INTERCOLLEGE

Course Title	Statistics				
Course Code	IMATH-100E				
Course Type	Compulsory				
Level	1st Cycle				
Year / Semester	Fist/Spring				
Teacher's Name					
ECTS	4	Lectures / week	3	Laboratories / week	0
Course Purpose and Objectives	The main objectives of this course are to: • Students to understand basic numerical concepts. • Develop methods for solving linear equations and inequalities with one variable. • Solve polynomial with percentages (profit, loss, tax). • Familiar with linear systems and line charts. • Understand basic statistical concepts, collect and present data with tables and graphs. • To know how to analyze position and dispersion measures and to draw the appropriate conclusions. • Understand the basic principles of probability theory. • Finally, to understand the concepts of random variable and distribution.				
Learning Outcomes	After completion of the course students are expected to be able to: • Solve linear equations and inequalities with one variable. • Solve mathematical polynomials with percentages. • Understand and describe bar charts. • Understand and present basic statistical concepts with emphasis on applications in the food arts. • Interpret, calculate and analyze statistical measures of central tendency and variance from specific data in order to make the best use of them. • Solve basic theoretical and empirical probability problems. • Understand the basic concepts of random variables and distributions of discrete variables.				
Prerequisites	None	Required	None		
Course Content	• Basic concepts of arithmetic and percentages. • Linear equations and inequalities with one variable.				

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<tr><td></td><td>• Linear systems and diagrams.
• Basic concepts of statistics. Data collection, processing, presentation and analysis. Regulation and interpretation of central tendency and variation measures.
• Classical and empirical probability theory.</td></tr>
<tr><td>Teaching Methodology</td><td>Lectures, examples and classroom exercises.</td></tr>
<tr><td>Bibliography</td><td>Required:
Dugopolski, Intermediate Algebra, McGraw Hill
Brase and Brase, Understandable Statistics, Wiley</td></tr>
<tr><td>Assessment</td><td>• Class Participation
• Tests
• Assignments
• Mid-Term
• Final Exam
Grading Policy<table><tr><td>Final Examinations</td><td>30 – 50%</td></tr><tr><td>Class Tests</td><td>15 – 30% each</td></tr><tr><td>Term paper or Projects</td><td>15 – 30%</td></tr><tr><td>Mid-Term</td><td>30 – 40%</td></tr><tr><td>Homework</td><td>0 – 20%</td></tr><tr><td>Quizzes</td><td>0 – 10%</td></tr><tr><td>Class Attendance & Participation</td><td>0 – 10%</td></tr></table></td></tr>
<tr><td>Language</td><td>Eng;ish</td></tr>
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