## Accounting I

## Accounting I

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## GOALS AND MAIN CONCEPTS ON FINANCIAL ACCOUNTING



## Accounting

## Accounting

## Financial Accounting



External users
Investors and Creditors
Customers and Suppliers Workers..

Management
Accounting


Internal Users
CEOs
Board of Directors..

## Accounting



Goal


## Goal of the Financial statements

- Provide information about the financial position, financial performance and changes in financial position to assist the decision process



## Qualitative characteristics

- Qualitative characteristics of financial information:
- Understandability
- Relevance
- Reliability
- Comparability



## Qualitative characteristics

Relevance


The information must be relevant to the needs of the users, which is the case when it may influence the economic decision of its users

> - Reporting, omission or misstatement

## Qualitative characteristics



The information must be free of material errors and bias, and not misleading. It must faithfully represent the transactions and events that affect the firm.

## Qualitative characteristics

## Comparability

- Consistency in time (Longitudinal comparison)
- Consistency in space (Cross sectional comparison)

The information must be comparable to the financial information presented for other accounting periods, so that the users can identify trends in the performance and financial position of the firm.
Users must also be able to compare the financial reports of different entities in order to evaluate their relative financial position, financial performance and cash flows.

## Qualitative characteristics

- Constraints on Relevant and Reliable Information
- Timeliness - If there is undue delay in the reporting of information it may lose its relevance.
- Balance between Benefit and Cost - The benefits derived from information should exceed the cost of providing it.
- Balance between Qualitative Characteristics - the aim is to achieve an appropriate balance among the characteristics in order to meet the objective of financial reports
- True and Fair View/Fair Presentation - the application (...) of appropriate accounting standards normally results in financial reports that convey what is generally understood as a true and fair view of, or as presenting fairly such information.


## Accounting Assumptions

Accrual assumption

- Transactions are recorded using the accrual basis of accounting, where the recognition of revenues and expenses arises when earned or used, respectively. If this assumption is not true, a business should instead use the cash basis of accounting to develop financial statements that are based on cash flows.

Going

- A business will continue to operate for the foreseeable future. If this assumption is not true (such as when bankruptcy appears probable), deferred expenses should be recognized at once.


## Accounting I

GOALS AND MAIN CONCEPTS OF FINANCIAL ACCOUNTING FINANCIAL STATEMENTS

## Enterprise value

Set of elements (assets and liabilities) subject to management and assigned to a particular purpose.

## Composition:

 nature of the elements: Assets, Liabilities and Shareholder's EquityValue: Value of the Assets minus value od the Liabilities

## Patrimony

When looking at the patrimony we should consider:
(a) Composition $=$ nature of elements Constitutive (Assets and Liabilities)
(b) Value (Assets - Liabilities)

## Transactions



> All the events that changes the value and/or composition of the enterprise value.

Permutations (Qualitative) $\Rightarrow$ It changes the composition of the elements of the firm, but not the value of the enterprise

Alterations
(Quantitative) $\Rightarrow$ It
changes the composition of the elements of the firm, and also the value of the enterprise

## Transactions



Positives
(it increases the value of the enterprise)

(it decreases the value of the enterprise)

## Patrimony - fact sheet



- It is a fact sheet any occurrence involving changes in the firm composition and/or value
- Qualitative or permutation fact sheets $\Rightarrow$ variation in the composition of the patrimony, but not in its value.
- Quantitative or modifying fact sheets $\Rightarrow$ variation in the composition and value of the patrimony.


## Financial Statements



The objective of financial reports is to provide information about the financial position, financial performance and cash flows of an entity that is useful to a wide range of users in making economic decisions

## Financial Statements

1. Statement of financial position (balance sheet) at the end of the period
2. Statement of comprehensive income for the period (or an income statement and a statement of comprehensive income)
3. Statement of changes in equity for the period
4. Statement of cashflows for the period
5. Notes

## Balance sheet

- The balance sheet (also called the statement of financial position) shows the financial status of a company at a particular instant in time (usually December $31^{\mathrm{st}}$ ) and compares with the previous period.
- The left side lists the resources of the firm (investment)
- The right side lists the claims against those resources (funding)



## Financial Statements

- Recognition of the elements of the financial statements:
- Asset is recognised in the balance sheet when it is probable that the future economic benefits will flow to the entity and the asset has a cost or value that can be measured reliably.
- Liability is recognised in the balance sheet when it is probable that an outflow of resources embodying economic benefits will result from the settlement of a present obligation and the amount at which the settlement will take place can be measured reliably.


