IT-Forensik

every

(engl. IT-Forensics)

Modulnummer: FIN-INF-110384

Kürzel	CP	Semester	Fachsem.	Dauer	Sprache	Niveau
IFOR	5	every	1.	1 Semester	deutsch	Bachelor

Link zum LSF:	LSF
Zugang beschränkt:	
Verantwortung:	Prof. Dr. Jana Dittmann
Dozent:in:	Prof. Dr. Jana Dittmann
Lehrveranstaltungen:	• Vorlesung *IT-Forensik* • Übung *IT-Forensik*
Verwendbarkeit:	- B.Sc. INF: Informatik - Wahlpflicht - B.Sc. INF: Studienprofil: Forensik Design - B.Sc. CV: Informatik - Wahlpflicht - B.Sc. INGINF: Informatik - Wahlpflicht - B.Sc. WIF: Gestalten und Anwenden - Wahlpflicht - B.Sc. INF (bilingual): Informatik - Wahlpflicht

Angestrebte Lernergebnisse:

The students ...

- are able to understand the requirements and possible solutions for an application example based on a selected technical issue relating to IT forensics
- understand and implement the process model of an IT forensic investigation
- can apply forensic methods and tools to an example
- can evaluate and assess the results of a forensic investigation
- can present the results in a presentation and take part in a discussion
- can recognize and reflect on challenges in teamwork
- can understand IT forensics as a strategic and operational task in an ICT system and design and apply selected mechanisms

Inhalt:

- Introduction and basics on selected technical issues relating to cyber security and IT forensic investigations:
- Data-centric procedure model with information, data and phases for IT forensic investigations,
- Application to selected examples
- Security objectives and design requirements in IT forensics
- Selected examples of evidence search, collection and evaluation according to best practices
- Basics for the preparation, documentation and presentation of investigation results
- Repetition: basics of teamwork, lecture is project-oriented

Arbeitsaufwand:
150h = 56h attendance + 94h independent work

Prüfungsvorleistungen:	**Studien-/Prüfungsleistungen:**	**Lehrform / SWS:**
	Report • The report comprises an independent and in-depth written examination of a question from the context of the course, including and targeted critical evaluation of relevant literature, as well as the presentation of one's own work, also in comparison in a team, and the communication and evaluation of one's own results in an oral presentation and in the subsequent discussion in the team. • The work must be submitted in writing.	• Lecture (2 SWS) • Exercise (2 SWS)

Voraussetzungen nach Prüfungsordnung:	**Empfohlene Voraussetzungen:**

none	• Grundlagen Algorithmen und Datenstrukturen, • Grundlagen der theoretischen Informatik, • Grundlagen der technischen Informatik, • Sichere Systeme

Medienformen:	**Literatur:**

Hinweise:

https://omen.cs.uni-magdeburg.de/itiamsl/deutsch/lehre/index.html

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