Course Title	Special Topics in Computer Science					
Course Code	CSC720					
Course Type	Compulsory					
Level	Doctorate (3 <sup>rd</sup> Cycle)					
Year / Semester	1 <sup>st</sup> year, 1 <sup>st</sup> semester					
Teacher's Name	Any faculty member					
ECTS	10	Lectures / v	veek	3 hours / 14 weeks	Laboratories / week	N/A
Course Purpose and Objectives	Following the special interests of potential candidates, a project will be given in an area related to the student's research topic such as: Software Engineering, Algorithms and Complexity, Computer Networks, Imaging Processing, Artificial Intelligence, and Computer Architecture. Alternative projects in interdisciplinary topics may also be allocated. The students will investigate contemporary research and trends in the relevant fields. Details of the project aim and objectives will be communicated to candidates upon selection of their field of interest.					
Learning Outcomes	<ul> <li>Upon successful completion of this course students should be able to:</li> <li>Have a 'state of the art' knowledge of the contemporary trends and research directions in the chosen field.</li> <li>Analyze, integrate and synthesize different views into problem formulations that can be addressed with robust research methodologies.</li> <li>Draw conclusions on implications of research results on the further development of the discipline under study.</li> <li>Construct and convincingly present acquired knowledge to scholars and experts.</li> </ul>					
Prerequisites	None		Co-re	equisites	None	
Course Content	The course is designed to provide the opportunity to study, examine and analyse research concerning contemporary trends and topics in the field of Computer Science and applications of Computer Science in other Sciences. The content of the course will not be the same every time the course is offered but, accordingly, it will focus on contemporary approaches and developments in Computer Science based on participants' research interests. Following the special interests of potential candidates, a project will be given in an area related to the student's research topic such as:					

	Software Engineering, Algorit Networks, Communication netw Mining, Imaging Processing, Architecture, and Parallel and dis	thms and Complexity, Computer orks, Databases management, Data Artificial Intelligence, Computer stributed systems.			
	Alternative projects in interdisciplinary topics may also be allocated. The students will investigate contemporary research and trends in the relevant fields. Details of the project aim and objectives will be communicated to candidates upon selection of their field of interest.				
Teaching Methodology	Face- to- face				
Bibliography	Textbooks: Suitable up to date textbooks will be recommended in each of the specialization areas. Journal and research articles will be used to address trends and implications on further development of the respective fields				
Assessment	Class Participation and Attendance Project/Assignments Examination	10% 40% 50% 100%			
Language	English				