## Balance sheet



## Accounting Equation:

> Assets = Liabilities + Owners Equity

> Assets> Liabilities $\Rightarrow$ Owners equity $>0$
> Assets $<$ Liabilities $\Rightarrow$ Owners equity $<0$
> Assets $=$ Liabilities $\Rightarrow$ Owners equity $=0$


## Expanded Balance Sheet Equation

(1) Assets = Liabilities + Stockholders' Equity

(2) Assets $=$ Liabilities + Paid-in Capital + Retained Earnings

(3) Assets = Liabilities + Paid-in Capital + Revenues - Expenses

## Classified Balance Sheet



- A classified balance sheet further groups asset, liability, and owners' equity accounts into subcategories
- Assets are classified into two groups:
- Noncurrent (or long-term) assets
- Current assets
- Liabilities are classified into
- Noncurrent (or long-term) liabilities
- Current liabilities


## Classified Balance Sheet

- Current assets are cash and other assets that a company expects to convert to cash, sell, or consume during the next 12 months (or within the normal operating cycle if longer)
- Current assets are listed in the order in which they are likely to be converted to cash during the coming year
- In Portugal, with SNC: Assets presented in order of liquidity (less liquid to more liquid).
- Noncurrent are assets owned over 12 months


## Classification of assets



- Fixed tangible assets
- Intangible assets
- Investment Properties
- Financial investments
- Inventories
- Biological Assets
- Accounts receivable
- Bank deposits


## Liabilities

- Current liabilities are those that come due within the next year (or within the operating cycle if longer)
- Non-current liabilities are those that come due not earlier than 12 months after the balance sheet reporting.


## Classification of Liabilities



- Provisions
- Loans obtained
- Deferred taxes
- Accounts payable
- State and other public entities

In Portugal, with SNC: Liabilities are presented in order of decreasing maturity (from the largest maturity to the smallest).

## Owners Equity



- Represents the position of the owners of the firm
- The values are ordered according to the historical formation
Paid in capital
Legal Reserves
Other reserves
Retained earnings
Net income of the period

Difference between book value and market value.

## Accounting I



INCOME STATEMENT

## Financial Flow



1 - Related with the Financial position (Balance Sheet)

Obligation to pay: acquisition of goods and services regardless of their payment or use (recognition in the Balance Sheet as a liability);

Right to receive: sales of goods and services regardless of their receipt or production (recognition in the Balance Sheet as an Asset).

## Economic Flow

 ○2 - Related with Performance (Income Statement)

Expenses: consumption and use of goods and services regardless of their acquisition and payment (recognition in the Income Statement as expenses)

Revenues: production of goods and services regardless of their sale and receipt (recognition in the Income Statement as revenues)

## Economic Flow



- Definition of the elements of financial statements:
- Related with performance
- Income is increases in economic benefits during the accounting period in the form of inflows or enhancements of assets or decreases of liabilities that result in increases in equity, other than those relating to contributions from equity participants
=> Revenue and gains
- Expenses are decreases in economic benefits during the accounting period in the form of outflows or depletions of assets or incurrences of liabilities that result in decreases in equity, other than those relating to distributions to equity participants.
=> Expenses and losses


## Monetary Flow



## 3 - Related with cash flows (Cash Flow Statement)

Cash out flow: corresponds to exits of cash in the company regardless of the period of acquisition and use of goods and services

Cash in flow: corresponds to entries of cash in the company regardless of the period of the sale and production

## The Income Statement

## Revenues

## Expenses

Net Income

## The Income Statement



- An income statement is a report of all revenues and expenses pertaining to a specific time period
- It shows the economic performance of the company
- Net income $=$ revenues minus all expenses
- A net loss occurs if expenses exceed revenues


## The Income Statement

- Income Statement by Nature:

Expenses are grouped according to its nature, independently of the department or function that supported them


- Income Statement by functions:

The results are grouped having into account the department or function that had them

## Net Income statement - by nature

- Expenses are grouped according to its nature, independently of the department or function that supported them

