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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Accounting
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	1/6
Form of instruction/Number of hours	

	Lectures	Classes
Full-time studies:	30	30
Part-time studies:	18	18

Disciplines

Name	Number of ECTS credits
Economics and Finance	7
	0
Other	0

Instructor responsible for syllabus	Prof. UEK dr hab. Marcin Kędzior
Intended learning outcomes	

Code	Description
C1	Familiarization with the most important accounting principles and financial positions
C2	Gaining skills in recording business operations and preparing the most important elements of financial statements
C3	Acquiring skills to set priorities to achieve the task, working in groups according to the legal and ethical rules
C4	The student will be able to cooperate in the group.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	Student knows and understands functions, objectives, and principles of modern accounting, and basic items used in financial accounting	P6S_WGS6
E2	U	Student is able to record the most important business transactions and prepare important elements of financial reporting	P6S_UW S1
E3	K	Student is ready to work individually and in groups in order to prepare basic components of financial reporting: statement of financial	P6S_KKS1

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			position, statement of comprehensive income. The student will be able to cooperate in the group.	
Methods of verification of learning outcomes				
Course content				

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
w1	Objectives, functions, principles of accounting	2	1
w2	Statement of financial position, chosen aspects, method, balance sheet aspects, form, items	4	1
w3	Dynamic assets and capital account, business operations, accounting records, bookkeeping accounts, general ledger accounts and sub-ledger records, accounting documents, accounting policy	4	1
w4	Measurement concepts in accounting: functions, valuation during the year and at the end of a financial year, methods of measurement	3	1
w5	Accounting of balance sheet operations	4	1
w6	Accounting of income statement operations, cost by type, cost by activity systems, prepayments and accruals	4	1
w7	The financial reporting – purpose, principles, users, elements of financial statements, requirements of financial statement publication and audit, IFRS conceptual framework - the qualitative characteristics of useful financial information	4	1
w8	Statement of comprehensive income – possible variants, steps of calculating the main items of the statement - gross profit (loss) on sales; operating profit (loss); profit (loss) on ordinary activities; profit before tax (gross profit or loss); profit after taxation (net profit or loss)	3	1
w9	Statement of cash flows, chosen aspects, form, items	2	1
c1	Characteristics of the annual report, financial and non-financial disclosure	2	1
c2	Characteristics of the assets and capitals of the economic unit (non-current and current assets, equity capital and liabilities, interdependencies between assets and capitals)	4	2
c3	Statement of financial position of economic units, structure, simplified interpretation	4	2
c4	Basics of accounting valuation, methods of valuation in business practice, valuation in the financial year and at the end of the period	2	1
c5	Economic operations and their impact on assets and capital (functioning of balance sheet accounts).	2	2
c6	Records of economic operations using the principle of double posting	4	2

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	c7	Functioning of balance sheet accounts - cost recording systems	4	3
	c8	Functioning of profit and loss accounts - cost recording systems	4	3
	c9	Statement of comprehensive income, the criteria for recognition of revenues and costs in the profit and loss account, the structure of statement of comprehensive income, determination of financial result (two variants), rules for preparing profit and loss account	2	1
	c10	Cash flow statement, operating, financial and investment activities, direct, indirect methods	2	1

Teaching methods

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	30	10
Test/examination taking	10	4
Student's self study	75	125
E-learning		
Others		
Total hours	175	175
Number of ECTS credits	7	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	P6S_WGS6	C1	w1; w3; w7; w8; w9, c1; c2; c3; c4	Blackboard exercises, discussion, e-learning, group work, working with text, presentation, simulation, auditorium lecture	Written exam, classroom activity, practical exercises, team project
E2	P6S_UWS1	C2	w2; w3-w9; c3; c5-c10;	Blackboard exercises, discussion, e-learning, group work, working with text, presentation, simulation, auditorium lecture	Written exam, classroom activity, practical exercises, team project
E3	P6S_KKS1	C3, C4	w1; w4, c3; c4; c9-c10	Blackboard exercises,	Written exam, classroom

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					discussion, e-learning, working with text, presentation, simulation, auditorium lecture	activity, practical exercises, team project
Basic literature	Elliott B., Elliott J., *Financial accounting and reporting*, Pearson, Harlow 2015. Choi F. D. S., Meek G. K., International Accounting, Pearson Prentice Hall, New Jersey 2011. Kędzior, M., Cyganska, M., & Syrrakos, D., Determinants of voluntary international financial reporting standards adoption in Poland. Engineering Economics, 2020, 31(2), 155-168.					
Supplementary literature	Kędzior M., *The impact of institutional factors on the voluntary application of IFRS in selected EU countries*, 35th IBIMA Conference: 1-2 April 2020, Seville, Spain. Kędzior M., Kędzior D., *Relations between IFRS adoption and financial and non-financial measures of economic entities, empirical results from the selected countries of Western Europe*, "European Financial Systems", 2018, Masaryk University, p. 251-258.					
Form and conditions of passing the course	The current grade is an arithmetic mean of grades gained in class. The final grade is a mean of the current grade (50%) and the examination grade (50%), both grades should be positive.					
Course instructors	dr hab. Marcin Kędzior, prof. UEK (Katedra Rachunkowości) Anna Mazurczak-Mąka, mgr (Katedra Rachunkowości)					
Additional information						

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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Bachelor's Seminar
Language of instruction	English
Code/Speciality	Global Finance and Accounting /Banking, financial markets and Insurance – CFA / ACCA
Code category	seminar
Course profile	General academic studies
PRK (Polish Qualification Framework) Level	6 – first degree
Year of study/term	3/5-6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:		60
Part-time studies:		36

Disciplines

Name	Number of ECTS credits
Economics and Finance	12

Instructor responsible for syllabus	Dr Katarzyna Mikołajczyk, Assistant Professor (Finance and Financial Policy Department)

Intended learning outcomes

Code	Description
G1	To present the principles and methods of writing Bachelor's thesis.
G2	To develop by students the ability to collect and analyse literature and empirical material, and to apply appropriate research methods.
G3	To develop by students the ability to carry out an in-depth analysis, both theoretical and empirical, and to answer research questions.
G4	The student will be able to cooperate in the group.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
O1	W	Student knows and understands the statutory, essential, editorial and ethical requirements for bachelor thesis.	FA_W01 FA_W02
O2	U	Student is able to write scientific dissertation (formulate research problem, write critical literature review, demonstrating knowledge and understanding of the academic literature on a specific topic, conduct empirical analysis to test research hypotheses, and provide final conclusions).	FA_U01 FA_U02 FA_U05 FA_U08 FA_U09
03	K	Student is ready for continuous self-development and respect ethical norms, copyright and intellectual property. The	FA_K01 FA_K02 FA_K06

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			student will be able to cooperate in the group.	

Methods of verification of learning outcomes	Other - the evaluation of advances in writing bachelor thesis

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
S1	General discussion focused on identifying research areas in the field of Finance.	4	2
S2	Defining the researchable problem and the broader context of the problem	4	2
S3	Statutory, essential and editorial requirements for Bachelor thesis. Structure of Bachelor thesis.	4	2
S4	Application and references to varied sources for writing Bachelor thesis (books, scientific papers, reports, Internet resources, legal acts, databases)	4	2
S5	Critical literature review	4	2
S6	Discussion on the draft of the first chapter of the thesis	4	3
S7	Discussion and evaluation of the final version of the first chapter	4	3
S8	Narrowing the research problem; Review of comparable studies and scientific papers on a specific topic	4	2
S9	Discussion on the draft of the whole theoretical part of the thesis	4	3
S10	Discussion and evaluation of the final version of whole theoretical part	4	3
S11	Designing an investigative procedure for the empirical part of the thesis	4	2
S12	Selecting and retrieving appropriate data, empirical analysis and interpretation of results	4	2
S13	Discussion on the draft of the empirical part of the thesis	4	3
S14	Discussion and evaluation of the empirical part of the thesis	4	3
S15	Writing introduction and summary. Bibliography.	4	2

Teaching methods	Seminar, discussion, flipped classroom, text analysis

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Student workload (number of contact hours, on-line work and self-study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	90	40
Test/examination taking		
Student's self-study	140	200
E-learning	0	0
Others	10	24
Total hours	300	300
Number of ECTS credits	12	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
O1	FA_W01 FA_W02	G1	S3	Seminar, discussion	Other - the evaluation of advances in writing bachelor thesis
O2	FA_U01 FA_U02 FA_U05 FA_U08 FA_U09	G2	S1-S15	Seminar, discussion, flipped classroom, text analysis	Other - the evaluation of advances in writing bachelor thesis
03	FA_K01 FA_K02 FA_K06	G3,G4	S1-S15	Seminar, discussion, flipped classroom, text analysis	Other - the evaluation of advances in writing bachelor thesis

Basic literature

R. G. Schroeder, Myrtle W. Clark, J. M. Cathey, *Financial accounting theory and analysis : text and cases*, John Wiley & Sons, Hoboken 2009.

Corporate finance: theory and practice, P. Vernimmen (ed.), John Wiley & Sons, Chichester 2009.

Supplementary literature

Form and conditions of passing the course

The final version of Bachelor thesis, approved by the academic tutor and submitted to the APD system.

Course instructors

Dr Habil. (H.C.) Joanna Wyrobek, Associate Professor
Dr Habil. (H.C.) Marcin Kędzior, Associate Professor
Dr Katarzyna Mikołajczyk, Assistant Professor

Oraz pozostałe osoby pozytywnie zaopiniowane przez Radę Instytutu Finansów

Additional information

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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Bank and insurance accounting
Language of instruction	English
Code/Speciality	Global Finance and Accounting: Corporate finance and accounting
Code category	
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	30
Part-time studies:	18	18

Disciplines

Name	Number of ECTS credits
Economics and finance	5

Instructor responsible for syllabus

Prof. UEK dr hab. Mariusz Andrzejewski
Dr Anna Bišta
mgr Iwona Mazur-Maślanka

Intended learning outcomes

Code	Description
O1	The student will gain knowledge of the basis of accounting in banks and insurance companies.
O2	The student will acquire skills of recording typical operations in bank and insurer accounts.
O3	The student will be able to cooperate in the group.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The student knows and understands the principles of bank and insurance operations, basics of accounting in banks and insurance companies.	P6S_WGS6
E2	U	The student is able to analyse and interpret basic accounting items in a bank and insurance company, prepare the most important elements of bank and insurance company financial statements: a balance sheet and a profit and loss account.	P6S_UWS1
E3	K	The student is ready to solve problems related to bank and insurance accounting in the daily life.	P6S_KRS1

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Methods of verification of learning outcomes	F1 Test F8 Activity in the classroom F9 Practical exercises
Course content	

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
L1	Definition, objectives, subject matter of bank accounting (specifics, types, nature of banks and banking activities, definitions of bank accounting). Legal bases of bank accounting. Classification of assets and liabilities. Current and year end valuation of individual components of assets and liabilities.	2	2
L2	Bank fixed assets (basic definitions, detailed division), functioning of: financial fixed assets, tangible and intangible assets, valuation of fixed assets.	2	1
L3	Cash settlement operations. Cash valuation and examples of basic record keeping.	2	1
L4	Operations with the Central Bank, financial entities, non-financial entities. Specificity of credit and loans receivables. Financial liabilities in banks. Deposit and loan records of non-financial entities. Allowances for impairment of receivables. Creation and reversal of provision.	2	1
L5	The bank's own funds. Capital valuation.	2	1
L6	Definitions of revenue and operating cost of the bank, profit and loss. Revenue and costs from interest and commissions, income and expenses on securities, other operating income and expense	2	1
L7	Preparation and presentation of financial statements of bank in accordance with IFRS (statement of financial position, statement of profit or loss and other comprehensive income, statement of changes in equity).	4	2
L8	Definition, objectives, specifics of insurance accounting Legal bases of insurance accounting. Classification of assets, equity and liabilities.	3	1
L9	Current and year end valuation of individual components of assets and liabilities (property plant and equipment, investment property and investment financial assets, classifications of settlements, technical provisions)	4	4
L10	Definitions and examples of revenue and costs of the insurance company (premiums, claims, acquisition costs, administrative expenses, income and costs from movement in technical provisions, other operating income and expenses etc.).	4	2
L11	Preparation and presentation of financial statements of insurance company in accordance	3	2

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		with IFRS 4 (statement of financial position, statement of profit or loss and other comprehensive income, statement of changes in equity).		
		TOTAL:	**30**	**18**
	Others:			
	O1	Basic elements of a bank's financial statements - practical examples	4	3
	O2	Fixed asset accounting and register - practical examples	2	1
	O3	Cash accounting - practical examples	2	1
	O4	Deposits of non-financial entities - practical examples	2	1
	O5	Credit accounting - practical examples	2	1
	O6	Revenue and cost accounting in banks - practical examples	3	2
	O7	Receivables and liabilities (contracts with clients, reinsurance and retrocession, settlements with agents and others)	3	2
	O8	Specific accounting practices for investments (financial assets, granted loans, land and buildings)	3	2
	O9	The types of technical provisions and methods of their creation. The principles of bookkeeping of technical provisions (the provision for unearned premiums and unexpired risks, provision for outstanding claims).	2	1
	O10	Revenue and cost accounting in insurance companies - practical examples	3	2
	O11	Practical examples for drawing up financial statements (statement of financial position, profit or loss account with other comprehensive income)	4	2
		TOTAL:	**30**	**18**

Teaching methods

N1 Lecture
N3 Presentation
N4 Discussion
N5 Group work
N7 Case study
N9 Blackboard exercises

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	5	5
Test/examination taking	5	5
Student's self study	25	49
E-learning	0	0
Others	30	30
Total hours	125	150
Number of ECTS credits	5	

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<table>
<tr><td>Course matrix</td><td>
<table>
<tr><th>Learning outcomes</th><th>Reference to learning outcomes</th><th>Course objectives</th><th>Course content</th><th>Teaching methods/tools</th><th>Assessment methods</th></tr>
<tr><td>E1</td><td>P6S_WGS6</td><td>O1</td><td>L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, L11</td><td>N1, N3</td><td>F1, F8</td></tr>
<tr><td>E2</td><td>P6S_UWS1</td><td>O2</td><td>O1, O2, O3, O4, O5, O6, O7, O8, O9, O10, O11.</td><td>N3,N4,N5,N7,N9</td><td>F1, F8, F9</td></tr>
<tr><td>E3</td><td>P6S_KRS1</td><td>O3</td><td>O1, O2, O3, O4, O5, O6, O7, O8, O9, O10, O11.</td><td>N3,N4,N5,N7,N9</td><td>F1, F8, F9</td></tr>
</table>
</td></tr>
<tr><td>Basic literature</td><td>Anna-Karin Stockenstrand , Fredrik Nilsson, Bank Regulation, Effects on Strategy, Financial Accounting and Management Control, Routledge 2018.

AICPA. Life and Health Insurance Entities - AICPA Audit and Accounting Guide. AICPA, 2012.

Khan, U., S. G. Ryan and A. Varma, Fair value versus amortized cost measurement and the timeliness of other-than-temporary impairments: Evidence from the insurance industry. The Accounting Review (November): 285-307, 2019.</td></tr>
<tr><td>Supplementary literature</td><td>Kiedrowska M., Insurance contracts in insurance accounting – selected recognition issues according to Polish regulations and the IFRS, Poznań University of Economics, Zeszyty Naukowe 2010 (163)

Verma, A., The future of insurance accounting. The CPA Journal (January): 66-68, 2009.</td></tr>
<tr><td>Form and conditions of passing the course</td><td>The minimal threshold for passing the course is set to be 50% of the exam points. The total number of points is calculated as a sum of the exam (80%) and activity in the classroom (20%).</td></tr>
<tr><td>Course instructors</td><td>Prof. UEK dr hab. Mariusz Andrzejewski (Katedra Rachunkowości Finansowej)
Dr Anna Biśta (Katedra Rachunkowości Finansowej)
mgr Iwona Mazur-Maślanka (Katedra Rachunkowości Finansowej)</td></tr>
<tr><td>Additional information</td><td></td></tr>
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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Banking
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	Major-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	2/3

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	30
Part-time studies:	18	18

Disciplines

Name	Number of ECTS credits
Economics and finance	6
Law	0
Other disciplines	0

Instructor responsible for syllabus: Ewa Miklaszewska, prof. dr hab. (Department of Banking and Global Financial System)

Course objectives

Code	Description
G1	To acquaint students with bank role and functions in the financial and economic system and compare it with other types of financial institutions
G2	To present the rationale for and evolution of banking regulations and the role of bank institutional safety net
G3	To acquaint students with the causes and effects of financial crises, including the analysis of the role of trust and reputation risk in banking activities
G4	To develop the ability to use methods and techniques for assessing bank performance, risk and safety
G5	To acquaint students with the evolution of banking products and services, particularly as a result of new technologies and competition from FinTech companies
G6	The student will be able to cooperate in the group.

Intended learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W (knowledge)	Students know norms and standards ensuring safe operation of banks and understand the impact of regulatory systems on the functioning of banks, students understand the strategies and business models of banks and recognize the basic types of risk in banking activities.	FA_W01 FA_W03 FA_W04 FA_W05 FA_W09
E2	U (skills)	Students are able to apply banking regulations to specific market situations, to assess bank resilience to crisis situations and to assess bank performance, including its risk, efficiency and health.	FA_U01 FA_U03 FA_U05 FA_U08

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	E3	K (social competence)	Students are prepared to critically assess their knowledge and to consult experts and external stakeholders to solve problems, including those regarding risk management and CSR	FA_K01 FA_K02 FA_K06
Methods of verification of learning outcomes	Presentation, test, group project, classroom activity			

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	The nature and role of financial intermediation and the functions of banks in bank-based and market - based financial models	4	2
W2	The role of the central bank, monetary policy and its transmission channels, Lender of Last Resort functions an macroprudential supervision	4	4
W3	The evolution of banking regulations and bank institutional safety net	2	1
W4	Global, European and national banking regulations and supervisory institutions	2	1
W5	The reasons for and consequences of bank failures and crises	2	1
W6	Risk areas and risk management in banking	4	2
W7	The technological revolution and the evolution of bank products and services and competition with the FinTech industry	4	2
W8	Bank strategy and business model: pre-crisis and post-crisis perspective; the role of ESG programs	4	2
W9	Bank customer protection and the prevention of fraud and crime.	2	1
W10	Cybercrime and cyberrisk	2	1
C1	The structure and evolution of the Polish banking market	4	2
C2	Bank stability and the risk management of Polish banks	4	2
C3	Methods of analysing bank performance	2	2
C4	The top Polish banks: efficiency and stability analysis	4	2
C5	The efficiency and stability of the cooperative sector	2	2
C6	The impact of the global financial crisis of 2008 on the Polish banking market	4	2
C7	The impact of the external shocks: the economic crisis of 2020 and geopolitical risk of 2022 on the Polish banking market	4	2
C8	Risk and return of traditional banking products and services	2	2
C9	Fintech products and their risk	2	1
C10	The competitive characteristics of the Polish banking market	2	1

Teaching methods	Lecture, discussion, case study, problem-based learning

Załącznik

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	15	15
Test/examination taking	5	4
Student's self study	70	95
E-learning	0	0
Others	0	0
Total hours	150	150
Number of ECTS credits	6	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W01 FA_W03 FA_W04 FA_W05 FA_W09	G1, G2, G3	W1-W10	auditorium lecture	test
E2	FA_U01 FA_U03 FA_U05 FA_U08	G4	C1-C10	class exercises, discussion, case study, work with text, problem-based learning, other	presentation, team project, individual project, classroom activity
E3	FA_K01 FA_K02 FA_K06	G5	C1-C10	discussion, problem-based learning, other	presentation, team project, individual project, classroom activity

Basic literature

1 B. Casu, C. Girardone, P. Molyneux, Introduction to Banking, Palgrave MacMillan 2021.
2 D. Cash and R. Goddard (eds), Regulation and the Global Financial Crisis, Routledge, 2021.
3 Ch. D. Piros, J. E. Pinto, L. Harris, Economics for Investment Decision Makers: Micro, Macro, Economics, CFA
Institute, 2013.

Supplementary literature

1 S. Cecchetti, K. Schoenholtz, Money Banking and Financial Markets, 2021.
2 C. Dinesen, Absent Management in Banking, Palgrave 2020.
3 S. Royo, Why Banks Fail, Palgrave 2020.
4 M. Brunnermeier, Resilient Society. Bubbles and Crashes, 2021.

