

## Master in Branch: Economic Sciences

### Specialty: Monetary and Banking Economy

#### *Summary of objectives and training pathways*

The goal of the master in Monetary and Banking Economy is to equip students with knowledge of international monetary and financial systems in order to prepare them for successful integration into both domestic and foreign financial institutions. The master focuses on the mechanisms that govern the financial and monetary systems, the structure of relevant regulatory frameworks, contemporary applications of monetary policy, current transformations in the field of innovative bank financing tools, techniques for managing financial and banking functions, and modern applications of risk management in the banking and financial field.

Field	Branch	Speciality
Economics, Commerce and management Sciences	<i>Economic Sciences</i>	<i>Monetary and Banking Economy</i>

#### First Semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
Fundamental Unit	Deep banking economy	07	3	1.5	1.5	--	157.5
	international financing	06	2	1.5	1.5	--	135
	international financial markets	05	2	1.5	1.5	--	112.5
Methodological unit	Econometrics	05	2	1.5	1.5	--	112.5
	Entrepreneurship	04	1	1.5	--	--	90
Discovery unit	Monetary and credit law	02	1	1.5	1.5	--	45

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
Transversale Unit	Foreign language	01	1	--	1.5	--	22.5

### Second Semester 2

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
<b>Fundamental Unit</b>	Financial engineering	07	3	1.5	1.5	--	157.5
	Financial evaluation of projects	06	2	1.5	1.5	--	135
	Banking operations and enterprise financing	05	2	1.5	1.5	--	112.5
Methodological unit	Deep Macroeconomics	05	2	1.5	1.5	--	112.5
	Administrative editing and communication	04	1	1.5	--	--	90
Discovery unit	International banking law	02	1	1.5	1.5	--	45
Transversale Unit	Foreign language	01	1	--	1.5	--	22.5

### Third Semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
<b>Fundamental Unit</b>	Banking audit	07	3	1.5	1.5	--	157.5
	Managing financial portfolios	06	2	1.5	1.5	--	135
	Banking and financial	05	2	1.5	1.5	--	112.5

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
	operations taxation						
Methodological unit	Financial crisis analysis	05	2	1.5	1.5	--	112.5
	Methodology	04	1	1.5	--	--	90
Discovery unit	Financial Markets Law	02	1	1.5	1.5	--	45
Transversale Unit	Foreign language	01	1	--	1.5	--	22.5

#### Semester 4

Internship in a company sanctioned by a thesis and a defense.

	VHS	Coeff	Crédits
Personal Work	550	09	18
Internship in a company	100	04	06
Seminars	50	02	03
Other (Supervision)	50	02	03
<b>Total Semester 4</b>	<b>750</b>	<b>17</b>	<b>30</b>

# Master's Title: Human Resources Management

## Courses of 1<sup>st</sup> Semester

### Content

#### **Deep banking economy**

Banking and electronic banking  
Liberation of banking services  
Bank risk management  
Decisions of the Basel Committee 1,2,3  
Financial crises and the banking system  
Bank governance, Bank marketing  
Islamic banks

#### **International financing**

Introduction to international financing economy  
Payment operations in the international economy  
International economy financing operations  
The international dimensions of international finance  
International financing risk management operations

#### **International financial markets**

The nature of bank credit  
What is the international financial markets and what is its economic importance  
Types of international financial markets  
Financial derivatives  
International financial markets  
Financial markets and economic growth

#### **Econometrics**

Simple linear regression  
Multiple line regression model  
Multicollinearity  
Autocorrelation  
Linear heterogeneity  
Studies using Stata and Eviews

## **Entrepreneurship**

Idea generation and business model development

Market research and customer discovery

Financial management and planning: This could include instruction on how to create a financial plan, including creating financial projections, understanding financial statements, and raising capital.

Legal and regulatory requirements

Operations and supply chain management

Marketing and sales, Entrepreneurial mindset and leadership, Innovation and Technology

## **Monetary and credit law**

The structure of the banking system in Algeria

Banking reforms in Algeria

Law No. 90-10 of money and credit

Amendments to Law 10-90 of money and credit

## **Foreign language**

This course is designed to provide a compact overview of the English language, including scientific and economic terms, to enable students to effectively use the terminology in research and communication.

# Master's Title: Human Resources Management

## Courses of 2<sup>nd</sup> Semester

### Content

#### **Financial engineering**

An introduction to the study of financial analysis  
Analysis of the financial situation of economic institutions  
Financing methods and methods of choosing investments  
Risk and return  
Engineering applications to banking  
Engineering applications on Islamic banking

#### **Financial evaluation of projects**

Basics **خب** investment projects  
Feasibility and selection of the optimal project  
Evaluating investment projects  
Financial settlement by means of financial balances  
Financial analysis using financial ratios

#### **Banking operations and enterprise financing**

Fund operations and bank account management  
Collecting checks and discounting commercial papers  
Short-term bank financing mechanisms for institutions  
Mechanisms of medium and long-term bank financing for institutions  
Mechanisms of bank financing for foreign trade  
Islamic banking financing mechanisms  
Policies, procedures and granting of loans

#### **Deep Macroeconomics**

Economic balance  
Monetary policy and the budget under fixed exchange systems  
Monetary policy and the budget under flexible exchange regimes  
Exchange rate and balance of payments

## **Administrative editing and communication**

Introduction to communication

The concept of communication

Communication objectives and functions

The main components of the communication process

Communication in administrative thought

Theoretical framework of communication

Forms of communication in the institution

Communication applications in the organization

## **International banking law**

Introduction to international banking law

Characteristics of international banking law (banking governance): Banking rules Basel 1 and 2, Basel 3

Banking Rules

International bank accounting rules

## **Foreign language**

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# Master's Title: Human Resources Management

## Courses of 3<sup>rd</sup> Semester

### Content

#### **Banking audit**

General concepts about banking audit  
Banks' internal control  
External auditing of banks  
Preliminary procedures and detailed works in the bank audit process  
External auditing bodies

#### **Managing financial portfolios**

Investing in the financial portfolio  
Financial asset pricing models  
Investment funds

#### **Banking and financial operations taxation**

Introduction to banking techniques  
Introduction to Imposed on operations  
Banking and financial taxes  
A comparison between the Algerian system and other countries' systems

#### **Financial crisis analysis**

The nature of crisis management  
The crisis from the perspective of behavioral sciences  
Crisis diagnosis and management  
Facing financial crises  
Crisis management according to Islamic law

#### **Methodology**

Research problem and hypothese  
Questionnaire: definition, types of questionnaire questions  
Interview: definition, types of interviews

Investigations: definition of investigations, their characteristics, pros and cons of investigations, limits of investigations.

Sample selection procedure: sample types, sample type determination, sample size determination.

Data collection

## **Financial Markets Law**

Generalities about financial institutions and markets

Regulated capital markets

The Stock Exchange is regulated

Bancassurance is regulated

## **Foreign language**

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