

## INTENDED LEARNING OUTCOMES OF THE MASTER OF SCIENCE IN FINANCE

### CORE AREA OF STUDY

#### Knowledge and Understanding

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| Graduates will acquire advanced knowledge related to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Knowledge and Understanding will be achieved through the following courses:                                                                                                                                                           |
| 1) valuation and investment banking topics, in particular:<br>1.1 methods and techniques for business valuation, including accounting methods and tools of financial reporting and financial statements analysis;<br>1.2 the main investment banking services offered to institutional and corporate clients.                                                                                                                                                                                                                                                                                                                                | 1.1 Corporate Finance (business valuation) + Financial Reporting & Analysis Lab<br>1.2 Investment Banking                                                                                                                             |
| 2) quantitative finance, investments and risk management topics, in particular:<br>2.1 the techniques for constructing probabilistic models and conducting inferential statistical analysis used in the financial field, including those based on Artificial Intelligence;<br>2.2 the principles of the quantitative analysis of financial markets, of the macro-financial dynamics of international markets, of the investment choices, and the main types of derivative instruments;<br>2.3 technical aspects of risk measurement and management in banking and insurance institutions and valuation techniques applied to credit ratings. | 2.1 Empirical Finance + Financial Data Science<br>2.2 Quantitative Finance and Derivatives Module I and II + Theory of Finance or Investments: An international perspective<br>2.3 Risk Management and Value in Banking and Insurance |
| 3) the main European directives and other regulations concerning the financial market.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3. Financial Institutions and Market Law                                                                                                                                                                                              |

| <b>Applying Knowledge and Understanding</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                       |
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| Graduates will be able to:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ability to Apply Knowledge and Understanding will be achieved through the following courses:                                                                                                                                          |
| 1) apply acquired knowledge related to valuation and investment banking topics, in order to: <ul style="list-style-type: none"> <li>1.1 apply business valuation techniques to firms with different corporate structures, starting from the evaluation of their financial statements;</li> <li>1.2 manage operations consisting of issuing debt securities and equities in primary markets, and structured finance operations.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.1 Corporate Finance (business valuation) + Financial Statement Analysis Lab<br>1.2 Investment Banking                                                                                                                               |
| 2) Make use of acquired knowledge related to quantitative finance, investments and risk management topics, in order to: <ul style="list-style-type: none"> <li>2.1 apply probabilistic modeling and inferential analysis techniques (also leveraging new Artificial Intelligence methods) used in the financial domain for investment decisions and risk management;</li> <li>2.2 apply appropriate quantitative methodologies and tools to assess investment strategies and capital management, both in domestic and international contexts; evaluating a wide array of complex financial instruments; employing arbitrage and hedging techniques using both simple and sophisticated derivative instruments;</li> <li>2.3 apply risk measurement techniques, commonly used by banks and insurance companies, and identify appropriate risk management actions; assess credit ratings assigned by financial intermediaries.</li> </ul> | 2.1 Empirical Finance + Financial Data Science<br>2.2 Quantitative Finance and Derivatives Module I and II + Theory of Finance or Investments: An international perspective<br>2.3 Risk Management and Value in Banking and Insurance |
| 3) Assess the constraints and opportunities offered by the key regulatory provisions as applied to securities market.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3. Financial Institutions and Market Law                                                                                                                                                                                              |

## CUSTOMIZED AND LINGUISTIC AREA OF STUDY

### Knowledge and Understanding

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| <p>Graduates will acquire wide-ranging and in-depth knowledge related to topics identified on the basis on their specific interests; they will have the opportunity to choose a “concentration” (and select courses to focus on a specific area such as, for example, Banks and Insurance Management and Consulting, Corporate Finance and Investment Banking, Quantitative Finance and Asset Management,), or to customize their study plan by ranging over different areas, provided that topics are coherent with the program.</p> <p>Regarding languages, graduates will acquire knowledge in English language (at least C1 business; professional writing) and in another EU language among those listed in the University Guide (at least level B1 business or A2 in some specific cases regarding Italian language, which is compulsory for non-Italian native speakers).</p> | <p>18 cpu of “Cognate and Complementary” activities and 6 cpu of “Free Elective” activities</p> <p>Professional English seminars;<br/>EU language</p> |
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### Applying Knowledge and Understanding

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| <p>Graduates will be able to make use of the key concepts acquired (and related to the chosen topics) by applying the methods and tools they have been provided with.</p> <p>Regarding languages graduates will demonstrate written / oral comprehension and expression abilities in line with the exit levels required.</p> | <p>18 cpu of “Cognate and Complementary” activities and 6 cpu of “Free Elective” activities</p> <p>Professional English seminars;<br/>EU Language</p> |
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| <b>Making Judgements</b>        | Graduates will have acquired the ability to integrate knowledge, manage complexity, and make financial decisions even in the presence of partial information, evaluating the different implications in various hypothesized scenarios, including critical reflections and judgments regarding – for example - ESG responsibilities related to the application of economic and financial competencies.    |
| <b>Communication</b>            | Graduates will have developed adequate skills and tools for managing and conveying information to both specialists and non-specialists in the field of finance. Specifically, they will be capable of expressing themselves clearly and effectively in any context, including multicultural settings, and delivering public presentations at different technical levels, using the most modern IT tools. |
| <b>Lifelong Learning Skills</b> | Graduates will have acquired a learning ability based on solid methodological foundations, which will enable them to be independent in deepening, developing, and expanding their knowledge and technical skills both in corporate finance and in financial markets.                                                                                                                                     |