

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Biostatistics
Course number	DENT4105
Faculty	
Department	
Course type	College Needs
Course level	4
Credit hours (theoretical)	1
Credit hours (practical)	0
Course Prerequisites	

#### Course Objectives

- 1 - Description: This course provides an overview of statistical methods for analyzing correlated data produced by longitudinal measurements taken over time. Topics include study design, exploratory data analysis techniques and linear mixed effects regression models. This course provides practical concepts and hands-on R computing skills to perform longitudinal data analysis.

#### Course Contents

- 1 - Learning Objectives: 1. Identify causes and patterns of correlated outcomes in health data 2. Perform exploratory data analysis of longitudinal outcomes 3. Fit linear mixed effects regression models 4. Interpret and perform hypothesis testing of regression parameters for mixed models

#### Teaching and Learning Methods

- 1 - 1 - Lectures 2 - Power point 3 - Discussion 4 - Assignments