COURSE INFORMATION					
Course Title	*Code*	*Semester*	*L+P Hour*	*Credits*	*ECTS*
ADVANCED TOPICS IN INFORMATION SYSTEMS ENGINEERING	CSE644		3	3	10

Prerequisites	

Language of Instruction	English
Course Level	Doctoral Degree
Course Type	Elective
Course Coordinator	
Instructors	TBA
Assistants	
Goals	Students will gain knowledge and experience in contemporary advanced topics in their area of doctoral dissertation research.
Content	Supervised study in the specific area in which the student will conduct research within the broad area of information systems engineering.

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Course Learning Outcomes	Program Learning Outcomes	Teaching Methods	Assessment Methods
Ability to identify advanced research problems in the dissertation area	2,3,4,6,8,9,10	1,2	A,B
Ability to identify appropriate research methods geared towards tackling relevant research problems	3,4,6	1,2	A,B

Teaching Methods:	1: Question-Answer, 2: Discussion of advanced research papers
Assessment Methods:	A: oral discussion, B: interim research reports

COURSE CONTENT		
Week	**Topics**	**Study Materials**
1	Review of fundamentals of Information Systems Research	Relevant contemporary and classical literature

2	Review and agreement on the contemporary agenda for IS research	Relevant contemporary and classical literature
3-13	Readings, discussions and written as well as oral presentation of research review reports	Contemporary literature

RECOMMENDED SOURCES	
Textbook	
Additional Resources	Classical as well as contemporary literature on information systems

MATERIAL SHARING
Documents:
Assignments
Exams

ASSESSMENT		
IN-TERM STUDIES	**NUMBER**	**PERCENTAGE**
Interim research reports	3-4	50
Final report	1	50
Total		**100**
CONTRIBUTION OF FINAL EXAMINATION TO OVERALL GRADE		50
CONTRIBUTION OF IN-TERM STUDIES TO OVERALL GRADE		50
Total		**100**

COURSE CATEGORY	Expertise/Field Courses

COURSE'S CONTRIBUTION TO PROGRAM						
No	Program Learning Outcomes	Contribution				
		1	2	3	4	5
1	Ability to understand and use basic sciences, mathematics and engineering sciences in a high level.					

No	Description				
2	Possession of wide and deep knowledge in the field of Computer Science and Engineering, including the latest developments.				X
3	Ability to reach the new information in the field of Computer Science and Engineering and having high-level competence in necessary methods and skills to make the research by apprehending the new information.				X
4	Ability to bring an innovation that provides different initiatives to the field of Computer Engineering; develop a new approach, method, design, application or apply a present method in a different field.				X
5	Ability to perceive an original research process independently, and design, implement, conclude and lead the process.				
6	Ability to contribute to the literature by publishing the whole scientific research and development efforts he/she has carried out in the field of expertise.				X
7	Ability to comprehend scientific, technological, social and cultural developments, and convey them to society with scientific impartiality and ethical responsibility.				
8	Ability to do critical analysis, synthesis and evaluation of ideas and developments in the field of Computer Engineering.				X
9	Ability to communicate effectively in oral and written ways with the employees in the area of Computer Engineering and wider scientific and social communities, to communicate and discuss in advanced level of written, oral and visual ways by using a foreign language in at least European Language Portfolio C1 General Level.				X
10	Ability to evaluate scientific, technological, social and cultural developments and to transmit these developments to society with scientific objectivity and a sense of ethic responsibility.			X	

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
Activities	Quantity	Duration (Hour)	Total Workload (Hour)
Course Duration (Excluding the exam weeks: 13x Total course hours)	11	3	33
Hours for off-the-classroom study (literature search, review, paper writing)	15	13	195
Four paper presentations	4	3	12
Total Work Load			240
Total Work Load / 25 (h)			9,6
ECTS Credit of the Course			10