts and principles, the basics of manufacturing company organizations, technological processes, materials, skills in the production planning structuring and algorithmization. Fundamentals of algorithmization, mathematics and microeconomics.</i>

**B. Semester/week schedule of classes**

Semester	Lectures	Classes	Laboratories	Project	Seminars	Field exercises	ECTS
winter	30			30			4

**2. EFFECTS OF EDUCATION** (acc. to National Qualifications Framework)

Knowledge	<i>on completion of the course student shall be acquainted with the issues of project realization cost planning and monitoring.</i>
Skills	<i>on successful completion of the course student is supposed to be able to estimate technological project and determine the effectiveness of technical projects.</i>
Competences	<i>after the subject completion the student will have the ability to explain and solve fundamental problems related to project realization cost planning.</i>

**3. TEACHING METHODS**

<i>multimedia lecture, project</i>
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**4. METHODS OF EXAMINATION**

<i>written exam, project evaluation</i>
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**5. SCOPE**

Lectures	<i>Specificity of cost, effort and expense. Classification of costs. Revenue. Creating a result of corporate finance. Profitability threshold. The costs and revenue accounting. Budgeting and cost control. Cost Calculation. Types of estimates. Costing methods. Basics of costing. VAT. Calculation of operating equipment costs, labor costs, costs of purchased materials, indirect costs and profit in the detailed costings. Costing applications' support. Company's balance sheet. Fixed assets. Depreciation. Financial statements. Accounting the efficiency of investment - a simple method and discounted method. Company financing sources. The cost of capital. Optimization of capital structure. Remuneration. Cost accounting and cost analysis in technical projects. Methods of assessing the effectiveness of projects and determining the cost of design effort and labor cost. Fundamentals of costing and</i>
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	<i>technical projects costing methods.</i>
<i>Classes</i>	<i>Calculation of various types of costs including: operating equipment costs, labor costs, costs of purchased materials, indirect costs etc. Usage of various cost calculation methods and techniques. Budgeting and revenue accounting. Analysis of profitability threshold. Assessing result of corporate finance. Assessing company's balance sheet and fixed assets. As well as depreciation. Simple and discounted method of accounting the investment efficiency.</i>

## 6. LITERATURE

<i>Basic literature</i>	<i>Armstrong G.S, 2001. Essentials of Industrial Costing. Appleton Rad P., 2001. Project Estimating and Cost Management, Management Concepts Inc.</i>
<i>Supplementary literature</i>	<i>Callahan K., Stetz G., Brooks L., 2007. Project Management Accounting: Budgeting, Tracking and Reporting Costs and Profitability, Wiley. Głowacz Ł., 1999. Analiza ekonomiczna przedsięwzięć budowlanych. Politechnika Krakowska. Kosztorysowanie robót budowlanych. Cz. 1. Metoda, normy kosztorysowe, przedmiary. PZliTB, AUB Prospera, Warszawa 1994.</i>