Form and conditions of passing the course

The arithmetic mean of tutorial grade - sum of points accumulated in all activities.
Method of calculating the final grade:
40% grade for in-course activities + 60% grade for the final exam

Course instructors

Ewa Miklaszewska, Prof. (Department of Banking and Global Financial System)
Krzysztof Kil, PhD (Department of Banking and Global Financial System)
Michał Boda, PhD (Department of Banking and Global Financial System)
Radosław Ciukaj (Department of Banking and Global Financial System)

Additional information

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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	BASIC LAW
Language of instruction	ENGLISH
Code/Speciality	EF-FR-CF-X1-22/23Z-BASLAW
Code category	Global Finance and Accounting
Course profile	General academic
PRK (Polish Qualification Framework) Level	5
Year of study/term	1/2

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	15
Part-time studies:		

Disciplines

Name	Number of ECTS credits
Legal science	5

Instructor responsible for syllabus: Dr Jacek Lachner

Intended learning outcomes

Code	Description
C1	The student will acquire knowledge on the concept and significance of law as well as on principles of the application of law. In the course of it the student will learn about the concept and significance of constitutional law, general characteristics of civil law and other branches of the legal system.
C2	The student will acquire the ability to formulate and solve complex and unusual problems of legal cases and look for proper legal regulations of legal regulations of different legal branches.
C3	The student will acquire the ability to critically assess own knowledge and the content received in the fields of basic law.
C4	The student will be able to cooperate in the group.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The graduate knows and understand basic legal concepts, ethical aspects of rules and other determinants of a legal system, legal sources, interpretation of law and its appliance.	FA_W09 P6S_WKS2
E2	U	The graduate is able to formulate and solve complex and unusual problems in the field of basic law.	FA_U02 P6S_UWS2

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	E3	K	The graduate is ready to critically assess own knowledge and the content received in the fields of basic law.	FA_K01 P6S_KKS1
Methods of verification of learning outcomes	Test exam, Weighted or arithmetic average of partial grades, Activeness during class, Oral answers, Presentations, Individual projects, Team projects, Papers.			
Course content	Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
	L1	The concept and significance of law. Public law versus civil law. Provision and norm. Legal relationship. Kinds and hierarchy of normative acts. The principles of the application of law. Conflicts of laws. Presumption of law and presumption of fact. Interpretation of the law and types of interpretation, loopholes, the power of interpretation. Winding force of law.	2	2
	L2	Elements of constitutional law. Polish Republic Constitution and its systematics. System of EU law. Civic freedoms and rights and means of their protection. Organs of legislative authority, executive authority and court authority. Organs of state control.	2	1
	L3	General characteristics of civil law as a branch of the legal system. The subjects in civil law. The objects of civil law. The concept of obligation and its elements. The sources of obligations. Torts and liability in tort. Groundless enrichment. Concluding traditional and electronic contracts.	2	1
	L4	The concept and specific character of property law. Kinds of things. Types of property rights. Property – the concept, purchase, encumbrance, transfer, legal protection, co-ownership. Usufruct. Limited property rights. Collateral and mortgage.	2	1
	L5	Typology of agreements within general contracts and commercial contracts. The sale agreement.	3	1
	L6	The rent and lease agreement. Leasing agreement. Commissions for performing a specified task. Bank account agreement. Bank credit agreement. Contracts concluded under Law of Public Tenders.	2	1
	L7	Inheritance - basic rules, forms of testaments.	2	2
	C1	Administrative law. The concept and subject of administration. Structure of public administration bodies. Legal forms of administration. The concept, division and	3	2

Załącznik

		validity of administrative acts. Administrative Proceedings.		
	C2	Elements of labour law. The concept of labour law and pecuniary labour relations. Establishing and dissolution of work contract. Time of work and leaves. Remuneration for work. Responsibility for pecuniary labour relations. Protection of labour.	4	2
	C3	Protection of intellectual property. A comparison between copyright protection and industrial property protection.	3	1
	C4	Elements of criminal law. The concept of criminal offence. The principles of criminal responsibility and the circumstances excluding responsibility. Penalty and legal means of penalty. Sentencing. Carrying out of the penalty.	3	2
	C5	Elements of court proceedings in civil cases. The principles of general civil procedure. The principles of proceeding by writ of payment, reprimanding proceedings and civil procedures . The principles of executive proceedings. Mediation and arbitration proceedings. Electronic means of legal proceedings.	2	2

Teaching methods	Lecture, Case study, Discussion, Team-work, Presentation.

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	30	10
Test/examination taking	15	13
Student's self study	20	75
E-learning	5	
Others	10	
Total hours	125	125
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W09 P6S_WKS2	C1, C2, C3	L1 L2 L3 L4 L5 L6 L7 C1 C2 C3 C4 C5	N1 N3 N4 N5 N7	F3 F4 F5 F6 F7 F8 P3 P4
E2	FA_U02 P6S_UWS2	C1, C2, C3	L1 L2 L3 L4 L5 L6 L7	N1 N3 N4 N5 N7	F3 F4 F5 F6 F7 F8 P3 P4

Załącznik

				C1 C2 C3 C4 C5		
	E3	FA_K01 P6S_KKS1	C1, C2, C3	L1 L2 L3 L4 L5 L6 L7 C1 C2 C3 C4 C5	N1 N3 N4 N5 N7	F3 F4 F5 F6 F7 F8 P3 P4
Basic literature	S.Frankowski (editor), Introduction to Polish Law, Warszawa 2005, ISBN: 9789041123312					
Supplementary literature	Andrzej Szwarc, Wojciech Dajczak, Paweł Wiliński, Handbook of Polish Law, Warsaw 2011, ISBN: 9788326209871 The Civil Code w tłumaczeniu E.Kucharska, sip.legalis.pl THE CONSTITUTION OF THE REPUBLIC OF POLAND OF 2nd APRIL, 1997, sejm.gov.pl EU TRIETIES https://european-union.europa.eu					
Form and conditions of passing the course	The average of current evaluations is based on the arithmetic mean. The final evaluation in based on the arithmetic mean of the final exam or presentation evaluation (1/2) and the class evaluation (1/2).					
Course instructors	dr Jacek Lachner, mgr Paweł Dyrduł					
Additional information						

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Behavioral and experimental methods in finance
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	
Course profile	General academic studies
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	1/2

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economy and finance	5
Legal science	0
Other	0

Instructor responsible for syllabus: Prof. UEK dr hab. Elżbieta Kubińska, Dr Magdalena Adamczyk-Kowalczuk, dr Tomasz Jedynak, mgr Joanna Filiczkowska,

Intended learning outcomes

Code	Description
C1	The main aim of the course is to familiarize students with experimental and behavioral research methods in the field of finance.
C2	The aim is to provide students with the knowledge and skills to design and apply research methods in analyzing decision-making processes in the area of finance.
C3	Developing the ability to correctly and critically evaluate decision making with consideration of experimental and behavioral research.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The student knows the experimental and behavioral research methods in application to financial decisions. The student is familiar with the methods of data analysis and presentation.	P6S_WGS1, P6S_WKS1, P6S_WGS2
E2	U	The student is able to choose appropriate research methods to the studied problem. The student is able to analyse and present research results, as well as to draw conclusions from them on the individual and aggregated level.	P6S_UWS1, P6S_UOS1
E3	K	The student is ready to solve decision-making problems with methods of analyzing experimental data and consideration of behavioral factors influence.	P6S_KKS2

Methods of verification of learning outcomes:
F1 Test
F5 Team project
F8 Activity in the classroom
F9 Practical exercises

Course content

Code	Description	Number of hours	Number of hours

Załącznik

			Full-time studies	Part-time studies
	L1	Behavioral and experimental methods in social research. Identification and formulation of research problems in financial science	3	1
	L2	Elements of economic psychology	3	2
	L3	Survey research	3	2
	L4	Experimental research	3	2
	L5	Behavioral determinants of economic decisions	3	2
		TOTAL	**15**	**9**
	O1	Methods of collecting data from primary and secondary sources in the context of financial decisions.	3	2
	O2	Experimental research (anchoring, overconfidence)	3	2
	O3	Experimental research (money illusion, confirmation bias).	2	1
	O4	Decision errors associated with heuristics (conservatism)	3	2
	O5	Decision errors associated with heuristics (representativeness heuristics, availability heuristics).	2	1
	O6	Review of economic psychology questionnaires (SIRI)	3	2
	O7	Review of economic psychology questionnaires (DOSPERT, SPP).	2	1
	O8	Methods of presenting the obtained research results in the context of financial decisions – I level	3	2
	O9	Methods of presenting the obtained research results in the context of financial decisions – II level	2	1
	O10	Methods for analyzing results of experimental	3	2
	O11	Behavioral research.	2	1
	O12	Data segmentation methods.	2	1
		TOTAL	**30**	**18**

Teaching methods	N1	Lecture
	N3	Presentation
	N4	Discussion
	N5	Group work
	N6	Simulation
	N7	Case study
	N11	E-learning

Student workload (number of contact hours, on-line work and self-study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	7	5
Test/examination taking	13	13
Student's self-study	30	48
E-learning	30	32
Others	0	0
Total hours	125	125
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods

Załącznik

	E1	P6S_WGS1, P6S_WKS1, P6S_WGS2	C1	L1, L2, L3, L4, L5	N1, N3, N11	F1
	E2	P6S_UWS1, P6S_UOS1	C2	O1, O2, O4, O7	N3, N4, N5, N6, N7, N11	F8, F9
	E3	P6S_KKS2	C3	O3	N3, N4, N5, N6, N7, N11	F5
Basic literature	Kahneman, D., & Tversky, A. (2000). Choices, Values, and Frames. Cambridge University Press, Russel Sage Foundation					
Supplementary literature	Kahneman, D. (2012) Thinking fast, thinking slow. New York: Straus and Giroux Thaler, R.H., Sunstein C.R. (2021) Nudge. Allen Lane Penguin Random House UK					
Form and conditions of passing the course	The minimal threshold for passing the course is set to be 50%. The total number of points is calculated as an average from the exam (weight 60%) and the group project (weight 40%).					
Course instructors	Prof. UEK dr hab. Elżbieta Kubińska, dr Magdalena Adamczyk-Kowalczuk					
Additional information	Teaching and examination can be taken online					

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Business analysis and planning
Language of instruction	English
Code/Speciality	Banking, financial markets and insurance
Code category	Global Finance and Accounting
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	15
Part-time studies:	9	9

Disciplines

Name	Number of ECTS credits
Economics and finance	3
Law	0
Other disciplines	0

Instructor responsible for syllabus: Maciej Cycoń, dr

Intended learning outcomes

Code	Description
C1	Familiarizing students with the principles of drawing up business plans
C2	Developing the ability to develop business plans for your own and other entities
C3	Developing the ability to analyze business plans prepared by other people and business entities
C4	The student will be able to cooperate in the group

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The student knows the methods of obtaining market data, as well as the analysis of marketing and financial research, appropriate for the preparation of a business plan	FA_W02 FA_W06 FA_W07
E2	U	The student is able to develop business plans, strategic plans and other planning studies related to investment and development projects	FA_U02 FA_U03 FA_U08
E3	K	The student is ready to implement the planned economic project, while being open to the opinions of experts in the event of difficulties in solving the problem on his own	FA_K01 FA_K02 FA_K05

Methods of verification of learning outcomes:
F4 Presentation
F5 Team project

Załącznik

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
L1	Introduction to the issues of the business plan	2	1
L2	Own resource analysis	2	1
L3	Marketing analysis	3	2
L4	Strategic analysis and strategic plan	2	1
L5	Financial plan	2	1
L6	Financial analysis	2	2
L7	Assessment of the effectiveness and feasibility of the project	2	1
C1	Characteristics of the investment project	2	1
C2	Market capacity analysis	1	1
C3	Estimating the number of products sold	2	2
C4	Promotion and competition strategy	3	2
C5	Financial plan	2	1
C6	Economic and financial projection	3	1
C7	Presentation of business plans	2	1

Teaching methods

N1 Lecture
N3 Presentation
N4 Discussion
N5 Group work
N6 Simulation
N7 Case study
N17 Problem-based learning

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	8	10
Test/examination taking	2	2
Student's self study	35	45
E-learning	0	0
Others	0	0
Total hours	75	75
Number of ECTS credits	3	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1 W	FA_W02 FA_W06 FA_W07	C1	L1, L2, L3, L4, L6, L7, C1, C2	N1, N3, N4, N5, N6, N7, N17	F4, F5
E2 U	FA_U02 FA_U03 FA_U08	C1, C2	L1, L2, L3, L4, L5, L6, L7, C1, C2, C3, C4, C5, C6	N1, N3, N4, N5, N6, N7, N17	F4, F5
E3 K	FA_K01 FA_K02 FA_K05	C2, C3,C4	L2, L3, L4, L5, L6, L7,	N1, N3, N4, N5, N7, N17	F4, F5

Załącznik

				C1, C2, C3, C4, C5, C6, C7			
Basic literature	Ekanem I., *Writing a Business Plan: A Practical Guide*, Routledge, 2017. Grit R., *Making a Business Plan*, Routledge, 2012.						
Supplementary literature	Finch B, *How to write a business plan*, Kogan Page Ltd London, Philadelphia New Delhi, 2010. Abrams R., *Successful Business Plan: Secrets & Strategies*, Planning Shop, 2019.						
Form and conditions of passing the course	Team project (maximum 3 people in a team) - developing a business plan for a new company						
Course instructors	Cycoń Maciej, dr Jedynak Tomasz, dr						
Additional information	-						

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Business Valuation
Language of instruction	English
Code/Speciality	Global Finance and Accounting: Corporate Finance and Accounting
Code category	General
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6
Year of study/term	Year 3, semester 6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	15
Part-time studies:	9	9

Disciplines

Name	Number of ECTS credits
Economics and finance	4
Legal sciences	0
Other	0

Instructor responsible for syllabus	Joanna Wyrobek, dr hab. inż. prof. UEK

Intended learning outcomes

Code	Description
Objectives 1	Understanding business valuation tools to support management functions of economic entities
Objectives 2	The practical use of knowledge on the concepts, systems and methods of business valuation, and their application in strategic and operational management
Objectives 3	Developing skills of deductive thinking, making synthesis and analysing of financial figures

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	Student knows and understands methods and techniques of business valuation	FA_W05, FA_W02,
E2	U	Student is able to use theoretical knowledge to the analysis of decision problems in business enterprises	FA_U03, FA_U04, FA_U06,
E3	K	Student is ready to to acquire knowledge, properly interpret the results of analyses of short and long-term decision-making problems and point out the practical possibilities of their use for the companies	FA_K01,

Methods of verification of learning outcomes	Written exam, quiz, test, weighted or arithmetic average of partial grades, class participation, colloquium, individual project, group project, blackboard tasks, activity in the classroom, practical exercises

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies

Załącznik

	L1	Nature and purpose of the valuation of business and financial assets, company valuation – idea and classifications	1	1
	L2	Return concepts	2	1
	L3	Industry and company analysis	2	1
	L4	Discounted dividend valuation	2	1
	L5	Discounted cash-flow valuation	2	1
	L6	Market-based valuation	2	2
	L7	Residual income valuation	2	1
	L8	Private company valuation	2	1
		TOTAL	15	9
	T1	Return concepts	2	1
	T2	Industry and company analysis	2	1
	T3	Discounted dividend valuation	2	1
	T4	Discounted cash-flow valuation	2	2
	T5	Market-based valuation	2	2
	T6	Residual income valuation	2	1
	T7	Private company valuation	3	1
		TOTAL	15	9

Teaching methods

N1 Lecture
N3 Presentation
N4 Discussion
N5 Group work
N7 Case study
N9 Blackboard exercises
N11 E-learning

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	23	2
Test/examination taking	2	25
Student's self study	45	55
E-learning		
Others		0
Total hours	100	100
Number of ECTS credits	4	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W05, FA_W02	Objectives 1	L1, L2, L3, L4, L5, L6, L7	Blackboard exercises, discussion, e-learning, group work, Case study presentation, simulation, auditorium lecture	Class participation, blackboard exercises, written exam + project
E2	FA_U03, FA_U04, FA_U06,	Objectives 2	T1, T2, T3, T4, T5, T6 ,T7	Blackboard exercises, discussion, e-learning, group work, Case study presentation, simulation, auditorium lecture	Class participation, blackboard exercises, quiz/test

Załącznik

	E3	FA_K01,	Objectives 3	L1, L2, L3, L4, L5, L6, L7, T1, T2, T3, T4, T5, T6, T7	Blackboard exercises, discussion, e-learning, group work, Case study presentation, simulation, auditorium lecture	Class participation, blackboard exercises, written exam
Basic literature	Pinto J., Henry E., Robinson T., Stowe J., Wilcox S., Equity Asset Valuation, CFA Institute, 2020 Pinto J., Henry E., Robinson T., Stowe J., Wilcox S., Equity Asset Valuation: Workbook, CFA Institute, 2020					
Supplementary literature	BPP ACCA: Financial Management F9, study text, BPP, New York, 2022. BPP ACCA: Financial Management F9, Practice and Revision Kit, BPP, New York, 2022 BPP ACCA: Advanced Financial Management P4, study text, BPP, New York, 2022 [topics] Valuation and the use of free cash flows, Valuation of acquisitions and mergers, regulatory framework and processes, financing mergers and acquisitions BPP CIMA F3 – Financial strategy, BPP, New York, study text+practice and revision kit, New York, 2022 (whole book) BPP CIMA E3 – Enterprise strategy, BPP, New York, study text+practice and revision kit, New York, 2022 (whole book) BPP CIMA E2 – Enterprise management, BPP, New York, study text+practice and revision kit, New York, 2022 (whole book) BPP CIMA P1 – Enterprise management, BPP, New York, study text+practice and revision kit, New York, 2022 (basic aspects of management accounting, cost accounting systems, the theory and practice of of standard costing, development in management accounting, forecasting and budgeting, dealing with risk and uncertainty, project appraisal, managing working capital) Wyrobek Joanna , Stańczyk Zbigniew, Brand Valuation on the Example of Wieliczka Salt Mine, Journal of Management and Finance. - R. 11, nr 1, cz. 4 (2013) , s. 621-638. Wyrobek Joanna, Wpływ struktury kapitałowej firmy na jej wartość, Finansowe warunki rozwoju regionalnego po wejściu Polski do Unii Europejskiej / red. Stanisław OWSIAK - Bielsko-Biała: Wydawnictwo Wyższej Szkoły Bankowości i Finansów, 2007, s. 353-361.					
Form and conditions of passing the course	The final grade is a mean of the tutorials grade E2 (50%) and the examination grade E1 (25%) and project grade E1 (25%), all grades should be positive (written exam, quiz and project grades have to be positive).					
Course instructors	Joanna Wyrobek, dr hab. inż., prof. UEK					
Additional information	Tutorial classes take place in a computer laboratory. During exam students are not allowed to use electronic devices except for calculators which should brought by students.					

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Controlling and Computerized Accounting Systems in an Enterprise
Language of instruction	English
Code/Speciality	Global Finance and Accounting: Corporate finance and accounting
Code category	
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	3/5

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economics and finance	4
Legal science	0
Other	0

Instructor responsible for syllabus	dr Magdalena Adamczyk-Kowalczuk

Intended learning outcomes
Course objectives

Code	Description
C1	The main aim of the course is to familiarize students with knowledge on selected tools of operational and strategic controlling
C2	The main aim of the course is to familiarize students with computerized accounting systems used in enterprises
C3	Students can gain the skills to solve independently accounting problems in a digital environment.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The student knows and understands the role of selected tools of operational and strategic controlling.	P6S_WGS7
E2	U	The student is able to apply acquired knowledge on controlling in the context of managerial problems of the enterprise, especially in the digital environment.	P6S_UWS1 P6S_UWS2
E3	K	The student is ready to work to pursue a project related to controlling issues in a digital environment.	P6S_KKS1

Methods of verification of learning outcomes	F1 Test F5 Team project F8 Activity in the classroom F9 Practical exercises

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies

Załącznik

	W1	The essence, objectives and tasks of controlling in the enterprise	3	2
	W2	Controlling in the organizational structure	2	1
	W3	Controlling design and stages of implementation	2	1
	W4	Controlling area in responsibility centers of enterprises: cost center and revenue center	3	2
	W5	Controlling area in responsibility centers of enterprises: profit center and investment center	3	2
	W6	Conditions for the effectiveness of the controlling system in the enterprise	2	1
		TOTAL	**15**	**9**
	C1	Introduction to computerized accounting systems in an enterprise and system parameterization	2	1
	C2	Organization of the accounting system in the digital environment (plan of accounts, general ledger, accounting journals)	3	2
	C3	Entering the opening balance and posting simple accounting records (accounting schemes, elements of Artificial Intelligence, etc.)	4	2
	C4	Recording more complicated transactions in the system	4	3
	C5	Correcting errors, finding needed information, exporting to external applications	3	2
	C6	Reporting financial information (trial balance, accounting statements).	4	2
	C7	Strategic planning	3	2
	C8	Operative planning, budgeting and forecasting	3	2
	C9	Controlling tools in computerized accounting systems	2	1
	C10	Designing effective IT support for controlling	2	1
		TOTAL	**30**	**18**
Teaching methods	N1 Lecture N3 Presentation N4 Discussion N5 Group work N6 Simulation N7 Case study N9 Blackboard exercises N11 E-learning			

