



## Module Description

<b>Module name</b>	Digital Forensic
<b>Module level, if applicable</b>	Bachelor of Informatics
<b>Code, if applicable</b>	433D4233
<b>Subtitle, if applicable</b>	-
<b>Course, if applicable</b>	
<b>Semester(s) in which the module is taught</b>	6th or 7th
<b>Person responsible for the module</b>	Dr.Eng. Ady Wahyudi Paundu, S.T., M.T.
<b>Lecturer</b>	1. Dr.Eng. Ady Wahyudi Paundu, S.T., M.T. 2. Iqra Aswad, S.T., M.T.
<b>Language</b>	Indonesian Language [Bahasa Indonesia]
<b>Relation to Curriculum</b>	This course is an elective course and offered in the 6th or 7th semester.
<b>Type of teaching, contact hours</b>	Teaching methods: [case study], [collaborative learning].  Teaching forms: [lecture], [tutorial], [practicum].  CH : 8.00 - 16.00
<b>Workload</b>	For this course, students are required to meet a minimum of 136.00 hours in one semester, which consist of: - 40.00 hours for lecture, - 48.00 hours for structured assignments, - 48.00 hours for private study
<b>Credit points</b>	3 credit points (equivalent with 5.1 ECTS)
<b>Requirements according to the</b>	Students have participated in at least 80% of the learning activities (Academic Regulations, Chapter VII)



<b>examination regulations</b>	
<b>Recommended prerequisites</b>	-
<b>Module objectives/intended learning outcomes</b>	<p>After completing the course, Students are able:</p> <p><b>Intended Learning Outcomes (ILO):</b></p> <p><b>ILO 2 :</b> Have the knowledge of advanced topics in Informatics specific fields of either Artificial Intelligence, Data Science, Computer Network, Cloud Computing or Internet of Things.</p> <p><b>ILO 3 :</b> Apply the knowledge of computing and other related disciplines to analyze and identify solutions for any computing-based problem.</p> <p><b>Course Learning Objective (CLO):</b> After completing this course, students are expected to understand the basic operations of OS Forensic, Network Forensic, Multimedia Forensic and Mobile Forensic to identify solutions for any digital security incidents</p> <p><b>Sub-CLO</b> ILO 2 =&gt; CLO 1: Understand the fundamental operation for each phase in Digital Forensic operations. ILO 3 =&gt; CLO 2: Understand the basic operations of OS Forensic, Network Forensic, Multimedia Forensic and Mobile Forensic.</p>
<b>Content</b>	<p>Students will learn about :</p> <ol style="list-style-type: none"> <li>1) Forensic operation phases</li> <li>2) Basic Open Source tools for Digital Forensic</li> <li>3) OS Forensic operations</li> <li>4) Network Forensic operations</li> <li>5) Multimedia Forensic operations</li> <li>6) Mobile Forensic operations</li> </ol>
<b>Forms of Assessment</b>	<p>Assessment techniques: [observation], [participation], [written test].</p> <p>Assessment forms: [final term exam], [assignment].</p>



	<table><tr><td>CLO 1</td><td colspan="4">CLO 2</td></tr><tr><td>Exam</td><td>Assign 1</td><td>Assign 2</td><td>Assign 3</td><td>Assign 4</td></tr><tr><td>40</td><td>15</td><td>15</td><td>15</td><td>15</td></tr></table>	CLO 1	CLO 2				Exam	Assign 1	Assign 2	Assign 3	Assign 4	40	15	15	15	15
CLO 1	CLO 2															
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40	15	15	15	15												
<b>Study and examination requirements and forms of examination</b>	<b>Study and examination requirements:</b> <ul style="list-style-type: none"><li>- Students must attend 15 minutes before the class starts.</li><li>- Students must switch off all electronic devices.</li><li>- Students must inform the lecturer if they will not attend the class due to sickness, etc.</li><li>- Students must submit all class assignments before the deadline.</li><li>- Students must attend the exam to get the final grade.</li></ul> <b>Form of examination:</b> Written exam: Essay															
<b>Media employed</b>	Video Conference, Video and Slide Presentation.															
<b>Reading list</b>	<b>Main :</b> <b>Xiaodong Lin, Introductory Computer Forensics: A Hands-On Practical Approach, Springer 2018</b>  <b>Support :</b> Joakim Kavrestad, Guide To Digital Forensics: A Concise and Practical Introduction, Springer 2017															