

Program Courses Description (EMI)

	for Managers	3 (3 + 0)
<p>This course serves as an introduction to the basic concepts of corporate finance. The aim of this course is to acquaint the students with the theoretical and applied basis of corporate financial decisions. The main topics covered in this course include financial markets and instruments. Time values of money, risk and return, financial statements and their analysis, security valuations. Other topics that will be introduced to students in this course include project analysis, capital budgeting, capital structure, and dividend policy.</p>		
EQUA 505		3 (3 + 0)
<p>Descriptive statistics , simple correlation and regression analysis, basic probability theory, probability distributions of both discrete and continuous random variables, expectations, moments, distributions of functions of random variables, sampling distributions, estimations of population parameters, and hypothesis testing. Nonparametric statistical techniques and their applications to business research will also be covered in the course. Statistical computer software such as SAS or SPSS will be used in the course for data analysis.</p>		
	Theory of Risk & Insurance	3 (3 + 0)
<p>This course serves as a framework for an integrated approach to risks and insurance. The main topics covered in this course are: the definition and types of risk, steps of risk management, risk assessment and risk management tools. Types of the insurable risks and types of the speculative risks (non-insurance risks i.e. financial risks). Management of insurable risks and measurement of some non-insurance risks and how to manage them. The basic legal principles of insurance, and analysis of insurance contracts. Besides, Other topics in this course are insurance marketing and social insurance.</p>		
EQUA 544	Time Series Analysis and Forecasting in Insurance	3 (3 + 0)
<p>Modeling of both stationary and non-stationary time series, Moving Average (MA) models, Exponential Smoothing, Autoregressive (AR) processes as well as mixed (ARMA) processes, Box-Jenkins, and applications in general insurance, save and protection insurance and social insurance. Computer software is used.</p>		
	General Insurance	3 (3 + 0)

The aim of the course is to give a broad understanding of the nature of general insurance (non-life), including the function of general insurance contracts, their legal principles and the principles of underwriting, marketing, claims administration and its settlement, and ratemaking. Moreover, this course comprises analysis of the basic commercial property and liability insurance contracts, including commercial property, commercial general liability, crime, inland marine, boiler and machinery, and commercial auto policies. The course will focus on both the terms of the contract as well as their usage. As well, the course concentrate on the covered risks and excluded risks in the different types of general Insurance (i.e. Fire insurance, marine insurance, business interruption, general accidents, liabilities, infidelity, glass, boiler and machinery and credit insurance ---etc.).

EQUA 545	Quantitative Analysis Methods in Insurance	3 (3 + 0)
This course includes advanced and multivariate statistical methods that are widely used in the insurance field, as the course includes the use of advanced statistical methods in underwriting operations in health insurance risks, automobile risks, pricing of reinsurance methods and estimating Unearned Premium Reserves (UPR), Claims Reserves, Incurred But Not Reported (IBNR), mathematics of social insurance and mathematics of reinsurance.		
EHHA 520	Health Insurance Management	3 (3 + 0)
Identifying the nature of health management and its particularities in health care organizations, such as hospitals and primary health care centers. The course elaborates on the various activities related to the provision of health services and the role that can be played by health administrators, especially within national health transformation.		
EFIN 517	Protection and Savings Insurance	3 (3 + 0)
The objective of this course is to provide students a rigorous introduction about Protection and Savings insurance and the types of different policies. As well, contractual provisions for Protection and Savings insurance and how do persons buy Protection and Savings insurance policies. Main topics included in this course are : Policy options , annuities , group Protection and Savings insurance , social insurance ,retirement plans , group insurance .Moreover, this course gives an overview of calculating the risk premium, gross premium, and reserve for different policies using mortality tables.		
EHHA 530	Health Insurance System	3 (3 + 0)
This course addresses the concepts of legislations in cooperative health insurance and the insurance contract characteristics, conditions, and its parties. More, this course focuses on how legal and legislations from different sources affect Saudi health insurance system transformation.		
QUA 572	Actuarial Statistics	3 (3 + 0)

The main purpose of this course is to use actuarial statistics techniques to assess probability models and data. Therefore, this course covers survival models and their estimation as well as applications in insurance. Specific topics include: the concept of survival models and actuarial notation, estimation of lifetime distributions, estimation in the Markov Model , Binomial and Poisson models, the future lifetime random variables (discrete and continuous), exposed to risk , force of mortality, Life Tables: Select, Ultimate and Select and Ultimate, Graduation and Statistical Tests, Methods of Graduation , Mortality, Selection and Standardization.

EQUA 548

3 (3 + 0)

The objective of this course is pricing the risks of general insurance (non-life insurance), calculation the risk premium for individual risks, compound risks and comprehensive risks using by classical models, Bayesian statistics, loss distributions, individual models, collective models, univariate aggregate probability distributions, bivariate aggregate probability distributions and multivariate aggregate probability distributions, retention calculations and pricing reinsurance methods.

EQUA 599

Research Project

3 (3 + 0)

Students undertake a scientific research project in which they demonstrate their scientific ability and the techniques they acquired during their studies of the program's courses. This is to solve an applied insurance problem. Where students are given an opportunity to research a contemporary topic related to their profession. The faculty member supervises on the student when choosing a research project.