UNIVERSITAS GADJAH MADA
Faculty of Mathematics and Natural Sciences
Department of Computer Science and Electronics
Sekip Utara Bulaksumur Yogyakarta 55281 Telp: +62 274 546194 Email: dep-ike.mipa@ugm.ac.id Website: http://dcse.fmipa.ugm.ac.id

Bachelor in Computer Science
Telp : +62 274 546194
Email : prodi-s1-ilkom.mipa@ugm.ac.id
Website : http://dcse.ugm.ac.id/

MODULE HANDBOOK

Module name	**Audit and Forensic Digital**
Module level	Undergraduate
Code	MII-3505
Courses (if applicable)	NA
Semester	Fall (Odd)
Contact person	Dr. Mardhani Riasetiawan, MT
Lecturer	Dr. Mardhani Riasetiawan, MT
Language	Bahasa Indonesia & English
Relation to curriculum	1. Undergraduate degree program, compulsory, 6th semester. 2. International undergraduate program, compulsory, 6th semester.
Type of teaching, contact hours	1. Undergraduate degree program: lectures, < 60 students, 2. International undergraduate program: lectures, < 30 students.
Workload	1. Lectures: 3 x 50 = 150 minutes per week. 2. Exercises and Assignments: 2 x 50 = 100 minutes per week. 3. Private study: 1 x 50 = 50 minutes per week.
Credit points	3 credit points (sks).
Requirements according to the Examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.
Recommended prerequisites	Software Engineering Methods
Learning outcomes (course outcomes) and their corresponding PLOs	After completing this module, a student is expected to: CO1. Able to explain and identify the definition of IT audit and digital forensics CO2. Able to explain and identify risks, objects and standards CO3. Able to explain the audit process on compliance, substantive, and forensics CO4. Able to gather evidence and analyze to strengthen audit and forensic findings CO5. Able to present and present findings with sufficient scientific and technical arguments connected with case studies, events and specific events

PLO		CO1	CO2	CO3	CO4	CO5
Program Learning Outcome (PLO)	PLO1	√				
	PLO2		√			
	PLO3			√		
	PLO4				√	
	PLO5					√

<table>
<tr><td></td><td></td></tr>
<tr><td>Contents</td><td>1. Concepts and definitions, processes / stages, work, and scope of information technology auditing and control
2. Standards, audit objects and existing risks
3. Stages and methods of compliance and substantive IT audits
4. Digital forensic concepts, processes, flow, and technology
5. Digital evidence (collection, handling, management standards, analysis, and proof)
6. Algorithms and tools to support forensic and audit processes</td></tr>
<tr><td>Study and examination requirements and forms of examination</td><td>The evaluation is done in 2 forms, namely:
1. Trial, either midterm or semester test,
2. Two tasks, including individual,
3. Two group assignments to be completed within a certain timeframe, and

Assessment is done using benchmark assessment, with the aim of measuring the level of student understanding related to the target and class rank.</td></tr>
<tr><td>Media employed</td><td>e-learning Platform (ELOK), LCD, blackboard, and websites.</td></tr>
<tr><td>Assessments and Evaluation</td><td>
<table>
<tr><th>Type</th><th>Percentage</th><th>CO1</th><th>CO2</th><th>CO3</th><th>CO4</th><th>CO5</th></tr>
<tr><td>Task 1</td><td>10</td><td>√</td><td></td><td></td><td></td><td></td></tr>
<tr><td>Group Task 1</td><td>15</td><td></td><td>√</td><td></td><td></td><td></td></tr>
<tr><td>Midsem Test</td><td>25</td><td></td><td>√</td><td>√</td><td></td><td></td></tr>
<tr><td>Task 2</td><td>10</td><td></td><td></td><td>√</td><td></td><td></td></tr>
<tr><td>Group Task 2</td><td>15</td><td></td><td></td><td></td><td>√</td><td></td></tr>
<tr><td>FinalSem test</td><td>25</td><td></td><td></td><td></td><td>√</td><td>√</td></tr>
<tr><td>Total</td><td>100</td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
</td></tr>
<tr><td>Reading List</td><td>

Al Naqvi. Artificial Intelligence for Audtt, Forensic Accounting, and Valuation, 2020, John Wiley & Sons, Inc.
Greg Gogolin, Digital Forensics Explained, 2013, Eidis 1, CRC Press
Hall, A. James and Singleton, Tommie, Information Technology Auditing, 3thedition, Thompson Learning, September 2010.
Cascarino, E Richard, Auditor's Guide to Information Systems Auditing, John Wiley and Sons, March 2007
Hunton, E. James, Core Concept of Information Technology Auditing, 1sted., John Wiley & Sons, 2004
Mardhani Riasetiawan, Audit & Kontrol TI, DraftBook 2015

</td></tr>
</table>

Created date : June 28, 2022

Revision date : June 28, 2022