Fostering Students’ Decision Making at University of Maribor (Slovenia) with Authentic Situations Through Moodle’s H5P Activities

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2nd largest university in Slovenia

10% of foreigners

3rd degree (34)
2nd degree (64)
1st degree (81)

University of Maribor in Numbers

1.900 staff

humanistics
social sciences
natural sciences
technical sciences
medicine & health sciences

WHAT DESCRIBES US?

about 14,000 students
179 study programmes
17 faculties

PDAGOGICAL EXCELLENCE
HIGH STUDENT SATISFACTION
STUDENT PRACTICE
STUDENT DORMITORIES
EXTRACURRICULAR ACTIVITIES
UNIVERSITY LIBRARY
ERASMUS
DOCTORAL SCHOOL
TUTORING SYSTEM
DEMOLA PROJECT
RESEARCH EXCELLENCE
SUBSIDIZED STUDENT MEALS

UM @Formula Student competitions
the first Slovenian nanosatellite to fly into space
Based on situated learning.
The problem is often predefined in the predicted learning path.
The solution usually represents a certain “right” answer.
The teacher is in the role of a facilitator/mentor.
Bloom’s Taxonomy
The 3C model of branched scenarios (Kuhlmann, 2009).

1\textsuperscript{st} step: learner gets to consequence and proceed to a challenge.

2\textsuperscript{nd} step: consequence is a new challenge.

3\textsuperscript{rd} step: could continue to the next cycle.
Possibilities in Moodle

- H5P Interactive video
- H5P Branching Scenario
- Moodle Lesson
H5P Interactive Video

**Video recording:** file is stored in Moodle or hosted on YT.

**H5P Summary** to check the acquired knowledge while watching the video by selecting a correct statement.

Two main options for navigation:
1. **Navigation Hotspot ( )**: Field that redirects the participant to another location (e.g., a specific time in video, an external website).
2. **Crossroads ( )**: Decisive questions that guide participants to the chosen time point in the video.

**H5P activities/elements:**
- Text
- Table
- URL
- H5P Multiple Choice Set
- H5P Single Choice Set
- H5P Fill in the Blanks
- H5P Drag & Drops
- etc.

**Button with activity/element in video (e.g., link, text, quiz).**

**Bookmarks for navigation.**

**Navigation bar with elements in video clip.**

**Behavioural settings:** additional settings for buttons, video appearance etc.
Selection of appropriate aids at work (e.g., alcohol disinfectant, protective equipment, needle).
Knowledge of the procedure of blood collection and communication with the patient.
Conclusions

+ First-person experience in authentic examples
+ Learning by doing in a safe environment
+ Decision making and critical thinking
+ Instant feedback
+ Motivation with interaction

- Time consuming (despite H5P)
- Difficulty of preparation
- Topicality and maintenance
- Inadequacy for learning content
More About H5P

Examples & tutorials: h5p.org/content-types-and-applications

- Interactive Video
  Create videos enriched with interactions

- Course Presentation
  Create a presentation with interactive slides

- Branching Scenario
  Create dilemmas and self paced learning

Content Types

View all  Larger Resources  Other  Tasks

- Accordion
  Create vertically stacked expandable items

- Advent Calendar (b...)
  Create an advent calendar

- Agamotto
  Create a sequence of images that gradually

- AR Scavenger
  Augmented reality fun!

- Arithmetic Quiz
  Create time-based arithmetic quizzes
Thank you and welcome to Maribor!
Used Resources

- www.pixabay.com (graphic Manfred Steger)
- www.h5p.org
- www.sproutsschools.com
- Fijačko, N. (2019). Odzvem krvi (igrifikacija). Faculty of Health Sciences UM.