

ANNEX 2
UNI-TEL e-course: Draft syllabus and questions concerning the material production process

Code of the topic M4-6	Name of the topic Cooperation and engagement of students in science and engineering education	
Names of subject experts		Email
First name	Surname	
Ali Akbar	Safavi	Safavi@shirazu.ac.ir
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Learning objectives <ul style="list-style-type: none"> - Objective 1: Learners will be introduced to flipped learning in science and engineering education. - Objective 2: Learners will be introduced to cooperative learning as an instructional model in science and engineering education. - Objective 3: Learners will understand project-based learning as a strategy for students' engagement in science and engineering education. - Objective 4: Learners will understand problem-based learning as a strategy for students' engagement in science and engineering education. - Objective 5: Learners get an overview of how we can use team-based learning as a strategy for students' engagement in science and engineering education. - Objective 6: Learners get an overview of how we can use game-based learning as a strategy for students' engagement in science and engineering education. - Objective 7: Learners will be able to analyse how all the above strategies can be invoked in Iranian science and engineering education as a case study. 		
Content of the topic: <ul style="list-style-type: none"> - Flipped learning - Cooperative learning as an instructional model in science and engineering education - Project-based learning as a learning and teaching strategy in science and engineering education - Problem-based learning as a learning and teaching strategy in science and engineering education - Team-based learning as a learning and teaching strategy in science and engineering education - Game-based learning as a learning and teaching strategy in science and engineering education - Real experiences: a case study with various combinations 		
Evaluation methods and criteria <ul style="list-style-type: none"> - Evaluation and assessment of learners' knowledge will be measured immediately after the end of the course via various approaches. - Audiences will share the other strategies for effectively engaging the students in engineering. 		



Questions at this point of the process?

Note: add the names of subject experts also in GoogleDrive:

<https://drive.google.com/drive/u/1/folders/1Hgmec15bL0vKGill2y01SjioH0ysq77b>