

Project “Activating Students in Online Classes”

2020-1-PL01-KA226-HE-096358

TEMPLATE FOR DEMO SCENARIOS IN USING THE FLIPPED CLASSROOM APPROACH

The demo scenarios for “good practice” in the e-distance or online learning (EDL), which is based on the flipped approach, depends on some key factors:

- The readiness / skills of a teacher to present the learning content in an attractive way (directly during the training, although in an IT-mediated environment or through a video recording of a lecture / exercise / seminar).
- The applied by the teacher training methodology (considering both the specifics of the discipline and the specifics of the virtual environment for online learning process).
- Structure and content of the e-course, available through Learning Management System (LMS).
- LMS functionality / specifics.

Based on this understanding of flipped methodology, respective guidance, and cited best practices, the following template for developing of demo scenarios is proposed:

1. Demo scenario title (thematic area, name of the course).

2. Year of the beginning of implementation.

3. Substantial description.

3.1 Reasons to decide to use and apply a flipped methodology

- Developing independent students’ thinking.
- Developing students’ critical thinking.
- Increasing their capacity for solving problems.
- Improving communication with students.
- Increasing interest to the given course.
- Applying knowledge in practice.
- Providing more time for active learning activities.
- Developing spirit of cooperation among students.
- Restructuring the course.
- etc.



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3.2. Support materials or assignments for the pre-class activities (video lectures, presentation, short texts, questions, etc.)?

Each demo scenario be required to contain a minimum of five professional video lectures and presentations.

3.3. Activities during the class (Q&A session, discussions on the students’ homework and their responses to the questions, small tests, etc.)?

Each demo scenario be required to contain a minimum of five in-class activities.

3.4. Post-class activities during the class (Q&A session, discussions on the students’ homework and their responses to the questions, small tests, etc.)?

Each demo scenario be required to contain a minimum of five post-class activities.

4. Innovative teaching methods used within the flipped classroom.

4.1. *Each demo scenario be required to demonstrate innovative methods.*

- Recording presentation with voice recorded or mini-lectures in video format. A *minimum of five* professional video mini-lectures be required to be uploaded (assuring easy access for students).
- All the materials be required to be available online.
- For all demo scenarios, be required to demonstrate division of students into small groups for online discussion.
- For all demo scenarios, be required to demonstrate interactive concept map for each chapter of the curriculum.
- E-tests for starting and ending a class are very welcome.
- Other methods such as: quizzes, questionnaires, short writing assignments to hold students accountable, more discussions, etc. are very welcome
- Replacement of traditional exam by some new forms (combination of in-class and out-of-class online assignments; questionnaires; short extracurricular writing tasks, etc) are very welcome.

5. Online tools used within the flipped classroom.

5.1 Each demo scenario be required to demonstrate a minimum of one online Learning Management System (LMS) such as Microsoft Teams, Moodle, etc.

5.2 Other online learning platforms such as:

- Prezi software (www.prezi.com).

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- Screenr (www.screenr.com)
- Coggle.it (<https://coggle.it>)
- Mindmup (<https://www.mindmup.com>),
- Kahoot (<https://kahoot.com>),
- etc. (See table on p. 75 of the Flipped Methodology)

are very welcome

6. Impact on the outcomes of a particular group of students/teachers (individual teacher’s conclusions).

6.1. What are the teacher’s conclusions on using the flipped method in terms of its effects on students’ learning? (having more time in class to deepen the student understanding; more personal interaction with different students – more or less advanced; improved communication with students, etc.)

6.2. How the students’ opinions were collected – through quantitative questionnaire, focus groups, etc.?

7. Links to the website and any material related to this activity (visual, text, others).

8. Contact details (name, surname, position, institution, E-mail).







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SU Moodle course

URL: <https://elearn.uni-sofia.bg/course/view.php?id=65856>

Course content:




Topic 1: [Data science](#)

- [Video curriculum Page](#)
- [Exercise: Information theory Page](#)
- [Exercise: Types of data URL](#)
-  [Exercise: Clean & Integrate File](#) 17.6KB Excel 2007 spreadsheet
- [Q&A session in MS Teams URL](#)
- [Theoretical concepts in Databases](#)
- [Video curriculum Page](#)
-  [C.J. Date - An Introduction to Database Systems-Pearson \(2003\) File](#) 54.6MB PDF document
-  [Exercise: Data normalization File](#) 25KB Excel 2007 spreadsheet
-  [Exercise: Data Normalization 2 File](#) 23.5KB Excel 2007 spreadsheet
- [Solutions Page](#)
- [Exercise: Car Hire Queries URL](#)
- [Q&A session in MS Teams URL](#)

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Topic 2: ☒ [Applications in MS Access](#)

- [Video curriculum Page](#)
- [Exercise: Create database Page](#)
- [Exercise: Create a database 2 Page](#)
-  [brokerage.accdb File 1MB application/msaccess](#)
- [Exercise: Data relations Page](#)
- [Exercise: MS Access Queries Page](#)
- [Solutions Page](#)
- [Exercise: MS Access queries 2 Page](#)
-  [stores_clean.accdb File 896KB application/msaccess](#)
- [Exercise: Car Hire Queries 2 URL](#)
- [Exercise: MS Access Queries 2 Page](#)
- [Exercise: MS Access Queries 3 Page](#)
-  [stores_clean_tmp.accdb File 912KB application/msaccess](#)
- [Exercise: Dates in MS Access Page](#)
- [Exercise: MS Access Queries 4 Page](#)
- [Exercise: Crosstab Query Page](#)
- [Exercise: Crosstab Query 2 Page](#)
- [Exercise: Reports in MS Access Page](#)
- [Q&A session in MS Teams URL](#)



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Topic 3: ☒ [Applications in SQL](#)

- [Video curriculum Page](#)
-  [Exercise: Joins File](#) 488.4KB PDF document
- [Solutions URL](#)
-  [Exercise: SQLiteOnline.com File](#) 60KB
- [Exercise: Assignment for Where operator Page](#)
-  [Solutions File](#) 42.7KB Image (JPEG)
-  [Exercise: Tasks with GROUP BY File](#) 58.6KB Image (JPEG)
- [Q&A session in MS Teams](#)

