



Introduction to accounting

Handout

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Preface

Introduction to accounting incorporates two courses: the related lecture and the seminar. The aim of the courses is to entitle the students with the knowledge of the most important terms of accounting and to introduce the bookkeeping of basic economic events. This handout presents introductory parts to the topics, provides case studies for learning purposes and also includes sample tests and exams.

Lecturer: Zsuzsanna KOVÁCS

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Course information

Course title: INTRODUCTION TO ACCOUNTING

Course code: 60A306 Lecture 60A307 Seminar

Credit: 6

Type: lecture and seminar

Contact hours / week: 2+2 Evaluation: Lecture: exam mark (five-grade), Seminar: practical course mark (five-grade)

Semester: 3rd

Prerequisites: Basic management knowledge

Learning Outcomes

- a) regarding knowledge, the student
- knows the financial accounting information system: functions and structure
- knows the process of income and cost measurement
- knows the content and system of financial statements
- b) regarding competencies, the student
- is capable of describing and interpreting economic events
- is capable of editing accounting entries and applying the basic rule of double-entry bookkeeping
- is capable of grasping the accounting tasks occurring during a financial year (opening and closing)
- composes financial statements (balance sheet and income statement) from bookkeeping data
- c) regarding attitude, the student
- is capable of critical evaluation of accounting data
- is devoted to performing high quality work in the field of accounting
- *d)* regarding autonomy, the student
- works individually in the field of accounting with responsibility
- prepares and presents accounting-related tasks and projects

Requirements

<u>For the seminar</u> (60A306): the practical course mark (five-grade) is based on the results of the two mid-term tests written during the semester. Opportunity to retake mid-term test: once at the end of the semester. *60% of the points have to be collected in order to pass.*

Only those students who had passed the seminar (have grade "2" or better) may take the lecture exam.

For the lecture (60A306): written lecture exam during the examination period. Questions will cover the material of both the lecture and the seminar.

60% of the points have to be collected in order to pass.

<u>Class attendance</u> is not compulsory but recommended as well as continuous (weekly) studying and practicing during the semester.

Grading

• 0-59%: fail

• 60-69%: pass

70-79%: satisfactory

• 80-89%: good

• 90-100%: excellent

Course topics

The students will acquire knowledge about the basic idea, segments and features of the accounting information system; stakeholders and their information needs; the branches of accounting will be introduced. Students will be informed about the most important terms and definitions in bookkeeping: assets and liabilities, equity. The core of the financial statements, the balance sheet. Economic events and their effects on the balance sheet. The skills acquired during the course includes bookkeeping and composing the profit and loss statement. Adjusting entries: accruals in accounting, theory and practice. The structure of financial statements and the cycle of accounting and reporting are also processed leading the students to be devoted to performing high quality work in the field of financial reporting with responsibility.

Topic 1. The role of accounting and accounting information systems.

Learning outcome of the topic:

The students will learn the definition, function and purpose of accounting. They will be informed about the stakeholder groups and their features. The different branches of accounting – financial and managerial – are also introduced and discussed as well as the structure of accounting information systems.

Introduction to Topic 1.

Each business entity (companies, firms) operates in an environment that is full of parties (people, other entities, institutions), which are somehow affected by them. We call these interested parties stakeholders¹. Stakeholders have a special role in the life of entities: they require information on how the firms are governed, how effective they are in meeting their strategic goals and how much resources they own. Accounting provides a special tool for communication with the stakeholders. Financial accounting may be viewed as a communication channel with external stakeholders, while managerial accounting collects relevant data for internal decision makers. During this course, we concentrate on the basics of financial accounting.

The main focus of this area is financial-economic information, but today, more and more entities publish non-financial statements. However, traditional accounting information systems are tailored to provide financial information to stakeholders in the form of a *financial statement* (annual reports)². These statements help the stakeholders (primarily investors and creditors) to collect the necessary information to make their financial decisions (e.g., to buy or sell the shares of the respective companies). Financial information usually covers financial performance (profit or loss), the resources owned and liabilities incurred by the entities, along with stakeholder's equity (financial position). Stakeholders can use the data to evaluate the firms and to make estimations about future performance or cash flows. In order to be able to compare the financial statements of several entities, the information presented and disclosed by the reporting units needs to be comparable. To ensure comparability, there are accounting regulations and/or standards³ providing a framework for financial accounting.

¹ Try to list the most important stakeholders!

² Look up the latest financial statements of the manufacturer of your favourite brand!

³ Look up what the IFRS Foundation does! Search the internet!

Topic 2. The Balance Sheet.

Learning outcome of the topic:

The students will learn about the accounting equation: defining assets, liabilities and equity. They will be informed about the recognition criteria. The most important outcome is to be able to prepare a classified balance sheet and to distinguish between short-term and long-term items.

Introduction to Topic 2.

The Balance Sheet is also called the Statement of Financial Position: it is a part of financial statements recording the assets of the entity and the claims against those assets held at a certain date (effective/key date). It has a specific format and contains summarized data in monetary units. By reading the Balance Sheet of an entity, you will be able to tell how much economic resources they own. We call these economic resources *assets*, which are held by the companies with the purpose of collecting economic benefits in the future. Assets form the property of the entities and can take many forms, for example real estate, inventories, property rights or cash. Accounting standards usually require a distinction between short-term assets (current assets) and long-term assets (fixed assets) based on how long they serve the needs of the reporting entity.

By reading the Balance Sheet, you will also find out the *claims against the assets* of the unit. These claims are the *liabilities* owed to third parties and the *shareholder's equity*. Liabilities, similarly to assets are categorized in short-term and long-term classes based on their maturity dates. There is a basic assumption in accounting: the value of assets (economic resources) possessed by an entity is equal to the amount of claims against those assets. This axiom is called the accounting equation and it is very visible in the Balance Sheet, if we list the assets on one side and the claims against those assets on the other side, the totals of both sides will be equal. This is because the two sides represent the same amount only based on different logic (1. in what forms property serves the needs of entities – assets and 2. how it is financed – liabilities and equity).

Accounting standard-setters place great emphasis on setting specific recognition criteria: criteria defining which items can be included in the balance sheet and which ones are excluded (rules to tell which items become ASSETS or LIABILITY or EQUITY). Today, in our knowledge economy there are many items which represent underlying resources for firms but are not reported on the Balance Sheets because they fail to meet general recognition criteria (for example human resource, some innovations or organizational culture)⁴.

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⁴ Could you guess why is that?

Seminar 1-2.

Task 1	•

Put a mark for each item to the right column!

Items	Fixed Asset	Current Asset	Equity	Long- term liability	Short- term liability
Finished products					
Bank loan (due in 5 years)					
Capital stock					
Accounts receivable					
Raw material					
Intellectual property rights					
Trading Securities					
Cash					
Merchandise					
Wages payable					
Loans (payable in 6 months)					
Goods in process					
Real estate					
Vehicles					
The entity provided loans to third					
parties (receivable in 2 years)					
Bank account					
Accounts payable					
Retained earnings					
Other Receivables (3 months)					
Long-term bank deposit					
Social security payable					
Software					
Customer deposits					
Tax payable					
Operational credits (payable in 3					
months)					

TI 3		
Task 2.		
I ask Z.		

How much **equity** does X Ltd. have if it controls the following items: accounts payable 2 000 000 HUF, accounts receivable 4 000 000 HUF, wages payable 1 000 000 HUF, and the bank account has 8 000 000 HUF?

Task 3.

The items of Monday company are the following on 1st January, 20X4 (data in HUF):

Bank account: 4 500 000, 1 900 000 has been provided as a loan to another firm for 3 years in 20X3, accounts payable: 900 000, wages payable: 1 800 000, raw material: 500 000, operational credits: 1 500 000, accounts receivable: 700 000, tax payable: 900 000, negotiable bonds: 500 000, real estate: 1 000 000, Bank loans: 2 000 000.

