Module Description

Module name	Digital Forensic
Module level, if applicable	Bachelor of Informatics
Code, if applicable	21D12141103
Subtitle, if applicable	-
Course, if applicable	
Semester(s) in which the module is taught	6th or 7th
Person responsible for the module	Dr.Eng. Ady Wahyudi Paundu, S.T., M.T.
Lecturer	1. Dr.Eng. Ady Wahyudi Paundu, S.T., M.T. 2. Iqra Aswad, S.T., M.T.
Language	Indonesian Language [Bahasa Indonesia]
Relation to Curriculum	This course is an elective course and offered in the 6th or 7th 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: - 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)
Requirements according to the	Students have participated in at least 80% of the learning activities (Academic Regulations, Chapter VII)

examination regulations	
Recommended prerequisites	-
Module objectives/intended learning outcomes	After completing the course, Students are able: **Intended Learning Outcomes (ILO):** **ILO 1 :** 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. **ILO 3 :** Apply the knowledge of computing and other related disciplines to analyse and identify solutions for any computing-based problem. **Course Learning Objective (CLO):** 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 **Sub-CLO** ILO 1 => CLO 1: Understand the fundamental operation for each phase in Digital Forensic operations. ILO 3 => CLO 2: Understand the basic operations of OS Forensic, Network Forensic, Multimedia Forensic and Mobile Forensic.
Content	Students will learn about : 1) Forensic operation phases 2) Basic Open Source tools for Digital Forensic 3) OS Forensic operations 4) Network Forensic operations 5) Multimedia Forensic operations 6) Mobile Forensic operations
Forms of	Assessment techniques: [observation], [participation], [written test].

Assessment	Assessment forms: [final term exam], [assignment].

CLO 1	CLO 2			
Exam	Assign 1	Assign 2	Assign 3	Assign 4
40	15	15	15	15

Study and examination requirements and forms of examination	**Study and examination requirements:** - 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. **Form of examination:** Written exam: Essay
Media employed	Video conference, slide presentation, Learning Management System (LMS)
Reading list	**Main :** **Xiaodong Lin, Introductory Computer Forensics: A Hands-On Practical Approach, Springer 2018** **Support :** Joakim Kavrestad, Guide To Digital Forensics: A Concise and Practical Introduction, Springer 2017