

**COURSE GUIDE**

<u>Subject name</u>	<b>Cost accounting for engineers</b>
<u>Course of study</u>	<b>Quality and Production Management</b>
<u>The form of study</u>	<b>Full-time</b>
<u>Level of qualification</u>	<b>I</b>
<u>Year</u>	<b>II</b>
<u>Semester</u>	<b>III</b>
<u>The implementing entity</u>	<b>Institute of Finance, Banking and Accounting</b>
<u>The person responsible for preparing</u>	<b>dr inż. Karolina Rybicka</b>
<u>Profile</u>	<b>General academic</b>
<u>Course type</u>	<b>major</b>
<u>ECTS points</u>	<b>4</b>

**TEACHING METHODS – NUMBER OF HOURS PER SEMESTER**

<b>LECTURE</b>	<b>CLASS</b>	<b>LABORATORY</b>	<b>PROJECT</b>	<b>SEMINAR</b>
<b>15</b>	<b>30</b>			

**COURSE AIMS**

- C1. Understanding the basic issues of costing, classification of costs for financial reporting, decision-making and control needs.
- C2. Understanding basic costing systems.
- C3. Understanding costing as an element of information system of the enterprise.
- C4. Understanding modern costing system as an instrument supported company's management

**ENTRY REQUIREMENTS FOR KNOWLEDGE, SKILLS AND OTHER COMPETENCES**

1. Basic knowledge of accounting regulations.
2. Knowledge of the principles of registering all assets and liabilities.
3. Ability to identify data coming from accounting system
4. Knowledge of basic mathematical principles used for economic calculations

## LEARNING OUTCOMES

EK 1 - Student has theoretical knowledge about systematic costing and distinguishes costs for financial reporting, decision-making and control needs.

EK 2 – Student has the ability to settle, register and allocate costs and revenues in the enterprise

EK 3 – Student can use cost information for management needs of the enterprise.

## COURSE CONTENT

Type of teaching – LECTURES 15 HOURS	Number of hours
L 1- Introduction. History of costing systems. Basic concepts of costing system, aims and functions	1
L 2- The idea, scope and classification of costs. Measurement of costs and revenues for financial reporting and decision-making purposes	1
L 3- Costs by nature and by destination – accounting approach	1
L 4- Accruals – active and passive	1
L 5- Costs of ancillary activity	1
L 6- Income Statement	1
L 7- The idea, aims and functions of calculation. Calculation ex ante and ex post. Traditional methods of calculation	1
L 8- Unit cost calculation - Activity Based Costing method	1
L 9– Models of Costing – Absorption costing and variable costing. The idea, advantages and disadvantages	1
L 10- Use of Variable Costing in decision-making process. Multidimensional and multistage costing system	1
L 11- Postulated costs. Basic concepts, scope	1
L 12- Standard costing. Analysis of deviations of standard costs	1
L 13- Planning and control of costs in management system	1
L 14- Modern costing systems (Target costing, Kaizen costing)	1
L 15- Modern costing systems (Logistic costs costing, Quality costing, Benchmarking)	1

<b>Type of teaching – CLASSES 30 HOURS</b>	<b>Number of hours</b>
<b>C 1, C 2-</b> Measurement of costs and revenues for financial reporting and decision-making purposes	2
<b>C3 – C6-</b> Recording costs by nature and by destination – accounting approach	4
<b>C 7-C8-</b> Accruals – active and passive	2
<b>C 9-C 10-</b> Costs of ancillary activity	2
<b>C 11-C 14-</b> Traditional methods of cost calculation	4
<b>C 15- C17-</b> Allocation of costs	3
<b>C 18-C-19</b> Preparing Income Statement – absorption and variable costing	2
<b>C 20-</b> Variable costing in short-term decision making	1
<b>C 21-</b> Multistage and multidimensional costing	1
<b>C 22-C24-</b> Unit cost calculation - ABC costing and TDABC costing	3
<b>C 25- C28 –</b> Cost planning and control in management. Budgeting of costs. Analysis of deviations of budgeting costs	4
<b>C29 –</b> Repeating material	1
<b>C30-</b> Final test	1

### **TEACHNING TOOLS**

1. Books and monographs
2. Audiovisual presentation
3. Blackboard
4. Exercises for students
5. Financial data from given companies

### **WAYS OF ASSESSMENT (F – FORMATIVE, P – SUMMATIVE)**

- F1. Evaluation of the implementation tasks in the classroom.
- F2. Observation of students' work in the classroom and discussion.
- P1. Written test.