Questions:

- 1. How much equity and liability does the company have?
- 2. How much resources does the company own?
- 3. What is the amount of the current liabilities and how can these be settled?

Task 4.

The items of Tuesday company are the following on 1st January, 20X4 (data in HUF):

Raw material: 35 000 000, notes payable: 5 000 000, cash: 4 000 000, stock capital: 270 000 000, long-term bank loan: 12 000 000, goods in process: 16 000 000, accounts payable: 50 000 000, PP&E in-process: 28 000 000, accounts receivable: 85 000 000, wages payable: 15 000 000, finished goods: 30 000 000, notes receivable: 20 000 000, tax payable: 31 000 000, merchandise: 32 000 000, real estate: 70 000 000, retained earnings:, bank account: 50 000 000, short-term loans payable: 40 000 000, intangibles: 30 000 000, technical equipment: 50 000 000, social security payable: 3 000 000, securities held for sale 5 000 000, other long term liabilities: 15 000 000, shares (held as investment): 15 000 000.

Questions:

- 1. How much current assets does the company own?
- 2. How much equity does the company own?
- 3. How much does the company owe to other parties?
- 4. How much resources does the company own?

Task: Create the balance sheet of the company!

Task 5.

Is the situation possible?

- a) value of equity equals the value of assets.
- b) value of equity is less than the value of assets.
- c) value of equity is more than the value of assets.
- d) value of current assets is equal to the value of total resources.
- e) value of assets is more than the value of liabilities.
- f) value of assets is less than the value of liabilities.
- g) value of economic resources is more than the value of claims against assets.
- h) value of assets is more than the value of claims against assets.
- i) value of liabilities is more than the value of equity.
- j) value of inventories is more than the value of currents assets.
- k) value of inventories is more than the value raw materials.
- I) value of fixed assets is less than the value of PP&E assets.
- m) value of fixed assets is less than the value of current assets.

Worksheets

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ASSETS	Value	CLAIMS A.A.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
Securities			
Cash and cash equivalents			
Total assets		Total claims a.a.	

ASSETS	Value	CLAIMS A.A.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
Caracitica			
Securities			
Cash and each equivalents			
Cash and cash equivalents			
Total assets		Total claims a.a.	
10(a) a33C(3		Total cialilis a.a.	

ASSETS	Value	CLAIMS A.A.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
Caracitica			
Securities			
Cash and each equivalents			
Cash and cash equivalents			
Total assets		Total claims a.a.	
10(a) a33C(3		Total cialilis a.a.	

<u>Solutions</u>

Task 2.

Balance Sheet, X. Ltd., 20XX.01.01. (1 000 HUF)

Assets	Value	Claims a.a.	Value
FIXED ASSETS		EQUITY	9 000
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
Financial investments		Subordinated liabilities	
		Long-term liabilities	
CURRENT ASSETS			
Inventories		Short-term liabilities	
		- accounts payable	2 000
Receivables		- wages payable	1 000
- accounts receivable	4 000		
Securities			
Cash and cash equivalents			
- bank account	8 000		
TOTAL ASSETS	12 000	TOTAL CLAIMS a.a.	12 000

Task 3.

Balance Sheet, Monday Ltd., 20X4.01.01. (1 000 HUF)

ASSETS	VALUES	CLAIMS a.a.	VALUE
FIXED ASSETS	2 900	EQUITY	2 000
Intangible assets	0		
PP&E assets	1 000	PROVISIONS	0
-real estate	1 000	LIABILITIES	7 100
Financial investments	1 900	Subordinated debt	0
- provided loans	1 900	Long term liabilities	2 000
CURRENT ASSETS	6 200	- Bank loans	2 000
Inventories	500	Short term liabilities	5 100
- raw material	500	- accounts payable	900
Receivables	700	- wages payable	1 800
- accounts receivable	700	- operational credit	1 500
		- tax payable	900
Securities	500		
- negotiable bonds	500		
Cash and cash equivalents	4 500		
- bank account	4 500		
TOTAL ASSETS	9 100	TOTAL CLAIMS a. a.	9 100

Task 4.

Balance Sheet, Tuesday Ltd., 20X4.01.01. (1 000 HUF)

		*	
ASSETS	VALUE	CLAIMS a.a.	VALUE
FIXED ASSETS	193 000	EQUITY	299 000
Intangible assets	30 000	Stock capital	270 000
PP&E assets	148 000	Retained earnings	29 000
- in-process PPE	28 000		
- real estate	70 000		
- technical equipments	50 000	PROVISIONS	0
Financial investments	15 000	LIABILITIES	171 000
- shares	15 000	Subordinated debt	0
		Long-term liabilities	27 000
CURRENT ASSETS	277 000	- Bank loan	12 000
Inventories	113 000	- Other long term liabilities	15 000
- raw material	35 000		
- goods in process	16 000		
- finished goods	30 000		
- merchandise	32 000		
		Short term liabilities	144 000
Receivables	105 000	- notes payable	5 000
- accounts receivable	85 000	- accounts payable	50 000
- notes receivable	20 000		
Securities	5 000	- Wages payable	15 000
- securities for sale	5 000	- tax payable	31 000
Cash and cash equivalents	54 000	- short term loans	40 000
- cash	4 000	- social security	3 000
- bank account	50 000		
TOTAL ASSETS	470 000	TOTAL CLAIMS a.a.	470 000

Topic 3. Bookkeeping

Learning outcome of the topic:

The students will learn about bookkeeping: definition, function and forms of bookkeeping and T-accounts. They will be informed about asset and liability accounts. The most important outcome is to be able to post basic and complex economic events, and to compute balances and turnovers. The general ledger and the general journal are also introduced and discussed as well as synthetical and analytical accounting.

Introduction to Topic 3.

In accounting, the financial year is the cycle of reporting. During the financial year, bookkeeping is the dynamic system for processing transactions. These transactions are formalized in this handout as economic events that occur during the operating process which can be expressed in economic units and are verifiable. The events trigger changes in assets, liabilities, and/or equity of the business by resulting in an entry in the accounting information system. The changes need to be verified, processed and recorded. Verification happens with the help of evidences which are documents supporting an entry (for example an invoice, payroll or contract). Processing involves accounting personnel determining the monetary value attached to the event and also specifying which items of the financial statements are affected and how (increase or decrease). Recording occurs with the help of accounts: tools for recording economic events under determined rules (double-sided records of debit-credit entries).

- Recording on the left side of an account: Debit entry.
- Recording on the right side of an account: Credit entry.
- Sum of the debit entry values during a period is the *Debit Turnover* (DT).
- Sum of the credit entry values during a period is the *Credit Turnover* (CT).
- Difference of actual Debit turnover and Credit turnover: Balance of an account.
 - Debit Balance if DT > CT
 - Credit Balance if DT < CT

During bookkeeping, the *basic rule of double-entry bookkeeping* needs to be followed: each economic event induces an entry with at least two accounts with the same amount recorded on the debit and credit sides. This rule helps us to avoid some mistakes (for example increasing or decreasing two assets in an entry) but does not prevent every type of accounting failure. Today, bookkeeping generally happens with the help of accounting software of even integrated information systems like enterprise resource planning systems⁵. But even in that case, processes are not fully automatized and sometimes mistakes happen. When accounting mistakes are discovered, cancellation entries are applied to neutralize their effects to bring the books to balance.

