

## COURSE DESCRIPTION CARD

NOTE: If the course includes lectures and classes, the Course Description Card applies to both types of instruction.

<b>1. Course title:</b> in Polish / in English ..... <b>Modelowanie finansowe w decyzjach ekonomicznych przedsiębiorstw</b> <b>Financial modelling for business decision making</b>	<b>2. Course code:</b> Number of ECTS credits: 3 Course completion mode: Z Course commenced / Year 2019/20																														
<b>3. Major: Finance and Accounting</b>																															
<b>4. Department of major coordinator: Banking and Financial Markets</b>																															
<b>5. Name of course instructor: Lecture Jerzy Kwiatkowski</b> Classes...                      Lab classes <b>Jerzy Kwiatkowski</b> <b>Examiner ...</b>																															
<b>6. Department of course instructor: Accounting</b>																															
<b>7. Number of contact hours with students:</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 35%;">Type of instruction</th> <th style="width: 30%;">Full-time study</th> <th style="width: 35%;">Part-time study</th> </tr> </thead> <tbody> <tr> <td>lectures</td> <td style="text-align: center;">15</td> <td></td> </tr> <tr> <td>classes</td> <td></td> <td></td> </tr> <tr> <td>foreign language classes</td> <td></td> <td></td> </tr> <tr> <td>lab classes</td> <td style="text-align: center;">30</td> <td></td> </tr> <tr> <td>seminars</td> <td></td> <td></td> </tr> <tr> <td>e-learning</td> <td></td> <td></td> </tr> <tr> <td>other</td> <td></td> <td></td> </tr> <tr> <td><b>Total hours</b></td> <td style="text-align: center;">45</td> <td></td> </tr> <tr> <td>examination (hours)</td> <td></td> <td></td> </tr> </tbody> </table>		Type of instruction	Full-time study	Part-time study	lectures	15		classes			foreign language classes			lab classes	30		seminars			e-learning			other			<b>Total hours</b>	45		examination (hours)		
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<b>8. Course timeframe - no. of semesters: 1</b>  Course commencement / Year 3  Course commencement / Semester 6 Summer																															
<b>9. Level of tertiary education: Bachelor</b>	<b>10. Course status</b> <input type="checkbox"/> Compulsory for the major... <input type="checkbox"/> Compulsory for the specialization Finance and Accounting for Business <input type="checkbox"/> Elective ...																														
<b>11. Course prerequisites</b> Compulsory: Accounting For Business, Corporate Finance Recommended: Financial Accounting, Financial Reporting and Analysis,																															

**12. Course objectives:**

1. Analysis of business ventures based on innovative solutions (new technologies, new products, inventions, research results)
2. Construction of an interactive financial model of the enterprise in a spreadsheet.
3. Interdisciplinary approach - the use of knowledge in the field of accounting, finance, management, investment.

**13. Teaching and learning methods:****A. Direct student-instructor contact:**

No.	Teaching methods	Description	Number of hours	
			Full-time study	Part-time study
1.	Lecture	presentation of the final assignment and financial modelling principles to be applied	15	
2.	Computer Lab	presentation of specific solutions for use in a spreadsheet, consulting the progress of students' work on the final assignment	30	
3.				
...				
Total			AS: 45	AN:

**B. Self-study:**

No.	Learning methods	Description	Number of hours	
			Full-time study	Part-time study
1.	analysis of source materials	collection of source materials by the student and their analysis	10	
2.	Independent work using a computer	improving the skills of using a spreadsheet	10	
3.	Preparing a report	student's choice of recommended solutions and their justification in the report	10	
...				
Total			BS: 30	BN:

Total AS+BS = 75.

Examination (E) = .....

Total AS+BS+E= 75

Total AN+BN = .....

Examination (E) = .....

Total AN+BN+E = .....

**14. Key words: financial analysis, investment analysis, financial model, financial projections****15. Course content:**

1. The student (or students in small groups) on the basis of the received description of the planned business activity based on an innovative idea / new technology will have the task to build an interactive financial model of the project; specific "practice" cases of technological start-ups for which this type of analysis was performed will be used.
2. In the first part of the workshop, the person conducting the course will assume the role

of originator / investor (usually commissioning this type of analysis), who will provide the student with all information and consult with him the "matter" of the project - the student's task is to collect necessary information (prices, unit costs, employment, salaries, interest rates, exchange rates, scale of operations, growth rate, etc.); .

