

Statistics					
Course Code CIS62005	Student Workload 90 hours	Credits (according to ECTS) 4.5	Semester 2	Frequency each even-semester	Duration 16 meetings
1	Types of courses <i>Compulsory (study programme level)</i>	contact hours 63 hours	independent study 27 hours	class size 40 students	
2	Prerequisites for participation				
3	Learning outcomes IS-ILO-4 Graduates can develop professional careers in computer science based on quality aspects, data-driven decision making, be responsible, and make continuous improvements. IS-ILO-5 Graduates are expected to understand the ideas of the principles of morality, ethics and values in the IS fields and also to have the ability to apply ethical principles in decision-making to support community and environmental welfare.				
4	Subject aims <ul style="list-style-type: none"> • Students are able to understand and calculate descriptive, inferential statistical concepts and statistical thinking • Students are able to understand and calculate probability and random variables • Students are able to understand and calculate the concept of sampling, and sampling distribution • Students are able to understand and calculate the concept of parameter estimation • Students are able to understand and demonstrate hypothesis testing • Students are able to understand and calculate the concept of regression and correlation 				
5	Teaching methods lectures, case study, class discussion, presentation, practice				
6	Assessment methods assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment				
7	This module is used in the following degree programs as well				
8	Responsibility for module				

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Other information

1. Hasan, M.I. Pokok-Pokok Materi Statistik 1: Statistik Deskriptif. Bumi Aksara. 2015
2. Hasan, M.I. Pokok-Pokok Materi Statistik 2: Statistik Inferensif. Bumi Aksara. 2015
3. Sugiyono. Statistika untuk Penelitian. Alfabeta. 2011
4. R. E. Walpole, R. H. Myers, S.L. Myers & K.Ye. Probability & Statistics for Engineers and Scientists, 7th ed, 2002, Prentice Hall International Edition.
5. J. T. Mc Clave & F. H. Dietrich., Statistics, 9th ed., 2003, Prentice Hall
6. R. A. Johnson, & G. K. Bhattacharyya, Statistics: Principles and Methods, 3rd ed., 1996, John Wiley & Sons