There are two forms of bookkeeping which carry the same content but organize the data based on different logic. These two forms are *chronological bookkeeping and ledger-type bookkeeping*. The former means recording the events in a chronological order in the *general journal*, which is a good start for bookkeeping purposes as it gives a clear picture about the

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⁵ Look up some famous ERP systems on the internet!

transactions that occur during a specific period. However, when it comes to preparing financial statements, we need information that is organized in order to support that. Ledger-type bookkeeping is just perfect for that as it involves recording the economic events on the respective ledger accounts (accounts representing an item in the Balance Sheet or Income Statement). The *general ledger* itself is a registry of each account necessary to compose the financial statements. Ledger-type bookkeeping provides the up-to-date balances for the ledger accounts.

Seminar 3.

CASE STUDY

The opening accounts of the "Beginner" Ltd for 20X4 are the following (€):

<u>Assets:</u> PP&E assets: 40 000, Raw material: 5 000, Merchandise: 500, Finished goods: 7 000, Accounts receivable: 800, Cash: 200, Bank account: 2 500

<u>Claims against assets</u>: Capital stock: 45 000, Retained earnings: 4 900, Long term bank loan: 1 000, Operational credits: 1 300, Accounts payable: 2 100, Wages payable: 1 000, Tax payable: 700.

<u>Task:</u> Prepare the opening Balance Sheet for the company! Use the worksheet on the next page.

The following economic events occurred during the financial year:

- 1. 600 € have been collected from Accounts receivable. The bank has sent the certification of the transfer.
- 2. Purchasing raw material. The invoice has arrived, the price is 200 €, payable in 8 days.
- 3. Buying a computer device for the central office for 200 € cash.
- 4. 150 € operational credits have been paid back from the bank account. The bank has sent the certification of the transfer.
- 5. Withdrawing from the bank account the amount of wages payable.
- 6. Transferring 100 € long term bank loan to the bank. The bank has sent the certification of the transfer.
- 7. Paying wages payable in cash.
- 8. Buying merchandise for 500 € on credit. The invoice has been received.
- 9. Transferring tax payable from bank account. The bank has sent the certification of the transfer.
- 10. Sending back merchandise of 50 € due to quality problems. Adjustment invoice has been received.
- 11. Withdrawing new operational credits to pay entire Accounts Payable.
- 12. Lending 200 € for a partner for six months. The bank has sent the certification of the transfer.

<u>Task:</u> Open the accounts and record the economic events of the period on T-accounts! Compose the closing Balance Sheet!

You can find worksheets on the next pages.

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
6 '''			
Securities			
Cash and each carrival areta			
Cash and cash equivalents			
Total assets		Total claims a.a.	
TOTAL ASSETS		TOtal Claliffs a.a.	

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
Consulting			
Securities			
Cash and cash equivalents			
Casii anu casii equivalents			
Total assets		Total claims a.a.	

Solution

		ASSET	ΓS					CLAIN	MS A.A.		
PP&E	assets	Raw n	naterial	Bank a	ccount	Stock	(Capital	Bar	nk loan	Retaine	d earnings
OE 40 000		OE 5 000		OE 2 500	4. 150		OE 45 000	6. 100	OE 1 000		OE 4 900
3. 200		2. 200		1. 600	5. 1 000	CE 45 000					
	CE 40 200		CE 5 200		6. 100			CE 900		CE 4 900	
					9. 700						
Mercl	handise	Finishe	d goods	_	12. 200	Wages	s payable	Operati	onal credits	Accoun	ts payable
OE 500	10. 50	OE 7 000			CE 950	7. 1 000	OE 1 000	4. 150	OE 1300	10. 50	OE 2 100
8. 500									11. 2 750	11. 2 750	2. 200
	CE 950		CE 7 000					CE 3 900			8. 500
Accounts	receivable	Ca	ash	Other Re	ceivables		I	Тах	payable		
OE 800	1. 600	OE 200	3. 200	12. 200				9. 700	OE 700		
		5. 1 000	7. 1 000								
	CE 200				CE 200						

Opening Balance Sheet 20X4. 01.01 (€) Beginner Ltd.

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS	40 000	EQUITY	49 900
Intangible assets	0	Stock Capital	45 000
		Retained earnings	4 900
PP&E assets	40 000	PROVISIONS	
		LIABILITIES	6 100
		Subordinated debt	0
		Long-term liabilities	1 000
Financial investments	0	Bank loan	1 000
CURRENT ASSETS	16 000		
Inventories	12 500	Short-term liabilities	5 100
Raw material	5 000	Operational credits	1 300
Merchandise	500	Accounts payable	2 100
Finished goods	7 000	Wages payable	1 000
		Tax payable	700
Receivables	800		
Accounts receivable	800		
Securities	0		
Cash and cash equivalents	2 700		
Cash	200		
Bank account	2 500		
Total assets	56 000	Total claims a.a.	56 000

Closing Balance Sheet 20X4. 12.31 (€) Beginner Ltd.

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS	40 200	EQUITY	49 900
Intangible assets	0	Stock Capital	45 000
		Retained earnings	4 900
PP&E assets	40 200	PROVISIONS	
		LIABILITIES	4 800
		Subordinated debt	0
		Long-term liabilities	900
Financial investments	0	Bank loan	900
CURRENT ASSETS	14 500		
Inventories	13 150	Short-term liabilities	3 900
Raw material	5 200	Operational credits	3 900
Merchandise	950		
Finished goods	7 000		
Receivables	400		
Accounts receivable	200		
Other Receivables	200		
Securities	0		
Cash and cash equivalents	950		
Bank account	950		
Total assets	54 700	Total claims a.a.	54 700

Topic 4. The model of four account classes

Learning outcome of the topic:

The students will learn about the operational accounts, e.g. cost of merchandise sold and sales revenue. They will be informed about the system of four account classes. The most important outcome is to be able to understand the meaning of realized income and operational income.

Introduction to topic 4.

The model of four account classes is a generally used accounting model which includes operational accounts. It is based on the following assumption:

We define *costs* as the value of resources used by the reporting entity for production and for administrative purposes during a period (costs must be expressed in monetary units). *Revenue* is generated by the firms when they sell some kind of output to the customers on the market (i.e. goods or services). *Expenses* represent the negative side of income and related to sales they are defined as the cost of the goods sold.

To run the model of four account classes in bookkeeping, we need the so called operational or temporary accounts. These accounts are used to record the economic events related to the circle of production (costs) and the circle of income (revenues and expenses). Operational accounts are always opened during the period (they do not have opening balances) and closed at the end of the period (they do not have a DIRECT relation to the balance sheet, their summarized remaining balances are transferred to retained earnings).

So how does this affect what we learned so far? The opening balances and the opening process will remain the same: some asset, liability and equity balances will be listed at the beginning of the case studies and we will bring their balances forward to T-accounts. Then, during bookkeeping, whenever there is an event that impacts new expenses or revenues, we will open operational accounts to record the changes. These operational accounts are related to the income of the current period. When we are finished with processing the events, the case studies will require closing the operational accounts. At this point, a certain technical account will be necessary: *Income Summary* will be opened. This account will be used to summarize the balances of the expense and revenue accounts with the purpose of determining our realized income (profit or loss of the period). Closing operational accounts means removing their balances and transferring them to Income Summary. Here, the basic rule of double-entry bookkeeping is still followed. Remember, if an expense account has debit balance (as usual), then it can be closed (=zeroed out) by crediting it – and debiting Income Summary. Hence, the debit side of Income Summary will be filled up with the expenses.

On the other hand, revenues are passive accounts, they have credit balances and will be closed on the debit sides, so Income Summary will mirror their balances on its credit side. What is the result of all that? We will have an account that summarizes the impact of all expenses and revenues: thus the actual balance of Income Summary is profit (loss) before tax! If the entity operated in a profitable way, then its revenues exceed the expenses and Income

Summary has credit balance. On the contrary, if there were more expenses than revenues, then Income Summary shows a debit balance.

