



Module Description Calculus

Module designation	Calculus		
Module code	23G03110102		
Semester(s) in which the	2 nd semester		
module is taught			
Person responsible for the	Sri Astuti Thamrin, S.Si., M.Stat., Ph. D		
module (lecturers)			
Language	Indonesian language		
Relation to curriculum	Compulsory		
Teaching methods	Lecture		
Workload	Total workload (estimated): 27 hours of lecture 32 hours of exercise		
	32 hours of independent study		
Credit points	2 credit points = 3.24 ECTS		
Required and recommended prerequisites for joining the module			
Module objectives/ Intended Learning Outcomes (ILO)	ILO 5. Applies the principles of food science and technology, statistics, and computer science to implement good manufacturing practices in food industry management (C2)		
	CLO 1. Explanation of calculus concepts, including:		
Content	 Polynomial Function Exponential function Trigonometric Function linear equation, linear inequality, drawing curves, linear optimization limit derivatives integral 		



Bachelor Programme in Food Science & Technology



Examination form	Writing (essay)	Writing (essay)			
Study and examination	Examination requirements: Attendance above 80%				
requirements					
	❖ Individual tasks: 22.5%				
	Quiz: 7.5%Midterm exam: 20%Case study: 50%				
	Grading:				
	Numerical range	Letter grade	Conversion value		
	85 - 100	А	4.00		
	80 - < 85	A-	3.75		
	75 - < 80	B+	3.50		
	70 - < 75	В	3.00		
	65 - < 70	B-	2.75		
	60 - < 65	C+	2.50		
	50 - < 60	С	2.00		
	40 - < 50	D	1.00		
	< 40	Е	0.00		
	If student(s) receives(s) a score below 40, student(s) must				
	retake the course				
Reading list	1. Stroud, K., A. 2001. Engineering Mathematics 5th Edition.				
	Industrial Press, Inc., New York				
	2. Purcell., Varberg., Rigdon. 1997. Calculus.				
	3. Blank, B., E., Krantz, S., G. 2011. Calculus Single Variable.				
	John Wiley & amp; Sons				
	4. Kuttler, K. 2011. Calculus, Applications and Theory Volume				
	1. World Scientific Publishing				
Date of last one and direct					
Date of last amendment					