## STUDENT WORKLOAD

Form of activity		Average number of hours for realization of the activity		
		[h]	ECTS	ECTS
Contact hours with the teacher	LECTURE	15	0.6	1.2
Preparation for test		15	0.6	
Contact hours with the teacher	CLASSES	30	1.2	2
Preparation for classes		20	0.8	
Getting acquainted with the indicated literature		12	0.48	0.48
Consultation		8	0.32	0.32
<b>TOTAL NUMBER OF HOURS / ECTS CREDITS FOR THE COURSE</b>		<b>100</b>	<b>4</b>	

## BASIC AND SUPPLEMENTARY RESOURCE MATERIALS

Basic resources:
<ol style="list-style-type: none"> <li>1. R. Grabowski, <i>Fundamentals of Financial Accounting</i>, wyd. SGH, Warszawa, 2015</li> <li>2. M. Karwowski, <i>Accounting and Financial Reporting</i>, wyd. SGH, Warszawa, 2015</li> <li>3. M. Biernacki <i>Exercises on Financial Accounting</i>, Wrocław : Publishing House of Wrocław University of Economics, 2014.</li> <li>4. E. Śnieżek, <i>Financial accounting</i>, CCAE, Łódź 2007</li> <li>5. I. MacKenzie, <i>Professional English in Use. Finance</i>, Cambridge University Press 2006</li> <li>6. C. Drury, <i>Management Accounting for Business</i>, Cengage Learning EMEA, 2013</li> <li>7. C. Drury, <i>Cost Accounting</i>, Butterworth-Heinemann Ltd, 1988</li> <li>8. C. Drury, <i>Cost and Management Accounting</i>, Cengage Learning EMEA, 2011</li> </ol>
Supplementary resources:
<ol style="list-style-type: none"> <li>1. <i>Rachunkowość zarządcza i rachunek kosztów w systemie informacyjnym przedsiębiorstwa</i>, ed. A.Karmańska, Difin, Warszawa 2009</li> <li>2. <i>Controlling kosztów i rachunkowość zarządcza</i>, ed. G.K.Świderska, Difin, Warszawa 2010</li> </ol>

**TEACHERS (NAME, SURNAME, ADRES E-MAIL)**

1. Dr Karolina Rybicka, karolina.rybicka@wz.pcz.pl

**MATRIX OF LEARNING OUTCOMES REALISATION**

<b>Learning outcome</b>	<b>Reference of given outcome to outcomes defined for whole program</b>	<b>Course aims</b>	<b>Course content</b>	<b>Teaching tools</b>	<b>Ways of assessment</b>
EK1	K_W02, K_U01; K_U02; K_K01; K_K04	C 1, C4	L1 – L2; L11, L12, C1, C2,	1, 2, 3, 4	F1, F2,
EK2	K_W02; K_U01; K_U02; K_U04; K_K01; K_K04,	C1, C2	L3-L8, C3- C17,	1, 2, 3, 4	F1, F2, P1,
EK3	K_W01; K_W02; K_U01; K_U02; K_U06; K_K02; K_K04	C1, C3, C4	L9-L10, L13- L15; C18-C30,	1, 2, 3, 4,5	F1, F2, F3, P1,

**FORMS OF ASSESSMENT - DETAILS**

	<b>Grade 2</b>	<b>Grade 3</b>	<b>Grade 4</b>	<b>Grade 5</b>
EK 1	Student hasn't knowledge about costing and can't identify costs in different criteria.	Student has basic knowledge about costing but can't identify costs in different criteria.	Student has knowledge about costing and can identify costs in different criteria.	Student has knowledge about costing and can identify costs in different criteria. Student knows the importance of costing as element of information system

EK 2	Student can't identify assets and sources of their financing and hasn't ability to settle and register costs and revenues.	Student can identify some assets and sources of their financing but hasn't ability to settle and register costs and revenues.	Student can identify some assets and sources of their financing. Student has ability to settle and register costs and revenues.	Student can very good identify assets and sources of their financing. Student has ability to settle and register costs and revenues.
EK 3	Student can't use cost information in decision areas.	Student can use basic cost information in some decision areas.	Student can use cost information in some decision areas.	Student can use cost information in all decision areas including company's environment.

**ADDITIONAL USEFUL INFORMATION ABOUT THE COURSE**

1. Information where presentation of classes, instruction, subjects of seminars can be found, etc. - information presented to students in class, if required by the formula classes are sent electronically to the e-mail addresses of individual dean groups - information can be found on the website of the department.
2. Information about the place of classes - - information can be found on the website of the department.
3. Information about the timing of classes (day of the week / time) - information can be found on the website of the department.
4. Information about the consultation (time + place) - are given to students for the first class, can be found on the website of the department.

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Coordinator