MODULE HANDBOOK

K	UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES BACHELOR OF BIOLOGY PROGRAMME	COURSE CODE: D10D-1004
Module designation	Biomathematics and Computation	
Semester in which the module is taught	1	
Persons responsible for the module	 Asep Kuswandi Supriatna Nursanti Anggriani. 	
Medium of instruction	Indonesian	
Relation to curriculum	Compulsory course	
Teaching methods	Lectures and discussions	
Workload	Total workload : 5440 minutes = 90.67 hours	
	Lecture and discussion: 2 x 50 minutes x 16 weekss = 1600 minutes = 26.67 hoursExercises: 2 x 60 minutes x 16 weekss = 1920 minutes = 32 hoursSelf-study: 2 x 60 minutes x 16 weekss = 1920 minutes = 32 hours	
Credit points	2.00 (3.62 ECTS)	
Required and recommended prerequisites for joining the module	-	
Module objectives/intended learning outcomes	 Students can explain the concept of real numbers Students can explain the concept of limit correctly Students can explain the concept of derivative and its application Students can explain the concept of integral and its application Students can choose the right integrating technique 	
Contents	This course discusses the real number system, functions and their types, limit, and continuity of functions, derivatives of functions and their applications, integrals, and their applications, and integrating techniques.	
Examination forms	Quiz, Midterm exam, Assignment, and Final exam	
Study and examination requirements	The minimum attendance in lectures is 80%. Final grades are evaluated based on quiz (20%), midterm exam (30%), assignment (20%), and final exam (30%)	
Reading lists	 Purcell, E.J.& Varberg, D 1984 "Kalkulus dan Geometri Analitis", jilid 1, terjemahan edisi 5. Erlangga. Stewart, J. 1998. "Kalkulus", jilid 1, tejemahan edisi 4. Erlangga. Martono,K. 1999. Kalkulus. Erlangga 	