



Module Description

Module name	Social Network Analysis
Module level, if applicable	Bachelor of Informatics
Code, if applicable	21D1214060
Subtitle, if applicable	-
Course, if applicable	
Semester(s) in which the module is taught	6 th or 7 th
Person responsible for the module	Dr. Amil Ahmad Ilham, ST., MIT.
Lecturer	<ol style="list-style-type: none"> 1. Dr. Amil Ahmad Ilham, ST., MIT. 2. A. Ais Prayogi, ST. M.Eng
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is an elective course and offered in the 6 th or 7 th semester.
Type of teaching, contact hours	Teaching methods: [case study], [collaborative learning]. Teaching forms: [lecture], [tutorial], [practicum]. CH : 8.00 - 16.00
Workload	For this course, students are required to meet a minimum of 136.00 hours in one semester, which consist of: <ul style="list-style-type: none"> - 40.00 hours for lecture, - 48.00 hours for structured assignments, - 48.00 hours for private study
Credit points	3 credit points (equivalent with 5.1 ECTS)



<p>Requirements according to the examination regulations</p>	<p>Students have participated in at least 80% of the learning activities (Academic Regulations, Chapter VII)</p>
<p>Recommended prerequisites</p>	<p>-</p>
<p>Module objectives/intended learning outcomes</p>	<p>After completing the course, Students are able:</p> <p>Intended Learning Outcomes (ILO):</p> <p>ILO 1:</p> <p>Have the knowledge of fundamental in Computing Science that includes basic theory and concepts of computer science, Mathematics and Statistics, Programming Algorithm, Software Engineering, Information Management and Digital Resilience, also the advance topics of either Artificial Intelligence, Data Science, Computer Network, Cloud Computing or Internet of Things..</p> <p>ILO 4:</p> <p>Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements by applying computer science theory and software development fundamentals</p> <p>.</p> <p>Course Learning Objective (CLO):</p> <p>After completing this course, students are able to understand foundational concepts of social network analysis including network structure, types and its characteristics and mechanisms to generate networks. Student are also expected to be able analyze, visualize and evaluate social network through case study</p> <p>Sub-CLO</p> <p>ILO 1 => CLO 1: Understands foundational concepts of social network analysis.</p> <p>ILO 4 => CLO 2: Analyze, visualize and evaluate social network through case study</p>



<p>Content</p>	<p>Students will learn about:</p> <ol style="list-style-type: none"> 1) Formalizing Network Structure 2) Network Types and Attributes 3) Network Generation Mechanism 4) Network Visualization 5) Network Evolution 6) Network Analytic Tools 												
<p>Forms of Assessment</p>	<p>Assessment techniques: [observation], [participation], [written test].</p> <p>Assessment forms: [final term exam], [assignment].</p> <table border="1" data-bbox="493 1031 1406 1430"> <tr> <td data-bbox="493 1031 683 1165">CLO 1</td> <td colspan="3" data-bbox="683 1031 1406 1165">CLO 2</td> </tr> <tr> <td data-bbox="493 1165 683 1299">Exam</td> <td data-bbox="683 1165 902 1299">Assign 1</td> <td data-bbox="902 1165 1127 1299">Assign 2</td> <td data-bbox="1127 1165 1406 1299">Assign 3</td> </tr> <tr> <td data-bbox="493 1299 683 1430">40</td> <td data-bbox="683 1299 902 1430">20</td> <td data-bbox="902 1299 1127 1430">20</td> <td data-bbox="1127 1299 1406 1430">20</td> </tr> </table>	CLO 1	CLO 2			Exam	Assign 1	Assign 2	Assign 3	40	20	20	20
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40	20	20	20										
<p>Study and examination requirements and forms of examination</p>	<p>Study and examination requirements:</p> <ul style="list-style-type: none"> - Students must attend 15 minutes before the class starts. - Students must switch off all electronic devices. - Students must inform the lecturer if they will not attend the class due to sickness, etc. - Students must submit all class assignments before the deadline. - Students must attend the exam to get the final grade. 												



	<p>Form of examination: Written exam:</p>
<p>Media employed</p>	<p>Video conference, slide presentation, Learning Management System (LMS)</p>
<p>Reading list</p>	<p>Main: Krishna Raj P.M., Practical Social Network Analysis with Python, Springer 2018</p> <p>Support: Charles Kadushin, Understanding Social Networks: Theories, Concepts, and Findings, Oxford University Press;2011</p>