Załącznik

<table>
<tr><td>Student workload (number of contact hours, on-line work and self study)</td><td>
<table>
<tr><td rowspan="2">Activity type</td><td colspan="2">Number of hours</td></tr>
<tr><td>Full-time studies</td><td>Part-time studies</td></tr>
<tr><td>Participation in classes involving direct contact with the lecturer</td><td>45</td><td>27</td></tr>
<tr><td>Office hour participation</td><td>10</td><td>10</td></tr>
<tr><td>Test/examination taking</td><td>10</td><td>8</td></tr>
<tr><td>Student’s self study</td><td>35</td><td>55</td></tr>
<tr><td>E-learning</td><td>0</td><td>0</td></tr>
<tr><td>Others</td><td>0</td><td>0</td></tr>
<tr><td>Total hours</td><td>100</td><td>100</td></tr>
<tr><td>Number of ECTS credits</td><td colspan="2">4</td></tr>
</table>
</td></tr>
<tr><td>Course matrix</td><td>
<table>
<tr><td>Learning outcomes</td><td>Reference to learning outcomes</td><td>Course objectives</td><td>Course content</td><td>Teaching methods/tools</td><td>Assessment methods</td></tr>
<tr><td>E1</td><td>P6S_WGS7</td><td>C1</td><td>W1, W2, W3, W4, W5, W6</td><td>N1, N2, N4, N11</td><td>F1, F8</td></tr>
<tr><td>E2</td><td>P6S_UWS1
P6S_UWS2</td><td>C2</td><td>W1, W2, W3, W4, W5, W6, C1, C2, C5, C6, C7, C8,C9, C10</td><td>N4,N5,N6,N7,N9,N11</td><td>F1, F5, F8, F9</td></tr>
<tr><td>E3</td><td>P6S_KKS1</td><td>C3</td><td>C1, C2, C3, C4, C5, C6, C7, C8,C9, C10</td><td>N4,N5,N6,N7,N9,N11</td><td>F1, F5, F8, F9</td></tr>
</table>
</td></tr>
<tr><td>Basic literature</td><td>A. Drysdale, The financial controller, Management Books 2000 Ltd, New York, 2010.
J. Alexander, Financial Planning & Analysis and Performance Management, John Wiley&Sons, 2018, New York.</td></tr>
<tr><td>Supplementary literature</td><td>D. Parmenter, The Financial Controller and CFO's Toolkit, Lean Practices to Transform Your Finance Team, Wiley Corporate F&A, 2016, New York.
V. Richardson, Ch. Chang, R. Smith, Accounting Information Systems, McGraw-Hill Education, New York, 2020.</td></tr>
<tr><td>Form and conditions of passing the course</td><td>The minimal threshold for passing the course is set to be 50%. The total number of points is calculated as an average from the exam (lecture) and the project (computerized accounting systems).</td></tr>
<tr><td>Course instructors</td><td>Dr Habil. Konrad Grabiński, Associate Professor , dr Magdalena Adamczyk-Kowalczuk</td></tr>
<tr><td>Additional information</td><td>Test/examination can be taken online</td></tr>
</table>

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Corporate Finance
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	General
Course profile	General Academic
PRK (Polish Qualification Framework) Level	Level 6 – Bachelor Studies
Year of study/term	2/3

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economics and finance	5
Legal sciences	0
Other disciplines	0

Instructor responsible for syllabus	Joanna Wyrobek, dr hab. inż. prof. UEK

Intended learning outcomes

Code	Description
Objectives 1	Transfer of knowledge in the field of theoretical basis of corporate finance
Objectives 2	Developing skills related to how to make use of corporate finance knowledge and solve problems appearing in the field of corporate Finance
Objectives 3	The student will be able to cooperate in the group.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	Student has knowledge of corporate finance tools and methods, including techniques of collecting and processing data which enable description and assessment of companies and their financial decisions.	FA_W01
E2	U	Student can use corporate finance tools and techniques to solve problems appearing in a professional career and they predict probable results of taken actions.	FA_U01
E3	K	Student is ready to critically assess the received content in the field of corporate finance.	FA_K01

Załącznik

<table>
<tr><td>Methods of verification of learning outcomes</td><td colspan="4">Written exam, quiz, test, weighted or arithmetic average of partial grades, class participation, colloquium, individual project, group project, blackboard tasks, activity in the classroom, practical exercises</td></tr>
<tr><td>Course content</td><td>Code</td><td>Description</td><td>Number of hours Full-time studies</td><td>Number of hours Part-time studies</td></tr>
<tr><td></td><td>L1</td><td>Introduction to the course, literature, assessment, grading, office hours, contact, where is the course's website, rules of conduct, the nature and purpose of financial management</td><td>1</td><td>1</td></tr>
<tr><td></td><td>L2</td><td>Construction and analysis of financial statements: balance sheet, income statement, conceptual framework for financial reporting, the main elements of financial statements prepared in accordance with IFRS, statement of financial position, statement of comprehensive income</td><td>4</td><td>1</td></tr>
<tr><td></td><td>L3</td><td>Construction and analysis of cash flow statement and funds flow statement, the main elements of financial statements prepared in accordance with IFRS: statement of changes in equity, statement of cash flows, funds flow statement, cash flow statement, difference between funds flow and cash flow statement</td><td>2</td><td>1</td></tr>
<tr><td></td><td>L4</td><td>Introduction to analysis of financial statements (introduction to financial analysis, ratio analysis: liquidity ratios, solvency ratios, profitability ratios, debt/ indebtedness ratios/analysis, activity ratios, market ratios, leverage and risk ratios, disturbances in the comparability of financial statements, vertical and horizontal analysis of financial statements, types of financial statement analysis, techniques of financial statement analysis, comparative statement analysis, comparative balance-sheet analysis, comparative profit and loss account analysis, trend analysis, common size analysis)</td><td>2</td><td>1</td></tr>
<tr><td></td><td>L5</td><td>Working capital management: the nature, elements and importance of working capital, management of inventories, accounts receivable, accounts payable and cash, determining working capital needs and funding strategies (introduction, meaning of working capital, definitions, concept of working capital, gross working capital, net working capital, component of working capital, types of working capital, permanent working capital, temporary working capital, semi variable working capital, needs of working capital, working capital position/balanced working capital position, factors determining working capital requirements, computation (or estimation) of working capital, working capital management policy, sources of working capital, determining</td><td>2</td><td>2</td></tr>
</table>

		the finance mix, hedging approach, conservative approach, aggressive approach, types of short-term finance including trade payables, overdrafts, short-term loans and debt factoring, types of cash investment including interest-bearing deposits, short-term treasury bills and other securities, calculation of trade receivable, trade payable and inventory days, working capital cycle, policies for the management of the total level of investment in working capital – aggressive, moderate and conservative, methods of trade receivables management, including credit control procedures, methods of trade payables management and significance of trade payables as a source of finance and how this affects the relationship with suppliers, methods of inventory management, (EOQ), evaluate working capital policies, approaches to the financing of the investment in working capital – aggressive, moderate and conservative.		
	L6	Introduction to investment appraisal (introduction to capital budgeting): investment appraisal techniques: cash-flow construction, NPV, IRR, PP, DPP, PI, MIRR, long-term decision-making problems, simple and dynamic methods of evaluation of investment projects. (evaluation methods of business projects), decision making under risk, capital budgeting -effectiveness of long-term decisions.	2	2
	L7	Introduction to capital structure and cost of capital estimation: cost of equity -> Gordon-Shapiro model , CAPM, APT, Cost of Debt, Bond Valuation Model, IRR of a bond, IRR of short-term debt papers, Cost of bank loans, WACC, Capital structure theories, Sources of, and raising, business finance, estimating the cost of capital, sources of finance and their relative costs, Markowitz portfolio theory (corporate finance), equilibrium models of the capital market - CAPM and APT model.	2	1
	T1	Introduction to the course, literature, assessment, grading, office hours, contact, where is the course's website, rules of conduct, the nature and purpose of financial management	2	2
	T2	Construction and analysis of financial statements: balance sheet, income statement, conceptual framework for financial reporting, the main elements of financial statements prepared in accordance with IFRS, statement of financial position, statement of comprehensive income	4	2
	T3	Construction and analysis of cash flow statement and funds flow statement, the main elements of financial statements prepared in	4	2

		accordance with IFRS: statement of changes in equity, statement of cash flows, funds flow statement, cash flow statement, difference between funds flow and cash flow statement		
	T4	Introduction to analysis of financial statements (introduction to financial analysis, ratio analysis: liquidity ratios, solvency ratios, profitability ratios, debt/ indebtedness ratios/analysis, activity ratios, market ratios, leverage and risk ratios, disturbances in the comparability of financial statements, vertical and horizontal analysis of financial statements, types of financial statement analysis, techniques of financial statement analysis, comparative statement analysis, comparative balance-sheet analysis, comparative profit and loss account analysis, trend analysis, common size analysis)	4	2
	T5	Working capital management: the nature, elements and importance of working capital, management of inventories, accounts receivable, accounts payable and cash, determining working capital needs and funding strategies (introduction, meaning of working capital, definitions, concept of working capital, gross working capital, net working capital, component of working capital, types of working capital, permanent working capital, temporary working capital, semi variable working capital, needs of working capital, working capital position/balanced working capital position, factors determining working capital requirements, computation (or estimation) of working capital, working capital management policy, sources of working capital, determining the finance mix, hedging approach, conservative approach, aggressive approach, types of short-term finance including trade payables, overdrafts, short-term loans and debt factoring, types of cash investment including interest-bearing deposits, short-term treasury bills and other securities, calculation of trade receivable, trade payable and inventory days, working capital cycle, policies for the management of the total level of investment in working capital – aggressive, moderate and conservative, methods of trade receivables management, including credit control procedures, methods of trade payables management and significance of trade payables as a source of finance and how this affects the relationship with suppliers, methods of inventory management, (EOQ), evaluate working capital policies, approaches to the financing of the investment in working capital – aggressive, moderate and conservative.	4	2

Załącznik

	T6	Introduction to investment appraisal (introduction to capital budgeting): investment appraisal techniques: cash-flow construction, NPV, IRR, PP, DPP, PI, MIRR, long-term decision-making problems, simple and dynamic methods of evaluation of investment projects. (evaluation methods of business projects), decision making under risk, capital budgeting -effectiveness of long-term decisions.	4	2
	T7	Cost of capital calculations - cost of equity calculation, Gordon-Shapiro Model, CAPM model - cost of debt calculation, cost of bonds calculation, tax shield, approximate yield to maturity - cost of short-term debt instruments, discount based formula - cost of bank loans, tax shield, obligatory cash reserve, repayment in equal installments, repayment in equal nominal rates, introduction to capital structure decisions	4	2
	T8	Capital structure decisions, capital structure theories and practical considerations	2	2
	E	Quiz	2	2
			45	27

Teaching methods	N1 Lecture N3 Presentation N4 Discussion N5 Group work N7 Case study N9 Blackboard exercises N11 E-learning

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	20	18
Test/examination taking	5	5
Student's self study	50	75
E-learning	0	0
Others (contact hours)	0	0
Total hours	125	125
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W01	Objectives 1	L1, L2, L3, L4, L5, L6, L7, T1, T2, T3, T4, T5, T6, T7, T8	Blackboard exercises, discussion, e-learning, group work, Case study presentation, simulation, auditorium lecture	Written exam + project
E2	FA_U01	Objectives 2	T1, T2, T3, T4, T5, T6, T7, T8	Blackboard exercises, discussion, e-learning, group work, Case study presentation,	Quiz/Test

Załącznik

					simulation, auditorium lecture	
	E3	FA_K01	Objectives 1, Objectives 2, Objectives 3	L1, L2, L3, L4, L5, L6, L7, T1, T2, T3, T4, T5, T6, T7, T8	Blackboard exercises, discussion, e-learning, group work, Case study presentation, simulation, auditorium lecture	Class participation, exam
Basic literature	1. Richard Brealey, Steward Myers, "Principles of corporate finance", McGraw-Hill, New York, 2017. 2. Michelle R. Clayman, Martin S. Fridson, George H. Troughton, Matthew Scanlan, Corporate Finance: A practical approach, CFA Institute, New York, 2012.					
Supplementary literature	1. BPP CIMA F1: Financial Operations, chapters concerning financial statements: balance sheet, income statement and cash-flow statement, BPP, New York, 2022. 2. BPP CIMA F3: Financial Strategy (whole book), BPP, New York, 2022. 3. BPP CIMA: Practice Workbook: Strategic Case Study Exam, BPP, New York, 2022. 4. BPP ACCA: Financial Management F9, study text, BPP, New York, 2022. 5. BPP ACCA: Financial Management F9, Practice and Revision Kit, BPP, New York, 2022. 6. Joanna Wyrobek, Łukasz Popławski, Elżbieta Kubińska, Financial Situation of the Chemical Industry in Poland Compared to Europe and the World. Part 1, General Situation and Liquidity Analysis, Przemysł Chemiczny. - t. 100, nr 1 (2021) , s. 87-90. 7. Joanna Wyrobek, Łukasz Popławski, Elżbieta Kubińska, Financial Situation of the Chemical Industry in Poland Compared to Europe and the World. Part 2, Analysis of Efficiency, Profitability and Solvency Ratios, Przemysł Chemiczny. - t. 100, nr 1 (2021) , s. 91-98. 8. Wyrobek Joanna , Popławski Łukasz , Dzikuć Maria, Analysis of Financial Problems of Wind Farms in Poland, Energies. - vol. 14, iss. 5 (2021) , s. 1-34.					
Form and conditions of passing the course	The final grade is a mean of the tutorials grade E2 (50%) and the examination grade E1 (25%) and project grade E1 (25%), all grades should be positive (written exam, quiz and project grades have to be positive).					
Course instructors	dr. hab. Inż. Joanna Wyrobek, prof. UEK					
Additional information	Students who leave the CUE before the end of semester can take the quiz and exam before the time of exam session, but it has to be arranged in advance, at the beginning of the course. Students are required to bring their own calculators for tutorials, quizes and exams. Ćwiczenia odbywają się w laboratorium komputerowym.					

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Econometrics
Language of instruction	English
Code/Speciality	Global finance and accounting
Code category	Major-related/speciality-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	2/3

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	15
Part-time studies:	9	9

Disciplines

Name	Number of ECTS credits
Economics and finance	3
Law	0
Other disciplines	0

Instructor responsible for syllabus: Wróblewska Justyna, Prof. (Department of Econometrics and Operational Research)

Intended learning outcomes

Code	Description
C1	Discussion of the purpose and research methods of econometrics, presentation of the steps of building an econometric model, overview of the basic properties of cross-sectional data, time series, and panel data as well as the models used for their analysis
C2	Developing the ability to build and analyse linear regression models using point estimation and confidence intervals for parameters
C3	Developing the ability to evaluate and apply an econometric model - testing the hypothesis about model parameters (t-test and F-test)
C4	Developing the ability to choose the appropriate tools for modelling both financial and macroeconomic time series
C5	Indication of the directions and possibilities of developing the acquired knowledge on the analysis of economic relationships with the use of models econometric

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	P_W	A student knows and understands the meaning of econometrics in economics. A student knows and understands steps of econometric analysis (model building, estimation, testing within linear regression models). A student knows and understands the properties of the employed methods and knows the	P6S_WGS1 P6S_WGS2

Załącznik

			difference between types of economic data (cross-sectional data, time series, panel data).	
	E2	P_U	A student can build, estimate and test the linear regression models. A student can interpret the obtained results.	P6S_UWS2 P6S_UWS3 P6S_UKS2 P6S_UOS1
	E3	P_K	A student is aware of self-education and is prepared to acquire knowledge in the field of econometrics. The student is ready to acknowledge the importance of empirical econometrics research in economics and finance.	P6S_KKS1 P6S_KKS2 P6S_KOS1 P6S_KOS2

Methods of verification of learning outcomes	Test, Team project, Classroom activity, Practical exercises

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Introduction to econometrics – the definition of econometrics and an econometric model, types of data sets (cross-sectional data, time series, panel data), types of econometric models	2	1
W2	The classical linear regression model – assumptions, Gauss-Markov theorem (about the properties of OLS estimator), point estimation of the regression parameters and their linear combinations, confidence intervals for the regression coefficients and their linear combinations. Testing a hypothesis about a parameter or a linear combination – t-test (one- and two-tailed) and F-test – choosing the appropriate test statistic, the distribution of the test statistic, properties of the test, calculating the test statistics, finding the critical value, obtaining the *p*-value. Interpretation and analysis of the results	4	2
W3	Regressions with random explanatory variables – properties of OLS	2	1
W4	Univariate time series models	3	2
W5	Some chosen applications of econometrics in finance and in fields of economics.	4	3
C1	Application of the classical linear regression model – formulating the research question, choosing the model and the data, estimation of the model's parameters with OLS, interpretation and discussion of meaningfulness of the results	2	2
C2	The goodness of fit (the standard deviation of residuals, the coefficient of variation, the coefficient of determination – R-squared)	1	1
C3	Testing a hypothesis about a parameter or a linear combination – t-test (one- and two-tailed) and F-test – formulating the research question with the help of model parameters, choosing the appropriate test statistic, calculating the test statistics, finding the critical value, obtaining the *p*-value, interpretation and analysis of the results, confidence intervals for the regression coefficients and their linear	4	2

Załącznik

		combinations – computing, interpretation, and meaning		
	C4	Inference in autoregressive models	2	1
	C5	Financial time series – an introduction to modelling volatility	4	3
	C6	Employing time series models in macroeconomics (e.g. the money demand equation, the Phillips curve) with the discussion of assumptions and OLS properties	2	0

Teaching methods

Lecture,
Tutorial,
Presentation,
Discussion,
Group work,
Case study,
E-learning,
Working with texts,
Laboratory classes,
Workshops,
Course-related classes,
Problem-based learning,
Reverse teaching,
Others

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	30	10
Test/examination taking	2	2
Student's self study	13	40
E-learning	0	0
Others	0	5
Total hours	75	75
Number of ECTS credits	3	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	P6S_WGS1 P6S_WGS2	C1 C4	W1 W2 W3 W4 W5 C1 C2 C3 C4 C5 C6	N1 N4 N5 N7 N9 N12 N13 N18	F1 F5 F8 F9 P2 P4
E2	P6S_UWS2 P6S_UWS3 P6S_UKS2 P6S_UOS1	C2 C3 C4	W1 W2 W3 W4 W5 C1 C2 C3 C4 C5 C6	N1 N4 N5 N7 N9 N12 N13 N18	F1 F5 F8 F9 P2 P4
E3	P6S_KKS1 P6S_KKS2 P6S_KOS1 P6S_KOS2	C5	W1 W2 W3 W4 W5 C1 C2 C3 C4 C5 C6	N1 N4 N5 N7 N9 N12 N13 N18	F1 F5 F8 F9 P2 P4

Załącznik

Basic literature	1) Goryl A., Jędrzejczyk Z., Kukuła K., Osiewalski J., Walkosz A., (1999), Wprowadzenie do ekonometrii w przykładach i zadaniach (ang. Introduction to econometrics in examples and exercises), Wydawnictwo Naukowe PWN, Warszawa, in Polish 2) CFA Institute - 2020 CFA© Program Curriculum Level I Volumes 1-6, Wiley, 2019
Supplementary literature	1) Maddala G.S., (2006), Ekonometria, PWN, Warszawa, available in English: Maddala, G. S. (1994). Econometric methods and applications. Edward Elgar Publishing. 2) Greene W.H., (2006), Ecomometric Analysis, (5th edition), Prentice Hall, Inc. Upper Saddle River, New Jersey 3) Koop G. (2011), Wprowadzenie do ekonometrii, Wolters Kluwer Polska, available in English: Koop G. (2008), Introduction to Econometrics, Wiley)
Form and conditions of passing the course	The current assessment is the weighted average of the partial grades. The final grade is a weighted average of: the average of the current grades, and all exam grades – provided that the average of the current grades and of the exam grades are positive. The weights are the same, but depend on the number of exams taken by the student. If a student passed the exam in the first attempt, the weights are equal to ½ (if necessary the weighted average is rounded to the nearest integer). If the student passes the exam in the second attempt, the weights are 1/3 (if necessary the weighted average is rounded to the nearest integer). Unjustified absence at the exam is equivalent to an unsatisfactory grade, which is taken into account when calculating the final grade.
Course instructors	Jack Osiewalski, Prof. dr hab. (Department of Econometrics and Operational Research) Justyna Wróblewska, Prof. (Department of Econometrics and Operational Research) Maciej Kostrzewski, Prof. (Department of Econometrics and Operational Research) Łukasz Kwiatkowski, Phd (Department of Econometrics and Operational Research)
Additional information	-

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	EU Funds
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	5/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	15
Part-time studies:	18	9

Disciplines

Name	Number of ECTS credits
Finance and accounting	5

Instructor responsible for syllabus

Intended learning outcomes

Code	Description
C1	The transfer of knowledge about European Union policies, types of EU funds and how to apply for financial resources from the European Union.
C2	Developing skills concerning solutions for a specific problem in the area of obtaining EU funds.
C3	Improving the preparation of economic and financial projects and anticipate the social impact of their activities.
C4	The student will be able to cooperate in the group.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	Students know and understand the processes in the field of international transfer of capital taking into account European Union as an organization and its member states.	**P6S_WKS2**
E2	U	Students are able to analyze and discuss the topics concerning EU funds applications and propose their solutions about applying for funds in the conditions that are not completely predictable or foreseeable .	**P6S_UWS1**
E3	K	Students are ready for an active attitude in class and for critical analysis of their knowledge concerning changes in the budget structure which could take in	**P6S_KKS1**

Załącznik

			consideration the prospects of globalization and the EU development.		
Methods of verification of learning outcomes					
Course content	Code	Description		Number of hours Full-time studies	Number of hours Part-time studies
	W1	The concept of the socio-economic integration of the European Union		3	2
	W2	Differences between national budgets and the EU budget.		4	3
	W3	Main functions of the EU public finance		2	1
	W4	Establishment and financial control of the general budget (budgetary procedure)		2	2
	W5	EU budgetary principles		2	1
	W6	EU budget revenue.		4	3
	W7	EU budget expenditure – types of funds and their role.		3	1
	W8	Common agricultural policy - main sources of funding – direct payments and rural development		3	1
	W9	Cohesion policy (main sources of funding – European Regional Development Fund, European Social Fund, Cohesion Fund)		3	1
	W10	Taxation system in the European Union.		4	3
	C1	EU funds in Poland - Self government, legislation, procedures and facts		2	1
	C2	Project creation and management - part 1		2	1
	C3	Logical framework – training exercise		2	1
	C4	“Soft” project creation		2	1
	C5	Investment project creation - part 1		2	1
	C6	Project creation and management - part 2		2	1
	C7	Investment project creation and management - part 2		2	2
	C8	Summary		1	1
Teaching methods	Written exam, Activity in class, Practical exercise, Oral answer, Team project, Blackboard exercises				
Student workload (number of contact hours, on-line work and self study)	Activity type			Number of hours Full-time studies	Number of hours Part-time studies
	Participation in classes involving direct contact with lecturer			45	27
	Office hour participation			10	5
	Test/examination taking			4	4
	Student’s self study			45	60
	E-learning			0	0
	Others			21	29
	Total hours			125	125
	Number of ECTS credits			5	

