

Bachelor's Degree Program in Monetary and Financial Economics

| Fifth semester | Sixth semester |
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| <p><u>Course Title: Banking Economics</u></p> <ul style="list-style-type: none"> - General Concepts of Banks and Banking Activity - Functions of a Commercial Bank - Commercial Bank Balance Sheet and its Relationship with the Central Bank - Evaluating the Performance of Commercial Banks - Modern Trends in Banking Activity and Types of Banks | <p><u>Course Title: Banking Techniques and Operations</u></p> <ul style="list-style-type: none"> - General Concepts: - Basic Concepts in Banking Operations - Loan Policies and Procedures - Loans for Operating Purposes - Loans for Investment Purposes - Foreign Trade Finance Techniques |
| <p><u>Course Title: Monetary Theories and Policies</u></p> <ul style="list-style-type: none"> - Conceptual Introduction to Monetary Policy - Monetary Analysis in the Classical and Neoclassical Perspectives - Monetary Analysis and Monetary Policy in the Keynesian Perspective - Monetary Analysis and Monetary Policy in the Monetarist Perspective - Monetary Analysis and Monetary Policy in Neoclassical Theory (Rational Expectations) - Monetary Analysis and Monetary Policy in the Islamic Perspective - The Trajectory of Monetary Policy in Algeria and its Challenges | <p><u>Course Title: Financial Markets</u></p> <ul style="list-style-type: none"> - Financial Markets (Concept, Functions, and Types) - Traded Financial Instruments - Financial Instruments in the Capital Market - Financial Instruments in the Money Market - Transaction Contracts in Financial Markets - Spot Transactions - Futures Transactions - Forward and Futures Contracts - Option Contracts - Stock Exchange Operations - Islamic Financial Markets |
| <p><u>Course Title: Financial Management</u></p> <ul style="list-style-type: none"> - Introduction to Financial Management - Analysis of Financial Statements (Balance Sheet Analysis, Income Statement Analysis by Nature and Function, Cash Flow Statement, Statement of Changes in Equity) - Analysis of Balances Using Financial Indicators and Ratios | <p><u>Course Title: Islamic Banking</u></p> <ul style="list-style-type: none"> - Topic 1: The Concept and Origins of Islamic Banks - Topic 2: Characteristics and Objectives of Islamic Banks - Topic 3: Resources and Uses of Islamic Banks - Topic 4: Risks Facing Islamic Banking |

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| <ul style="list-style-type: none"> - Financial Planning Through the Threshold of Profitability and its Applications - Financial Leverage (Financial Leverage and Operating Leverage) - Management of Current Assets (Inventory and Credit) - Financial Policy and Mechanisms for Making Financing Decisions - Financing Scheme - Theories of Financial Structure - Mechanisms for Making Investment Decisions | <ul style="list-style-type: none"> - Topic 5: Forms of Aid and Solidarity (Interest-Free Loan, Zakat, Waqf, Takaful Insurance) - Topic 6: Forms of Participation in Investment Returns <p>Terminal 7: Forms of Sales (Debt-Based Forms)</p> |
| <p><u>Course Title: Banking and Insurance Accounting</u></p> <ul style="list-style-type: none"> - General Introduction to Financial Accounting - Sources (Liabilities) and Uses (Assets) of Banks - The Algerian Banking Accounting System - Accounts in Banks and Insurance Companies - Financial Statements of Banks and Insurance Companies According to the Financial Accounting System - Accounting for the Treasury and Current Accounts Departments - Accounting for the Deposits and Savings Department and the Bills of Exchange Department - Accounting for the Lending and Credit Department and the Letters of Credit Department - Accounting for the Clearing and Foreign Banking Transactions Department - Accounting for the Bank's Final Accounts | <p><u>Course Title: The Algerian Financial and Banking System</u></p> <ul style="list-style-type: none"> - The nature and components of the Algerian financial and banking system. - The Algerian financial system. - The Algerian banking system. - The impact of economic globalization on the Algerian financial and banking system. - The evolution of financial policies in Algeria. |
| <p><u>Course Title: Financial Mathematics</u></p> <ul style="list-style-type: none"> - Simple Interest and Discounts - Compound Interest and Payments - Equivalence of Rates and Capital - Investment Selection Criteria - Loans and Amortization - Stock Exchange Techniques: Bond and Stock Valuation | <p><u>Course Title: Econometrics:</u></p> <ul style="list-style-type: none"> Axis 1: Introduction to Econometrics Axis 2: Simple Linear Regression and the Ordinary Least Squares Method Axis 3: Multiple Linear Regression and the Ordinary Least Squares Method Axis 4: Extension of the Multiple Linear Regression Model (Structural Transformation, Constrained Models, Illustrated Variables) |

