



Course Description Master of Financial Technology and Accounting Analytics for year 2022/2023

34771	Data Analytics in Accounting and Finance	Credit Hours: 3	
	This course develops skills and knowledge of students in data analytics tools and techniques in the context of accounting and finance. This course should help students in acquiring analytics skills by introducing them to an analytic mindset, data preparation, visualization, analysis, and data interpretation and the ability to apply these skills to issues relevant to accounting using Excel, Python, Microsoft Power BI and Tableau software.		
34741	Advanced Accounting Information Systems	Credit Hours: 3	
	This course aims to study the advanced accounting information systems (knowledge and practice) with emphasis on reporting objectives, management needs, transaction trails, documentation, security, internal controls, and the integration of accounting systems in the evaluation and selection of software. Additionally, systems analysis techniques are discussed using the systems development life cycle model. In this course students will gain an advanced understanding and appreciation of the accounting information system and how it is used to successfully manage, audit and develop processes to support today's evolving business environment. Overall, this course offers a focused look at accounting information systems as part of enterprise resource planning (ERP) systems. In addition, an accounting software package will be used to demonstrate the accounting processes.		
34751	Introduction to Financial Technology	Credit Hours: 3	
	This course introduces the major topics of financial technology including; Blockchain, Cryptocurrencies, Big Data, Machin Learning, etc. Students are expected to develop an understanding of the recent FinTech development and its impact in the financial industries.		
34752	Advanced Financial Technology	Credit Hours: 3	
	This course provides an advanced coverage of the main issues regarding financial technology. Main topics include: Big data Blockchain, financial applications, cyber security. This course will also focus on research in the field of FinTech by using discussion panels and other techniques.		
34711	Financial Reporting, Forecasting & Analysis	Credit Hours: 3	
	This course introduces students on how to prepare, interpret, analyze and evaluate financial statements for economic and profitability analyses, lending and investment decisions and other decisions that rely on such data. Ultimately, students who complete this course develop a more efficient and effective approach to preparing, researching, interpreting, and analyzing digital financial statements through understanding of Pro Forma financial statements.		





34731	Advanced Auditing, Fraud & Forensic Accounting	Credit Hours: 3	
	This course provides an advanced coverage of the main issues regarding external auditing and forensic accounting. Main topics include audit reports, audit objectives, audit evidence, planning an audit, risk assessment in auditing, the external auditor's responsibilities towards fraud detection, audit tests and procedures, financial statement fraud, occupational fraud, fraud risk factors, and fraud symptoms.		
34761	Capital Markets & Financial Management	Credit Hours: 3	
	This course explains the role of money in the economy and the main core principles of money and the financial system. It also describes how capital markets operate and thoroughly examines the features and characteristics of the wide array of securities traded in the market and the different types of markets including the money, capital, Eurodollar bonds foreign bond stock, derivative markets and the globalization of these markets. The topics of equities, fixed income securities and derivatives are focused on throughout the course. Students will apply some information by using computer in the lab.		
34721	Advanced Managerial Accounting	Credit Hours: 3	
	The course serves as a tool to management's internal use of accounting information, for decision making, production management, product costing, motivating and evaluating performance, budgeting, and using accounting information for making capital budgeting decisions. The key goal for this course is to improve the students' knowledge of how managerial accounting helps managers to operate efficiently and effectively.		
34772	Special Topics in Accounting Analytics and FinTech	Credit Hours: 3	
	This course covers various contemporary issues in accounting Analytics and Financial Technology that are not included in a subject courses.		
34762	Investment and portfolio analysis	Credit Hours: 3	
	This course provides a comprehensive overview of the investment environment and the efficiency of capital markets. In particular, it addresses a wide array of issues delineating the investment decision process, whilst integrating various analytical techniques designed to quantify optimal portfolio asset allocation and evaluate the effectiveness of diversification opportunities and uncertainty mitigation strategies, using different financial modeling tools such as hedging, CAPM, arbitrage pricing theory (APT), and multifactor models; thereby drawing a clear distinction between risk and uncertainty. The underlying curriculum closely examines debt securities and credit risk exposure, building on a theoretical framework that covers short selling, bond valuation, and the term structure of interest rates. Moreover, this course epitomizes the daily challenges faced by investors, traders, speculators, and brokers as they contend with the increasing complexity of financial markets, with a methodical emphasis on practical and ethical considerations.		
36710	Business Data Engineering	Credit Hours: 3	
	The course starts by examining the modern data ecosystem and how it relates to running a smart and efficient data hub. Then, it shows the student how to perform the principal tasks involved in managing extracting, transforming, and loading (ETL) data. This course will explain the data life cycle in a Data science project. In addition, it will cover types of data, such as structured, semi-structured, and unstructured, and the different formats of data and techniques used in the ETL process. The course also covers the elementary visualization aspects needed to understand the data. It also takes the student through staging, profiling, cleansing, and migrating data		