3. Then the student - after identifying the key revenue and cost carriers of the planned undertaking - constructs a way of reflecting the business model in a spreadsheet (how assumptions, variables, the choice of sheet functions, construction of formulas); role of the lecturer - presentation of the possibilities of a spreadsheet, consulting with the student the choice and method of using spreadsheet tools.

4. The next step is the student's choice of how to account for planned events, taking into account accounting principles (including the selection of accounting policies in various areas), e.g. recognition of settlement of tangible investments, recognition of research and development costs, recognition of revenues and costs, depreciation plan, etc.

5. The final result of the student's work will be an interactive financial model containing:

a. A projection of the company's financial statements prepared in accordance with accounting principles and taking into account the principles of CIT and VAT taxation. profit and loss account. cash flow statement; iii. balance sheet; iv. revenue and cost budgets; v. investment expenditure plan; vi. fixed assets depreciation plan; vii. bank loan service plan.

b. additional analyzes specific to the project, such as: and. revenue and cost budgets; ii. calculation of selected financial analysis indicators; iii. calculation of investment effectiveness assessment measures (NPV, IRR); iv. analyzes supporting the construction of price and cost strategies.

**16. Course learning outcomes as related to the learning outcomes of the major and methods for assessing student attainment**

Intended learning outcomes of the major / Symbols	Intended learning outcomes of the course	Methods for assessing student learning outcomes	Documentation
<u>Knowledge</u>			
FiR1_W02#	1. Student has knowledge of the types of economic and social connections of the modern economy and the regularities that govern them, and knows how to use accounting information systems to reflect them. 2. Student knows the methods and tools to describe the structures and institutions of the real and financial sphere and analyze processes in them and between them also in the form of record and reporting models.	1. A team project constituting the financial analysis of a project / enterprise. 2.Presentation of the interactive project / enterprise financial model	1.An MS Excel workbook containing a financial model. 2.Report from the developed analysis
<u>Skills</u>			
FiR1_U02#	1. Student analyzes the causes and course of social, economic and financial processes also using information technology. 2. Student is able to effectively use resources and tools, including accounting standards, at his disposal to perform typical professional tasks	1.Work at the computer station. 2.Practical use of normative acts, accounting standards, programming documents and guidelines.	1.An MS Excel workbook containing a financial model. 2.Report from the developed analysis
<u>Social competences</u>			
FiR1_K02#	1. Recognizes and formulates problems, looks for optimal solutions for the given task, is able to take responsibility for the tasks entrusted to him using norms and standards 2. Is able to participate in building socio-economic projects, knows the legal,	1.Group work and discussion about the essence of the problem, defining the problem and indicating how to	1.An MS Excel workbook containing a financial model.

	economic and financial aspects of project implementation and is able to predict their effects in a basic way using also accounting models and methods	solve it. 2.Problem analysis and selection of materials constituting the basis for its solution (legal norms, industry standards, etc.)	2.Report from the developed analysis
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**17. Method for determining the final course grade:**

No.	Methods for awarding credits and course completion requirements	Description	Percentage of the final course grade*
1.	Report	A financial model in a spreadsheet and a report for decision makers should be built for a specific business venture	75?%
2.	Work at the computer with the possibility of using textbooks	Individual assessment of knowledge, skills and competences of the student in the field of the subject	25%
3.			

\* If students are required to obtain both a class grade and an exam grade, the class grade constitutes at least 30% of the final course grade.

**18. Reading list**

**Mandatory readings:**

1. Brigham E.F., Houston J.F.: Fundamentals of Financial Management . Wyd. South-Western/Thomson, International Edition, 2009.
2. Horngren C.T., Foster G. , Datar S. : Cost accounting : A Managerial Emphasis with cd rom. Prentice Hall Int , 2003.

**Suggested readings:**

1. Walkenbach J. Excel 2013 PL. Biblia, Helion, Gliwice 2013..

**19. Language of instruction: English**

**20. Course instructors' recommendations:**