

Course title	Code	semester	T+U	credit	ECTS
Successful Computing		8	3+0	3	4
Prerequisite Courses	None				
Language of the Course	English				
Course Level	Undergraduate				
Type of Course	Optional				
Course Coordinator					
Instructors					
Course Assistants					
The aim of lesson	To provide basic information about the design, implementation and management of high performance computing systems.				
Course Content	Introduction of Grid and Grid technologies, programming models and parallelization techniques, message passing, Network security infrastructure Resource management and scheduling in grids Installing Grid, deploying Grid software and tools, and running applications				
Course Learning Outcomes					
Weeks	Topics				
one	Introduction to Grid Computing				
2	Scalability and Heterogeneity				
3	Open Standards and Architectures				
4	Applications of Grid Architecture				
5	Resource Discovery and Information Services				
6	Web Services				
7	Grid Security Concept				
8	Virtual Organizations				
9	Security in Application				
10	Business Planning and Management - Theoretical				
11th	Business Planning and Management – Practical				
12	Workflow Management				
13	Data Access, Integration and Management				
14	Data transfer				
15	Peer-to-Peer Communication				
General Competencies					
resources					
The Grid - Core Technologies by Maozhen Li, Mark Baker, John Wiley & Sons; 2005, ISBN 0-470-09417-6					
Evaluation System					
The dates, days and hours of the Midterm Exam, Quiz, Final Exam and Evaluations will be announced later, according to the decision of the Faculty Administrative Board.					

