### **Title of the Course**

Biostatistics for Biological and Health Sciences

#### **Course Coordinator**

Prof. Dr. H. Anwar Ahmad

#### **Credit Hours**

This course fulfills one credit-hour course requirements. On-site students at the ICCBS will have 16 hours of formal classes

## **Learning Objectives**

- 1. To understand the basic concepts of biostatistical methodologies
- 2. To apply these concepts in biomedical research
- 3. To familiarize with the SAS environment and be able to use SAS-procedures in various experimental designs and data analysis-depending upon the availability of the software package.

# Schedule: Time: 09:00 to 10:00 AM (Tuesday and Wednesday)

Weeks	Topics
1 <sup>st</sup> week May 9 & 10, 2017 (Tuesday, Wednesday)	General Introduction to Biostatistics
2 <sup>nd</sup> week May16 &17, 2017 (Tuesday, Wednesday)	Types of Studies; Frequency Distributions
3 <sup>rd</sup> week May 23 & 24, 2017 (Tuesday, Wednesday)	Summary Statistics
4 <sup>th</sup> week May30 &31, 2017 (Tuesday, Wednesday)	Probability Concepts; Some Important Distributions.

5 <sup>th</sup> Week June 6 & 7, 2017 (Tuesday, Wednesday)	Statistical Inference
6 <sup>th</sup> Week June 13 &14, 2017 (Tuesday, Wednesday)	Hypothesis Testing
7 <sup>th</sup> Week June 20 & 21, 2017 (Tuesday, Wednesday)	Confidence Interval; Inference about Mean
8 <sup>th</sup> Week July 4 & 5, 2017 (Tuesday, Wednesday)	Analysis of Variance
9 <sup>th</sup> Week July 11, 2017 (Tuesday)	Final Exam