What happens after calculating profit before tax is calculating and recording the distribution of income. Certain percentage of the profit is generally required by tax laws to be paid in as corporate income tax. After deducting tax from the profit, what remains with the company's shareholders is profit after tax. Still, there are two more accounting entries in the end: corporate income tax and profit after tax must be debited on Income Summary and credited on Corporate Income Tax Payable (a short-term liability to be opened) and Retained Earnings (as part of Equity). Now, Income Summary is in balance, its debit and credit turnover is equal. Note that the account is only used for summarizing balances and calculating income, it has a technical role.

Once all of the above described tasks are done, we will return to having only Balance Sheet-related accounts to be closed (this is not required in the case studies). Their balances are disclosed in the closing Balance Sheet of the period and will be the opening balances of the next period.

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Seminar 4.

The opening values of the ledger accounts of "Practice" Ltd. are the following on 1st January 20X4 (€):

Raw material	18 000
Merchandise	4 000
Goods in process	2 000
Accounts receivable	11 500
Bank loans	30 000
Bank account	13 000
Stock capital	28 000
Wages payable	2 700
Finished goods	9 500
Retained earnings	1 800
Cash	
Shares held as investment	2 000
Accounts payable	8 000
Tax payable (local)	1 500
Depreciation of PP&E	5 000
PP&E assets	15 000

Economic events of the year:

- 1. Opening the accounts.
- 2. Paying the wages payable from the bank account. The bank has sent the certificate of the transfer.
- 3. Purchasing raw material for 5 000 €. The invoice of the supplier has arrived.
- 4. Transferring 4 000 € to the suppliers from the bank account. The bank has sent the certificate of the transfer.
- 5. Selling merchandise on credit (buyer has not paid yet). Cost of merchandise sold: 2 000 €. Selling price: 3 000 €.
- 6. 2 000 € s have been paid back. The bank has sent the certificate of the transfer.
- 7. 1 000 € has been collected from customers of event 5. The bank has sent the certificate of the transfer.
- 8. 200 € discount has been given to the customers of event 5. The invoice has been corrected.
- 9. Buying merchandise for 500 € cash.
- 10. 7 000 € have been borrowed from the bank for operational purposes. The amount has been transferred to our bank account.
- 11. 7 000 € have been collected from the customers in cash.
- 12. Selling merchandise (buyer has paid in cash). Cost of merchandise sold: 1 500 €. Selling price: 2 800 €.

<u>Task:</u> Prepare the opening Balance Sheet and record the events on T-accounts! Record Corporate income tax if it is 1 100 €! Prepare the closing Balance Sheet as well!

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
Securities			
Carla and and			
Cash and cash equivalents			
Total assets		Total claims a a	
TOTAL ASSETS		Total claims a.a.	

		-	

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
Conveition			
Securities			
Cash and cash equivalents			
Cash and Cash Equivalents			
Total assets		Total claims a.a.	

Solution

Opening Balance Sheet, 20X4. 01.01 (€), Practice Ltd.

Assets	Value	Claims a.a.	Value
FIXED ASSETS	12 000	EQUITY	29 800
Intangible assets	0	Stock Capital	28 000
		Retained earnings	1 800
PP&E assets	10 000	PROVISIONS	0
		LIABILITIES	42 200
		Subordinated debt	0
		Long-term liabilities	30 000
Financial investments	2 000	Bank loans	30 000
Shares	2 000		
CURRENT ASSETS	60 000		
Inventories	33 500	Short-term liabilities	12 200
Raw material	18 000	Accounts payable	8 000
Merchandise	4 000	Wages payable	2 700
Goods in process	2 000	Tax payable	1 500
Finished goods	9 500		
Receivables	11 500		
Accounts receivable	11 500		
Securities			
Cash and cash equivalents	15 000		
Cash	2 000		
Bank account	13 000		
Total assets	72 000	Total claims a.a.	72 000

Assets (permanent)				Equity/Liabilities (Permanent)				
Rawı	material	Merc	handise		Invest	ment cr.	Stock	capital
oe 18 000 3. 5 000		oe 4 000 9. 500	5. 2 000 12. 1 500	6.	2 000	oe 30 000		oe 28 000
	ce 23 000		ce 1 000	ce	28 000		ce 28 000	
Accou	unts rec.	Bank	account		Retaine	d earnings	Acc. P	ayable
oe 11 500	7. 1 000	oe 13 000	2. 2 700			oe 1 800	4. 4 000	oe 8 000
5. 3 000	8. 200	7. 1 000	4. 4 000			15. 1 000		3. 5 000
	11. 7 000	10. 7 000	6. 2 000					
	ce 6 300		ce 12 300	ce	2 800		ce 9 000	
c	Cash	Sh	nares				Wages	payable
oe 2 000	9. 500	oe 2 000					2. 2 700	oe 2 700
11. 7 000 12. 2 800								
	ce 11 300		ce 2 000					
Goods	in proc.	Finish	ed goods		Тах р	ayable	Operatio	nal credit
oe 2 000		oe 9 500				oe 1 500		10. 7 000
	ce 2 000		ce 9 500	ce	1 500		ce 7 000	
PP&I	E assets	Depr.	Of PP&E		Income	summary	Corporate	Income tax
oe 15 000			oe 5 000	13	. 3 500	13. 5 600		14. 1 100
					. 1 100 . 1 000			
	ce 15 000	ce 5 000			. 1 000			
	Tempora	ry accounts			venue	Calculation o	f Income 5 600	
Cost of r	merch. sold	Sales	Revenue	1	penses		3 500	
5. 2 000	13. 3 500	8. 200	5. 3 000	1	ofit before	tax	2 100	
12. 1 500		13. 5 600	12. 2 800		rporate inc		1 100	
				Ne	et Profit afte	er tax (PAT)	1 000	
					= opening e	-		

Closing Balance Sheet, 20X4. 12.31 (€), Practice Ltd.

Assets	Value	Claims a.a.	Value
FIXED ASSETS	12 000	EQUITY	30 800
Intangible assets	0	Stock Capital	28 000
		Retained earnings	2 800
PP&E assets	10 000	PROVISIONS	
		LIABILITIES	46 600
		Subordinated debt	0
		Long-term liabilities	28 000
Financial investments	2 000	Bank loans	28 000
Shares	2 000		
CURRENT ASSETS	65 400		
Inventories	35 500	Short-term liabilities	18 600
Raw material	23 000	Accounts payable	9 000
Merchandise	1 000	Operational credits	7 000
Goods in process	2 000	Tax payable	1 500
Finished goods	9 500	Corporate income tax	1 100
Receivables	6 300		
Accounts receivable	6 300		
Securities			
Cash and cash equivalents	23 600		
Cash	11 300		
Bank account	12 300		
Total assets	77 400	Total claims a.a.	77 400

Topic 5. Cost accounting

Learning outcome of the topic:

The students will learn about cost classification: costs by nature, direct and indirect costs. The most important outcome is to be able to use the accounts of Costs Classified by Nature. Cost objects and overheads (direct and indirect cost) are also introduced and discussed.

Introduction to Topic 5.

Cost accounting involves the recognition, classification and recording of the costs incurred during a period. There are two main cost classification methods in accounting. The costs-by-nature method classifies the costs based on what types of resources are being consumed when they are incurred. During problem-solving, we will use the cost-by-nature classification on classes:

- 1. *Material expenses*: the historical value of the material used during the period: basic and other material, fuel, energy, water, tools, work wear, printing matter, stationery, etc.
- 2. *Purchased services*: the value of the purchased services during the financial year: freight, delivery, travel, loading, soring, postal, telephone, reparation-maintenance, subscription, rent, advertisement-marketing, membership fees, education, accounting, heating, cable, cleaning, etc.
- 3. Salary-related costs:
 - a. The amount of the total gross wages in the payroll of the period: basic wage, supplements, premium, bonus.
 - b. Other employee related costs: those payments that do not qualify for wages (benefits and compensations): travel compensation, food allowance, housing support, payments related to sick leave, dismissing, etc.).
 - c. Contributions: all items payable related to wages according to the law, calculated on the basis of wages or the number of workforce, e.g. social security contribution.
- 4. *Depreciation*: Cost related to the regular use (consumption) of PP&E and intangible assets (the contribution of these assets to the operation of the period): scheduled (planned) writing-off (reduction of net value) of the assets.

