



Erasmus+

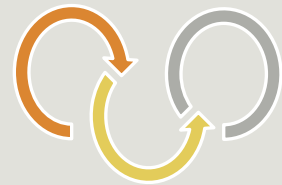
ARCHIMEDES

IMECC

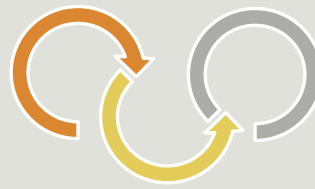
Innovative Manufacturing Engineering
Systems Competence Centre

New didactical approach in mechatronics vocational education – NEDIA, Virgo Rotenberg

***OUTPUT 03: LECTURE MATERIALS USING NEW
TEACHING METHODOLOGIES AND PILOT LECTURES***



NEDIA



Project intellectual outputs O3

Development of pilot teaching material

Tasks:

- 1. Selection of training methodology (every participating educational institution chooses the method according to which the pilot lecture-material will be compiled)**
- 2. Composition of pilot lecture materials using chosen new training method**



Project intellectual outputs O3

Development of pilot teaching
material

Lesson plan: [Lesson plan 30 12 15.docx](#)



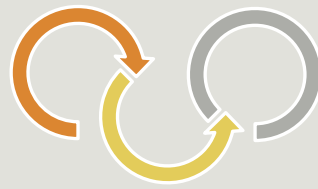
Project intellectual outputs O3



Pilot lectures

Tasks:

- 1. Every participating educational institution will give one open pilot lecture which includes the use of new training methods (in total, 3 lectures)**
- 2. Gathering feedback from students, other teachers, industry representatives etc**



Project intellectual outputs O3

Pilot lectures

Feedback: 1. [Questions about conducting the lesson.docx](#)

2.

[Latvia Feedback blank ENG.docx](#)



NEDIA

Project intellectual outputs O3

Latvian Pilot lecture

Lecture plan: [LessonplanLATVIA docx.docx](#)



NEDIA

Project intellectual outputs O3

Finland Pilot lecture

Lecture plan: [Lesson plan RASEKO.docx](#)



NEDIA

Project intellectual outputs O3

Estonian Pilot lecture

Lecture plan: [Lesson plan Estonia.docx](#)

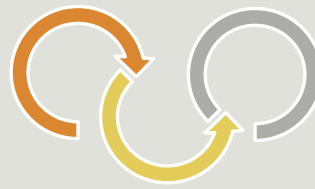


NEDIA

Project intellectual outputs O3

Estonian Pilot lecture

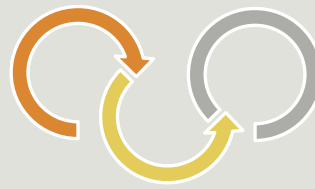
We used for developing the pilot lecture learning design model **ADDIE**. This model involves five stages: *analysis, design, development, implementation and evaluation*.



Project intellectual outputs O3

ADDIE model stages

analysis – involving the analysis of needs and contexts of the target group (learners);



Project intellectual outputs O3

ADDIE model stages

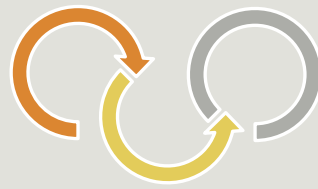
design – involves defining the learning objectives, choosing the types of media used, preparing the structure for the substance of the course and learning process plan or models;



Project intellectual outputs O3

ADDIE model stages

development – resulting in completed e-learning course, incl. whole set of teaching materials with instructions;



Project intellectual outputs O3

ADDIE model stages

implementation – this is the most decisive and, also, the most difficult part of the ADDIE model. In this stage, everything that has been done, will be implemented in real life, with real students;



Project intellectual outputs O3



ADDIE model stages

evaluation – a stage that is important for ensuring the quality of the course. More specifically, evaluation is not a single effort, but a process that will continue during the implementation of whole ADDIE model. It has been specified as the last stage only for giving final assessment to the course designed.



Project intellectual outputs O3



Main problems

The biggest problems to develop this kind of teaching material today are:

- **low IT level of our teachers**
- **lack of time**



NEDIA

Thank you