

Ph.D. Study Plan in Business Economics

First: General Rules and Conditions

- a. This plan conforms to the valid regulations of the programs in graduate studies.
- b. Prerequisite degrees for the enrollment in the program are according to the following priorities respectively:
 - a- M.A. Economics (Business Economics).
 - b- M.A. Financial Economics, Agricultural Economics, Islamic Economics, Finance, Financial and Monetary Sciences, Business Administration, Accounting, Industrial Engineering, Production Engineering, Management Information Systems, Marketing, and Public Administration.

Second: The plan consists of (54) credit hours distributed as follows:

1. **Obligatory Courses:** 21 credit hours as follows:

Course No.	Course title	Credit	Theory	Pre-req
1607901	Microeconomic Theory	3	3	
1607902	Macroeconomic Theory	3	3	
1607903	International Economics	3	3	
1607904	Monetary Theory	3	3	
1607905	Econometrics	3	3	
1607906	Financial Economics	3	3	
1607909	Topics in Economic Development	3	3	

2. **Elective Courses:** 15 Credit hours out of the followings:

Course No.	Course title	Credit	Theory	Pre-req
1607910	Contemporary Issues in Economics	3	3	
1607913	International Finance	3	3	
1607915	Multivariate Statistical Analysis	3	3	
1607918	Game Theory with Economic Applications	3	3	
1607919	Advanced Topics in Econometrics	3	3	
1607920	Public Finance	3	3	
1607923	Human Resources Economics	3	3	
1607924	Environmental Economics	3	3	

3. **Passing specific knowledge efficiency examination (1607998)**

4. **The completion of 18 Crs dissertation (1607999).**

Course Description

1607901 Microeconomic Theory (3 Cr)

The course covers the following subjects in addition to selected advanced topics: general equilibrium analysis, efficiency and welfare, market failures, externalities, theory of decisions under uncertainty, portfolio and saving decision under uncertainty, and application of game theory to economic analysis.

1607902 Macroeconomic Theory (3 Cr)

The course analyzes static and dynamic macroeconomic models with emphasis on the role of fiscal and monetary policies in the determination of GDP and its distribution, the price level, and employment.

1607903 International Economics (3 Cr)

The course covers both theories of international trade and commercial policies. It covers the classical theory of competitive advantage, Heckscher-Ohlin theory of factors of production, and modern theories of international trade. The second half of the course is devoted for commercial policies including tariffs, subsidies, quota, and other forms of international trade intervention. Theory of protection and the ongoing debate among economists regarding different forms and justification of protection is covered next. Then the general agreement on tariff and trade GATT is introduced together with its successor WTO. Final two sections cover the theory of economic integration and the role of trade in growth and development.

1607904 Monetary Theory (3 Cr)

The course covers advanced topics in the theory of monetary economics and the role of money in the economy using both static and dynamic models.

1607905 Econometrics (3 Cr)

The course covers the following topics: dynamic models, instrumental variables, simultaneous equations, and time series models.

1607906 Financial Economics (3 Cr)

The course covers the advanced theory of financial economics including topics such as: portfolio theory, asset valuation models-theory and application, capital asset pricing model -CAPM, arbitrage pricing theory- APT, representative agent models, pricing of derivative securities, complete and incomplete asset markets, credit markets, financial intermediaries, the role of government in the financial sector, market frictions, and crashes and bubbles.

1607909 Topics in Economic Development (3 Cr)

The course provides advanced analysis for theories and models of economic growth and development. Special attention will be devoted to structural change in LDCs, privatization and the new role of government. The course covers also issues related to population growth and development, inequality and income distribution, poverty measures; causes and impacts, and globalization and its impacts on development.

1607910 Contemporary Issues in Economics (3 Cr)

This course considers an array of leading contemporary economic problems, with specific topics chosen from current and recent policy debates from both a domestic and global viewpoint. The idea is to help students learn to think critically about pressing issues, utilizing economic reasoning, theory, and principles. Topics evolve from the news cycle, and may include environmental policy, international trade, social security and fiscal policy, monetary policy, unemployment, health care, income inequality, and other current issues.

1607913 International Finance (3 Cr)

The course covers the following topics: The theory of exchange rate and balance of payments determination, open economy macroeconomic issues, current account adjustment, and current empirical literature concerning the efficient market theory of the foreign exchange market.

1607915 Multivariate Statistical Analysis (3 Cr)

The course covers advanced topics in multivariate statistical analysis including principal components, clusters analysis, multivariate correlation analysis, and canonical analysis.

1607918 Game Theory with Economic Applications (3 Cr)

The course aims at providing a systematic approach to analyze strategic problems. Its main topics include: zero-sum games, non-zero sum games, mixed strategies, dominant solvability, Nash equilibria, one stage games, extensive form games and backward induction, subgame perfect equilibrium, repeated games, games with incomplete information, and signaling games. In addition, this course will include various economic applications for Game Theory especially in the field of industrial organization.

1607919 Advanced Topics in Econometrics (3 Cr)

The course is designed to build on econometrics (1607905) focusing in depth on specific advanced topics of interest such as modern time series analysis and Bayesian econometrics...etc.

1607920 Public Finance (3 Cr)

The course focuses on the application of economic theory to the analysis of issues pertaining to taxation, public spending, and the interaction between macroeconomics and fiscal policy. The course covers the theories of technical efficiency, welfare economics, public goods, government financial statistics, macro-fiscal accounts, and cost-benefit analysis. Students will apply these economic analysis tools in the analysis of government revenues, spending, fiscal policy, and capital project analysis.

1607923 Human Resources Economics (3 Cr)

The course covers the fields of human capital in labor economies and macroeconomics. There will be analysis for the determinants of business cycles and its effects on the level of employment and the number of working hours. Also, this course will provide models for labor movements among geographical regions or among economic sectors. In addition, this course will analyze the effect of tax and unemployment insurance and other work benefits on the economy.

1607924 Environmental Economics (3 Cr)

The course aims to provide students with the necessary tools for environmental issues. Some of microeconomics models will be applied to analyze and evaluate environmental policies. These policies are applied to areas like: water, pollution, energy, changes in climate, and to other issues related to human health. Additionally, this course will cover issues like environmental regulation, social cost, forecasting for the benefits of environmental development, and studying the relationship between international trade and environment.