The other type of cost classification (Cost of Sales method) is based on how the costs can be allocated between the different *functions* of entities (production, sales-distribution, central-administrative). This method requires more sophisticated records and cost allocation but gives better information to stakeholders about the profitability of the reporting units. In order to do that, some cost objects need to be defined. A *cost object* can be a product or a service that is being sold to customers. It can also be a project, for example constructing a new plant for a manufacturing company. Anything that requires separate cost measurement can be defined as a cost object. Some costs can be associated with a cost object immediately after they are incurred (for example the material consumed to build a product or the salaries of the personnel engaged in providing the service). These costs are called *direct costs*.

Cost allocation is the process of matching the incurred costs of the period with the respective cost object. However sophisticated the method is, some costs will remain indirect because it is impossible to associate them with any cost object. These will be linked to *cost centers* instead. Just think about those expenditures made to run the central administrative functions of a company: some resources are used with the purpose of running the business. Direct and indirect costs and cost allocation is not included in this course, but will be explained in other courses (Controlling).

Seminar 5.

The known opening balances of the ledger accounts of "COSTLY" Ltd., 20X6.01.01 (€):

Real estate	15 500	Social security payable	3 000
Depreciation of real estate	3 500	Raw material	7 500
Machinery	20 000	Accounts receivable	7 000
Depreciation of machinery	10 000	Cash	250
Retained earnings	6 000	Wages payable	6 000
Accounts payable	11 000	Bank account	12 750

Task: Open the accounts and record the economic events of the period using the total cost method!

Economic events of the period:

- 1. Purchasing raw material. The invoice has arrived, the price is 10 000 €, payable in 8 days.
- 2. Transferring wages payable. The bank has sent the certification of the transfer.
- 3. 4 000 € have been collected from the customers. The bank has sent the certification of the transfer.
- 4. We have received an invoice of a rent of 700 € (we are renting a storehouse).
- 5. The local radio has sent its invoice (500 €) of the advertisement we have ordered.
- 6. We have received the following bills:
 - a) power (energy) 200 €
 - b) telephone 150 €
 - c) heating service 80 €.
- 7. The bank has charged our bank account with a 30 € fee.
- 8. Paying for postal services in cash: 15 €.
- 9. Transferring insurance fees (from bank account): 75 €. The bank has sent the certification of the transfer.
- 10. The use of our internal resources in the period:

a)	raw material	10 000 €
b)	gross wages	5 000 €
c)	contribution (social sec.)	2 050 €
d)	depreciation of real estate	200 €
e)	depreciation of machinery	1 000 €.

- 11. All finished products of the period have been sold. Selling price: 25 000 €, invoice has been issued.
- 12. Determine the net income of the period! Close the operational accounts!
- 13. Calculate and record the distribution of income! Corporate income tax is 10%.

ASSETS						CLAIMS A	AGAINST A	SSETS			
Real	estate	Depr. of	real estate	Mach	ninery	Accounts	payable	Retained	dearnings		
oe 15 500			oe 3 500	oe 20 000			oe 11 000		oe 6 000		
			10d. 200				1. 10 000		13b. 4 500		
							4. 700				
							5. 500				
Depr. of	machinery	Raw	material	Accounts	receivable		6a. 200	Wages	payable	ī	
	oe 10 000	oe 7 500	10a. 10 000	oe 7 000	3. 4 000		6b. 150	2. 6 000	oe 6,000		
	10e. 1 000	1. 10 000		11. 25 000			6c. 80		10b. 5 000		
						Corporate	income tax				
C	ash	Bank	account				13a. 500	Income	summary		
oe 250	8. 15	oe 12 750	2. 6 000					12. 1 550	12. 25 000		
		3. 4 000	7. 30					12. 10 200			
			9. 75			Social sec	. payable	12. 7 050			
							oe 3 000	12. 1 200			
							10c. 2 050	13a. 500			
								13b. 4 500			
OPERAT	IONAL (ter	mporary for	the period)								
Purchased	service exp.	Materi	al expense	Deprecia	tion exp.	Salaries	expense	Sales F	Revenue		
4. 700		6a. 200		10d. 200		10b. 5 000			11. 25 000	Profit	5 000
5. 500		10a. 10 000		10e. 1 000		10c. 2 050				Inc. Tax	500
6b. 150										PAT	4 500
6c. 80			12. 10 200		12. 1 200		12. 7 050	12. 25 000			
7. 30											
8. 15											
9. 75	12. 1 550										

Topic 6. The accounting cycle – Case Study

Learning outcome of the topic:

The most important outcome is to synthesize the knowledge acquired so far. Single-step income statements are also introduced and discussed as well the method of preparing the trial balance.

Seminar 6.

Opening assets and claims against assets of 'Accounting Is Fun' Ltd, 20X4.01.01 (€):

Accounts payable	5 000
Accounts receivable	5 000
Bank account	8 500
Cash	500
PP&E assets	46 000
Depreciation of PP&E	16 000
Finished goods	7 000
Merchandise	5 000
Operational credits	13 000
Provided loans (for 2 yrs)	8 000
Raw material	16 000
Retained earnings	7 000
Social security payable	2 000
Stock Capital	50 000
Wages payable	3 000

TASKS

- 1. Prepare the opening Balance Sheet!
- 2. Record the opening entries on T-accounts!
- 3. Record the economic events of the period using the total cost method!
- 4. Prepare a trial balance!
- 5. Prepare the Income Statement for the period! Corporate income tax is 10%.
- 6. Prepare the closing entries! Record the distribution of income! How does this change the Trial Balance?
- 7. Prepare the closing Balance Sheet!
- 1. Buying merchandise for 6 000 €. The invoice has arrived.
- 2. 2 000 € collected from provided loans. The bank has sent the certification.
- 3. Social security payable has been transferred. The bank has sent the certification.
- 4. 3 500 € have been withdrawn from the bank account. The bank has sent the certification.
- 5. The supplier of event 1. provided 500 € discount. The adjusting invoice has arrived.
- 6. Wages payable has been settled (in cash).
- 7. The following invoices on purchased services have arrived:
 - a) rent 2 000 €
 - b) telephone, internet 500 €

- c) accounting 300 €
- d) maintenance of cars 200 €.
- 8. The following expenses have been paid in cash:
 - a) postal service 80 €
 - b) insurance 120 €.
- 9. 12 000 € of raw material has been used for production.
- 10. Buying fuel for 400 € in cash.
- 11. Total gross wages of the period: 8 000 €; Related payable contributions (social security): 2 500 €.
- 12. 2 000 € personal income tax and 1 200 € social security have been deducted from gross wages.
- 13. Depreciation of PP&E assets: 3 000 €.
- 14. Selling price of finished goods produced and sold in the period: 32 000 €, invoice issued.
- 15. Selling merchandise, cost of merchandise sold is 1 500 €, selling price is 2 000 €. The invoice has been issued.
- 16. Close the temporary accounts!

Task 1.

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
TT QL d33ct3		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
Treceivables			
Securities			
Cash and cash equivalents			
Total assets		Total claims a.a.	

Task 2,3,6.

