

# **Program of Ph. D. in Statistics**

## **Aims of the program**

- 1- Provide the candidate with a broad knowledge of Statistics and mastery of a chosen area.
- 2- Equip the candidate with the ability for independent research in an active area of Statistics.
- 3- Meet the needs of higher educational institutions and research centers for highly qualified statisticians.
- 4- Satisfy locally the aspirations of a growing number of holders of M.Sc. degrees in Statistics for higher qualifications

## **Admission Requirements**

An applicant for admission into a Ph.D. program must:

- 1- Hold M.Sc. degrees in Statistics from King Saudi University or its equivalent.
- 2- Pass a TOEFL examination with a score of at least 500.
- 3- Pass an interview held by a subcommittee of the department.

## **Degree Requirements**

The Ph.D. program involves three stages: preparation for research (course requirement), certification that the preparation is adequate (comprehensive examination) and thesis research.

### **1- Course requirements**

The student must successfully complete 18 credit hours of courses of which a maximum of 9 can be chosen from M.Sc. courses which he/she has not taken previously.

### **2- Comprehensive examination.**

The student must pass a comprehensive examination to be held subject to the regulations and guidelines of the Graduate College and those of the college of Science.

### **3- The students must present a research thesis on a chosen topic in Statistics, reflecting creativity and originality.**

## **Ph. D. Program in Statistics**

**The plan of study for the Department of Statistics and Operations Research**

**Specialization: Statistics**

**Degree: PH. D. degree of Science**

<b>Compulsory courses</b>		
<b>Course Code</b>	<b>Name of course</b>	<b>Unit</b>
STAT 611	Probability theory I	3
STAT 621	Statistical Inference I	3
STAT 622	Statistical Inference II	3

<b>Optional courses</b>		
<b>Course Code</b>	<b>Name of course</b>	<b>Unit</b>
STAT 612	Probability theory II	3
STAT 613	Stochastic Process II	3
STAT 623	Survival analysis	3
STAT 624	Theory of nonparametric statistics	3
STAT 625	Advanced topics in experimental design	3
STAT 626	Theory of time series	3
STAT 627	Generalized linear models	3
STAT 628	Multivariate analysis	3
STAT 629	Special topics in statistics	3