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| | <p>Axis 5: Partial Correlation, Linearity, and Methods for Selecting Explanatory Variables</p> <p>Axis 6: The Problem of Autocorrelation of Errors</p> <p>Axis 7: The Problem of Heteroscedasticity of Error Variances</p> <p>Axis 8: The Problem of Normality of Errors</p> <p>Axis 9: Missing Specification Errors</p> <p>Axis 10: Measurement Errors</p> <p>Axis 11: Data Problems</p> <p>Axis 12: Simultaneous Equations</p> |
| <p><u>Course Title: Business Law</u></p> <ul style="list-style-type: none"> - Module 1: The concept of business law and its distinction from similar laws (commercial, investment, financial, services, etc.). - Module 2: Business activities related to money and finance (banking, insurance, stock market speculation, etc.). - Module 3: Players in the business environment (merchants, commercial companies, banks, insurance companies, and financial intermediation). - Module 4: Commercial companies: their formation, types, and management. - Module 5: The newly established company in the form of a simple joint-stock company. - Module 6: Regulatory authorities in the financial and business sectors (the Court of Auditors, the Competition Council, and the Stock Exchange Regulatory Authority). | <p><u>Course Title: Bachelor's Degree Graduation Project</u></p> <ul style="list-style-type: none"> - 1. Feasibility study of a project prepared by the student under the supervision of a professor, including the development of a business plan to realize the project idea. This project falls under the auspices of an entrepreneurship center or business incubator and is subject to evaluation by experts; - 2. Organization, participation, and attendance by students in open days and workshops at the university and in the surrounding community. A representative from each economic and social sector is invited to lead each workshop or seminar for third-year students (e.g., banking, accounting, trade, industry, insurance, telecommunications/production companies, industrial companies, etc.); - 3. Seminar in the specialization or training workshops covering various topics, which may include creating statistical databases, monitoring and analyzing stock market indicators, translating specialized foreign articles, etc.; - 4. Completion of a field internship and preparation of a practical report under the supervision of a professor and a mentor at the institution; - 5. Study and analysis of an economic case or phenomenon using relevant statistical software; 6. Designing and developing application programs to assist students in certain educational subjects. |

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| | <p>7. Designing a virtual project for advertising campaigns or virtual banks for business operations.</p> <p>8. Conducting field studies and surveys on issues raised in the fields of economics, management, and business sciences.</p> |
| <p><u>Course Title: Data Analysis</u></p> <ul style="list-style-type: none"> - Module 1: Matrix Algebra - Module 2: Linear Applications and Eigenvalues - Module 3: Principal Component Analysis (ACP) - Module 4: AFC (Automatic Factor Analysis with Combinations) - Module 5: MAFC (Manual Factor Analysis with Multiple Combinations) - Module 6: Cluster Analysis (CA) - Module 7: AFD (Discriminant Analysis) | <p><u>Course Title: Corporate Taxation</u></p> <ul style="list-style-type: none"> - Introduction to Taxation - Tax Obligations (Declaration Obligations, Financing Obligations) - Tax Framework for Value Added Tax - Tax Framework for Professional Activity Tax - Tax Framework for Corporate Profits Tax - Tax Framework for Total Income Tax - Tax Framework for the Single Flat Tax. |
| <p><u>Course Title: Specialized Foreign Language 1</u></p> <p>Unite01: ECONOMICS AS A SCIENCE ECONOMICS AND ECONOMIC METHODS ECONOMIC SYSTEMS</p> <p>Unite02: THE MACROECONOMY</p> <ul style="list-style-type: none"> -2.1. GROSS DOMESTIC PRODUCT -2.2. INFLATION -2.3. ECONOMIC BUSINESS CYCLES AND UNEMPLOYMENT - 2.4. BANKING -2.5. MONEY AND MONETARY POLICY -2.6. FISCAL POLICY <p>Unite03: THE MICROECONOMY</p> <ul style="list-style-type: none"> -3.1. SUPPLY AND DEMAND -3.2. MARKET STRUCTURE <p>Unite04: THE GLOBAL ECONOMY</p> <ul style="list-style-type: none"> -4.1. INTERNATIONAL TRADE -4.2. GLOBAL MARKET AND DEVELOPING NATIONS | <p><u>Course Title: Specialized Foreign Language 2</u></p> <ul style="list-style-type: none"> - 1. Forms of Banks and Financial institutions - 2. Money - 3. Banks operations - 4. Tax and fiscal policy - 5. Algerian Financial and banking system - 6. Financial Crisis |