 	 		 		
 · 		·	 ·		
 	 	T	 		

Task 4. Solutio	on:		

ACCOUNT TITLE	BAL	ANCE
	DEBIT	CREDIT
PP&E assets		
Depreciation of PP&E		
Provided loans		
Raw material		
Merchandise		
Finished goods		
Accounts receivable		
Cash		
Bank account		
Stock capital		
Retained earnings		
Operational credit		
Accounts payable		
Wages payable		
Social security		
Personal Income Tax		
Purchased services (exp)		
Material expenses		
Salaries expenses		
Cost of merchandise sold		
Depreciation expenses		
Sales revenue		
Total		

Task 5 Solution:

Income Statement							
Year ended							
Revenues:							
Expenses:							
Profit before tax							
Corporate income tax							
Profit after tax							

Task 7 Solution:

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
Securities			
Cash and cash equivalents			
Total assets		Total claims a.a.	
TOTAL ASSETS		TOTAL CIAIIIIS a.a.	

Topic 7. Income measurement

Learning outcome of the topic:

The students will learn about accrual accounts: accrued and deferred income and expenses. The most important outcome is to be able to post the adjusting entries and to calculate adjusted realized income.

Introduction to topic 7.

The *Income statement* is a part of financial statements that includes the factors influencing the net income (profit before tax) of an entity for a certain accounting period by expressing classified revenues and expenses in monetary units. When we talk about income, we always refer to the profit or loss of a company for a certain period of time (e.g. a year, a quarter, a month). To calculate income, it is inevitable to determine which revenues and which expenses are related to the period in question. In accounting, the revenue recognition principle and the matching principle state the rules to be followed when doing so.

Adjusting is an underlying task in financial reporting. During this process, revenues and expenses are moved to the correct period (in which they were earned or incurred) with the help of adjusting entries. In accrual accounting, profit is always calculated based on the adjusted realized income, regardless of the cash flows related to revenues and expenses. The adjusting process involves opening each necessary account from the following list:

- accrued revenues (classified as receivables)
- accrued expenses (classified as liabilities)
- deferred expenses (classified as a receivables)
- deferred revenues (classified as liabilities).

After the adjusting entries are completed, the adjusted Trial Balance can be prepared which provides a basis for composing the core of financial statements in the following order:

- 1. Income Statement
- 2. Statement of Retained Earnings
- 3. Balance Sheet

The closing Balance Sheet date of the current accounting period becomes the opening balances of the next period, and the accounting cycle starts again.

Seminar 7.

<u>Some of the opening assets and claims of 'ACCRUAL IS FUN' Ltd, 20X5.01.01 (€):</u>

Accounts receivable	5 000	Cash	1 000
PP&E assets	10 000	Raw material	13 000
Accounts payable	18 000	Depreciation of PP&E assets	4 000
Wages Payable	2 000		

TASK

- 1. Record the economic events of the period using the total cost method!
- 2. Prepare the Income Statement for 20X5!
- 1. Open the accounts!
- 2. 3 000 € collected from Accounts receivable. The bank has sent the certification.
- 3. Buying merchandise for 5 000 €. The invoice has arrived.
- 4. Wages payable has been transferred. The bank has sent the certification.
- 5. Buying raw material for 2 000 €. The invoice has arrived.
- 6. Incurred cost of the period:

Туре	Total
Raw material	10 400
Purchased service*	900
Gross wages	9 000
Social security	2 900
Depreciation	700
Total	23 900

^{*} Transferred from bank account

- 7. 2 000 € personal income tax and 1 500 € social security have been deducted from gross wages.
- 8. 600 € insurance fee is paid in cash on November 1, 20X5. The fee covers 4 months (November-February).
- 9. Telephone bill for 20X5 December will arrive in January, 20X6. The amount is 250 €.
- 10. Selling price of finished goods produced and sold during the period: 30 850 €. The invoice has been issued.
- 11. The invoice is issued on provided service of 20X5. September 20X6. February. Selling price is 900 €.
- 12. Close the operational accounts! Determine the net income of the period!
- 13. Calculate and record the distribution of income! Corporate income tax is 10%.

			Seminar 7: A	Accrual is Fun L	td.		
Accounts	receivable	PP&E	assets	Account	s payable	Retained	l earnings
oe 5 000 10. 30 850 11. 900	2. 3 000	oe 10 000			oe 18 000 3. 5 000 5. 2 000		13b. 6 300
Raw n	naterial	Deprecia	t. of tang.	Social	। security	Persona	l Inc. Tax
oe 13 000 5. 2 000	6a. 10 400	•	oe 4 000 6e. 700		6d. 2 900 7. 1 500		7. 2 000
C	ash	Deferred	l expense	Wages	payable	Corporate	Income tax
oe 1 000	8. 600	8. 300		4. 2,000 7. 3,500	oe 2 000 6c. 9 000		13a. 700
	ı				ı	Accrued	expense
Mercl	nandise	Bank a	ccount	Income	summary		9. 250
3. 5 000		2. 3 000	4. 2 000 6b. 900	12. 10,400 12. 1,450	12. 31 450		
	ļ		'	12. 11,900 12. 700		Deferred	l revenue
				13a. 700			11. 300
				13b. 6,300			
TEMPORAL	RY ACCOUNTS						
	expenses	Purchase	ed service		Accrual is Fun,	Inc.	
6a. 10 400		6b. 900	8. 300		Income Statem	ent	
		8. 600		Year e	nded Decembe	r 31, 20X5	
		9. 250		Revenue:			
	12. 10 400		12. 1 450	Sales	Revenue	31 450	
				Expenses:			
Depreci	ation exp.	Sales r	evenue	Material exp	enses	10 400	
6e. 700			10. 30 850	Purchased so	ervice	1 450	
		11. 300	11. 900	Salaries exp		11 900	
	12. 700	12. 31 450		Depreciation	•	700	
				Total Expe		24 450	
Salari	es exp.		1	Profit before		7 000	
6c. 9 000				Corporate In		700	
6d. 2 900				Profit after to	ах	6 300	
	12. 11 900						

Seminar 8.

Some of the opening accounts of Ready Ltd, 20X5.01.01 (€) are the following:

PP&E assets	11 000	Raw material	15 000
Bank loans	18 000	Bank account	16 000
Accounts payable	8 000	Depreciation of PP&E assets	5 000
Accounts receivable	9 000	Goods in process	1 200
Finished goods	6 000	Wages Payable	3 000
Retained earnings	3 000	Cash	7 000

TASKS

Record the economic events of the period using the total cost method! Prepare the Income Statement for the company!

- 1. Open the accounts!
- 2. Buying merchandise for 10 000 €. The invoice has arrived.
- 3. 4 000 € bank loan has been transferred to the bank. The bank has sent the certification.
- 4. Buying raw material for 5 000 €. The invoice has arrived.
- 5. Incurred cost of the period:

Туре	Total
Raw material	8 600
Purchased service*	500
Gross wages	7 000
Social security	4 500
Depreciation	2 400
Total	23 000

^{*} Invoice has been received

- 6. The opening Wages payable has been transferred (3 000€). The bank has sent the certification.
- 7. 400 € personal income tax and 500 € social security have been deducted from gross wages.
- 8. Selling merchandise, cost of merchandise sold is 5 500 €, selling price is 7 000 €. The invoice has been issued.
- 9. 500 € insurance fee is transferred on October 1, 20X5. The fee covers 5 months (October 1 February 28.). The bank has sent the certification.
- 10. Invoice on rent that covers the period from 20X5 December 1 to 20X6 March 31 will arrive in 20X6. The amount is 800 €.
- 11. Selling price of finished goods produced and sold during the period: 40 000 €. The invoice has been issued.
- 12. The invoice is issued on provided service of 20X5. November 1 20X6. March 31. Selling price is 1 000€.
- 13. Close the operational accounts! Determine the net income of the period!
- 14. Calculate and record the distribution of income! Corporate income tax is 10%.