Cost of good sold (cost of sales);
External Services;
Wages
Impairments;
Amortizations and Depreciations;
etc
Goal: Net income (= Balance sheet)

## Net Income statement - by functions

$\square$
The results are grouped having into account the department or function that had them
Cost of sales and services;

- Distribution costs

Administrative costs
R\&D costs
Financing costs;
Net income (= Balance sheet)

## Net Income statement - by nature

Sales and service revenues
Cost of sales and services
External Supplies and Services Expenses
Staff expenses
Impairments
Provisions
Other revenues
Other expenses
EBITDA - Earnings Before Interest, Taxes, Depreciation \& Amortization

## Net Income statement - by nature

## ○

Depreciation and amortization expenses
Operational Result
Interest revenues
Interest expenses
Result before taxes
Income Tax
Net Income (of the period)


## Cash Flow statement



- Shows where the cash comes from and where it was used
- Shows payments and receipts
- It is presented in vertical format, showing the values for years N and $\mathrm{N}-1$.


Financial Statements

Statement of Cash Flows
1 Cash Flows from Operations
Collections, Payments, Wages
2 Cash Flows from Investing
Purchase \& Sales of PP\&E, Long Term Securities, Making Loans
3 Cash Flows from Financing
Borrowing, Repaying
Issuing and Redeeming Debt \& Equity
Dividends

## Cash Flow statement

- Firms can have revenues but, because there is the possibility to pay/received other way that not in cash (payment/receipts for credit), these may happened in several different moments of time $=>$ hence, a revenue does not mean a receipt of money
- It helps to determine the capacity to receive and pay in cash.
Liquidity
$\times$ May be a sign of the continuity of the firm!


## Variation in OE statement

- Aims to show the facts that changed owners equity, during a period of time.
- It is presented in vertical format, showing the values for years N and $\mathrm{N}-1$.

Matrix
display

## Annex or Notes

- The other financial statements are quantitative statements
- In the Annex the predominant information is qualitative (or narrative) and it is connected with all other financial statements

Financial Statements
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## Financial Statements

- Articulation between financial statements



## In summary...

- Transactions can have an effect on financial statements:
- Financial position
- Performance
- Cash flow
- Variation of owners' equity
- Transactions can be disclosed on the notes


## Accounting I

ACCOUNTING METHOD

## Accounts

- An account is a summary record of the changes in a particular asset, liability, or owners' equity item
- The double-entry accounting system records each transaction in at least two accounts
- A compound entry affects more than two accounts


## Accounts



- The elements of transactions are organized into accounts that group similar items together
- In a double-entry system, a ledger contains the records for a group of related accounts
- A general ledger is the collection of accounts that accumulate the amounts reported in the financial statements



## Accounts

## Account

1 920,00 C 700,00 $\subset$ 1020,00 €
CreditorBalance 255,55 C
3895,55 C

3 220,00 C 675,55 € 3895,55 €

To settle an account: is to calculate the balance of the account and write that difference where it is the gap in order to obtain the same value in both sides of the account.

## Debits= Credits



## Double Entry booking

- Each transaction affects at least two accounts
- For each transaction debit(s) are equal to credit(s)
- The process of creating a new T-account in preparation for recording a transaction is called opening the account
- An account balance is the difference between the total left-side and right-side amounts, or vice versa, according to the type of account, at any particular time



## Double entry booking



- Asset accounts have left-side balances

Entries on the left side (debit) increase asset account balances
Entries on the right side (credit) decrease them

- Liabilities and owners' equity accounts have right-side balances

Entries on the right side (credit) increase their balances
Entries on the left side (debit) decrease them

- Revenue is written on the right side (credit) since they represent increases in net income
- Expenses are written on the left side (debit) since they represent decreases in net income



## Recording Process

- The general journal is a formal chronological listing of each transaction and how it affects the balances in the accounts
- Transactions are entered into the ledger
- Each record has

Date
Title of the account;
Description
Value

## Journalizing Transactions



- Journalizing is the process of entering transactions into the general journal
- A journal entry is an analysis of all the effects of a single transaction on the various accounts, usually accompanied by an explanation
- A compound entry means that a single transaction affects more than two accounts


## Journalizing Transactions

- Classification of journal entries
- Simple
- Complex.