36720	Data Mining for Business Applications	Credit Hours: 3
	Data mining is a rapidly growing field that is concerned with developing techniques to assist users to data repositories. A number of successful applications have been reported in areas such as credit rat marketing, customer relationship management, and stock market investments. The field of data a disciplines of statistics and artificial intelligence. In this course, knowledge of the challenges and to Mining will be investigated. For example, interpretation of large datasets to find patterns, relations, a information. Data mining techniques that will be covered include: (1) Exploring the past by conducting and (2) Predicting the future by designing prediction models namely; Classification, Clustering, and will give students the basic ideas and intuition behind modern data mining methods as well as a bit how, why, and when they work in addition to the Data Mining trends and research frontiers.	ting, fraud detection, database mining has evolved from the echniques in the field of Data and other interesting pieces of g data exploration and analysis, Association Rules. The course
36701	Foundation of Business Analytics	Credit Hours: 3
	This is an introductory course to Business Analytics (BA). It explains the levels of BA with a focus on descriptive, predictive, and prescriptive analytics. Main concepts such as Business Intelligence (BI), data mining and data warehousing are discussed during the course. In addition, the course introduces some key terms in the field such as: dimensional data models, data warehouse architecture and infrastructure, techniques for data integration, online analytical processing (OLAP), data visualization, analytical reporting, and managerial issues of data warehouse implementation. In addition, the course introduces the concept of big data and how it can be used to support business decisions.	
36711	Advanced Statistical Analysis	Credit Hours: 3
	This course explores statistical modeling and analysis techniques for aiding managerial decision making. Topics include: introduction to descriptive statistics, sampling methods and sampling distribution, confidence interval estimation, one sample hypothesis tests, one-way and two-way analysis of variance, simple and multiple linear and nonlinear regressions, and time series forecasting. Selected software packages are used to apply the theoretical part into practical business cases.	
33750	Entrepreneurship & Innovation	Credit Hours: 3
	This course aims on the behavior and attributes of entrepreneurs who operate in a competitive environment. It elaborates on the role of entrepreneurs in a competitive market and the role of government in the creation of a business environment conducive to entrepreneurship. The course also highlights the relevance of attitudes, values and beliefs to entrepreneurial activity; the management of risks; the process of new product development; and the reasons for the high failure rate of new businesses. The course aims to develop skills and an understanding of the risks and rewards of entrepreneurial activities.	
33774	Research Methodology	Credit Hours: 3
	This course aims to equip the students with the skills in conducting scientific research through introduction methods and providing the basic skills in writing scientific research. Which includes defining the probability the research significance and objectives, the research model and its variables based on literature review and sample of the study, data collection and hypotheses writing and testing methods in addition to the using statistical methods, writing the conclusions and recommendations and linking them to the literature students to various documentation methods.	olem of study and its variables, v, how to define the population heir analysis and interpretation