PP&E assets Raw material Accounts Payable Wages payable
Accounts receivable Goods in Process Social Security payable
Sb. Solid Security payable Sb. Solid Security payable Sc. Sc.
Bank Account Depreciation of tang. Retianed earnings Bank loans
oe 16 000 3. 4 000 oe 5 000 oe 3 000 3. 4 000 oe 18 6. 3 000 9a. 500 5e. 2 400 14b. 16 560 14b. 16 560 Social Security payable oe 9 000 oe 1 200 5d. 4 8b. 7 000 7 000 7b. 11. 40 000 1200 1200 1200
6. 3 000 9a. 500 Sec. 2 400 14b. 16 560 Accounts receivable oe 9 000 oe 1 200 8b. 7 000 11. 40 000 Social Security payable 7b.
Social Security payable Social Security
Accounts receivable Goods in Process oe 9 000 oe 1 200 8b. 7 000 11. 40 000 Social Security payable 5d. 4 7b.
oe 9 000 oe 1 200 5d. 4 8b. 7 000 11. 40 000
oe 9 000 oe 1 200 5d. 4 8b. 7 000 11. 40 000
oe 9 000 oe 1 200 5d. 4 8b. 7 000 11. 40 000
8b. 7 000 11. 40 000 7b.
11. 40 000
12d. 1 000 I
Finished goods Cash Personal Income tax Accrued expenses
oe 6 000 oe 7 000 7a. 400 10.
Merchandise Deferred expense Deferred Revenues Corporate Income tax
2. 10 000 8a. 5 500 9b. 200 12b. 600 14a. 1
Material expenses Purchased Service Salaries Expenses Depreciation expenses
5a. 8 600 5b. 500 5c. 7 000 5e. 2 400
9a. 500 9b. 200 5d. 4500
10. 200
13. 8 600 13. 1 000 13. 11 500
Cost of Merch. Sold Sales Revenue Profit 18 400 Income Summary
8a. 5 500 8b. 7 000 Corp. Inc.tax 1 840 13. 8 600 13. 47
11. 40 000 PAT 16 560 13. 1 000
13. 5 500 12b. 600 12a. 1 000 13. 11 500
13. 47 400
13. 5 500
14a. 1 840
14b. 16 560

Ready L	td.	
Income Stat	ement	
Year ended Decen	ber 31, 20X5	
Revenue:		
Sales Revenue		47 400
Expenses:		
Cost of merchandise sold	5 500	
Material expenses	8 600	
Purchased service	1 000	
Salaries expense	11 500	
Depreciation Expense	2 400	
Total Expenses		29 000
Net Income		18 400
Corporate Income Tax		1 840
Profit after tax		16 560

Sample tests and exam guide*

*This section applies under circumstances of normal classroom education. In those semesters of online or hybrid education, ask the teacher about current rules.

In this section you can find some sample tests for the first and second mid-terms and the lecture exam. The actual mid-terms and lecture exams will have the same structure but will include different data and questions. The tests cover theoretical and practical parts. Theoretical questions include definitions, true or false questions, recognition of concepts, etc. Practical tasks are based on the seminars.

The necessary tools for all occasions – tests and exams – are a pen and a calculator. Please bring a regular calculator, no cell phones or other types of devices are allowed to be used. When you prepare for accounting tests and exams please make sure you take enough time to understand the material and to practice the tasks. You need a routine in bookkeeping to be able to reach good grades. I generally suggest the students to practice the case studies by taking the tasks from the handout and using empty sheets for the solution. It is not enough to just browse through the solutions and try to memorize the entries, it is inevitable to solve the tasks from the beginning to the end without looking into the solution. Then when you are finished, you can compare the work with the solution for checking. This is the only way to find out the typical mistakes made during practicing.

When the tests and exams are being evaluated, each mistake counts only once. Because of the nature of the case studies, a mistake made at the beginning of the case study may result in a whole series of other mistakes as consequence, but no additional scores will be deducted for these.

Please always feel free to contact me regarding questions about this handout or the classes, the material or the exams.

Thank you for reading.

First mid-term sample

PART 1.

The '*EASY*' company has the following balances 20X4.01.01 (€):

Goods in process 3 000 Investments 3 400 Provisions 2 000 Bank account	Raw material	11 000
Provisions 2 000 Bank account	Goods in process	3 000
Bank account	Investments	3 400
Real estate 20 000 Reserve funds 10 000 Securities held for sale 600 Loan provided for long term 12 000 Receivables against employees (short term) 3 000 Bank loans (long-term) 27 000 Stock capital 50 000 Wages payable 1 000 Finished goods	Provisions	2 000
Reserve funds 10 000 Securities held for sale 600 Loan provided for long term 12 000 Receivables against employees (short term) 3 000 Bank loans (long-term) 27 000 Stock capital 50 000 Wages payable 1 000 Finished goods	Bank account	
Securities held for sale600Loan provided for long term12 000Receivables against employees (short term)3 000Bank loans (long-term)27 000Stock capital50 000Wages payable1 000Finished goods	Real estate	20 000
Loan provided for long term12 000Receivables against employees (short term)3 000Bank loans (long-term)27 000Stock capital50 000Wages payable1 000Finished goods	Reserve funds	10 000
Receivables against employees (short term) Bank loans (long-term) Stock capital Stock capital	Securities held for sale	600
Bank loans (long-term)27 000Stock capital50 000Wages payable1 000Finished goods	Loan provided for long term	12 000
Stock capital50 000Wages payable1 000Finished goods	Receivables against employees (short term)	3 000
Wages payable1 000Finished goods	Bank loans (long-term)	27 000
Finished goods Inventories Retained earnings Cash Accounts payable Shares held as investment Machinery Intellectual property rights Accounts receivable Sinished goods 22 000 2000 15 000 17 000	Stock capital	50 000
Inventories22 000Retained earnings6 000Cash500Accounts payable2 500Shares held as investment15 000Machinery2 000Intellectual property rights4 000Accounts receivable7 000	Wages payable	1 000
Retained earnings6 000Cash500Accounts payable2 500Shares held as investment15 000Machinery2 000Intellectual property rights4 000Accounts receivable7 000	Finished goods	
Cash500Accounts payable2 500Shares held as investment15 000Machinery2 000Intellectual property rights4 000Accounts receivable7 000	Inventories	22 000
Accounts payable2 500Shares held as investment15 000Machinery2 000Intellectual property rights4 000Accounts receivable7 000	Retained earnings	6 000
Shares held as investment 15 000 Machinery 2 000 Intellectual property rights 4 000 Accounts receivable 7 000	Cash	500
Machinery2 000Intellectual property rights4 000Accounts receivable7 000	Accounts payable	2 500
Intellectual property rights 4 000 Accounts receivable 7 000	Shares held as investment	15 000
Accounts receivable 7 000	Machinery	2 000
	Intellectual property rights	4 000
Tax payable 1 500	Accounts receivable	7 000
	Tax payable	1 500

Task: Prepare the Balance Sheet and calculate the missing values (use the table given)! Questions:

- 1. What is the amount of resources owned by the entity?
- 2. What is the amount of the current liabilities and how can these be settled?

ASSETS	Value	CLAIMS a.a.	Value
FIXED ASSETS		EQUITY	
Intangible assets			
PP&E assets		PROVISIONS	
		LIABILITIES	
		Subordinated debt	
		Long-term liabilities	
Financial investments			
CURRENT ASSETS			
Inventories		Short-term liabilities	
Receivables			
6 '''			
Securities			
Cash and each equivalents			
Cash and cash equivalents			
Total assets		Total claims a.a.	
10101033013		Total cialilis a.a.	

PART 2.

Answe	r the following questions:
1.	Define 'balance sheet'!
2	Define owners' equity!
2.	Define owners equity:
3.	The vertical articulation of the balance sheet is related to the number of value columns.
	True / False, because
4.	Define fixed asset!
5.	Define <i>merchandise</i> !