Załącznik

<table>
<tr><td>Course matrix</td><td>
<table>
<tr><th>Learning outcomes</th><th>Reference to learning outcomes</th><th>Course objectives</th><th>Course content</th><th>Teaching methods/tools</th><th>Assessment methods</th></tr>
<tr><td>C1</td><td>P6S_WKS2</td><td>E1</td><td>C1 C2
C4 C3
C5 C6

C7</td><td>N2 N3 N4 N5
N6</td><td>F1 F2</td></tr>
<tr><td>C2</td><td>P6S_UWS1</td><td>E2</td><td>W1 W2
W3 W4
W5
W6 W7
C1 C2
C3 C4</td><td>N1 N2 N3 N4
N5</td><td>F1 F2</td></tr>
<tr><td>C3, C4</td><td>P6S_KKS1</td><td>E3</td><td>W1 W2
W3 W4
W5
W6 W7
C1 C2
C3 C4
C5 C6,

C7, C8</td><td>N1 N2 N3 N4
N5 N6</td><td>F1 F2</td></tr>
</table>
</td></tr>
<tr><td>Basic literature</td><td>1. A. Mroczek, K. Stabryła-Chudzio, European Union financial instruments. Selected issues, Wydawnictwo Uniwersytetu Ekonomicznego w Krakowie, Kraków 2020.
2. European Union Public Finance, 5th Edition, Office for Official Publications of the European Union, Luxembourg 2014; chapters: 8; 9; 10; 12; 13; 14.</td></tr>
<tr><td>Supplementary literature</td><td>1. K. Stabryła-Chudzio, Elimination of Correction Mechanisms in the EU Budget - Financial Consequences for Member States [in:] Soliman (ed.), Sustainable Economic Development and Advancing Education Excellence in the Era of Global Pandemic : Proceedings of the 36th International Business Information Management Association Conference (IBIMA), 4-5 November 2020, Granada 2020, pp. 3364-3371.
2. K. Stabryła-Chudzio, Contribution of the EU Budget to the Implementation of the Social Cohesion Policy of the European Union, „Journal of Management and Business Administration. Central Europe” 2016, Nr 2, Vol. 24, s. 89-106. DOI: 10.7206/jmba.ce.2450-7814.171</td></tr>
<tr><td>Form and conditions of passing the course</td><td>The final grade for the subject is a weighted average: the average of the current grades and the exam grade (50% of the tutorial grade and 50% of the exam grade) - provided that both grades are positive

Exam: test and exercises</td></tr>
<tr><td>Course instructors</td><td>Stabryła-Chudzio Katarzyna, dr (Katedra Finansów i Polityki Finansowej)
Mroczek Arkadiusz dr (Katedra Międzynawowych Stosunków gospodarczych)</td></tr>
<tr><td>Additional information</td><td></td></tr>
</table>

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Evaluation Methods of Business Projects
Language of instruction	English
Code/Speciality	Global Finance And Accounting
Code category	General
Course profile	General Academic
PRK (Polish Qualification Framework) Level	Level 6 – Bachelor Studies
Year of study/term	3/5

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economics and finance	5
Legal sciences	0
Others	0

Instructor responsible for syllabus: Wyrobek Joanna, dr hab. inż, prof. UEK

Intended learning outcomes

Code	Description
Objective 1	Students are going to learn how to use their theoretical knowledge to understand investment process
Objective 2	Students are going to learn how to acquire new knowledge from the Internet, books and other resources
Objective 3	Students are going to learn the general rules of investment analysis and how to apply these methods in companies

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	Students know general rules of investment that lead to the development of enterprises	FA_W02, FA_W10, FiR_W02, FiR_W10, P6S_WGS2, P6S_WKS3
E2	U	Students use basic theoretical knowledge to understand issues in the corporate investment process and perform a proper investment project analysis	FA_U03, FiR_U03, P6S_UWS3
E3	K	A student is capable of acquiring new knowledge by himself/herself	FA_K05, FiR_K05, P6S_KOS3

Methods of verification of learning outcomes: Written exam, quiz, test, weighted or arithmetic average of partial grades, class participation, colloquium, individual project, group project, blackboard tasks, activity in the classroom, practical exercises

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies

Załącznik

	L1	Organizational meeting, general overview of the investment appraisal process, long-term decision-making problems, simple and dynamic methods of evaluation of investment projects, capital budgeting – effectiveness of long-term decisions	2	1
	L2	Cash Flow estimation - FCFF and FCFE approaches, investment appraisal techniques	2	1
	L3	Non-discounting methods in investment appraisal process, discounting methods in the investment appraisal process	2	1
	L4	Hard and soft capital rationing	2	2
	L5	Allowing for inflation and taxation in DCF	2	1
	L6	Adjusting for risk and uncertainty in investment appraisal, decision making under risk	2	1
	L7	Specific investment decisions (lease or buy, asset replacement, capital rationing)	2	1
	L8	CAPM, Weighted Average Cost of Capital	1	1
		TOTAL	15	9
	T1	Short quiz questions - the basic investment appraisal methods	4	4
	T2	Quiz problems concerning advanced investment appraisal methods	4	2
	T3	Non-discounted and discounted cash flow methods in investment appraisal	4	2
	T4	Leasing decisions	4	2
	T5	Sensitivity analysis	4	2
	T6	Scenario analysis	4	2
	T7	Hard and soft capital rationing	4	2
	T8	Special cases in investment appraisal	2	2
		TOTAL	30	18

Teaching methods

N1 Lecture
N3 Presentation
N4 Discussion
N5 Group work
N7 Case study
N9 Blackboard exercises
N11 E-learning

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	20	20
Test/examination taking	6	6
Student's self study	50	70
E-learning	2	2
Others	2	0
Total hours	125	125
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods

Załącznik

	E1	FA_W02, FA_W10	Objective 1	L1, L2, L3, L4, L5, L6, L7, L8	Blackboard exercises, discussion, e-learning, group work, Case study presentation, simulation, auditorium lecture	Class participation, blackboard exercises, written exam + project
	E2	FA_U03	Objective 2	T1, T2, T3, T4, T5, T6, T7, T8	Blackboard exercises, discussion, e-learning, group work, Case study presentation, simulation, auditorium lecture	Class participation, blackboard exercises, quiz/rest
	E3	FA_K05	Objective 3	L1, L2, L3, L4, L5, L6, L7, L8, T1, T2, T3, T4, T5, T6, T7, T8	Blackboard exercises, discussion, e-learning, group work, Case study presentation, simulation, auditorium lecture	Class participation, blackboard exercises, class participation, written exam
Basic literature	BPP CIMA F3: Financial Strategy (whole book), BPP, New York, 2022, study text+practice and revision kit. BPP CIMA P1: Performance operations, BPP, New York, 2022, study text+practice and revision kit. BPP CIMA: Practice Workbook: Strategic Case Study Exam, BPP, New York, 2022.					
Supplementary literature	BPP ACCA: Financial Management F9, study text, BPP, New York, 2022. BPP ACCA: Financial Management F9, Practice and Revision Kit, BPP, New York, 2022. Michelle R. Clayman, Martin S. Fridson, George H. Troughton, Matthew Scanlan, Corporate Finance: A practical approach, CFA Institute, New York, 2012. CFA DeFusco Richard, McLeavey Dennis, Pinto Jerald, Runkle David, Anson Mark, Quantitative investment analysis, CFA Institute, New York, 2020: textbook+workbookWyrobek Joanna , Popławski Łukasz , Dzikuć Maria, Analysis of Financial Problems of Wind Farms in Poland, Energies. - vol. 14, iss. 5 (2021) , s. 1-34. Wyrobek Joanna , Wąs Jarosław , Zachara Marek, Simulation-Based Analysis of Wind Farms' Economic Viability, Information Systems Architecture and Technology : Proceedings of 38th International Conference on Information Systems Architecture and Technology - ISAT 2017. Part 2 / eds. Jerzy Świątek, Leszek Borzemski, Zofia Wilimowska - Cham: Springer, 2018, s. 320-330. Wyrobek Joanna, Practical aspects of leasing, Prace Naukowe Akademii Ekonomicznej we Wrocławiu. - nr 894 (2001) , s. 279-290. - Tytuł numeru: Zarządzanie finansami firm : teoria i praktyka.					
Form and conditions of passing the course	The final grade is a mean of the tutorials grade (50%) and the examination grade (25%) and project grade (25%), all grades should be positive (written exam, quiz and project grades have to be positive).					
Course instructors	Joanna Wyrobek, dr hab. inż., prof. UEK					
Additional information	Najkorzystniej by było, aby najpierw odbyły się wszystkie wykłady, a dopiero potem ćwiczenia. Students are not allowed to use any electronic devices during the exam, except for calculators (students are obliged to bring a calculator to the exam and use it during classes). Ćwiczenia odbywają się w laboratorium komputerowym.					

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	**Financial data analysis tools**
Language of instruction	English
Code/Speciality	Global Finance and Accounting /Banking, financial markets and Insurance – CFA / ACCA
Code category	Elective course
Course profile	General academic studies
PRK (Polish Qualification Framework) Level	6 – first degree
Year of study/term	1/2

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economics and Finance	5

Instructor responsible for syllabus: Katarzyna Mikołajczyk, Ph.D. (Finance and Financial Policy Department)

Intended learning outcomes

Code	Description
G1	To provide students with the tools and methods necessary for acquiring summarising and analysing financial data
G2	To master business modeling and analysis techniques with Microsoft Excel and familiarise students with the application of selected methods
G3	To acquire by students the ability to carry out a quantitative analysis of financial data and use the obtained results in the decision-making process
G4	The student will be able to cooperate in the group.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
O1	W	Student knows selected economic and financial databases as well as the methods and tools necessary to analyse phenomena in the field of finance.	FA_W02
02	U	Student is able to select the appropriate data sources for the analysed problem, as well as various methods and tools, carry out in-depth financial analyses, present their results and independently formulate substantively justified conclusions. Student supplements his/her knowledge by self-study, enhancing practical skills.	FA_U01 FA_U02

Załącznik

	03	K	Student is ready to solve cognitive and practical problems in the field of finance using Excel software.	FA_K02
Methods of verification of learning outcomes	In-class assignment, home assignments (individual or team work)			

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
L1	Excel – the review of powerful tools of Excel software	2	1
L2	Review of selected functions useful for the analysis of financial data	3	2
L3	Polish and international databases with economic and financial data. Acquiring and preparing data for further analysis	2	2
L4	Data visualisation	2	1
L4	Processing data with pivot tables. Filtering data and creating subtotals	2	1
L5	The Data Model and Power Pivot	2	1
L6	Optimization problems using Solver	2	1
C1	Excel - using a spreadsheet to analyse financial data	2	2
C2	Application of selected functions necessary for the analysis of financial data: conditional, search, text, date and time functions	2	2
C3	Application of financial functions in Excel	4	2
C4	Exploring selected economic and financial databases. Processing and analysis of obtained data.	4	2
C5	Data visualisation	2	2
C6	Processing data with pivot tables. Filtering data and creating subtotals	4	2
C7	The Data Model and Power Pivot	4	2
C8	Optimization problems	4	2
C9	Scenario analysis, sensitivity analysis	4	2

Teaching methods	lecture, presentation, problem-based learning, practical classes in computer laboratory

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	20	20
Test/examination taking	2	2
Student's self study	58	76
E-learning	0	0
Others	0	0
Total hours	125	125
Number of ECTS credits	5	

Załącznik

<table>
<tr><td>Course matrix</td><td>
<table>
<tr><th>Learning outcomes</th><th>Reference to learning outcomes</th><th>Course objectives</th><th>Course content</th><th>Teaching methods/tools</th><th>Assessment methods</th></tr>
<tr><td>O1</td><td>FA_W02</td><td>G1</td><td>L1-L6</td><td>lecture, presentation, problem-based learning</td><td>In-class assignment, home assignments (individual or team work)</td></tr>
<tr><td>O2</td><td>FA_U01
FA_U02</td><td>G2</td><td>C1-C9</td><td>problem-based learning, practical classes in computer laboratory</td><td>In-class assignment, home assignments (individual or team work)</td></tr>
<tr><td>O3</td><td>FA_K02</td><td>G3, G4</td><td>L1-L6
C1-C9</td><td>lecture, presentation, problem-based learning, practical classes in computer laboratory</td><td>In-class assignment, home assignments (individual or team work)</td></tr>
</table>
</td></tr>
<tr><td>Basic literature</td><td>1. W.L.Winston, Microsoft Excel 2019: Data Analysis and Business Modeling, Microsoft Press 2019.</td></tr>
<tr><td>Supplementary literature</td><td>1. S.Benninga, Principles of Finance with Microsoft Excel, 2nd ed., Oxford University Press 2011.
2. K.Mikołajczyk, Komputerowe wspomaganie decyzji finansowych, Wydawnictwo UEK, Kraków 2013.
3. K.Mikołajczyk, Narzędzia analizy danych finansowych w programie Microsoft Excel, Wydawnictwo UEK, Kraków 2014.
4. M.Saunders, P.Lewis, A.Thornhill, Research Methods for Business Students, 7th ed., Pearson 2016.
5. C.Carlberg, Decision Analytics: Ms Excel, Pearson Education, 2014.</td></tr>
<tr><td>Form and conditions of passing the course</td><td>The assessment of classes is based on tests and partial assignments (individual or team work), prepared in class or as a homework. The final grade results from the current scores (weigh 60%) and the final exam (40%), being a practical application of knowledge and skills acquired by students.</td></tr>
<tr><td>Course instructors</td><td>Katarzyna Mikołajczyk, Ph.D.</td></tr>
<tr><td>Additional information</td><td>Classes in computer laboratory (Microsoft Excel)</td></tr>
</table>

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Financial markets
Language of instruction	English
Code/Speciality	Global finance and accounting
Code category	Major-related/speciality-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	2/4

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	15
Part-time studies:	18	9

Disciplines

Name	Number of ECTS credits
Economics and finance	5
Law	0
Other disciplines	0

Instructor responsible for syllabus: Maciej Bolisęga, PhD (Department of Financial Markets)

Course objectives

Code	Description
C1	To provide students with knowledge of the role and importance of financial markets in the economy and the principles of their functioning. To discuss the characteristics and possibilities of using different financial instruments and financial market institutions and their tasks. To provide knowledge of the issue of securities, the principles governing their introduction to stock exchange trading and regulated over-the-counter trading. To provide information about the rules of stock exchange trading and regulated over-the-counter trading.
C2	To develop students' skills of autonomous analysis and valuation of basic types of financial market instruments, including treasury bills, bonds and equity instruments e.g. shares, as well as assessment of the effectiveness and risk of such investments.
C3	To develop students' competences in self-evaluation of the results of decisions made when analysing phenomena occurring in financial markets and valuating financial instruments and to build awareness of the consequences of risks underlying their own and their team's actions

Intended learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W (knowledge)	Students know economic issues related to the functioning of financial markets and their participants. They know different types of financial instruments, their characteristics, valuation methods and principles of trading and are aware of the possibility of using them to build investment portfolios and stock exchange indexes and know and understand basic methods of assessing the efficiency of	FA_W03, FA_W05

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			investments in financial markets (e.g. rate of return and risk).	
	E2	U (skills)	Students can analyse the situation on financial markets – collect, process and interpret data on developments on these markets. They have the skills to valuate financial instruments (specifically treasury bills, bonds and shares) and can correctly estimate rates of return and risk of the investment portfolio.	FA_U01, FA_U02, FA_U04
	E3	K (social competence)	Students are prepared to assess the level of their knowledge and skills acquired in the course on Financial markets, and on their own extend and improve knowledge and skills to analyse, evaluate and determine the effectiveness of new forms and types of financial instruments and financial market institutions and entities	FA_K01, FA_K02

Methods of verification of learning outcomes	Test, Solving problems on the blackboard, Classroom activity, Practical exercises

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Organisation and structure of the financial markets - essence, functions and types of markets (primary and secondary, money and capital, public and private, forward and spot, traditional and alternative instruments). Classification, types and basic characteristics of financial instruments (i.e. money market instruments, currencies, shares, bonds, derivatives, alternative investment assets).	4	2
W2	Financial markets participants and their role (issuers, investors, financial intermediaries, market regulators and supervisory bodies, institutions trading in financial instruments). Financial markets regulation. Ways of investing in financial markets, methods of investment on financial markets and rules of financial instruments trading. Financial markets efficiency (weak, semi-strong and strong) and its role in investing. Mergers and acquisitions of listed companies.	4	2
W3	Financial instruments of the money market – basic types and investment attributes, factors behind their issue and trade. Interbank market and interest rates. Placement transactions on the interbank market. Treasury bills market, NBP bills market, short-term corporate and bank debt securities. Structure of financial flows generated by interest-based and discounted debt instruments.	3	2
W4	Capital market debt instruments – variable and fixed income securities: main types (bonds, covered bonds) and their characteristics, factors affecting the issue and trading in instruments. Features of treasury debt instruments. Features of corporate bonds and municipal bonds. Bond markets e.g. Bondspot and Catalyst markets. TBS	4	3

Załącznik

		index. Securitisation – asset-backed instruments and collateralised debt instruments.		
	W5	Equity instruments: types and characteristics of equity instruments (rights contained in them and investment strategies, rate of return and risk profile), shares' market value and book value, expected versus actual rate of return.	3	2
	W6	Methods of stock price analysis: technical, fundamental, portfolio, behavioural. Dividend policy.	2	1
	W7	Equity markets: stock exchanges; organisation of markets and their structure, e.g. the Warsaw Stock Exchange and New Connect Market.	3	2
	W8	Equity markets: stock market indices, types and principles of placing orders	2	1
	W9	Derivatives - stock exchange and OTC, characteristics and mechanism of functioning of futures and forward contracts, call and put options and exchange contracts (including: long and short position, leverage, rate of return, margin, margin call), the role of arbitrage in the derivatives valuation.	3	2
	W10	Structured financial instruments – basic types and investment principles.	2	1
	C1	Introduction to investing in financial markets	2	1
	C2	Valuation of money market instruments – determining the price of discounted and interest-based instruments, interest calculation conventions, yield rate, discount rate and discounting.	3	2
	C3	Bond valuation – determining the bond price for a market discount rate, the relationship between bond price, coupon rate, yield to maturity (YTM), clean price, dirty price, accrued interest.	3	2
	C4	Calculating yields on zero coupon bonds, fixed coupon bonds, floating coupon bonds.	2	1
	C5	Valuation of equity instruments – factors affecting company's value, company's intrinsic value and market value (market price), estimation of rates of return, basic methods of share valuation: general discount model – discounted dividend model (e.g. fixed dividend model, Gordon model, multiphase models), valuation of rights issues.	3	2
	C6	Financial ratios and their role in company valuation.	2	1
Teaching methods	Lecture, Presentation, Discussion, Group work, Problem solving on the blackboard, E-learning, Working with texts, Laboratory classes			

Załącznik

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	15	15
Test/examination taking	10	10
Student's self study	15	58
E-learning	10	10
Others	30	5
Total hours	125	125
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W03, FA_W05	C1	W1 W2 C1 W3 W4 W5 W6 C2 C3 C4 W7	N1 N3 N4 N5 N9 N11 N12 N13	F1 F2 F8 F9 P2, P3, P4
E2	FA_U01, FA_U02, FA_U04	C2	W1 W2 C1 W3 W4 W5 W6 C2 C3 C4 W7	N1 N3 N4 N5 N9 N11 N12 N13	F1 F2 F8 F9 P2, P3, P4
E3	FA_K01, FA_K02	C3	C1 W3 W4 W5 W6 C2 C3 C4 W7 W1 W2	N1 N3 N4 N5 N9 N11 N12 N13	F1 F2 F8 F9 P2, P3, P4

Basic literature

1 CFA Institute, 2020 CFA© Program Curriculum Level I Volumes 1-6, Wiley, New York.
2. Fabozzi F.J., Franco Modigliani, Capital Markets: Institutions and Instruments, Prentice Hall of India, New Delhi, 2009
3. Madura J., Financial Markets and Institutions, South-Western Cengage Learning, 2014

Supplementary literature

1 Petitt, B., Pinto, J., Pirie, W. (2015), Fixed income analysis, Wiley, New York.
2 Pinto, J., Henry, E., Robinson, T., Stowe, J. (2015), Equity asset valuation, Wiley, New York.
3. Rose P., Marquis M., Money and Capital Markets: Financial Institutions and Instruments in a Global Marketplace, McGraw-Hill Companies Inc., New York, 2009

Form and conditions of passing the course

The arithmetic mean of the tutorial grade and the exam grade.

