

Calculus					
Course code CIF61001	student workload 90 hours	credits (according to ECTS) 4.5	semester Sem. 1	frequency each odd-semester	duration 16 meetings
1	Types of courses <i>compulsory</i>	contact hours 63 hours	independent study 27 hours	class size 40 students	
5	Prerequisites for participation -				
2	Learning outcomes IF-PLO-3 Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements. IF-PLO-4 Graduates have the ability to think computationally, design-based thinking, conduct analysis with scientific writing, and are able to apply the values of Technopreneurship in creating product innovations in the Systems or Information Technology domain. IF-PLO-6 Mastering mathematical concepts and/or theoretical computational statistics.				
3	Subject aims <ol style="list-style-type: none"> 1. Students are able to understand number systems, equations, inequalities, and functions. 2. Students are able to identify the limit forms of a function. 3. Students are able to derive the equation of a function. 4. Students are able to rediscover the function of a derivative function through the concept of integral. 				
4	Teaching methods lectures, case study, class discussion, presentation				
6	Assessment methods assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment				
8	This module is used in the following degree programmes as well				
10	Responsibility for module				
11	Other information <ol style="list-style-type: none"> 1. Ayres Jr, F., & Mendelson, E. (2006). <i>Schaum's Outlines Kalkulus Edisi Keempat</i>. Jakarta: Erlangga. 				

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| | <ol style="list-style-type: none">2. Baisuni, H.M.H. (2005). <i>Kalkulus</i>. Jakarta: Universitas Indonesia (UI-Press)3. Stewart, J. (2001). <i>Kalkulus Jilid 1, terjemahan I Nyoman Susila dan Hendra Gunawan</i>. Jakarta: Gramedia.4. Varberg, D., Purcell, E., & Rigdon, S. (2010). <i>Kalkulus: Edisi Kesembilan Jilid 1, terjemahan I Nyoman Susila</i>. Jakarta: Erlangga. |
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