



## COMPETENCES IN DIGITAL KNOWLEDGE

<b>Title of the course</b>	<b>Innovative Collaborative Learning with ICT</b>
<b>ECTS</b>	<b>2,5</b>
<b>Description</b>	<p>Designing and implementing collaborative learning with ICT is a challenge for pre-service teachers in face to face and online contexts. It requires a good understanding of social learning and hands on experience with relevant collaborative learning practices and ICT tools. This course targets primary and secondary pre-service school teachers who are interested in learning how to design and implement collaborative learning activities with the use of ICT as part of their everyday practice.</p>
<b>Learning outcomes</b>	<p>The students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand the key elements of the digital culture: the networking, working and learning through virtual communities of practice, the new media, the open educational resources as well as the multiple literacies.</li> <li>• Know and apply well-known strategies for structuring Collaborative Learning situations.</li> <li>• Design “non-trivial” Collaborative Learning situations with the help of purpose-specific ICT tools.             <ul style="list-style-type: none"> <li>• Beyond the use of a discussion forum or the collaborative writing of reports)</li> <li>• Design support tool: INTEGRATED LEARNING DESIGN ENVIRONMENT (ILDE)</li> </ul> </li> <li>• Implement (and test) Collaborative Learning situations using existing ICT tools             <ul style="list-style-type: none"> <li>• Virtual Learning Environments (e.g., Moodle)</li> <li>• Web 2.0 tools (e.g., Google Drive)</li> </ul> </li> <li>• Reflect and discuss about the barriers and emerging problems that arise when trying to apply Collaborative Learning strategies using ICT tools.</li> </ul>
<b>Contents</b>	<ol style="list-style-type: none"> <li>1. • Introduction to collaborative learning</li> <li>2. • Benefits and problems of collaborative learning</li> <li>3. • Planning for “good” collaborative interactions</li> <li>4. • Designing collaborative learning</li> <li>5. • Structuring collaborative learning flow with patterns</li> <li>6. • Collaborative Learning and ICT for students</li> <li>7. • Collaboration and ICT for teachers</li> <li>8. • Designing and implementing collaborative learning with ICT using ILDE</li> </ol>
<b>Methodology</b>	<ul style="list-style-type: none"> <li>• Presence learning-Lectures: theoretical lessons held by teachers who will use different learning materials (presentations, articles, videos, multimedia).</li> </ul>



	<ul style="list-style-type: none"><li>• Hands on projects and practical lessons: a block of hours will be devote to a specific topic (sub-module), at the end of which students will be assigned collaborative or individual activities and to be performed over a certain period of time. Finally, their problem-solving results will be submitted to the other students and discuss. Peer-to peer activities will also be included.</li></ul>
<b>Evaluation</b>	Lesson plan integrating all the eight key competences. Written in English, a maximum of 5000 words. Public exposition and debate.
<b>Bibliography</b>	<p>Barkley, E., Major, C. H., &amp; Cross, K. (2008). <i>Collaborative Learning Techniques</i>. New York: Jossey Bass.</p> <p>European Union (2017). <i>European Framework for the digital Competence of Educators</i>. DigCompEdu. Retrieved from : <a href="https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/european-framework-digital-competence-educators-digcompedu">https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/european-framework-digital-competence-educators-digcompedu</a></p> <p>Gillies, R. M., &amp; Boyle, M. (2010). Teachers' reflections on cooperative learning: Issues of implementation. <i>Teaching and teacher Education</i>, 26(4), 933-940.</p> <p>Unesco (2012). <i>ICT in primary education: exploring the origins, settings and initiatives</i>. Retrieved from <a href="http://iite.unesco.org/pics/publications/en/files/3214707.pdf">http://iite.unesco.org/pics/publications/en/files/3214707.pdf</a></p>