## Documents



- Sales order
- Purchase order
- Shipping list
- Invoice
- Receipt
- Debit Note
- Credit Note
- Cheque


## The Recording Process

- The sequence of five steps in recording and reporting transactions is as follows:

- Source documents are the original records of any transaction


## Preparing the Trial Balance



- A trial balance is a list of all the accounts with their balances
- The purpose of the trial balance is twofold:

Proving whether the total debits equal the total credits in the ledger
Summarizing the balances in the ledger accounts in preparation to construct the financial statements

## Preparing the Trial Balance



- The trial balance is prepared with the accounts in the following order:

Asset accounts
Liability accounts
Stockholders' equity accounts
Revenue accounts
Expense accounts

- The trial balance is the springboard for preparing the balance sheet and the income statement



## Closing the Accounts



- Closing the accounts has two purposes:
- It transfers the balances of the "temporary" stockholders' equity accounts (revenues and expenses) to the "permanent" stockholders' equity account (retained earnings)
It makes the revenues and expense accounts have a zero balance, which readies them for the next period's transactions


## Accounting I

OPERATING ACTIVITIES

## INVENTORIES

## Concept

DESDE 1911

For sale as the normal activity of the firm

In the production process for sale

In the form of consumable materials to be used in the production process or to be used when services are provided

It also contains the biologic assets (animals and plants) that will be consumed in
the normal activity of the firm.


## Measuring Inventories - after initial recognition

## The lowest of

Cost (acquisition/ production

Net sales value (sales value - costs of finishing the good/costs of sale)

Estimated selling price- Estimated cost to finish production - Cost to sale products.

## INVENTORIES

Inventory Valuation Methods

The acquisition price of inventories is not always the same;

It varies with time (prices are not stable and are depending on the law of demand and supply)

When there is inflation the prices rise.

Because of these reasons, there is the need to adopt some criteria to value the stocks in the firm that are sold and the ones that are on the warehouse at the end of the year.


## Specific Identification



- The specific identification method concentrates on physically linking the particular items sold with the cost of goods sold that is reported
- This method is relatively easy to use for expensive lowvolume merchandise
- The use of bar codes and scanning equipment makes specific identification economically feasible for many companies


## FIFO

- FIFO assigns the cost of the earliest acquired units to cost of goods sold
- The costs of the newer units is assigned to the units in ending inventory
- FIFO provides inventory valuations that closely approximate the actual market value of the inventory at the balance sheet date
- In periods of rising prices, FIFO leads to higher net income


## Weighted Average

- The weighted-average method computes a unit cost by dividing the total acquisition cost of all items available for sale by the number of units available for sale
- The weighted-average method produces gross profit somewhere between that obtained under FIFO and LIFO


## Perpetual and Periodic Inventory Systems



There are two main systems for keeping inventory records:

- Perpetual system
- Periodic system

The perpetual inventory system keeps a continuous record of inventories and cost of goods sold

The periodic inventory system computes cost of goods sold and an updated inventory balance only at the end of the accounting period

## Inventory systems

## Perpetual inventory system

- Register all entrances of stocks
- So, at any time the firm knows
- The quantity of products/stock in the warehouse;
- The value of those stocks; and
- The Margin after each sale.

Required system for Large and Medium Companies applying SNC. Only micro-
companies can use the periodic inventory system.

## Inventory systems

## Periodic inventory system

- We do not use the inventories accounts at each entry and exit of inventories.
- The physical count of the inventories and its valuation needs to be done periodically in order to obtain the results of sales.

Inventory systems

## Periodic inventory system

- Inventories (Merchandise/Raw materials) is not used after the acquisition or sale of products
- The firms only knows:
- The quantity of stock in the warehouse.
- The value of acquisitions and beginning of the year inventory
- The physical counting of stock and respectively valuation is essential to calculate the Cost of good sold in the end of the year


## Periodic Inventory System



Under the periodic system, the calculation of cost of goods sold is delayed until there is a physical count:

COGS $=$ Beginning of the year Inventories

+ Acquisitions of inventories
- End of the year inventories
+/- Reclassification/Regularization of inventories



## Inventory systems



## Perpetual inventory system



## Accounting I



## OPERATING ACTIVITIES

## INVENTORIES

## VAT



## Key formulas



## Key formulas



Final
Inventories
Inventories regularizations

## Key formulas

Gross
Result from sales





