

Modulbeschreibung

Unix for Software Developers

Module numbers:	30.2554 [PVL 30.2555]
Language:	english
Study programme:	Bachelor KMI 2024/2021 - Wahlpflichtkatalog I Bachelor 2021 - Wahlpflichtkatalog I Bachelor dual KITS 2021 - Wahlpflichtkatalog I Bachelor dual KoSI 2021 - Wahlpflichtkatalog I Bachelor 2014 - Katalog I: Anwendungs- und systemorientierte Module Bachelor KMI 2014 - Katalog I: Anwendungs- und systemorientierte Module Bachelor dual KoSI 2014 - Katalog I: Anwendungs- und systemorientierte Module Bachelor 2007/2004/2002/99 - Wahlpflichtfächer aus dem Informatikbereich Bachelor 2007 - Vertiefung AE: Application Engineering Bachelor 2007 - Vertiefung TI: Technische Informatik KoSI 2007/2004/2003/2002/99 - Wahlpflichtfächer aus dem Informatikbereich KoSI 2007 - Vertiefung AE: Application Engineering KoSI 2007 - Vertiefung TI: Technische Informatik
Type of course:	V+P = Lecture+Practical
Weekly hours:	2+2
Credit Points:	5
Exam:	written exam
PVL (e.g. Practical):	not graded (Successful participation in the lab exams)
Required knowledge:	Basic knowledge in programming and operating systems courses (Bachelors)
Learning objectives:	The students should • understand concepts, terms and correlations about software development in the Unix environment and related systems (including Linux). • work with Unix and be able to solve software development tasks. • learn to administer Unix systems. • Get to know the capabilities of different Unix tools and be able to use these tools on their own.
Content:	• Overview of Unix • Linux file systems and process concept • Commands and system administration tools • Shell and shell programming • terminal administration • system programming in Unix • Security aspects of current Linux distributions • Selected topics for current Linux distributions
Literature:	• W.R. Stevens; Advanced Programming in the UNIX Environment; W.R. Stevens; Addison-Wesley; 2005 • Bolsky/Korn; Die KornShell; Hanser; 1991 • J. Christ; TerminalBuch vi; Oldenbourg; 1989 • T. Klein; Buffer Overflows und Format-String Schwachstellen; dpunkt.verlag; 2003
Lecture style / Teaching aids:	Lecture notes
Responsibility:	Benedict Reuschling