Course instructors

1 Małgorzata Snarska, PhD (Department of Financial Markets)
2 Andrzej Zyguła, Prof. (Department of Financial Markets)
3 Paweł Oleksy, PhD (Department of Financial Markets)
4 Maciej Bolisęga, PhD (Department of Financial Markets)
5 Maciej Jagódka, PhD (Department of Financial Markets)
6 Anna Kosidłowska, MEcon (Department of Financial Markets)
7 Janusz Żarnowski, PhD (Department of Financial Markets)

Additional information

CFA charterholders and students who have completed the CFA Level I exam are exempted from the final test and receive the final grade of 5.0 (very good) for this course

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Financial Mathematics
Language of instruction	English
Code/Speciality	Global finance and accounting
Code category	
Course profile	
PRK (Polish Qualification Framework) Level	6
Year of study/term	1/2

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	-	30
Part-time studies:	-	18

Disciplines

Name	Number of ECTS credits
Economics and finance	3
Others (Mathematics)	1

Instructor responsible for syllabus	dr Fryderyk Falniowski

Intended learning outcomes

Code	Description
L1	Provide students with basic concepts and techniques of financial calculus.
L2	Develop the ability of abstract thinking and drawing logical conclusions.
L3	The student will be able to cooperate in the group.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	Students have a basic knowledge of the purposes and methods of financial calculus used for economic and financial issues. Student has knowledge of time value of money.	FA_W02, FA_W05
E2	W	Students know basic tools for evaluating the effectiveness of investment projects.	FA_W02, FA_W05
E3	U	Students can make effective use of a variety of financial calculus tools to find the value of money and are able to analyze and interpret results in the purpose of finding an optimal solution.	FA_U01, FA_U04
E4	K	Student is willing to respect lecturers and other students, and have positive attitudes towards financial calculus and mathematics.	FA_K01, FA_K02, FA_K06

Methods of verification of learning outcomes	

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies

Załącznik

	C1	Basic concepts: time value of money, interest and compounding	4	2
	C2	Equivalence of capital, stated, effective and equivalent rates	2	2
	C3	Compounding with changing interest rate, inflation rate	4	2
	C4	Cash flows - introduction	4	3
	C5	The present and future value of a series of cash flows	4	3
	C6	Pensions, perpetuities	4	2
	C7	Repayment of debts and credits	4	2
	C8	Solving for Rates, Number of Periods, or Size of Annuity Payments	4	2

Teaching methods	Solving exercises on blackboard, discussion, seminar, e-learning, working in groups

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	30	20
Test/examination taking	6	6
Student's self study	30	48
E-learning	4	8
Others	0	0
Total hours	100	100
Number of ECTS credits	4	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W02, FA_W05	L1, L2	C1-C8	All of the above	midterm test, exam, active participation in classes
E2	FA_W02, FA_W05	L1, L2	C1-C8	All of the above	midterm test, exam, active participation in classes
E3	FA_U01, FA_U04	L1, L2	C1-C8	All of the above	midterm test, exam, active participation in classes
E4	FA_K01, FA_K02, FA_K06	L1, L2, L4	C1-C8	All of the above	midterm test, exam, active participation in classes

Basic literature	S. Kellison "Theory of interest" McGraw-Hill/Irwin; 3 edition
Supplementary literature	1. CFA Institute - 2020 CFA© Program Curriculum Level I Volumes 1-6, Wiley, 2019 2. R. Steiner "Mastering Financial Calculations: A step-by-step guide to the mathematics of financial market instruments (The Mastering Series)" FT Press; 3 edition (March 4, 2012)
Form and conditions of passing the course	Based on the result of two tests mentioned above and activity during the classes: 40-44 pts 3.0, 44-56 pts 3.5, 56-64 pts 4.0, 64-72 pts 4.5, 72-80 pts 5.0. If someone will not get 40 points or want to get a better grade he will write an exam. In such case the grade from the exam is a final grade.
Course instructors	dr Fryderyk Falniowski

Załącznik

	dr Katarzyna Budny mgr Grzegorz Szulik
Additional information	

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	FinTech companies, new technologies in banking and digital security
Language of instruction	English
Code/Speciality	Global Finance and Accounting: Banking, financial markets and insurance
Code category	Specialized
Course profile	Academic
PRK (Polish Qualification Framework) Level	6 – 1st Level (Bechelor's Degree)
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	30
Part-time studies:	18	18

Disciplines

Name	Number of ECTS credits
Economics and finance	5
Law	0
Other disciplines	0

Instructor responsible for syllabus: Mateusz Folwarski, PhD (Department of Banking and Global Financial System)

Course objectives

Code	Description
C1	To acquaint students with current trends in the development of financial innovation, in particular the activities of FinTech companies on the banking market in Poland and around the world,
C2	To analyse new institutions in the financial market
C3	The student will be able to cooperate in the group.

Intended learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W (knowledge)	Students know and understand institutional-legal as well as economic-financial aspects of functioning of FinTech companies on the financial market	FA_W01 FA_W04
E2	U (skills)	Students can correctly interpret the phenomena describing the role of scale of operations of FinTech companies in building the value of financial institutions and are able to use their knowledge to implement a project	FA_U01 FA_U06
E3	K (social competence)	Students are ready to critically evaluate their knowledge and perceived content of FinTech activity on the financial markets.	FA_K01

Methods of verification of learning outcomes: Presentation, Team project, Individual project

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies

Załącznik

	W1	An analysis of the regulation of neobanks and FinTech companies in the banking sector	4	3
	W2	Development of modern distribution channels for financial products (mobile banking/open banking channel)	4	3
	W3	Analysis of applications of fintech companies' banking solutions (biometrics, robotization)	4	2
	W4	Innovative products used in selected banking systems, implemented by new institutions in the financial market	4	2
	W5	Product strategies of neobanks and FinTech companies worldwide	4	2
	W6	FinTech companies in the financial market-opportunities and threats to financial sector stability	4	2
	W7	Rules of obtaining banking licenses by neobanks on the European market and outside the EU	4	2
	W8	Blockchain technology-essence, role and application in the activity of fintech companies and neobanks	2	2
	C1	Analysis of fintech services and activities of neobanks in Europe	4	3
	C2	Product strategies in Europe	4	2
	C3	Analysis of fintech services and activities of neobanks in USA	4	3
	C4	Product strategies in USA	4	2
	C5	Analysis of fintech services and activities of neobanks in Asia	4	3
	C6	Product strategies in Asia	4	2
	C7	Analysis of fintech services and activities of neobanks (other)	4	3
	C8	Product strategies (other)	4	2

Teaching methods	Lecture, Presentation, Case study, Course-related classes

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	20	10
Test/examination taking	4	4
Student's self study	41	60
E-learning	0	0
Others	0	15
Total hours	125	125
Number of ECTS credits	5	

Załącznik

<table>
<tr><td>Course matrix</td><td>
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<tr><th>Learning outcomes</th><th>Reference to learning outcomes</th><th>Course objectives</th><th>Course content</th><th>Teaching methods/tools</th><th>Assessment methods</th></tr>
<tr><td>E1</td><td>FA_W01
FA_W04</td><td>G1,2,3,</td><td>W1-W8</td><td>auditorium lecture</td><td>test</td></tr>
<tr><td>E2</td><td>FA_U01
FA_U06</td><td>G1,2,3,</td><td>C1-C4</td><td>class exercises, discussion, case study, work with text, problem-based learning, other</td><td>presentation, team project, individual project, classroom activity</td></tr>
<tr><td>E3</td><td>FA_K01</td><td>G1,2,3,</td><td>C1-C4</td><td>discussion, problem-based learning, other</td><td>presentation, team project, individual project, classroom activity</td></tr>
</table>
</td></tr>
<tr><td>Basic literature</td><td>

H. Panzarino. A. lessandro Hatami, Reinventing Banking and Finance: Frameworks to Navigate Global Fintech Innovation
B. King, Bank 4.0: Banking everywhere, never at a bank, Wiley 2019
Ch. D. Piros, J. E. Pinto, L. Harris, Economics for Investment Decision Makers: Micro, Macro,
and International Economics, CFA Institute, 2013.

</td></tr>
<tr><td>Supplementary literature</td><td>

James A Gardner, Innovation and the future proof bank
CFA. Level 1 Book 1: Ethical and Professional Standards and Quantitative Methods. CFA® Program Curriculum
Folwarski M., FinTech digital inclusion of society - selected aspects of the banking environment, [w:] Contemporary Issues in Economy, Proceedings of the International Conference on Applied Economics, Finance, red. A. P. Balcerzak, I. Pietryka, Institute of Economic Research, Olsztyn, 2021, s. 16-26, ISBN 978-83-65605-42-9.
Folwarski M., The FinTech Sector and Aspects on the Financial Inclusion of the Society in EU Countries, European Research Studies Journal, vol. 24, spec. iss. 1, 2021, s. 459-467, ISSN 1108-2976.

</td></tr>
<tr><td>Form and conditions of passing the course</td><td>exam</td></tr>
<tr><td>Course instructors</td><td>Prof. UEK, dr hab. Elzbieta Kubińska
Dr Mateusz Folwarski,
Mgr Balawejder Bartłomiej,</td></tr>
<tr><td>Additional information</td><td></td></tr>
</table>

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Fixed income and derivatives
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	Major-related/speciality-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	30
Part-time studies:	18	18

Disciplines

Name	Number of ECTS credits
Economics and finance	6
Law	0
Mathematics	0

Instructor responsible for syllabus: Małgorzata Snarska, PhD (Department of Financial Markets)

Course objectives

Code	Description
C1	To acquaint students with the theory and practice (including tools and methods) of valuation of derivatives, including bonds and interest rate derivatives as well as hybrid instruments, e.g. ABS/MBS/CDS and structured instruments
C2	To transfer knowledge of methods of construction and valuation of bond portfolios, risk of investments in bond portfolios and methods of their mitigation, mechanisms of functioning and instruments of debt securities markets
C3	To equip students with the ability to independently analyse and understand the mechanisms of debt securities (bonds) and derivatives markets
C4	To prepare students for independent professional work (work organization, assessment of own skills, further education).

Intended learning outcomes

Code	Cat.	Description	Referring to the directional effects
E1	W (knowledge)	Students have a extensive knowledge of analysis and valuation of derivative financial instruments. They understand the most important valuation models of such financial instruments as: futures contracts, options, swaps, bonds and other instruments related to interest rates.	FA_W01, FA_W02
E2	U (skills)	Students recognise, understand and correctly analyse relationships between quantities that characterize economic phenomena in terms of finance. They correctly identify relations between the price of a derivative and factors influencing it. In a concrete situation they can	FA_U01, FA_U04

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			propose an appropriate model (manner) of valuation of a derivative financial instrument or bonds. In a specific situation, they are able to effectively apply an appropriate model for pricing a derivative financial instrument or bond. They can assess and manage interest rate risk and market risk. Students can formulate correct conclusions resulting from analysis and valuation of derivative financial instruments and bonds and propose appropriate decisions.	
	E3	K (social competence)	Students can reliably and objectively assess their level of knowledge and skills.	FA_K01, FA_K02

Methods of verification of learning outcomes	Test, Solving problems on the blackboard, Oral answer, Presentation, Team project, Individual project, Report, Classroom activity, Practical exercises, Others

Course content

Lectures:

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Valuation of bonds and treasury bills (YTM, Term structure of interest rates)	2	1
W2	Asset-backed instruments (ABS/MBS/CDO)	4	2
W3	Risks associated with interest rate instruments (Duration, Convexity, Credit risk and Liquidity risk). Bond investment risk and methods of its measurement (duration convexity), term structure of interest rates and methods of its estimation (bootstrap method, spline method and Nelson-Siegel method)	4	3
W4	Elements of credit risk (high/low yield, credit risk spreads)	2	2
W5	Methods of and measures for assessing the risk of bond portfolio investments (duration and convexity, M-absolute and M-square) and how to construct bond portfolios that are optimal given these risk measures. Methods of and measures for assessing the risk of investing in a bond portfolio (vector of durations, key interest rate durations, principal component durations) and how to construct optimal bond portfolios given these risk measures.	3	1
W6	Forward contracts - definition, features, analysis, valuation. The market value of a futures contract as a separate traded item. Analysis of futures contracts – "marking to market". Equality of forward and futures prices – the Cox-Ross-Ingersol theorem	2	1

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	W7	Valuation of swap and FRA derivatives	2	1
	W8	Discrete-time option pricing: investment strategy, asset replication, complete market, first fundamental theorem of martingale pricing.	3	2
	W9	Option pricing in discrete time: random rate of return, Cox-Ross-Rubinstein binomial model of option pricing, practical considerations	4	3
	W10	Continuous-time option pricing: price of the underlying as a stochastic process defined by the Wiener process, price of the underlying as a solution to a stochastic differential equation. Valuation of options written on assets generating additional financial flows. Valuation of currency options – the Garman-Kohlagen model. Option pricing in continuous time: the Black-Scholes model of option pricing, option price sensitivity analysis – "Greek" parameters.	4	2
	C1	Valuation of bonds and treasury bills (YTM, Term structure of interest rates)	2	1
	C2	Asset-backed instruments (ABS/MBS/CDO)	4	2
	C3	Risks associated with interest rate instruments (Duration, Convexity, Credit risk and Liquidity risk). Bond investment risk and methods of its measurement (duration convexity), term structure of interest rates and methods of its estimation (bootstrap method, spline method and Nelson-Siegel method)	4	3
	C4	Elements of credit risk (high/low yield, credit risk spreads)	2	2
	C5	Methods and measures for assessing the risk of bond portfolio investments (duration and convexity, M-absolute and M-square) and how to construct bond portfolios that are optimal given these risk measures. Methods and measures for assessing the risk of investing in a bond portfolio (vector of durations, key interest rate durations, principal component durations) and how to construct optimal bond portfolios given these risk measures.	3	1
	C6	Forward contracts – definition, features, analysis, valuation. The market value of a futures contract as a separate traded item. Analysis of futures contracts – "marking to market". Equality of forward and futures prices – the Cox-Ross-Ingersol theorem	2	1
	C7	Valuation of swap and FRA derivatives	2	1
	C8	Discrete-time option pricing: investment strategy, asset replication, complete market, first fundamental theorem of martingale pricing.	3	2
	C9	Option pricing in discrete time: random rate of return, Cox-Ross-Rubinstein binomial model of option pricing, practical considerations	4	3
	C10	Continuous-time option pricing: price of the underlying as a stochastic process defined by the Wiener process, price of the underlying as a solution to a stochastic differential equation. Valuation of options written on assets generating additional financial flows. Valuation	4	2

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		of currency options – the Garman-Kohlagen model. Option pricing in continuous time: the Black-Scholes model of option pricing, option price sensitivity analysis – "Greek" parameters.		

Teaching methods	Lecture, Tutorial, Presentation, Discussion, Group work Simulation Case study Problem solving on the blackboard E-learning Working with texts Laboratory classes Workshops Course-related classes Others Problem-based learning Reverse teaching

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	15	5
Test/examination taking	5	5
Student's self study	60	70
E-learning	10	39
Others	0	0
Total hours	150	150
Number of ECTS credits	6	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W01, FA_W02	C1	W1 W2 W3 W4 W5 W6 C1 C2 C3 C4 C5	auditorium lecture, discussion	written exam
E2	FA_U01, FA_U04	C3	W5 W6 W7 W8 W9 C1 C2 C3 C4 C5 C6 C7 C8 C9	subject exercises, simulation, case study	colloquium, group or individual project
E3	FA_K01, FA_K02	C2	W6 C1 C3 C4 C5	lecture, class exercises, discussion, simulation, case study	written exam, colloquium, group or individual project

Basic literature	1 Kellison St. G., The Theory of Interest, Mc Graw Hill, 2009 2 Pettit B., Fixed income analysis, Wiley 2019 3 Pirie W., Derivatives, Wiley 2017
Supplementary literature	1 Navalkha S, Soto G., Beliaeva N.; Interest Rate Risk Modeling: The Fixed Income Valuation Course; John Wiley & Sons Inc, 2005 2 Fabozzi F., Fong G.; Portfolio management of fixed income financial investments; PWN Scientific Publishers, 2000

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Form and conditions of passing the course	Weighted average. The teacher informs students about the weights assigned to each current grade during the first class
Course instructors	Małgorzata Snarska, PhD (Department of Financial Markets)
Additional information	

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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Global banking
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	Major-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	2/3

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	15
Part-time studies:	9	9

Disciplines

Name	Number of ECTS credits
Economics and finance	4
Law	0
Other disciplines	0

Instructor responsible for syllabus: Andrzej Walitza Ph.D. (Department of Banking and Global Financial System)

Course objectives

Code	Description
G1	To understand the role of bank for generating credit and finance the economy.
G2	To acquaint students with knowledge to understand risk source and various factors influencing performance in global banking markets
G3	To understand global stability requirements and enable students to critically assess their knowledge in this area.

Intended learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W (knowledge)	Students has knowledge about bank-based and market-based financial systems and understand the role and risk of banks in those systems and understand the impact of global regulations on banks.	FA_W01 FA_W03 FA_W04
E2	U (skills)	Student is able to how to asses global banks' stability and performance and riskiness of their actions	FA_U01 FA_U03 FA_U05
E3	K (social competence)	Student understands social and environmental impact of a bank decisions and can work on a bank-related group project. The student will be able to cooperate in the group.	FA_K01 FA_K02 FA_K06

Methods of verification of learning outcomes	Presentation, test, group project, classroom activity

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Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	The role of banks in global financial systems	2	1
W2	Global regulators – institutional approach. Capital adequacy and risk-return relationship. 3 2	2	1
W3	Types of banks in international context. Evolution of bank business models.	3	2
W4	Systemic financial crises and its implications	3	2
W5	The role of global bank safety net	3	2
W6	Bank management and strategies in the global context	2	1
C1	Analysing global bank balance sheet	3	2
C2	Analysing of Income statement and ratios	2	1
C3	Global bank management: efficiency, stability.	3	2
C4	Global bank management: activities, risks	2	1
C5	Global environment: why going global?	3	2
C6	Global environment: opportunities and challenges	2	1

Teaching methods

Lecture, discussion, case study, problem-based learning

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	20	15
Test/examination taking	5	2
Student's self study	45	65
E-learning	0	0
Others	0	0
Total hours	100	100
Number of ECTS credits	4	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W01 FA_W03 FA_W04	G1	W1-W6	auditorium lecture	test
E2	FA_U01 FA_U03 FA_U05	G2	C1-C3	class exercises, discussion, case study,	presentation, team project, individual project,

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					work with text, problem-based learning, other	classroom activity
	E3	FA_K01 FA_K02 FA_K06	G3	C1-C3	discussion, problem-based learning, other	presentation, team project, individual project, classroom activity
Basic literature	B. Casu, C. Girardone, P. Molyneux, Introduction to Banking, Palgrave MacMillan 2021. F. Tata, Corporate and Investment Banking, Palgrave 2020 Ch. D. Piros, J. E. Pinto, L. Harris, Economics for Investment Decision Makers: Micro, Macro, and International Economics, CFA Institute, 2013.					
Supplementary literature	M. Pinedo, I. Walter, Global Asset Management, Palgrave 2013 S. Valdez, P. Molyneux, Global Financial Markets, Palgrave 2016					
Form and conditions of passing the course	The arithmetic mean of tutorial grade - sum of points accumulated in all activities. Method of calculating the final grade: 40% grade for in-course activities + 60% grade for the final exam					
Course instructors	Andrzej Walitza, PhD (Department of Banking and Global Financial System) Radosław Ciukaj (Department of Banking and Global Financial System)					
Additional information						

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Information Technology
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	Major-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	
Year of study/term	1/2

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economy and finance	5

Instructor responsible for syllabus: Morajda Janusz, dr hab. inż. (Katedra Informatyki)

Intended learning outcomes

Code	Description
C1	Students have knowledge, understand and recognise theoretical foundations of information technology and data processing techniques
C2	Students can use contemporary computers and computer-based tools to solve problems referring to their area of expertise.
C3	Students acqired ability to identify and recognise the relationships between the various components of Information Technology and their impact on society

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The student knows and understands basic tools and methods, including techniques of collecting and processing data which enable description and assessment of economic institution and processes taking place in and between them.	FA_W07
E2	U	The student is able to use gained knowledge to solve problems appearing in professional career, and is able to predict probable results of taken actions	FA_U03
E3	K	The student is willing to understand social aspects of acquired knowledge and skills in practice, and is willing to take responsibility connected with that	FA_K06

Methods of verification of learning outcomes

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	The course intro: course requirements, course organization, course on the Moodle platform, literature, course assessment rules and grading, office hours and remote (internet) form of communication.	1	1
W2	Intro to Contemporary Computers and Digital Basics.	1	1

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	W3	Computer Hardware & the Technology Market Overview	2	3
	W4	Computer Software Overwiev. Software Basic Classifications	2	3
	W5	Operating Systems & Computer Networks	2	3
	W6	Principles of Effective Use of an Application Software on the Example of a Selected Office Software Package (i.e. Microsoft Office). 1. Word Processing 2. Using Spreadsheets 3. Databases Basics	4	4
	W7	Internet & Internet Services. Intro to e-Commerce	3	2
	C1	The working environment of computer workstations in the UEK Computer Labs. The MS Windows operating system (GUI, system and context help, window manipulation, launching and activating the application, configuring the individual user environment, managing files, folders and their shortcuts, system applications, data exchange - Clipboard).	4	1
	C2	Operating systems on the Linux system example. Work in a computer network environment (connection to a remote server, SSH, FTP, WinSCP). E-mail. Using e-mail	4	1
	C3	Wordprocessing (opening and browsing a document, creating and formatting a document, styles, headers and footers, inserting mathematical formulas and graphic elements, drawings, building a diversified document structure - sections, typographic elements: table, frames, initials, columns, automation functions activities).	4	2
	C4	Elements of editing large documents: header styles, table of contents, signatures, links, lists of illustrations, updating the document. Creating a mail merge	4	1
	C6	Spreadsheet (sets of simple tasks with performance guidelines, formulas, selected mathematical and statistical functions).	3	1
	C7	Spreadsheet (relative and absolute addressing, names, sorting, filtering, formatting statements, data visualization using graphs of different types, advanced mathematical formulas and rules for their creation)	3	1
	C8	Spreadsheet - solving selected problems in mathematics and elementary statistics (linear regression model).	3	1
	C9	Spreadsheet - solving selected problems in mathematics and elementary statistics (solving systems of linear equations, matrix operations, etc.).	3	1
	C10	Presentation program. Create a simple presentation using different elements (charts, tables, graphics) and animation effects	2	1
Teaching methods	Analiza przypadku, Ćwiczenia laboratoryjne, E-learning, Praca z tekstem, Prezentacja, Wykład audytoryjny.			

