

Course Code Course Name ECTS Credit

CMS204 Probabilities and Statistics 5

Pre-Requisite Course Type Language of Instruction

Compulsory English

Year of Study Level of Course Mode of Delivery

2nd / 3rd BSc/1st Cycle On Campus

Course Objectives:

This lesson provides a good knowledge of statistical data analysis applications using statistical methods.

Learning Outcomes:

- Graphical and Numerical Data Summing Methods
- Elements of Probability Theory
- Probability distributions
- Sampling distributions and Central limit theorem
- Construction of space estimates for the average and proportional population
- Statistical decisions using hypothesis testing, chi-square, t-tests.

Teaching Methodology:

Lectures 42 hours

Course Content

Graphical and Numerical data methods

Probabilities

Probability distributions.

Confidence Intervals

Sampling Distributions.

Chi-square, T-Tests, Hypothesis Test.

Assessment Methods:

Final Exam

Required Textbooks/Reading:

Title	Author(s)	Publisher	Year
Probability and Statistics for Engineer	Johnson R.A.	Pearson	2009
Probability and Statistics	De Groot, M.H. &	Pearson	2011
	Schervish, M.		
Engineering Mathematics	Hargreaves	Pearson	2017