Program Overview:	**Full Curriculum**
• **Research Methodology in Finance:** This course covers: • Rules for writing scientific research in finance. • Scientific methodologies for preparing and presenting scientific manuscripts – articles, reports, theses, etc. • Methods and techniques for effectively managing and utilizing scientific references in the financial field to maximize their benefit. • Methods for using statistical and mathematical tools in presenting and analyzing financial texts. • Techniques for presenting and organizing ideas, summarizing content, citing references, structuring sections, ensuring balance, formatting texts, and presenting references effectively, among other key aspects. • **Information and Communication Technology:** This course covers: • Learning about various software used in analyzing and processing data in economic research, and training students to use them for analysis, results preparation, and interpretation, such as: SPSS, Excel, Stata, MATLAB, Mathematica, Mathcad, WinQSB, and others. • Familiarizing with various digital technologies available for presenting and sharing scientific knowledge. • Training students to leverage the internet for scientific and pedagogical purposes, such as accessing and sharing scientific data. • **Applications of Artificial Intelligence:** This course covers: • The importance of using AI in financial institutions. • Key AI techniques used in finance. • The impact of AI techniques on corporations' development. • The evolution of AI in financial management.	

• **Pedagogical Training:** This course covers: • Psychological preparation and social behavior patterns for faculty in university settings. • Methods for managing discussions and debates among students. • Means of Communication and idea presentation techniques. • Methodology for preparing and delivering lessons using modern technological medias. • Handling complex situations in university environments. • Exam preparation methods and techniques for evaluating academic performance. • **Financial Modeling:** This course covers: • Uses of simple regression models. • Uses of multiple regression models. • Modeling financial data. • • **Research Tools in Finance:** This workshop covers: • Learning computer-based editing techniques (text editing, table preparation, graphical representations, statistical reasoning, etc.). • Learning software for analyzing and processing financial research data (analysis, results preparation, and interpretation.) • Study of investment risk analysis software. • Study of econometric modelling softwares and forecasting techniques. • **Advanced Financial Management:** This workshop covers: • Theoretical foundations and recent developments in financial management. • Financial planning for economic institutions (financial and operational budgets, profit planning, capital investment planning, etc.). • Financing structure and criteria for selecting the optimal	

financing mix.

- Modern financing products available in the Algerian financial market (limitations and usage potentials).
- Models used in evaluating corporations' financial position (e.g., Altman and McGough, Kida, Bouth, Campisi and Trotman, Argenti, Sherrord models).
- Modern financial performance evaluation tools (quantitative and financial methods).
- Financial competitiveness indicators for economic institutions.
- Analyzing the future financial position of economic institutions.

• **International Finance:** This workshop covers:

- The movement of international capital (sources, types, structure, objectives, and relative importance in the global economy).
- Foreign funding sources and their role in the economic and social development of developing countries (positive and negative effects).
- International capital markets (financial markets, money markets, foreign exchange markets), their characteristics, operations, and impact on international financial balance.
- Financial corruption and money laundering (sources, forms, and control methods).
- Financial crises (nature, causes, types, crisis indicators, and solutions).

• **Financial Governance:** This workshop covers:

- The concept of financial governance (its emergence, theories, objectives, and scope).
- Stakeholder relationships in financial institutions and governance risks.
- Financial management and governance in economic institutions.
- Governance and institutions (performance, competitiveness, social responsibility, etc.).
- Models and practical applications of financial

governance.

• **Financial Engineering:** This workshop covers:

- Definition and objectives of financial engineering.
- The role of financial engineering in achieving institutional goals.
- Fields, philosophy, and strategies of financial engineering.
- Financial engineering and financial institutions and markets.
- Tools and products in financial engineering.
- The concept and types of derivatives and their risk estimation and management.

• **Financial Information Systems:** This workshop covers:

- Components of a financial information system.
- Applications of financial information systems in planning, organizing, directing, and controlling.
- Computing financial systems and how to benefit from data processing using computers.
- How to design an integrated financial system on a computer (from purchasing orders to profit calculation).
- Benefits of developing internal and international information networks (saving time and effort, reducing costs, improving decision-making, etc.).
- Research tools in finance and their role in improving financial information systems within corporations.
- The role of financial information systems in enhancing competitive awareness in economic institutions.
- Modernizing financial information systems and their role in improving communication with external environments.