

## Master in Branch: Economic Sciences

### Specialty: Insurance economy

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

The Master of Insurance Economy is a graduate program that is designed to provide students with a comprehensive and well-rounded education in the field of insurance economics. The program aims to equip students with a solid understanding of the various sciences that underlie the insurance industry, including economics, finance, statistics, and actuarial science. The master is designed to provide students with an in-depth understanding of the various aspects of the insurance industry, including current issues and trends. Additionally, the program aims to prepare students for further studies at the doctoral level and to open up opportunities for employment in various roles within the insurance industry.

Field	Branch	Speciality
Economics, Commerce and management Sciences	<i>Economic Sciences</i>	<i>Insurance economy</i>

#### First Semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
Fundamental Unit	Insurance economy	07	3	1.5	1.5	--	135
	Risk Management	06	2	1.5	1.5	--	120
	Deep financial analysis	05	2	1.5	1.5	--	105
Methodological unit	Quantitative management techniques	05	2	1.5	1.5	--	105
	Administrative editing and	04	1	1.5	--	--	82.5

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
	communication						
Discovery unit	Insurance law	02	1	1.5	--	--	45
Transversale Unit	Foreign language	01	1	--	1.5	--	37.5

### Second Semester 2

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
<b>Fundamental Unit</b>	Insurance products	07	3	1.5	1.5	--	135
	Actuarial techniques	06	2	1.5	1.5	--	120
	Insurance systems in Algeria	05	2	1.5	1.5	--	105
Methodological unit	Financial and banking technologies	05	2	1.5	1.5	--	105
	Entrepreneurship	04	1	1.5	--	--	82.5
Discovery unit	companies laws	02	1	1.5	--	--	45
Transversale Unit	Foreign language	01	1	--	1.5	--	37.5

### Third Semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
<b>Fundamental Unit</b>	International insurance and reinsurance mechanisms	07	3	1.5	1.5	--	135
	Takaful insurance	06	2	1.5	1.5	--	120
	Insurance	05	2	1.5	1.5	--	105

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	Volume (hour)
	accounting						
Methodological unit	Deep macroeconomics	05	2	1.5	1.5	--	105
	Methodology	04	1	1.5	--	--	82.5
Discovery unit	Administrative Disputes Law	02	1	1.5	--	--	45
Transversale Unit	Foreign language	01	1	--	1.5	--	37.5

#### 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
Total Semester 4	750	17	30

# Master's Title: Human Resources Management

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

### Content

#### **Insurance economy**

The policy of insurance, an introduction to the role

Different types of insurance

Technical matters to determine the risk and compensations

An analytical study of the commercial, mutual, social and cooperative insurance

A comparative study of the security education system in Jordan and other countries

#### **Risk Management**

Risk management

Risk assessment

Risk control and risk control plans

The concept of risks in insurances (types of risks in insurance, elements of risk in insurance, risks and the extent of their insurability).

Insurance is a tool for facing risks (definition of insurance, types of insurance contracts, historical development of various types of insurance, economic and social importance of insurance, principles of insurance contract).

#### **Deep financial analysis**

Introduction to financial management and scoring

Financial analysis using the drip method

The financial analysis of the cash market

The financial and operational leverage of the stock market and bonds

Elements of portfolio management

Derivatives Market

The capital and the value of the institution, the financial structure, the cost of t

Financial structure and option theory

#### **Quantitative management techniques**

Definition of quantitative techniques to facilitate the study of descriptive statistics and reminding of some central measures and some measures of dispersion

The relationship or correlation between phenomena, the analysis of time series and indices, and the interest in the study of analytical statistics

Sampling, selection of probability theory, discrete and connected probability distributions, scientific and non-teaching statistical hypotheses, and the subject of variance analysis

Deterministic and probabilistic quantitative models (linear programs, network uploads, decision-making theory in queuing), the basic and practical descriptions of each model and its requirements

## **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

## **Insurance law**

Definition of commercial law and insurance law.

The specifics of commercial law and insurance law

The insurance law further

The insurance contract and its pillars

Insurance departments

## **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

#### Insurance products

Car insurance

The burden and loss of livestock, insurance on fire, dangerous risks

Housing and private property insurance, fourth

Floating insurance

Transportation insurance - the transportation of goods

Blind life insurance

Insurance against natural disasters

#### Actuarial techniques

The basics of money and investment mathematics (simple and compound interest, loan amortization, present value and discount)

Life insurance (life tables and probabilities, probabilities that can be calculated from the life table, life expectancy)

Introduction to life insurance (the importance of life insurance, the distinctive characteristics of life insurance, the technical foundations for calculating life insurance premiums, the term for calculating premiums in life insurance, table of replacement numbers)

#### Insurance systems in Algeria

A historical overview of insurance in Algeria

The importance of regulating the insurance market in Algeria: National Cat before the issuance of the law 07/95, the national cat after the issuance of the law 07/95

Public insurance institutions active in Algeria

Rents and globalization, the reality of the insurance market in Algeria

#### Financial and banking technologies

Introduction to the banking and financial functions

The banking pricing

Debt management

Insurance against risks

Technologies related to transit and customs; .swift

## **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

## **Companies laws**

The history of commercial management companies

Management of discrimination cases

Amending the corporate contract

Dissolution and liquidation of trading companies

Merger and separation of commercial companies

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

### Content

#### **International insurance and reinsurance mechanisms**

International insurance (international insurance programs, types of international insurances)

Reinsurance (principles and function of reinsurance, reinsurance forms, reinsurance commission and actuarial models for pricing)

The reinsurance market in Algeria (a market of hundreds of billions and insufficient compensation, reinsurance shelters to protect the solvency of companies in Algeria, centralization of reinsurance and natural disasters in Algeria, reinsurance brokers in the Algerian market).

#### **Takaful insurance**

The emergence and development of Takaful insurance

The nature of Takaful insurance

The legality of the Islamic Takaful insurance

The fundamental differences between Takaful insurance and traditional insurance.

Forms of Takaful insurance and its characteristics

Takaful insurance foundations and functions

Functions of Takaful insurance

Takaful reinsurance

Experiences in Takaful insurance

#### **Insurance accounting**

Introduction to insurance accounting

Accounting operations

Recording accounting transactions

#### **Deep macroeconomics**

Quantitative economic imbalances: inflation, unemployment.

Quantitative economic policies. financial policy. monetary policy. financial load variable

Investment methods and financing method selection

Exchange rates.



## **Methodology**

Research problem and hypothesis

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

## **Administrative Disputes Law**

Labor disputes, collective labor disputes.

The content of the collective labor agreement

Negotiating collective agreements

Settlement of labor disputes

Individual labor disputes

Procedures for settling individual labor disputes

Employment.

The content of the collective labor agreement

## **Foreign language**

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