Solution

Balance Sheet Easy Co. 20X4.01.01 (€)

ASSETS	Value	Claims a.a.	Value
FIXED ASSETS	56 400	EQUITY	66 000
Intangible assets	4 000	reserve funds	10 000
intellectual property rights	4 000	stock capital	50 000
		retained earnings	6 000
PP&E assets	25 400	PROVISIONS	2 000
investments	3 400	LIABILITIES	32 000
real estate	20 000	Subordinated debt	0
machinery	2 000	Long-term liabilities	27 000
Financial investments	27 000	Bank loans	27 000
loan provided	12 000		
shares held as investment	15 000		
CURRENT ASSETS	43 600		
Inventories	22 000	Short-term liabilities	5 000
raw material	11 000	wages payable	1 000
goods in process	3 000	accounts payable	2 500
finished goods	8 000	tax payable	1 500
Receivables	10 000		
other receivables	3 000		
accounts receivable	7 000		
Securities	600		
securities held for sale	600		
Cash and cash equivalents	11 000		
bank account	10 500		
cash	500		
Total assets	100 000	Total claims a.a.	100 000

Total Resources: 100 000 €.

Second mid-term sample

Some of the Opening accounts of Getting Ready Ltd, 20X5.01.01 (€):

Accounts payable	18 000	Depreciation of PP&E assets	4 000
Accounts receivable	5 000	Wages Payable	2 000
Retained earnings	1 000	Cash	5 000
PP&E assets	10 000	Raw material	13 000
Operational credits	8 000	Bank account	10 000

TASKS

- 1. Record the economic events of the period using the total cost method!
- 1. Make the opening entries on T-accounts!
- 2. 5 000 € operational credits have been transferred. The bank has sent the certification.
- 3. Buying merchandise for 8 000 €. The invoice has arrived.
- 4. Wages payable has been transferred. The bank has sent the certification.
- 5. Buying raw material for 4 000 €. The invoice has arrived.
- 6. Incurred costs of the period:

Type	Total
Raw material	7 600
Purchased service*	1 500
Gross wages	8 000
Social security	3 500
Depreciation	1 400
Total	22 000

^{*} Transferred from bank account

- 7. 1 000 € personal income tax and 2 500 € social security have been deducted from gross wages.
- 8. Selling price of finished goods produced and sold during the period: 30 000 €. The invoice has been issued.
- 9. Selling merchandise, cost of merchandise sold is 3 500 €, selling price is 5 000 €. The invoice has been issued.
- 10. Close the operational accounts! Determine the net income of the period!
- 11. Calculate and record the distribution of income! Corporate income tax is 10%.

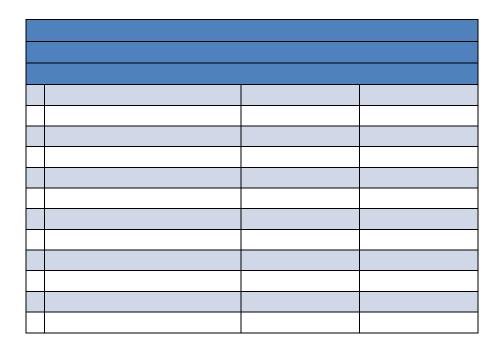
inswe	r the following questions:
	Define 'cost'!
2.	Describe the model of four account classes!
3.	'Gains' and 'revenues' mean the same.
	True / False, because
4.	Define cancellation!
5.	Define depreciation expense!

Sample lecture exam

Task 1. (14 points)

The following data is known about the 20X5 operations of the 'Perfect_day_for_test' Ltd (ϵ): Task: Prepare the Income Statement for 20X5!

Amount paid for insurance	1 200
Selling price of sold merchandise	55 000
Social Security related to wages	6 000
Material expenses	28 600
Depreciation	6 000
Gross Wages	10 000
Cost of goods sold	30 000
Selling price of services	32 000
Amount paid as rent	800
Amount paid for cleaning	600
Corporate Income tax	10%



Example 1.	Example 2.
600 Insurance fee is paid in cash (invoice received) on Sept.1., 20X4.	1000 sales revenue is earned during December 1. 20X4 - March 31. 20X5.
The fee covers the following six months (Sept-Feb).	Invoice will be issued in March, 20X5.
20X4	20X4
20X5	20X5
Example 3.	Example 4.
900 € telephone bill is received in January, 20X5.	An invoice on 600 sales revenue is issued on Nov.1, 20X4.
The bill covers 3 months (20X4 November 1 – 20X5 January 31).	Revenue is earned during November 20X4 - January 20X5.
20X4	20X4
20X5	20X5
20/13	20/13
	

Task 2: Name the T-accounts and complete them with the relevant entries/balances! (16 points)

Task 3. Questions related to the lectures (20 points)

	· · · · · · · · · · · · · · · · · · ·
1.	What is the purpose of accounting?
2.	Who are the stakeholders? How would you classify stakeholders?
3.	True or false?
1. 2.	Cash-based accounting recognizes revenue when cash is paid out, and recognizes
3. 4.	expenses when cash is received. True / False Current assets are long term assets used for the day-to day operations. True / False Equity = assets + liabilities. True / False
	Book value = Historical value +/- Adjustments. True / False
4.	Define Balance Sheet!
5.	Define Cost object! List some examples!

6.	W	What does the definition refer to?								
	a.	is the balance at the beginning of the period								
		(generally 1st January).								
	b.	neutralizing the impacts of the errors in bookkeeping.								
	c.	is a form of bookkeeping that sorts accounting entries based on a								
		chronological order.								
	d.	the historical value of the material used during the period.								
	e.	is also called net assets because it is the residual interest in								
		the assets of the entity after deducting all of its liabilities.								

Solution for Tasks 1-2.

	Perfect Day for a test										
Income Statement											
	Year ended December 31, 20X5 (€)										
	Revenue:										
	Sales Revenue		87 000								
	Expenses:										
	Cost of goods sold	30 000									
	Material expenses	28 600									
	Purchased service	2 600									
	Salaries expense	16 000									
	Depreciation Expense	6 000									
	Total Expenses		83 200								
	Profit before tax		3 800								
	Corporate Income Tax		380								
	Profit after tax		3 420								

			Exam	ple 1.							Exam	ole 2.			
600 Insurance fee is paid in cash (invoice received) on Sept.1., 20X4.							1000 sales revenue is earned during December 1. 20X4 - March 31. 20X5.								
The fee covers the following 6 months (Sept-Feb).							Invoice will be issued in March, 20X5.								
20X4							20X4								
Purchased service (exp.) Cash Deferred expense (asset)						Accrued revenue (asset) Sales revenue									
600	200			600		200		250				250			
												_			
20X5 Deferred expense (asset) Purchased service (exp.)						20X5 Accounts receivable Sales revenue Accrued revenue (asset)							(accet)		
OE 200	200		200					1000			250	1000		OE 250	250
OE 200	200		200					1000			250	1000		OE 250	250
			Exam	ple 3.							Examp	ole 4.			
		900 € telep	hone bill is re	ceived in Janu	uary, 20X5.				An in	voice on 600 s	ales reven	ue is issued o	on Nov.1, 20	X4.	
	The bi	ill covers 3 m	nonths (20X4	November 1 -	20X5 Januar	y 31).			Rever	nue is earned o	during Nov	ember 20X4	- January 20	X5.	
			20	X4							20)	(4			
Purchased service (exp.)			Accrued exp	enses (liab.)				Accounts receivable			Sales revenue			Deferred revenue (liab.)	
600				600				600			200	600			200
			20	X5							20)	(5			
Purchased service (exp.) Accounts payable Accrued expenses (liab.)						Deferred revenue (liab.) Sales revenue									
900			Account	900			OE 600		OE 200		Juics Te	200			
300	300			300		300	000	200				200			

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