Program	Diploma in Food Science					
Semester and Level	Level 3					
Course Code	ADD3200					
Course Title	Basic Mathematics and Statistics for Food Science					
Credit value	2					
Core/Optional	Core					
Prerequisites	None					
Hourly Breakdown	Theory		Practical Hours	Independent Learning	Assessments	Tot al hrs
	16 Sessions X 2hrs = 32 hrs	2DS +1RDS X 4 hrs = 12 hrs	 Hands on experienc e in Excel = 08 hrs 		 2 Continuous Assessments (CA) X 1.5 hrs =3 hrs 	103
Course Aim/s	Aim of this course is to provide the knowledge in basic mathematics and basic statistics related to food science and its applications.					
Programme Learning Outcomes (PLO) addressed by course						
						aking
						ience
Course Learning Outcomes (CLO):	 At the completion of this course student will be able to CLO1: Interpret data represented in different forms.(PLO1,PLO3,PLO6) CLO2: Carryout simple calculations using standard mathematical operations including those involving logarithms. (PLO1,PLO5) CLO3: Calculate basic statistical parameters related to a given set of data from food science. (PLO5, PLO6) CLO4: Demonstrate the ability to use some standard software packages widely used in data analysis. (PLO4, PLO6) 					

Content (Main topics, sub topics)	 Unit 1: Basic Mathematics Numbers, expressing numbers through scientific notation, graphs and interpretation of graphs, ratios, percentages, fractions, roots, exponents, exponential and logarithms Unit 2: Descriptive data analysis Basic concepts of statistics, types of variables, types of data, tabular data summaries, graphical data summaries, numerical data summaries, selecting data summaries in a given context, constructing data summaries using Excel software 				
Teaching-Learning methods	 Course material in print – 16 sessions; and e - learn supplementary Self-learning/independent learning Learning the course material (print, online) Additional reading materials/ recommended reading Home Assignment Non-compulsory contact sessions Day schools (discussion classes) Continuous assessment (CA): NBT1, NBT2, Final examination : 01 theory paper 				
Assessment Strategy		Final Assessment: 60 % Details: Final examination – 2hrs 01 paper (structured essay)			
Recommended Reading	 Pre-calculus with limits – a graphing approach by Ron Larson, 7th edition Basic Statistics by Agarwal. B. L., 2015, 6th edition Microsoft Office Excel by Frye, Curtis D. 				