

Module Handbook

TUK MODHB Homepage

Module INF-02-22-M-2

Computer Science and Society (M, 3.0 LP)

Module Identification

Module Number	Module Name	CP (Effort)
INF-02-22-M-2	<i>Computer Science and Society</i>	3.0 CP (90 h)

Basedata

CP, Effort	3.0 CP = 90 h
Position of the semester	1 Sem. in WiSe
Level	[2] Bachelor (Fundamentals)
Language	[DE] German
Module Manager	Zweig, Katharina, Prof. Dr. (PROF DEPT: INF)
Lecturers	Zweig, Katharina, Prof. Dr. (PROF DEPT: INF) Steitz, Michael, Dr. (EXT DEPT: INF)
Area of study	[INF-PFL] Mandatory Modules
Reference course of study	[INF-82.79-SG] B.Sc. Computer Science
Lifecycle-State	[NORM] Active

Courses

Type/SWS	Course Number	Choice in Module-Part	SL	PL	CP	Sem.
2V	INF-02-22-K-2	P	-	no	3.0	WiSe

- About [INF-02-22-K-2]: Title: "Computer Science and Society"; Presence-Time: 28 h; Self-Study: 62 h

Evaluation of grades

The module is not graded (only study achievements)..

Contents

From [INF-02-22-K-2] Computer Science and Society:

- Basic concepts in the areas of data protection, intellectual property (UrhG, PatG) / Open Culture, computer criminal law, liability
- Interactions between information technology and society in the past and present, opportunities and risks
- Professional ethics in information technology and responsible action in dealing with information technology systems

Competencies / intended learning achievements

The students

- have basic legal knowledge and legal awareness in dealing with IT systems and in particular data to be protected. They can analyse the influence of legal conditions on information systems,
- know the mutual influence of information technology and society and recognise the resulting responsibility of information technology. They can recognise and evaluate potential changes in social values caused by information systems,
- can name reasons for professional ethics and analyse and evaluate professional ethical dilemmas.

Literature

From [INF-02-22-K-2] Computer Science and Society:

- M. Dusseldorp, R. Beecroft (Hg.): Technikfolgen abschätzen lehren. Bildungspotenziale transdisziplinärer Methoden; Wiesbaden, 2012.
- J. Friedrich und andere: Informatik und Gesellschaft, Spektrum, 1994.
- I. Geis und M. Helfrich, Datenschutzrecht, 8. Aufl. München: dtv Verlagsgesellschaft, 2012.
- A. Grunwald: Technikfolgenabschätzung; Berlin, 2010.
- M. Kelly und J. Bielby, Information Cultures in the Digital Age: A Festschrift in Honor of Rafael Capurro, 1st ed. 2016. New York, NY: Springer VS, 2016.
- C. Könneker: Unsere digitale Zukunft: In welcher Welt wollen wir leben? Springer, 2017.
- C. Kucklick: Die granulare Gesellschaft: Wie das Digitale unsere Wirklichkeit auflöst. Berlin: Ullstein Taschenbuch, 2016.
- M. Noorman, "Computing and Moral Responsibility", in The Stanford Encyclopedia of Philosophy, Winter 2016., E. N. Zalta, Hrsg. Metaphysics Research Lab, Stanford University, 2016.
- G. Stamatellos: Computer Ethics. A global perspective, Sudbury, 2007.
- J. Sullins, "Information Technology and Moral Values", in The Stanford Encyclopedia of Philosophy, Spring 2016., E. N. Zalta, Hrsg. Metaphysics Research Lab, Stanford University, 2016.
- R. Thomason, "Logic and Artificial Intelligence", in The Stanford Encyclopedia of Philosophy, Winter 2016., E. N. Zalta, Hrsg. Metaphysics Research Lab, Stanford University, 2016.
- J. Weizenbaum: Macht der Computer - Ohnmacht der Vernunft, 2000.
- R. V. Yampolskiy, Artificial Superintelligence: A Futuristic Approach, 2015 edition. Boca Raton: Chapman and Hall/CRC, 2015.

Requirements for attendance of the module (informal)

None

Requirements for attendance of the module (formal)

None

References to Module / Module Number [INF-02-22-M-2]

Course of Study

[INF-82.79-SG] B.Sc. Computer Science

Section[Compulsory Modules]
Interdisciplinary Qualification**Choice/Obligation**

[P] Compulsory