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Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	20	5
Test/examination taking	5	3
Student's self study	55	90
E-learning		
Others		
Total hours	125	125
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W07	C1,C3	C1 W2 W4 W5 W6 W7 C3 C3 C6 C7	N1 N3 N7 N11 N12 N13	F1 F8 F9 P2 P3 P4
E2	FA_U03	C2	C1 W5 W6 W7 C3 C3 C6 C7	N1 N3 N7 N11 N12 N13	F1 F8 F9 P2 P3 P4
E3	FA_K06	C1,C3	W2 W4 W5 W7	N1 N3 N7 N11 N12 N13	P2 P3 P4

Basic literature

J. J. Parsons: "New Perspectives on Computer Concepts 2018: Comprehensive", Cengage Learning inc., 2017 . (previous editions not older than 2011 should be good enough)
Lecture notes.

Supplementary literature

Current online resources from the list published on the Moodle website
Freely available internet tutorials provided by software & hardware vendors

Form and conditions of passing the course

Information Technology - detailed assessment policy concerning the laboratory part of the course. 1. Two practical tests will be done during the semester (dates will be announced). Paper notes (manually written) are allowed during the tests. Each test = max. 35 pt. Both tests have to be passed (min. 19 points necessary to pass a test). Unjustified absence = fail (0 pt). 2. All planned tasks (practical exercises) have to be done during the course (preferably during the class meeting, possibly at home before next meeting) and results (required files) have to be delivered in due time by the Moodle platform (current course) and additionally stored on pendrives. Delays in files delivery by Moodle, incomplete works, etc. will result in lower number or zero points for a given task. Possible plagiarisms (copying works, etc.) will result in giving negative points. 3. For all activities during the course, student can obtain 100 points: - max. 70 pts. for tests - see pt. 1, - max. 30 pts. for execution and on-time delivery of all tasks (files) – see pt. 2. - there are no additional points for "physical" attendance during lab. meetings, and there are no negative points for "physical" absence during lab. meetings (except for tests, when attendance is obligatory – see pt. 1). 4. Required two conditions of passing the lab. part of the course: 1/ passing both practical tests, and 2/ gaining at least 45 points. If both this conditions are fulfilled, the student passes the lab. part of course, otherwise – fails the whole course. 5. Retaking of failed tests is possible (and obligatory) during the last (regular) meeting in the semester. Need for retaking = minus 8 pts for each retaken test (makes the final grade lower!). Also a passed test can

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	(max. one) be retaken during this meeting (under special conditions – see the Moodle course). Results achieved at this (last) meeting (decision of passing/failing the lab. part of the course, number of points scored) are ultimate and there is no possibility of further test retaking and changing these results. 6. If the lab part is passed (both conditions – see pt. 4 – are fulfilled) and the total number of points scored is between 45 and 50, it is increased up to 50. The final (and ultimate) result of the lab. part of the course, expressed by the total points scored (out of 100 pts), is passed to the lecturer, who decides (after the examination) about the passing or failing the whole course, according to separate, general rules submitted during the lectures. 7. There is no possibility to “rewrite” the grades of previous courses by the teacher (only the proper University authorities can do it). 8. Student is obliged to register to the course “Information Technology” on the Moodle platform not later than 7 days after the first meeting. 9. If three works in sequence are not delivered by Moodle platform in due time (or score zero or negative number of points) the student is removed from the course list together with all grades and records. 10. All justifications of absences during tests and retake tests (in form of written documents) must be delivered personally or electronically (scan/photo sent by e-mail) not later than 7 days after the day of absence! 11. In case of possible introducing on-line learning (e-learning) on the University, including this course, or in case of issuing new ordinances concerning didactics by the UEK Authorities, the rules given above may be changed. Please follow and be up-to-date with all information given on the Moodle course.
Course instructors	final score = (computer labs score [%] + final exam score[%])*0,5
Additional information	Final score to final grade translation tables: final score 1st Attempt 2nd Attempt [50% - 59%] - 3,0 dst 3.0 dst [60% - 69%] - 3,5 dst+ 3,0 dst [70% - 79%] - 4,0 db 3,5 dst+ [80% - 89%] - 4,5 db+ 3,5 dst+ [90% - 99%] - 5,0 bdb 4,0 db 100% - 5,5 cel 4,0 db

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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Insurance
Language of instruction	English
Code/Speciality	Global Finance and Accounting: Banking, financial markets and insurance
Code category	General
Course profile	Academic
PRK (Polish Qualification Framework) Level	7 – 1st Level (Bechelor's Degree)
Year of study/term	2/3

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economics and Finance	5

Instructor responsible for syllabus: Dr Tomasz Jedynak

Intended learning outcomes

Code	Description
C1	To familiarize students with the most important mechanisms and processes taking place on the insurance market
C2	To develop skills to analyze and select the most favorable insurance conditions
C3	To acquaint students with the specifics of selected types of business insurance.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	Student knows and understands the legal and economic foundations of the commercial and social insurance	FA_W03 FA_W09
E2	U	Student is able to use the acquired economic and financial knowledge in the field of insurance to manage risk in private and professional life	FA_U01 FA_U05
E3	K	Student is ready to identify correctly and resolve dilemmas related to the use of insurance in professional activity and in private life. The student will be able to cooperate in the group.	FA_K02 FA_K05

Methods of verification of learning outcomes: written exam, test, activity,

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Introduction to social security systems	2	1

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	W2	Populaton ageing and theoretical foundations of pension systems	3	2
	W3	Old-age security systems in foreign countries	4	2
	W4	Alternative methods of retirement protection	3	2
	W5	Retirement age	3	2
			15	9
	C1	Risk Management; Introduction to insurance	4	2
	C2	Insurance contract	4	2
	C3	Insurance premium	4	2
	C4	Indemnity	2	2
	C5	Insurance products	2	2
	C6	Insurance market	4	2
	C7	Non-life insurance	2	1
	C8	Life insurance	2	1
	C9	Financial management of insurance companies	4	2
	C10	Final test	2	2
			30	18

Teaching methods	auditorium lecture, case study, discussion, problem teaching, group work, presentation

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	30	28
Test/examination taking	4	4
Student's self study	30	50
E-learning	0	0
Others	16	16
Total hours	125	125
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W03 FA_W09	C1, C2, C3		auditorium lecture, case study, discussion, problem teaching, group work, presentation,	written exam, test, activity
E2	FA_U01 FA_U05	C1, C2, C3			
E3	FA_K02 FA_K05	C1, C2, C3			

Basic literature	Emmett J. Vaughan, Therese M. Vaughan, Fundamentals of Risk and Insurance, 11th Edition, Wiley , Cheltenham 2013 Mark S. Dorfman, Introduction to Risk Management and Insurance, 7th Edition, Prentice Hall, New Jersey 2001 Peter Zweifel, Roland Eisen, Insurance economics, Springer, Berlin 2012
Supplementary literature	C. Kempler, M. Flamee, C. Yang, P. Windels, Global Perspectives on Insurance Today, Wyd. Palgrave Macmillan, 2011. G. Rejda, M. McNamara, Principles of Risk Management and Insurance, 13th ed., Wyd. Pearson, 2016.
Form and conditions of passing the course	Exercise grade = Final test (75%) + Presentation (25%) Final grade = Final Exam (50%) + Exercise grade (50%
Course instructors	Cycoń Maciej, dr (Katedra Zarządzania Ryzykiem i Ubezpieczeń)

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	Jedynak Tomasz, dr (Katedra Zarządzania Ryzykiem i Ubezpieczeń) Strupczewski Grzegorz, dr (Katedra Zarządzania Ryzykiem i Ubezpieczeń)
Additional information	

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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	International finance
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	Major-related/specialty-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	2/3

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	15
Part-time studies:	9	9

Disciplines

Name	Number of ECTS credits
Economics and finance	4
Law	0
Other disciplines	0

Instructor responsible for syllabus: Mateusz Folwarski, PhD (Department of Banking and Global Financial System)

Course objectives

Code	Description
G1	To acquaint students with knowledge of mechanism, role, regulations and trends in the area of international finance.
G2	To enable students to understand risk and return of financial instruments used in international markets
G3	The course will enable students to interpret trends and tendencies in the field of international finance and to make use his/her knowledge in practical assessments.

Intended learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W (knowledge)	Students know and understand basic regulations and mechanisms governing functioning of selected entities of the international financial system	FA_W01 FA_W03 FA_W04 FA_W05
E2	U (skills)	Students can calculate and evaluate the profitability and risk of selected financial instruments	FA_U01 FA_U03 FA_U05
E3	K (social competence)	Students are ready to critically evaluate their knowledge in the context of international finance. . The student will be able to cooperate in the group.	FA_K01 FA_K02 FA_K06

Methods of verification of learning outcomes: Presentation, test, solving problems, classroom activity

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies

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	W1	Characteristics of international financial systems: institutional structure and market participants	2	2
	W2	Theory of international finance: different sources of capital and their risk, financial flows, types of money. Key financial problems, such as asymmetry of information, adverse selection, moral hazard, efficient market hypothesis.	3	2
	W3	Role and core functions of the Financial Services Sector: investment chain; managing risk payment systems. Instruments used in international transactions and their risk	2	2
	W4	Capital market structure and evolution. Various forms of capital - bank loans, bonds and equity	2	1
	W5	Global financial crises and systemic risk	2	1
	W6	Stability of international financial markets	2	1
	W7	Global financial centers, off-shore markets and financial crime	2	1
	C1	Functions of the international financial market: bank based and market based financial systems, main market players: lenders, borrowers and intermediaries.	2	2
	C2	Calculating risk and return of financial instruments used in international transactions	2	2
	C3	Foreign Exchange market - definitions and classifications. Global clearing and settlement mechanism.	2	1
	C4	The role of derivative instruments in international finance	1	1
	C5	Determinants of financial flows in international markets	1	1
	C6	Impact of 2007 - 2009 financial crisis and 2020 and 20222 external shocks on International Financial Markets	1	2

Teaching methods	Lecture, presentation, group work, case study

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	17	12
Test/examination taking	5	6
Student's self study	47	70
E-learning	0	0
Others	0	0
Total hours	100	100
Number of ECTS credits	4	

Basic literature

- F. Mishkin, S. Eakins, Financial Markets and Institutions, Pearson 2018
- S. Cecchetti, K.Schoenholtz, Money Banking and Financial Markets, McGraw Hill 2021
- S. Valdez, P. Molyneux, An Introduction to Global Financial Markets, Wiley 2016

Supplementary literature

- W.L. Pirie (ed.), Derivatives, CFA Institute 2017.
- S. Valdez, P. Molyneux, An Introduction to Global Financial Markets, Wiley 2016
- International Introduction to Securities & Investment, CISI 2018 (e-book) Claessens S.,
- D. Chorafas, Banks, Bankers and Bankruptcies under Crisis: Understanding Failures and Mergers During the Great Financial Recession, Palgrave 2014.
- K. Rogoff, C. Reinhard, This Time is Different: Eight centuries of Financial Folly, Princeton Univ. Press, 2011.

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	• Krugman P.R., Obstfeld M., Melitz M., International Economics, Theory&Policy. Pearson, 2018.
Form and conditions of passing the course	The arithmetic mean of tutorial grade - sum of points accumulated in all activities. Method of calculating the final grade: 40% grade for in-course activities + 60% grade for the final exam
Course instructors	Ewa Miklaszewska, Prof. (Department of Banking and Global Financial System) Radosław Ciukaj, MEcon (Department of Banking and Global Financial System)
Additional information	

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	International financial markets: economic and regulatory aspects
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	Major-related/speciality-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	15
Part-time studies:	9	9

Disciplines

Name	Number of ECTS credits
Economics and finance	3
Law	0
Other disciplines	0

Instructor responsible for syllabus: dr hab. Aleksandra Jurkowska, prof. UEK (Department of Banking and Global Financial System)

Intended learning outcomes

Code	Description
C1	To provide students with knowledge concerning: - The organizational and institutional structure of international financial markets, - Theory of international finance, - Basic regulations determining the rules of trading and participation in international financial markets, - Principles of functioning of particular segments of international financial markets, - Relationships between international financial markets and financial stability and systemic risk.
C2	Develop the skills necessary to: - Identify the role of different segments of international financial markets, - Determine prices and yields of financial instruments issued on international financial markets, - Identify the risks associated with the various segments of the international financial markets, - Apply hedging instruments against selected risks in international financial markets, - Identify supervisory problems arising from the complex nature of international financial markets, - Identify the links between international capital flows and financial stability and systemic risk.
C3	Developing competences useful for positions in institutions operating in the financial markets.

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Achieved learning outcomes	Code	Cat.	Description	Reference to learning outcomes
	E1	W (knowledge)	Students know: 1) principles of functioning of various segments of international financial markets; 2) sources of law regulating trading in financial instruments in these segments; 3) selected risk categories related to various segments of international financial markets and risk management instruments; 4) institutional structure of international financial markets; 5) supervisory competences of international, pan-European and national regulatory and supervisory authorities; 6) relations between international financial markets, financial stability and systemic risk.	**FA_W03**
	E2	U (skills)	Students are be able to: 1) distinguish segments of international financial markets; 2) calculate the prices and yields of financial instruments issued on international financial markets; 3) make appropriate use of instruments to hedge against the main types of risk on international markets; 4) identify the basic regulations on trading and participation in international financial markets; 5) identify supervisory problems arising from the complex nature of international financial markets; 6) identify the links between international capital flows, financial stability and systemic risk.	**FA_U01**
	E3	K (social competences)	Student are ready to use the acquired knowledge and skills in solving problems which may arise at workplaces in various institutions operating in the financial markets.	**FA_K01**
Methods of verification of learning outcomes	Attendance, group project, test			
Course content	Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
	W1	Basic functions, theories, regulations and segments of international financial markets.	2	1

	W2	International financial market participants: monetary financial institutions, other financial intermediaries, financial auxiliaries, non-financial entities (as issuers of financial instruments), investors and traders.	2	1
	W3	International financial market participants: regulators and supervisors. Models of financial market supervision. International, pan-European and national supervisory bodies.	2	1
	W4	International money market: characteristics, prices and yields of the main international money market primary instruments.	2	1
	W5	International capital market. Bond market: types of bonds, bond prices and yields. Equity market: the largest financial stock exchanges in the world, types and examples of stock indices, basic stock valuation models.	3	2
	W6	Sources of risk on the international financial market with an emphasis on credit and currency risk. Currency and credit risk management instruments. Credit risk premium. The essence and types of securitisation of assets.	3	2
	W7	Determinants of financial stability. Consequences and measures of systemic risk.	1	1
	C1	A review of basic concepts and regulations related to the functioning of the international financial market, the international money market and the international capital market.	2	1
	C2	Central and operational banks as monetary financial institutions - participation of central and operational banks in the money creation process. Tools of central bank influence on interest rates and money supply.	2	1
	C3	Participation of other financial intermediaries, financial auxiliaries, non-financial entities, investors and traders in financial flows in international financial markets.	2	1
	C4	Organisational structure and tasks of selected international, pan-European and national supervisory and regulatory bodies.	2	1
	C5	Calculation of prices and yields of basic primary instruments issued on the international money market.	2	1
	C6	Calculation of prices and yields of basic primary instruments issued on the international capital market.	2	1
	C7	Forward, futures, swaps and options contracts as tools to mitigate currency and credit risk.	2	2
	C8	Examples of contagion in international financial markets.	1	1
Teaching methods	Blackboard exercises, case study, discussion, group work, lecture, presentation, problem-based learning, text- based learning, others (attendance).			

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Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	15	8
Test/examination taking	4	4
Student's self study	26	45
E-learning	0	0
Others	0	0
Total hours	75	75
Number of ECTS credits	3	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	**FA_W03**	C1	W1, W2, W3, W4, W5, W6, W7	Lecture, presentation, problem-based learning.	Single choice test
E2	**FA_U01**	C2	C1, C2, C3, C4, C5, C6, C7, C8	Blackboard exercises, case study, discussion, group work, presentation, problem-based learning, text-based learning, others (attendance).	Attendance, group project, test (practical exercises and open questions)
E3	**FA_K01**	C3	W1, W2, W3, W4, W5, W6, W7, C1, C2, C3, C4, C5, C6, C7, C8	Blackboard exercises, case study, discussion, group work, lecture, presentation, problem-based learning, text-based learning, others (attendance).	Attendance, group project, test

Basic literature

1. CFA Institute, Standards of Practice Handbook, 2014, https://www.cfainstitute.org/-/media/documents/code/code-ethics-standards/standards-practice-handbook-11th-ed-eff-July-2014-corr-sept-2014.ashx.
2. International financial markets, J. Chevallier et. al. (ed.), Routledge, London 2019.
3. S. Valdez, P. Molyneux, An Introduction to Global Financial Markets, Macmillan Education UK, 2017.

Załącznik

Supplementary literature	1. CFA Institute - 2020 CFA© Program Curriculum Level I Volumes 1-6, Wiley, 2019. 2. S. Cecchetti, K. Schoenholtz Money, Banking and Financial Markets, Mc Graw Hill, 2021. 3. P.R. Krugman, M. Obstfeld, M. Melitz, International Economics, Theory&Policy. 11th edition, Pearson, 2018. 4. Regulation and the Global Financial Crisis, D. Cash and R. Goddard (eds), Routledge, 2021.
Form and conditions of passing the course	On-going assessment only for classes. In accordance with §18 point 4 of the Study Regulations, the final grade for classes is a weighted sum of the partial grades and is calculated as follows: 20% - attendance, 20% - group project, 60% - test (practical exercises and open questions). In accordance with §18 point 5 of the Study Regulations, the final course grade is a weighted average: 40% - the final grade for classes, 60% - the examination test (single choice).
Course instructors	dr hab. Aleksandra Jurkowska, prof. UEK (Department of Banking and the Global financial System) mgr Radosław Ciukaj (Department of Banking and the Global financial System) mgr Bartłomiej Balawejder (Department of Banking and the Global financial System)
Additional information	

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Introduction to management and cost accounting
Language of instruction	English
Code/Speciality	Global Finance and Accounting: Corporate finance and accounting
Code category	
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	15
Part-time studies:	9	9

Disciplines

Name	Number of ECTS credits
Economics and finance	3

Instructor responsible for syllabus: Prof. UEK dr hab. Marcin Kędzior
mgr Anna Mazurczak-Mąka

Intended learning outcomes

Code	Description
O1	The student will acquire basic knowledge and understanding of management accounting techniques to support management in planning, controlling and monitoring performance in a variety of business contexts
O2	The student will learn how to explain the nature, source and purpose of management information, selected cost accounting techniques, prepare basic budgets for planning and control, compare actual costs with standard costs and analyse any variances.
O3	The student will be able ready to apply selected performance measurements and monitor business performance.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The graduate knows and understands the idea of information processing and information processing methods related to management and cost accounting in enterprises as well as their proper interpretation	**P6S_WGS7**
E2	U	The graduate is able to formulate and solve the basic problems in the field management and cost accounting, also in conditions which are not completely predictable.	**P6S_UWS1**
E3	K	The student is able to solve problems related to management and cost accounting while working in a group.	P6S_KRS1

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Methods of verification of learning outcomes	F1 Test F8 Activity in the classroom F9 Practical exercises
Course content	Lectures:

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
L1	The nature, source and purpose of management information, financial accounting versus management accounting, sources of data	2	1
L2	Data analysis and selected statistical techniques	2	1
L3	The theoretical aspects of cost accounting techniques (accounting for material, labour and overheads, absorption and marginal costing, cost accounting methods, alternative cost accounting principles)	3	2
L4	Nature and purpose of budgeting, types and methods of budgeting, capital budgeting and discounted cash flows, budgetary control and reporting	3	2
L5	Standard costing, variance analysis	3	2
L6	The key elements of performance measurement, monitoring performance and reporting (measures of financial and non – financial performance)	2	1
	TOTAL:	**15**	**9**
Others:			
O1	Cost classification with examples	1	1
O2	Forecasting techniques and data analysis	2	1
O3	The application of selected cost accounting techniques (absorption and marginal costing, cost accounting methods)	4	2
O4	Budget preparation, advantages and disadvantages of different methods, investment decisions)	4	2
O5	Standard costing and variance calculations	3	1
O6	Calculation of selected measures of financial and non – financial performance	1	1
	TOTAL:	**15**	**9**

