## **MODULE HANDBOOK**

Module Name:	Differential Calculus			
Module Level:	Sarjana (S-1) / Bachelor			
Abbreviation, if	8420204079			
applicable:				
Sub-heading, if	-			
applicable:				
Course included in the	-			
module, if applicable:				
Semester/term:	1/ First year			
Module Coordinator(s):	Abdul Haris Rosyidi, M.Pd.			
Lecturer(s):	Abdul Haris Rosyidi, M.Pd			
	Prof. Dr. Mega T Budiarto, M.Pd			
	Ahmad Wachidul Kohar, M.Pd			
	Dr. Atik Wintarti, M.Kom			
	Dini Kinati Fardah, M.Pd			
	Nina Rinda Prihastiwi, M.Pd			
	Ika Kurniasari, M.Pd.			
Language:	Indonesia			
Classification within	Compulsory course/ elective studies			
the curriculum:				
<b>Teaching format/class</b>	Teaching format: lectures, tutorial assignment, and individual			
hours per week during	study. $4 \times 170 \text{ minutes} = 680 \text{ minutes} = 11.3 \text{ hours lectures}$			
the semester				
Workload:	15 weeks per semester consisting of:			
	• 3.3 hours lectures (4 x 50 minutes) per week,			
	• 4 hours tutorial assignments (4 x 60 minutes) per week,			
	• 4 hours individual study (4 x 60 minutes) per week,			
	Total workload : $14x4x170$ minutes = 9,520 minutes = 6.35 ECTS*			
Credit Point:	4			
<b>Requirements:</b>	None			
Learning Goals:	Knowledge			
	<ul> <li>CLO-1: Able to demonstrate knowledge and insight into real number systems, real functions, limits and continuities, derivatives of real functions and their use, transcendent functions and their derivatives, indefinite form limits, Taylor and Mac Laurin series.</li> <li>Skill</li> </ul>			

concept and its derivation in problem solving activiti using ICTContent:Real number systems, real functions, limits and continuiti derivatives of real functions, transcendent functions and the derivatives, limits of indefinite form, Taylor and MacLaurin serie minimum-maximum problemStudy/exam achievements> Students are considered competent and pass if the final sco calculated from the score of midterm exam, assignmen participation, and final exam is at least 55 or C.> Final score is calculated as follows:> 20% midterm exam + 30% assignments + 20% participation 30% final exam> Final index is defined as follow:Index Converted ScoreScore Range Range A 4.00A4.0085≤A≤100 A- A- B3.0070≤B <75 B- C C C C C C C D1.0040≤D <55 C C C C DForms of MediaSlides and LCD projectors, whiteboardLiterature[1] Thomas Jr., G., et. al. 2010. Thomas' Calculus 12th Edition. Boston: Addison-Wesley [2] Stewart, J. 2016. Calculus: Early Transcendental 8th Edition Belmont: Brooks/ColeIndex (C) 104 do Life, E. J. et al. 2010. Kalkulus Jilid 1 Edisi Kedelapan (Terjemahan). Jakarta: ErlanggaKalkulus Jilid 1 Edisi Kedelapan (Terjemahan). Jakarta: Erlangga		CLO-2:	Able to in	mplement the basic	principles of the f	function
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<ul> <li>[4] Abadi, &amp; Wintaru, A. 2014 (in press). Kaikulus, Buku I. Surabaya</li> <li>[5] Moesono, D. 1994. Kalkulus I (Edisi Revisi). Surabaya: University Press Surabaya.</li> <li>[6] Tim Dosen Kalkulus Diferensial. 2015. Modul Praktikum Kalkulus Diferensial (in press). Surabaya</li> </ul>	Literature	<ol> <li>Thomas Jr., G., et. al. 2010. Thomas' Calculus 12th Edition. Boston: Addison-Wesley</li> <li>Stewart, J. 2016. Calculus: Early Transcendental 8th Edition. Belmont: Brooks/Cole</li> <li>Purcell, E. J. et al. 2010. Kalkulus Jilid 1 Edisi Kedelapan (Terjemahan). Jakarta: Erlangga</li> <li>Abadi, &amp; Wintarti, A. 2014 (in press). Kalkulus, Buku 1. Surabaya</li> <li>Moesono, D. 1994. Kalkulus I (Edisi Revisi). Surabaya: University Press Surabaya.</li> <li>Tim Dosen Kalkulus Diferensial. 2015. Modul Praktikum Kalkulus Diferensial (in press). Surabaya</li> </ol>				

Note	*Total hours per 1 credit in 1 semester={(1 credit x 170 minutes x
	14  weeks)/60  minutes = 39,67  hours.
	Each ECTS equals with 25 hours therefore 1 credit in 1 semester
	equals 1,59 ECTS.