

King Saud University (RIYADH)  
College of business administration  
Department of Quantitative Analysis.

Business Forecasting (QUA 307)

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**Batch : Semester 1 (1438/1439)**

**Section: 27517**

**Credit hours : 3**

**Number of Sessions : 42**

**Course Facilitator: Dr. Najwan H. Alsadat**

**Office : Building 3 2nd Floor, Office No. 185 E-mail: nalsadat@ksu.edu.sa**

**Lecture : day: 2, Time: 8-11**

**Office Hours : day: 1, 3, 5, Time: 10-12**

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### Course Objectives

- The aim of this course is the understanding of forecasting methods for economic, social and administrative phenomena,
- To provide the student knowledge of the principles and basic concepts of forecasting methods and their uses and problems related
- To understand and use the modern software techniques for Modeling of the administrative problems in the predictable future.
- To prepare the students to perform scientific interpretation of current and future behavior for decision-making and policy based on sound statistical tools.

### Content of the Course and Session Plan

Session	Content
Sessions 1-3	Introduction to forecasting
Sessions 4-6	A review of basic statistical concepts
Sessions 7-12	Simple linear regression models
Sessions 13-18	Multiple linear regression models
<b>First Midterm (25 points) Monday (24/2/1439 - 13/11/2017) (8:30-10:00 AM)</b>	
Sessions 19-21	Moving averaging methods
Sessions 22-27	Exponential smoothing methods
Sessions 28-23	Time series analysis
<b>Second Midterm (25 points) Wednesday (25/3/1439 -13/12/2017) (12:00-1:30 PM)</b>	
Sessions 34 - 38	Box-Jenkins models
Sessions 39 - 42	Applied examples for illustration
<b>Duties (10 points)</b>	
<b>Final Exam (40 points)</b>	

**Text Book Recommended:** Hanke and Wichern, Business forecasting, Pearson International, Ninth Edition.