Teaching methods	N1 Lecture N3 Presentation N4 Discussion N5 Group work N7 Case study N9 Blackboard exercises

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	5	5
Test/examination taking	3	3
Student's self study	30	42
E-learning	0	0
Others	7	7
Total hours	75	75
Number of ECTS credits	3	

Załącznik

<table>
<tr><td>Course matrix</td><td>
<table>
<tr><th>Learning outcomes</th><th>Reference to learning outcomes</th><th>Course objectives</th><th>Course content</th><th>Teaching methods/tools</th><th>Assessment methods</th></tr>
<tr><td>E1</td><td>P6S_WGS7</td><td>O1</td><td>L1, L2, L3, L4, L5, L6</td><td>N1, N3</td><td>F1, F8</td></tr>
<tr><td>E2</td><td>P6S_UWS1</td><td>O2</td><td>O1, O2, O3, O4, O5, O6</td><td>N3,N4,N5,N7,N9</td><td>F1, F8, F9</td></tr>
<tr><td>E3</td><td>P6S_KRS1</td><td>O3</td><td>O1, O2, O3, O4, O5, O6</td><td>N3,N4,N5,N7,N9</td><td>F1, F8, F9</td></tr>
</table>
</td></tr>
<tr><td>Basic literature</td><td>Management Accounting literature for ACCA examination (published by BPP, KAPLAN)

Cost Accounting and Management Essentials You Always Wanted To Know: 4th Edition (Self-Learning Management Series), 2020

Bhimani Alnoor, Datar Srikant, Management and Cost Accounting, Seventh Edition, 2019</td></tr>
<tr><td>Supplementary literature</td><td>Horngren Charles, Sundem Gary, Introduction to Management Accounting Global Edition, 2013.</td></tr>
<tr><td>Form and conditions of passing the course</td><td>The minimal threshold for passing the course is set to be 50% of the exam points. The total number of points is calculated as a sum of the exam (80%) and activity in the classroom (20%).</td></tr>
<tr><td>Course instructors</td><td>Prof. UEK dr hab. Marcin Kędzior (Katedra Rachunkowości Finansowej)
mgr Anna Mazurczak-Mąka (Katedra Rachunkowości Finansowej)</td></tr>
<tr><td>Additional information</td><td></td></tr>
</table>

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SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Investment management
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	Major-related/speciality-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	30
Part-time studies:	18	18

Disciplines

Name	Number of ECTS credits
Economics and finance	6
Law	0
Other disciplines	0

Instructor responsible for syllabus: Paweł Oleksy, PhD (Department of Financial Markets)

Course objectives

Code	Description
C1	To provide students with knowledge of investment management in equity securities and alternative assets
C2	To develop and train practical skills in analyzing and processing financial data, constructing and optimizing portfolios by using traditional or alternative asset classes, as well as in assessing portfolio performance and planning investors' wealth
C3	To develop the ability to critically assess the effects of investment management decisions and to build awareness of the consequences of own and team's actions in this field

Intended learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W (knowledge)	Students know the principles and methods of investment management in equity and alternative markets, understand the structure of these markets and basic indices, as well as know the investment attributes of various asset classes and their usefulness in portfolio management and wealth planning and know the tools of fundamental analysis, methodology of equity valuation as well as various portfolio performance appraisal measures.	FA_W05, FA_W07
E2	U (skills)	Students can process and analyze financial data for investment management purposes, perform fundamental analysis, as well as select various assets to construct investment strategies, optimize portfolio and structure a wealth plan	FA_U01, FA_U04, FA_U05

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	E3	K (social competence)	Students are prepared to constantly improve their qualifications and recognize the importance of knowledge in solving practical problems in investment management, as well as to critically analyze the received information in an interdisciplinary dimension and to take initiatives and decisions in professional activities.	FA_K01, FA_K02, FA_K06
Methods of verification of learning outcomes	Solving problems on the blackboard, Presentation, Team project, Individual project, Classroom activity, Practical exercises, Test			

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Investing in equity and alternative markets–types and characteristics of investment assets, market structure and organization, market indices, market efficiency (incl. market anomalies, behavioral aspects of investment decisions)	4	2
W2	Fundamental analysis (incl. equity valuation)	4	3
W3	Analysis of market returns	4	2
W4	Alternative investments–real estate, PE/VC, hedge funds, commodities, infrastructure, other alternative assets (e.g. emotional assets, distressed securities/bankruptcies, structured products)	4	3
W5	Basics of portfolio management – a portfolio approach to investing, portfolio risk and return, utility theory, portfolio diversification, efficient frontier and optimal portfolio	4	3
W6	Factor models, capital asset pricing model (CAPM), portfolio performance appraisal measures, portfolio planning and construction (incl. investment policy, ESG considerations)	4	2
W7	Individual investor's portfolio and wealth management – investment, tax and legal aspects	4	2
W8	Presentation of performance results – the introduction to Global Investment Performance Standards (GIPS)	2	1
C1	Orders, security market indices, market efficiency (incl. market pricing anomalies, behavioral determinants of investment decisions)	4	2
C2	Fundamental analysis (incl. equity valuation)	4	2
C3	Analysis of market returns	4	2
C4	Alternative investments – real estate, PE/VC, hedge funds, commodities, infrastructure, other alternative assets (e.g. emotional assets, structured products)	4	3
C5	Portfolio analysis – two- and multi-asset portfolio,	4	3
C6	portfolio diversification and optimization	2	3
C7	Application of factor models and CAPM in portfolio construction, estimation of portfolio performance appraisal measures	4	3
C8	Wealth management	4	2

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Teaching methods	Lecture, Exercise, Discussion, Simulation, Case study

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	15	9
Test/examination taking	5	5
Student's self study	70	100
E-learning	0	0
Others	0	0
Total hours	150	150
Number of ECTS credits	6	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W05, FA_W07	C1	W1, W2, W3, W4, W5, W6, W7	N1, N4, N5, N6	F4, F6, F11, P3, P4
E2	FA_U01, FA_U04, FA_U05	C2	C1, C2, C3, C4, C5, C6, C7	N2, N4, N5, N6	F2, F4, F6, F9, F11, P3, P4
E3	FA_K01, FA_K02, FA_K06	C3	W2, W4, W6, C1, C2, C3, C4, C5, C6, C7	N2, N4, N5, N6	F4, F6, F9, F11, P3, P4

Basic literature

1. CFA Institute (2019), Ethical and professional standards and quantitative methods, 2020 CFA Program Curriculum, Level I, Volume 1, Wiley, New York
2. CFA Institute (2019), Corporate finance and equity, 2020 CFA Program Curriculum, Level I, Volume 4, Wiley, New York
3. CFA Institute (2019), Alternative investments and portfolio management, 2020 CFA Program Curriculum, Level I, Volume 6, Wiley, New York

Supplementary literature

1. Pinto, J. E. et al. (2020), Equity asset valuation. John Wiley & Sons.
2. Baker H. K., Filbeck G. (2013), Alternative Investments: Instruments, Performance, Benchmarks and Strategies, John Wiley & Sons, Inc., Hoboken.
3. Czupryna M., Jakubczyk M, Oleksy P. (2020), Price Formation in Parallel Trading Systems: Evidence from the Fine Wine Market. Journal of Artificial Societies and Social Simulation, 23(3), 1-11.
4. Ritchie J. C. (1997), Analiza fundamentalna, WIG Press, Warszawa.
5. Anson, M. J., Chambers, D. R., Black, K. H., Kazemi, H. B., & CAIA Association. (2015), CAIA level I: an introduction to core topics in alternative investments, John Wiley & Sons.

Form and conditions of passing the course	Final grade: the arithmetic mean of the grade from workshop part (the weighted average of grades from activities such as tasks, projects, quizzes, discussions) and the grade from the lecture part, provided that both grades are positive.
Course instructors	Maciej Bolisęga, PhD (Department of Financial Markets) Maciej Jagódka, PhD (Department of Financial Markets) Paweł Oleksy, PhD (Department of Financial Markets) Andrzej Zyguła, Prof. (Department of Financial Markets) Janusz Żarnowski, PhD (Department of Financial Markets)

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Additional information	CFA charterholders and students who have completed the CFA Level I exam are exempted from the final test and receive the final grade of 5.0 (very good) for this course

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Mathematics
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	
Course profile	Kierunkowe lub ogólne
PRK (Polish Qualification Framework) Level	6
Year of study/term	I/I

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	30
Part-time studies:	18	18

Disciplines

Name	Number of ECTS credits
Economics and finance	3
Other (Mathematics)	3

Instructor responsible for syllabus	Marta Kornafel, PhD

Intended learning outcomes

Code	Description
C1	Transfer of knowledge and skills of mathematical analysis, linear algebra and basics of probability theory.
C2	Creation of ability of using the theory to describe issues related to economics and finance, methods of solving and interpreting results, and drawing logical conclusions.
C3	Developing the skills of active approach to solving a mathematical problem, using the acquired knowledge, by analyzing the problem and selecting tools that allow achieving the assumed goal.
C4	Developing the capacity for abstract thinking and systematic, consistent, reliable and ethical approach to solved problems. Developing the awareness of advantages and importance of using strict mathematical methods in solving problems in economics and finance.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The graduate knows and understands basic tools of linear algebra, calculus and probability.	**FA_W02**
E2	U	The graduate is able to make effective use of a variety of mathematical tools (including linear algebra, calculus and basic probabilistic tools) in solving economic problems and interpreting results.	**FA_U01 FA_U03**

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	E3	K	The graduate is ready to: make critical assessment of their knowledge, especially in the field of application of mathematics in economics; and to recognize the importance of knowledge in solving cognitive and practical problems in the field of study and consulting experts in the event of difficulties with solving the problems on their own	**FA_K01** **FA_K02**
	E4	K	The graduate is ready to: perform their professional tasks responsibly, both individually and in cooperation; to respect teachers and other students; to submit all the tests and exams with the full respect to the ethical rules.	**FA_K04** **FA_K05**
Methods of verification of learning outcomes	Written exam, descriptive exam, middle-semester written tests			

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Elements of logic. Cartesian product. Concept of function. Real functions. Composition of functions and inverse function.	3	2
W2	Limit of sequence. Properties of limits. Basic types of limits	2	0
W3	Limit of function. One-side limits. Continuity. Asymptotes.	3	2
W4	Calculus of function of one variable: derivative of function, economic and geometric interpretations, monotonicity and convexity, de l'Hospital rule.	4	3
W5	Integral calculus. Indefinite integral: antiderivative, basic methods of integration – direct, by parts, by substitution. Riemann definite integral – definition. Improper integrals. Applications: mean value, consumer's surplus, producer's surplus.	4	2
W6	Matrix algebra: operations on matrices, determinant of matrix, matrix inverse, rank of matrix. Matrix equations.	3	2
W7	Systems of linear equations: cramerian and noncramerian systems, Kronecker-Capelli theorem, Gauss elimination	3	2
W8	Calculus of function of two variables: partial dervatives, economic interpretations, local and constrained extrema. The least squares method.	4	2
W9	Probability theory: definition of probabilistic space, random variable and probability distributions of discrete and continuous random variables. Expected value and standard deviation.	4	3

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	C1	Elements of logic. Cartesian product. Concept of function. Real functions. Composition of functions and inverse function.	3	2
	C2	Limit of sequence. Properties of limits. Basic types of limits	2	0
	C3	Limit of function. One-side limits. Continuity. Asymptotes.	3	2
	C4	Calculus of function of one variable: derivative of function, economic and geometric interpretations, monotonicity and convexity, de l'Hospital rule.	4	3
	C5	Integral calculus. Indefinite integral: antiderivative, basic methods of integration – direct, by parts, by substitution. Riemann definite integral – definition. Improper integrals. Applications: mean value, consumer's surplus, producer's surplus.	4	2
	C6	Matrix algebra: operations on matrices, determinant of matrix, matrix inverse, rank of matrix. Matrix equations.	3	2
	C7	Systems of linear equations: cramerian and noncramerian systems, Kronecker-Capelli theorem, Gauss elimination	3	2
	C8	Calculus of function of two variables: partial dervatives, economic interpretations, local and constrained extrema. The least squares method.	4	2
	C9	Probability theory: definition of probabilistic space, random variable and probability distributions of discrete and continuous random variables. Expected value and standard deviation.	4	3

Teaching methods

Lecture, practicals, discussion, flipped classroom

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	15	10
Test/examination taking	8	8
Student's self study	60	65
E-learning	7	31
Others		
Total hours	150	150
Number of ECTS credits	6	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W02	C1, C2	W1, W2, W3, W4 W5, W6, W7, W8 W9, C1, C2, C3, C4, C5, C6, C7, C8, C9	Lecture, practicals, discussion, flipped classroom	Middle- semester tests, exam
E2	FA_U01 FA_U03	C1, C2	W1, W2, W3, W4 W5, W6, W7, W8 W9, C1, C2, C3,	Lecture, practicals, discussion, flipped classroom	Middle- semester tests, exam

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				C4, C5, C6, C7, C8, C9		
	E3	FA_K01 FA_K02	C3, C4	W1, W2, W3, W4, W5, W6, W7, W8, W9, C1, C2, C3, C4, C5, C6, C7, C8, C9	Lecture, practicals, discussion, flipped classroom	Middle- semester tests, exam
	E4	FA_K04 FA_K05	C3, C4	W1, W2, W3, W4, W5, W6, W7, W8, W9, C1, C2, C3, C4, C5, C6, C7, C8, C9	Lecture, practicals, discussion, flipped classroom	Middle- semester tests, exam
Basic literature	1) Binmore K., Davies J., *Calculus: Concepts and Methods*, Cambridge University Press 2002 2) Ciałowicz B., *Workouts in Calculus and Linear Algebra with Applications in Economics*, Wydawnictwo Uniwersytetu Ekonomicznego w Krakowie, Kraków 2017 3) Kornafel M., *Selected Topics in Mathematics. A Primer for Economists*, Wydawnictwo Uniwersytetu Ekonomicznego w Krakowie, Kraków 2019					
Supplementary literature	1) Anthony M., Biggs N., *Mathematics for Economics and Finance: Methods and Modelling*, Cambridge University Press 1996 2) Mavron V.C., Phillips T. N., *Elements of Mathematics for Economics and Finance*, Springer-Verlag, 2007 3) Sydsaeter K., Hammond P., Strom A., Carvajal A., *Essential mathematics for economic analysis*, Pearson 2016					
Form and conditions of passing the course	Presence: min. 50% of meetings – condition of being evaluated in the course. Practicals: min. 50% of points jointly in written tests and tasks assigned by the teacher. Passing practicals is necessary condition of sitting the exam. Exam: min. 50% on written exam, containing both descriptive and testing questions. Final result in 1st attempt: arithmetic mean in practicals and exam. Final result in 2nd attempt: arithmetic mean in practicals and exam. Final grade in 2nd attempt: arithmetic mean of grades in both attempts.					
Course instructors	Marta Kornafel, PhD					
Additional information						

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Microeconomics
Language of instruction	Polish/ English
Code/Speciality	Global Finance and Accounting
Code category	Major-related/speciality-related
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6 - 1. (Bachelor studies)
Year of study/term	1/1

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economics and finance	6
Law	0
Other disciplines	0

Instructor responsible for syllabus: Michał Michorowski, PhD (Department of Economics)

Intended learning outcomes

Code	Description
C1	Students can understand the basics of microeconomic theory
C2	To develop skills in observing economic phenomena and analysing household and company behaviour
C3	To apply economic principles to enhance professional qualifications

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The graduate knows and understands theories explaining the complex relations between economics& finance and the sphere of the real economy, in both national and international scale.	FA_W01
E2	U	The graduate is able to: formulate and solve complex and unusual problems in the field of economics, finance and accounting, also in the conditions that are not completely predictable or foreseeable; communicate with the environment using specialized terminology that is typical for the fields of economics, finance and accounting.	FA_U01 FA_U05
E3	K	The graduate is ready to critically assess own knowledge and the content received in the fields of economics, finance and accounting.	FA_K01

Methods of verification of learning outcomes:
Test,
Solving problems on the blackboard,
Oral answer,
Presentation,
Classroom activity,

Załącznik

	Practical exercises

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Introduction to economics	1	0,5
W2	Basics of supply and demand	3	1
W3	Theory of consumer behaviour	2	1
W4	Production	1	1
W5	Cost of production	1	1
W6	Profit maximization	1	0,5
W7	Analysis of market structures	1	0,5
W8	Perfect competition	1	1
W9	Monopoly	1	1
W10	Oligopoly	1	0,5
W11	Monopolistic competition	1	0,5
W12	Identification of market structure	1	0,5
C1	Introduction to economics	4	2
C2	Basics of supply and demand	4	4
C3	Theory of consumer behaviour	4	2
C4	Production	4	2
C5	Cost of production	4	2
C6	Perfect competition	3	2
C7	Monopoly	3	2
C8	Imperfect competition (oligopoly, monopolistic competition)	4	2

Teaching methods

Lecture,
Presentation,
Discussion,
Case study,
Problem solving on the blackboard,
E-learning,
Working with texts

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	20	20
Test/examination taking	10	10
Student's self study	54	83
E-learning	21	10
Others	0	0
Total hours	150	150
Number of ECTS credits	6	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	FA_W01	C1	W1–W12 C1–C8	Lecture, Presentation, Discussion, Case study,	Test, Solving problems on the blackboard, Oral answer, Presentation,

Załącznik

					Problem solving on the blackboard, E-learning, Working with texts	Classroom activity, Practical exercises
	E2	FA_U01 FA_U05	C2	W1–W12 C1–C8	Lecture, Presentation, Discussion, Case study, Problem solving on the blackboard, E-learning, Working with texts	Test, Solving problems on the blackboard, Oral answer, Presentation, Classroom activity, Practical exercises
	E3	FA_K01	C3	W1–W12 C1–C8	Lecture, Presentation, Discussion, Case study, Problem solving on the blackboard, E-learning, Working with texts	Test, Solving problems on the blackboard, Oral answer, Presentation, Classroom activity, Practical exercises
Basic literature	1. P.A. Samuelson, W.D. Nordhaus, Ekonomia, Dom Wydawniczy REBIS, Poznań 2019 / P.A. Samuelson, W.D. Nordhaus, Microeconomics, 19th Edition, McGraw-Hill/Irwin, New York 2009 2. Solek, P. Drobny, T. Tylec, Ćwiczenia z mikroekonomii. Część 1 i 2, Wydawnictwo Uniwersytetu Ekonomicznego w Krakowie, Kraków 2017 / Solek A., Exercises in Microeconomics, Wydawnictwo Uniwersytetu Ekonomicznego w Krakowie, Kraków 2013 3. Z. Dach, A. Pollok, K. Przybylska, Zbiór zadań z mikroekonomii, Polskie Towarzystwo Ekonomiczne, Kraków 2010					
Supplementary literature	1. CFA Institute - 2020 CFA© Program Curriculum Level I Volumes 1-6, Wiley, 2019 2. D. Begg, S. Fisher, G. Vernasca, R. Dornbusch, Mikroekonomia, Polskie Wydawnictwo Ekonomiczne, Warszawa 2014/ D.Begg, G. Vernasca, S. Fischer, R. Dornbusch, Economics, McGraw Hill, 10th edition, 2010 3. H.R. Varian, Mikroekonomia. Kurs średni – ujęcie nowoczesne, Wydawnictwo Naukowe PWN, Warszawa 2018 / H.R. Varian, Intermediate Microeconomics: A Modern Approach, 8th Edition, Norton & Company, New York 2019 4. N.G. Mankiw, M.P. Taylor, Mikroekonomia, Polskie Wydawnictwo Ekonomiczne, Warszawa 2015 / N.G. Mankiw, The Principles of Microeconomics, 7th Edition, Cengage Learning, Andover, Hampshire 2014/ N.G. Mankiw, M.P. Taylor, A. Ashwin, Business Economics, 3rd Edition, Cengage Learning EMEA, Andover, Hampshire, 2019 5. P. Krugman, R. Wells, Mikroekonomia, Wydawnictwo Naukowe PWN, Warszawa 2018 / P. Krugman, R. Wells, Microeconomics, 6th Edition, Worth Publishers, New York 2020 6. R.H. Frank, Mikroekonomia jakiej jeszcze nie było, Gdańskie Wydawnictwo Psychologiczne, Gdańsk 2007 / R. Frank, Microeconomics and Behavior, 10th Edition, McGraw Hill, New York 2021 7. Z. Dach, Mikroekonomia, Wydawnictwo Uniwersytetu Ekonomicznego w Krakowie, Kraków 2015					
Form and conditions of passing the course	The final grade is calculated as follows: 0.4 * the result of an in-class/online test + 0.6 * the result of the final exam (both results must be higher than 50%).					
Course instructors	Ryszard Kowalski, PhD (Department of Microeconomics) Mariola Mamcarczyk, PhD (Department of Economics)					

Załącznik

	Michał Michorowski, PhD (Department of Economics) Artur Pollok, PhD (Department of Economics) Rafał Sieradzki, PhD (Department of Economics) Ewa Ślęzak, Associate Professor (Department of Economics)
Additional information	

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: **Finance and accounting**

Course title	**Public finance**
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	
Course profile	General academic studies
PRK (Polish Qualification Framework) Level	
Year of study/term	2/3

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	
Part-time studies:	30	

Disciplines

Name	Number of ECTS credits
Economics and Finance	5

Instructor responsible for syllabus: Joanna Niżnik

Intended learning outcomes

Code	Description
G1	The purpose of this course is to provide an introduction to the theory and practice of government finance.
G2	The aim of this course is to show the functions of a government i.e. some efficiency and equity aspects
G3	The purpose is to provide an introduction to the theory of public budget, taxation, social security and fiscal balance.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The graduate knows and understands knowledge concerning functioning of the public sector and public finance and knew the role of fiscal instruments and functioning of the state in contemporary public system	P6S_WGS1 P6S_WKS1
E2	U	The graduate is able to interpret economic phenomena in the field of public finance and analyze causes of specific financial processes	P6S_UWS1 P6S_UKS2
E3	K	The graduate is ready to assess the scope of acquired knowledge, understands the necessity of enhancing their knowledge and improving their analytical skills. . The student will be able to cooperate in the group.	P6S_KKS1 P6S_KKS2 P6S_KOS2

Methods of verification of learning outcomes: Written examination, tests, weighted or arithmetic mean of partial marks, presentations, practical exercises

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies

Załącznik

		Lectures		
	L1	Introduction and background	2	1
	L2	Public goods and externalities	4	2
	L3	The functions of a government: state budget	3	2
	L4	The theory of taxation	3	2
	L5	Public expenditures	4	1
	L6	Fiscal balance: public deficit and public debt	2	1
		Classes		
	C1	Theoretical and Empirical Tools of Public Finance	4	3
	C2	Externalities: Problems and Solutions	3	2
	C3	Public Goods and Cost-Benefit Analysis	4	2
	C4	Political Economy and State and Local Government Expenditures	3	2
	C5	Budget Analysis and Deficit Financing	3	2
	C6	Taxation in Poland and other EU Countries	4	2
	C7	The Equity Implications of Taxation: Tax Incidence	2	1
	C8	Tax Inefficiencies and Their Implications for Optimal Taxation	3	2
	C9	Taxes on Labor Supply	2	1
	C10	Corporate Taxation	2	1

Teaching methods	Case study, whiteboard exercises, discussion, e-learning, group work, text work, presentation, auditorium lecture.

