

<b>Module Code:</b>	RECE9401	<b>Mark Allocation:</b>	100%
<b>Course Title:</b>	Masters in Construction Informatics	<b>Lecturer:</b>	Matevž Dolenc
<b>Year:</b>	1	<b>Semester:</b>	1
<b>Module:</b>	Computer Mediated Construction	<b>Project Title:</b>	Online technologies for Construction SMEs

### **Module Aim**

This module will introduce the field of Construction Informatics and its role in the architecture, engineering and construction (AEC) sector. To provide a broad and sound conceptual framework for construction informatics, its role, classification of its topics, and core knowledge on the three main areas: computation, information representation and interpersonal communication.

### **Learning Outcomes**

On successful completion of the module, the students will be able to:

- Define the role of informatics in society in general and in AEC in particular.
- Describe the strategic importance on the informatisation of the AEC sector.
- Explain the potentials of construction informatics in general and of various specific application areas.
- Discuss critically the specific problems of construction informatics.
- Understanding of current and future information-communication technologies in relation to AEC.

### **Project Requirements**

Elementary knowledge on computer science and use of computers, internet access, etc.

## **Marking Scheme**

Project proposal (10 %) – Problem/project nature selection, complexity of the proposal and relevancy to module

Presentation (15 %) – Coherence, style and presentation content, shown ability to present and communicate issues

Project report (75 %) – The use of technical terminology, literature, organization, style

## **Project Duration/Submission Date Details**

Week 0 – Project definition / Discussion

Week 1 – Submission of project proposals for approval / Live online presentation

Week 4 – Live online presentation of the work in progress (presentation + video)

Week 4 + a month – Submission of the final project report (4000-5000 words)

## **Guidelines for the Submission of Project Work**

Students should pick one from the following list of projects:

- Document sharing.
- Collaborative Document editing.
- Sharing news about the progress of the site using RSS or related technologies.
- Collaborative Office solutions, web based calendars and project planning.
- Modelling building using BIM.
- Computing environments: HPC and HTC, using cloud computing technologies.
- ...

The result is a presentation (presented as well as handed out) that would convince a boss of a SME company to use this technology. In the role of the audience, the students must play the boss, devil's advocate, co-workers in that company. In addition to this industrial case, the presentation must establish a connection between lecture topics and the technology explored.

Module Leader: Matevž Dolenc

Date: Sept 2016