MGA 678 Computer Supported Collaborative Work (5 ECTS, 135h), fall 2019 (17 weeks)

Instructor: Dr. Panagiotis Kosmas – pk.kosmas@idmaster.eu

Contact Details: Special online “office hours” will be set up for group and individual mentoring and those will be conducted through google hangout/chat. Otherwise, you can also send your requests/questions regarding this course to pk.kosmas@idmaster.eu

Course objectives:
The goal of this course is to provide the students with the theoretical knowledge and practical skills on understanding the social, cultural and organizational context of technologies, knowledge and skills that will help in the design and re-design of technologies for learning purposes. The focus of this course will be the Computer Supported Collaborative Learning (CSCL). Students will be working on the investigation of how we can design applications/technologies/devices to be implemented or used in different collaborative learning settings.

Course content: Introduction; CSCW meaning: Computer Supported Collaborative Learning (CSCL), Collaboration, Participation & Communication; Collaborative Learning Theories: Vygotsky’s sociocultural theory; Characteristics of Collaborative Learning; Case Studies & Application Areas: Mobile Technologies, VR Technologies, Embodied Learning technologies.

Learning Outcomes:
Upon successful completion of the course, students will be able to:
(a) Understand the meaning of Collaborative Learning
(b) Understand the broad ideas and issues related to collaboration using technology
(c) Explore the added value of the technology in Collaborative Learning environments
(d) Observe and understand group behavior, culture and dynamics
(e) Clarify the relationship between Interaction Design and Learning
(f) Employ specific research methods to understand the strengths or challenges of collaborative learning
(g) Identify specific factors that may influence the success of a system for collaborative learning
(h) Practice experimental fieldwork to assess the appropriateness of particular technologies in a given setting/context

Workload: In order to successfully conclude this course, students are required to do both individual and group-based activities. Theoretical topics are presented as short modules through google classroom and other forms of synchronous and asynchronous communication. Work is divided into three parts: work on individual assignments (approximately 20 hours), work on literature (approximately 35 hours), work on group project (approximately 60 hours), and participation and reflection (20 hours).
Assessment: The exam grade consists of the following components: individual assignments (30%), group project assignment (60%), and overall participation (10%). Final mark will be on a 0-10 scale in increments of 0.5 points. Passing grade is 5 out of 10.

Expected individual work activities: It is possible to receive 30 points for two individual assignments (15 points each) and will be based on the readings.

- Individual Assignment 1: CSCW and CSCL: Similarities – differences - possibilities
- Individual Assignment 2: Interaction Design in CSCL

Expected group work activities:
It is possible to receive 60 points for the group assignments.
The group project is structured in four parts.
- Group Assignment – Part I: a design plan /identify the design problem (max 10 points)
- Group Assignment – Part II: Analyze a collaborative practice and the use of collaborative technologies – review of previous studies. (max 10 points)
- Group Assignment – Part III: A conceptual design of a collaborative technology (max 20 points)
- Group Assignment – Part IV: final report and presentation (max 10 points)
- Peer evaluation (max 10 points)

If students have contributed a significantly different amount of time to the group project the instructor may raise or lower the points.

Late submissions are NOT accepted. Please be on time with your assignments!

Assessment criteria: Grades will be based on these criteria:
91–100% of the work is done — excellent: outstanding work with only few minor errors.
81–90% of the work is done — very good: above average work but with some minor errors.
71–80% of the work is done — good: generally good work with a number of notable errors.
61–70% of the work is done — satisfactory: reasonable work but with significant shortcomings.
50–60% of the work is done — sufficient: passable performance meeting the minimum criteria.
49% or less of the work is done — fail: more work is required before the credit can be awarded.

Technology needed to perform this course: Basic knowledge of computers and use of Google Applications.

Synchronous activities: The delivery of the course will be primarily asynchronous with discussions taking place mainly through the google classroom platform. In addition though, there will be set times for short synchronous sessions (either text chat or voice chat through google hangouts). In each session we will discuss acquired knowledge, provide feedback and/or mentor students. The times and days of these synchronous sessions will be decided and announced early in the semester.
<table>
<thead>
<tr>
<th>Sessions</th>
<th>Topic/Materials</th>
<th>Tasks/Assignments</th>
<th>Technology</th>
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<tbody>
<tr>
<td><strong>Session 1:</strong></td>
<td>Induction session: Getting familiar with the course environments and technologies</td>
<td>Assignments: 1. Read course Pedagogical script 2. Explore course Resources</td>
<td>Google applications</td>
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<tr>
<td>(21/08 - 03/09)</td>
<td>Material: Course pedagogical script</td>
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<td><strong>Session 2:</strong></td>
<td>Introduction to CSCW and CSCL</td>
<td>The main aims of this session are to:</td>
<td>Google Hangout and classroom</td>
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- Explain the difference between CSCW and CSCL  
- Identify the basic characteristics of both research areas  
- Outline the different forms of collaboration for learning purposes |                             |
| **Session 3:**| Major themes and theories in CSCL                                               | Read the resources on google classroom                                           | Google Hangout and classroom|
| Session 4: (02/10 - 15/10) | Interaction Design in CSCL  
| Material:  
2. Resources on google classroom  
| The role of Interaction Design in CSCL  
Designing for CSCL environments  
Examples  
| Individual Assignment 2  
(due on 12/10)  
| Google Hangout and classroom |
| Session 5: (16/10 - 29/10) | Case Studies and Application Areas I  
| Material:  
| Previous work in the area  
Successful examples  
Implementation of ID for different CSCL environments  
Authentic and non-authentic CSCL environments  
| Group Assignment – Part II  
(due on 27/10)  
| Google Hangout and classroom |
| Reflection Week: (30/10 - 05/11) | Reading and Reflection Week  
Individual and Group mentoring  
| | Google Hangout and classroom |
| Session 6: (06/11 - 19/11) | Case Studies and Application Areas II  
**Material:**  
3. Resources on google classroom  
**Group Assignment – Part III (due on 17/11)**  
- Previous work in the area  
- Successful examples  
- Implementation of ID for different CSCL environments  
- Authentic and non-authentic CSCL environments  
| Google Hangout and classroom |
| Session 7: (20/11 - 03/12) | Collaborative Learning environments with technology  
**Material:** Resources on google classroom  
**Group Assignment – Part IV (due on 09/12)**  
- Possibilities for further research  
- Future directions  
- The added value of technological applications for CSCL  
| Google Hangout and classroom |
| Session 8: (04/12 - 17/12) | Presentation of the final projects  
**Group project presentations**  
| Google presentation and documents |
References – Readings