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	30	20
Test/examination taking	10	10
Student's self study	15	22
E-learning	0	0
Others	50	71
Total hours	150	150
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1	P6S_WGS1 P6S_WKS1	G1, G2, G3	L1-L6 C1-C10	Case study, whiteboard exercises, discussion, e-learning, group work, text work, presentation, auditorium lecture	Written examination, tests, weighted or arithmetic mean of partial marks, presentations, practical exercises
E2	P6S_UWS1 P6S_UKS2	G2, G3	L2-L6 C1-C10	Case study, whiteboard exercises, discussion, e-learning, group work, text work, presentation	Written examination, tests, weighted or arithmetic mean of partial marks, presentations, practical exercises

Załącznik

	E3	P6S_KKS1 P6S_KKS2 P6S_KOS2	G2, G3	L2-L6 C1-C10	Case study, whiteboard exercises, discussion, e-learning, group work, text work, presentation	presentations, practical exercises
Basic literature	H. Rosen, T. Gayer, Public finance, 10th Mcgraw-hill, New York, 2014 J. Gruber, Public Finance Public Policy, 6th ed., Worth, 2019					
Supplementary literature	H. H. Ulbrich, Public finance in theory and practice, 2nd edition, Routledge. London, 2011 Musgrave R.A., Musgrave P.B., Public finance in theory and practice, New York: Mcgraw-hill, 1989					
Form and conditions of passing the course	40% of the classes grade and 60% of the final written examination/assignment concerning topics discussed during lectures					
Course instructors	Dr Joanna Niżnik, dr Piotr Podsiadło					
Additional information						

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	RESEARCH PROJECT
Language of instruction	English
Code/Speciality	Global Finance and Accounting /Banking, financial markets and Insurance – CFA / ACCA
Code category	General
Course profile	General academic studies
PRK (Polish Qualification Framework) Level	6 – first degree
Year of study/term	2/4

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:		30
Part-time studies:		18

Disciplines

Name	Number of ECTS credits
Economics and Finance	4

Instructor responsible for syllabus	Dr Katarzyna Mikołajczyk

Intended learning outcomes

Code	Description
G1	To provide students with the conceptual knowledge necessary to undertake research in the area of finance and accounting.
G2	To present the research methods used in economics and business studies.
G3	To present the realities of undertaking research and its ethical implications.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
O1	W	Student knows and understands research philisophy, different approaches to reasoning, strategies and procedures that are most suitable to their own research project.	FA_W01 FA_W02
O2	U	Student is able to state research questions, and solve different research problems using varied techniques for collecting and analysing different types of data.	FA_U01 FA_U03
O3	K	Student is ready to apply the knowledge, skills and understanding gained to his/her own research project. The student will be able to cooperate in the group.	FA_K02

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Methods of verification of learning outcomes	in-class assignments, research project

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Basic principles of undertaking research project, its structure and formal requirements.	4	2
W2	Research philosophy and approaches to theory development.	3	2
W3	Formulating the research design: identifying main research strategies	4	2
W4	Literature review: preliminary search and critical review.	4	3
W5	Formulating and clarifying the research topic, developing research hypotheses.	3	2
W6	Collecting primary data & using secondary data.	4	2
W7	Analysing quantitative and qualitative data: exploring, presenting, describing data, examining relationships and trends	4	2
W8	Writing and presenting research report	4	3

Teaching methods	Tutorial, discussion, problem-based learning, computer-based workshops

Student workload (number of contact hours, on-line work and self-study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	30	18
Office hour participation	30	20
Test/examination taking	0	0
Student's self-study	40	62
E-learning	0	0
Others	0	0
Total hours	100	100
Number of ECTS credits	4	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
O1	FA_W01 FA_W02	G1	W1-W5	Tutorial, discussion, problem-based learning	in-class assignments project
02	FA_U01 FA_U03	G2	W3-W8	Tutorial, discussion, problem-based learning, computer-based workshops	in-class assignments, project
03	FA_K02	G3	W8	Tutorial, discussion, problem-based learning, computer-based workshops	project

Załącznik

Basic literature	1. M.Saunders, P.Lewis, A.Thornhill, Research methods for business students, 7th ed., Pearson, 2016
Supplementary literature	1. U.Sekaran, R.Bougie, Research methods for business, 6th ed., Wiley 2013 2. Selected papers
Form and conditions of passing the course	Assessment criteria: - Part I: marks received from partial assignments (individual and team work) - Part II: marks received from project Final grade: simple average (Part I, Part II). Both parts should be passed.
Course instructors	Dr Katarzyna Mikołajczyk, Assistant Professor Dr Habil. (H.C.) Marcin Kędzior, Associate Professor
Additional information	Course is divided into two parts (15h/15h). Part I is conducted by Prof. M.Kędzior, Part II by Dr K.Mikołajczyk

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Risk and ecological projects
Language of instruction	English
Code/Speciality	Global Finance and Accounting
Code category	
Course profile	General academic
PRK (Polish Qualification Framework) Level	First degree
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economics and finance	4
Law	0
Other disciplines	0

Instructor responsible for syllabus

Maciej Cycoń, dr
Renata Żaba-Nieroda, dr

Intended learning outcomes

Code	Description
C1	Familiarizing students with the issues in the field of risk theory (elements of: utility theory, game theory, perspective theory)
C2	Developing the ability to use the risk theory to interpret and evaluate economic and financial phenomena
C3	To acquaint students with the methods of ecological risk analysis in financing investment projects
C4	To acquaint students with the diagnosis of enterprise financing as well as research and critical assessment of the effects of current decisions and development investment projects of the enterprise, taking into account environmental risk in project financing.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The student knows and understands the mechanisms related to risk in the financial market	FA_W01 FA_W02 FA_W03
E2	W	The student knows and understands the mechanisms related to ecological risk in the project	FA_W01 FA_W02 FA_W06
E3	U	The student is able to apply elements of the risk theory to interpret, evaluate, forecasting as well as modeling economic and financial phenomena.	FA_U01 FA_U02 FA_U04
E4	K	The student is able to critically assess his/her own knowledge and the content received in the risk theory, especially in	FA_K01 FA_K02

Załącznik

			ecological risk, can solve cognitive and practical problems in the fields of risk. The student will be able to cooperate in the group.	

Methods of verification of learning outcomes	P2 Individual project, P3 Test

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
L1	Making decisions under uncertainty and risk	2	1
L2	Probability theory and risk	2	1
L3	Elements of the utility theory	2	1
L4	Risk in the financial market	2	1
L5	Ecological risk in project financing	2	1
L6	Sources of ecological risk	3	2
L7	Climate risk and its management	2	2
		15	**9**
E1	Risk management process	3	2
E2	Risk measurement and assessment	2	1
E3	Application of the prospect theory in the financial market	2	1
E4	Determining the risk in investment projects	2	1
E5	Types of ecological risk – case study	2	2
E6	Ecological efficiency of investment projects	3	2
E7	Evaluation of pro-ecological projects based on a cost-benefit analysis	2	1
E8	Evaluation of pro-ecological projects based on the cost-effectiveness method.	2	2
E9	Hedging instruments and environmental insurance	4	2
E10	Analysis of the sources of ecological risk in financing investments	4	2
E11	Methods of securing investments against ecological risk	4	2
		30	**18**

Teaching methods	N1 Lecture N3 Presentation N4 Discussion N6 Simulation N7 Case study N17 Problem-based learning

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Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	8	15
Test/examination taking	2	2
Student's self study	45	56
E-learning	0	0
Others	0	0
Total hours	100	100
Number of ECTS credits	4	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
E1 W	FA_W01 FA_W02 FA_W03	C1	L1, L2, L3, L4, L5, L6; E3, E4,	N1, N3, N4, N6, N7, N17	P3
E2 W	FA _W01 FA _W02 FA _W06	C3,C4	L6, L7; E3, E4, E5, E6, E7, E8, E0, E10,E11	N1, N3, N4, N6, N7, N17	P2, P3
E3 U	FA_U01 FA_U02 FA_U04	C1, C2,C4	L1, L2, L3, L4, L5, L6; L7, E1, E2, E3	N1, N3, N4, N6, N7, N17	P2, P3
E3 K	FA _K01 FA _K02	C1, C2, C3,C4	L1, L2, L3, L4, L5, L6; L7, E1, E2, E3, E4, E5, E6, E8, E0, E10, E11	N1, N3, N4, N6, N7, N17	P2

Basic literature

S. Roeser, R. Hillerbrand, P. Sandin, M. Peterson, *Handbook of Risk Theory Epistemology, Decision Theory, Ethics, and Social Implications of Risk*, Springer 2012.
S. Labatt, R. R. White, Environmental Finance: A Guide to Environmental Risk Assessment and Financial Products, John Wiley & Sons Inc., 2002
O. Weber, Environmental Credit Risk Management in Banks and Financial Service Institutions, Business Strategy and the Environment, 2012,

Supplementary literature

G. Halkos, A. Zisiadou, Can We Hedge an Investment Against A Potential Unexpected Environmental Disaster?, Economics of Disasters and Climate Change, 2021
D. Borge, *The Book of Risk*, John Wiley & Sons, New York 2001
M. P. Sharfman, C.S. Fernando, Environmental Risk Management and the Cost of Capital, Strategic Management Journal, 2008,

Form and conditions of passing the course

Final grade = Exam - single choice test + Individual project (50%)

Załącznik

Course instructors	Cycoń Maciej, dr Żaba-Nieroda Renata, dr Kultys Aleksandra, mgr
Additional information	-

Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	**Risk management in insurance**
Language of instruction	English
Code/Speciality	Global Finance and Accounting: Banking, financial markets and insurance
Code category	Specialized
Course profile	Academic
PRK (Polish Qualification Framework) Level	7 – 1st Level (Bechelor's Degree)
Year of study/term	3/6

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	15	30
Part-time studies:	9	18

Disciplines

Name	Number of ECTS credits
Economics and Finance	4

Instructor responsible for syllabus: dr hab. Elzbieta Kubińska

Intended learning outcomes

Code	Description
C1	Gaining the knowledge of the concept of risk in social and economic insurance and the knowledge of the economic foundations of the functioning of the insurance system
C2	Learning the basic methods of using mathematics and statistics in insurance
C3	Developing the ability to independently expand knowledge about the functioning of the insurance system based on various sources

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
E1	W	The student knows and understands the definition, recognition and distinction of risk in insurance	FA_W02
E2	U	The student is able to use the knowledge of mathematics and statistics in determining the level of insurance risk	FA_U03
E3	K	The student is ready to expand his knowledge of the insurance market	FA_K02

Methods of verification of learning outcomes: written exam, test, activity

Course content

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
W1	Introduction. Risk and risk management in insurance	3	2

Załącznik

	W2	Processing of insurance data. Probabilistic models of insurance risk	3	2
	W3	Financial and actuarial rules for calculating insurance premiums	2	1
	W4	Pension systems in old age risk management	2	1
	W5	Theoretical aspects of the functioning of pension security systems	2	1
	W6	Pension gap	3	2
		Suma	15	9
	C1	Risk as a random variable, distributions of random variables	2	1
	C2	Models of financial mathematics, calculating the actuarial value of a fixed annuity	4	2
	C3	Individual risk model, approximation of the sum of independent random variables	4	2
	C4	Collective risk model, S distribution, recursive method for complex Poisson distribution, parameters of complex Poisson distribution	4	2
	C5	Application of the risk theory, the process of financial surplus (at what time will the ruin occur), the adjustment coefficient R, the probability of ruin, the calculation of the surplus	4	2
	C6	Reinsurance, determination of the net premium of excess claims reinsurance - for the complex Poisson distribution with parameter A	4	3
	C7	Life Insurance: one-time and multiple-use indefinite insurance	3	2
	C8	Life insurance: term insurance	3	2
	C9	Test	2	2
		Suma	30	18

Teaching methods	auditorium lecture, case study, discussion, problem teaching, group work, presentation,

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	45	27
Office hour participation	10	20
Test/examination taking	5	5
Student's self study	40	48
E-learning	0	0
Others	0	0
Total hours	100	100
Number of ECTS credits	4	

Załącznik

<table>
<tr><td>Course matrix</td><td>
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<tr><td>E2</td><td>FA_U03</td><td>C2</td><td>C1-C9</td><td>N1, N3</td><td>P1</td></tr>
<tr><td>E3</td><td>FA_K02</td><td>C3</td><td>W1-W6</td><td>N4, N5</td><td>F1, F8, F12</td></tr>
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</td></tr>
<tr><td>Basic literature</td><td>Kowalczyk P., Poprawska E., Ronka-Chmielowiec W., Metody aktuarialne. Zastosowania matematyki w ubezpieczeniach, PWN 2006
Michalski T., Twardowska K., Tylutki B., Matematyka w ubezpieczeniach. Jak to wszystko policzyć? Placet, Warszawa 2005
Jedynak T., Behawioralne uwarunkowania decyzji o przejściu na emeryturę, C.H. Beck, Warszawa 2022.</td></tr>
<tr><td>Supplementary literature</td><td>Jaworski P., Micał J., Modelowanie matematyczne w finansach i ubezpieczeniach, Poltext, Warszawa 2005
Alexander Melnikov, Risk Analysis in Finance and Insurance, Chapman and Hall 2019
Góra M., System emerytalny, Polskie Wydawnictwo Ekonomiczne, Warszawa 2003
D. Blake, Pension Economics, John Willey & Sons, Ltd., Chichester 2006.
Cycoń M., Jedynak T, Ubezpieczenia gospodarcze i społeczne, Poltext, Warszawa 2020.</td></tr>
<tr><td>Form and conditions of passing the course</td><td>Final grade = 0.4 x current grade + 0.6 x exam grade
Current grade = 0.8 x test grade + 0.2 x grade for active participation during classes
Exam grade - examination in the form of a test</td></tr>
<tr><td>Course instructors</td><td>Prof. UEK, dr hab. Elzbieta Kubińska, mgr Joanna Filiczkowska, dr Tomasz Jedynak, dr Maciej Cycoń</td></tr>
<tr><td>Additional information</td><td></td></tr>
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Załącznik

SYLLABUS – CRACOW UNIVERSITY OF ECONOMICS

Field of study: Finance and accounting

Course title	Sustainability Reporting
Language of instruction	English
Code/Speciality	Global Finance and Accounting: Corporate Finance and accounting
Code category	
Course profile	General academic
PRK (Polish Qualification Framework) Level	Level 6
Year of study/term	3/5

Form of instruction/Number of hours

	Lectures	Others
Full-time studies:	30	30
Part-time studies:	18	18

Disciplines

Name	Number of ECTS credits
Economics and finance	5

Instructor responsible for syllabus

Prof. UEK dr hab. Joanna Krasodomska

Intended learning outcomes

Code	Description
Objective 1	To present basic assumptions of sustainability reporting.
Objective 2	To explain to students how companies communicate their sustainability related activities with stakeholders and various aspects of this process, including financial and economic impacts.
Objective 3	To make students familiar with current changes in the sustainability reporting landscape and how they impact companies practices.

Achieved learning outcomes

Code	Cat.	Description	Reference to learning outcomes
FiR_W08	P_W	The graduate knows and understands the basic assumptions of sustainable development and its relation to corporate accounting and reporting.	P6S_WKS1
FiR_U08	P_U	The graduate is able to participate in a debate around sustainable development and address various opinions about this concept in the context of economics, finance, and accounting	P6S_UKS2
FiR_K01	P_K	The graduate is ready to critically assess the possessed knowledge and obtained information related to sustainability reporting and use it in future professional life. The student will be able to cooperate in the group.	P6S_KKS1

Methods of verification of learning outcomes

Written exam, test exam, activity in class, presentation.

Course content

Lectures

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
L1	CSR/Sustainability and accounting	4	3

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	L2	Theories of accounting for sustainability	2	1
	L3	Determinants of sustainability reporting	2	1
	L4	GRI Standards	2	1
	L5	Integrated Reporting	2	1
	L6	Climate change reporting	2	1
	L7	Sustainability reporting in European Union	4	3
	L8	Sustainable Development Goals (SDGs)	4	3
	L9	Assurance of extended external reporting	2	1
	L10	Socially responsible investing	2	1
	L 11	Harmonization of sustainability reporting	4	2

Other

Code	Description	Number of hours Full-time studies	Number of hours Part-time studies
O1	CSR/sustainability in corporate practice	2	2
O2	Stakeholder engagement as an element of non-financial/integrated reporting	2	1
O3	Determinants of sustainability reporting	2	1
O4	GRI standards	2	1
O5	Integrated reporting: best practices (case studies)	2	1
O6	Climate change reporting	2	1
O7	Non-financial disclosures according to the Directive 2014/95/EU	2	1
O8	Sustainability Development Goals in corporate reporting	2	1
O9	Assurance of extended external reporting	2	1
O10	Socially responsible investing	2	1
O11	Harmonization of sustainability reporting	2	1
O12	Sustainability related rankings	2	1
O13	Sustainability reporting in action (company case study)	2	1
O14	Presentations (part 1)	2	2
O15	Presentations (part 2)	2	2

Teaching methods: E-learning, group work, presentation, auditorium lecture.

Student workload (number of contact hours, on-line work and self study)

Activity type	Number of hours	
	Full-time studies	Part-time studies
Participation in classes involving direct contact with lecturer	60	36
Office hour participation	6	6
Test/examination taking	4	4
Student's self study	45	69
E-learning	5	5
Others	5	5
Total hours	125	125
Number of ECTS credits	5	

Course matrix

Learning outcomes	Reference to learning outcomes	Course objectives	Course content	Teaching methods/tools	Assessment methods
FiR_W08	P6S_WKS1	Objective 1	L1, L2, L3, O1, O2,O3	E-learning, group work, presentation,	Written exam, test exam, activity in class, presentation.
FiR_U08	P6S_UKS2	Objective 2	L4, L5, L6, L7, L8, L9 ,		

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				L10,L11, O4, O5, O6, O7, O8, O9, O10, O11	auditorium lecture.	
	FiR_K01	P6S_KKS1	Objective 3	L4, L5, L6, L7, L8, L9 , L10,L11, O13, O14, O15		
Basic literature	Gunnar Rimmel, Accounting for Sustainability, 2020, Routledge					
Supplementary literature	**Textbooks:** Charl de Villiers, Pei-Chi Kelly Hsiao, Warren Maroun, *The Routledge Handbook of Integrated Reporting*, 2020, Routledge Charl de Villiers, Warren Maroun, *Sustainability Accounting and Integrated Reporting*, 2017, Routledge **Research papers:** Silvia Panfilo, Joanna Krasodomska**,** Climate Change Risk Disclosure in Europe: the Role of Cultural-Cognitive, Regulative, and Normative Factors**,** *Accounting in Europe* (2022) Charles H. Cho, Joanna Krasodomska, Paulette Ratliff-Miller, Justyna Godawska, Internationalization and CSR Reporting : Evidence from US Companies and Their Polish Subsidiaries, *Meditari Accountancy Research***,** 29(7) (2021), pp. 135-162. Joanna Krasodomska, Roger Simnett, Donna L. Street, Extended External Reporting Assurance: Current Practices and Challenges**,** *Journal of International Financial Management & Accounting*, 32(1) (2021), pp. 104-142					
Form and conditions of passing the course	As a part of the e-lectures, e-tests must be completed (online). The final grade is calculated as the arithmetic mean of grades obtained on the lectures (the final test + e-tests) and on the classes. Preparation of the presentation is voluntary. It will result in an increase in the final grade by a half grade.					
Course instructors	Prof. UEK dr hab. Joanna Krasodomska					
Additional information						