

EDUCODE NEWSLETTER 2

April 2019
E-Newsletter #2

INCREASING THE COMPETENCY OF COMPUTER SCIENCE
TEACHING UNDERGRADUATES ON CODING EDUCATION
2017-1-TR01-KA203-046578

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Introduction

Greetings from Educodes Team. We are proud to announce that we have entered the final stage of project implementation and the conclusion of the project is only 5 months away. While we are happy to be close to project finale, it is also a bittersweet happiness for us considering the remarkable moments we've had with the project team.

The past 12 months have been a fruitful for the project progression. We have successfully made the need analysis and developed the curriculum on coding education according to the findings of the analysis. Three transnational meetings have been held in Ireland, Slovenia and Croatia. Currently, the development of the teacher's handbook is about to be completed. What is ahead of us is pilot tests and multiplier events for promoting the project outcomes.

In the following sections of this newsletter, you will have a chance to have closer look at the meetings as well as the project outputs. We are looking forward to see you in multiplier events which will be held in İzmir, Maribor, Zagreb, Limerick and Ankara.

Follow us on <http://educodeproject.org/>

Educodes Team

The Three Transnational Meetings: Ireland, Slovenia and Croatia

Meeting in Ireland



The meeting has been held in Thurles, Ireland on 29-30 May 2019. The host of the meeting was Limerich Institute of Technology. The agenda of our second transnational meeting was examination of the results of the need analysis and structure and the scope of the curriculum.

Meeting in Slovenia

The venue of the third meeting has been University of Maribor, Maribor on 23-24 October 2018. Apart from project overview, budget management and timetable, the central focus of the meeting has been the content of the curriculum and handbook structure.



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Meeting in Croatia



The fourth and the final meeting of the project has been realized in Varazdin, Croatia. It has been held on 26-27 March 2019 and Zagreb University has been our host. The teacher's handbook

has been the central theme of the meeting. Issues regarding dissemination plan, updated timeline and multiplier events have been also discussed.

Bonus: Skype Meetings

Alongside the transnational meetings, regular Skype meetings have been done. These meetings have been our primary means of discussing the development of intellectual outputs. Project teams have shared their ideas regarding the outputs and summaries of these meetings, including new task distributions and decisions have been sent to all team members via email after the meetings.



Social Dinner @Varazdin 1

The Need Analysis

Reported by APEC, the report is the first deliverable, prepared in the scope of The EU funded Erasmus+ Key Action 2 – The Strategic Partnership project entitled "Increasing The Competency of Computer Science Teaching Undergraduates on Coding Education - EDUCODE", outlining the training needs of computer science teaching & STEM undergraduates who will teach coding in primary and secondary schools.

It is a combination of the survey research work undertaken to identify the needs of future ICT & STEM teachers related to the delivery of coding education in mainstream schools. The report features 7 chapters, each contributing to the aspect of identifying

- The content of "Coding Education Training for Computer Science & STEM Undergraduates"
- The work with respect to engagement with instructors (training providers), other beneficiaries and also STEM researchers
- The grounds and principles of the evaluation of the training activities



Click this [link](#) to view full report.

The Curriculum

A curriculum for coding education was prepared for the teaching practices of BIT / STEM undergraduate students studying at the partner universities in the EDUCODE project. The purpose of this program is to raise the awareness of BIT /STEM undergraduate students who are studying in the partner universities about the topic, emphasize the importance of coding education, and to show how to deliver coding education effectively, how to use educational materials and tools and how to evaluate the gain levels in the delivered education. Therefore, practical studies will take part during the training and how to prepare the sample lesson plans will be shared with the undergraduate students.

The Structure of the Curriculum

Unit 1-The importance of Coding Education and ICT /STEM Teachers

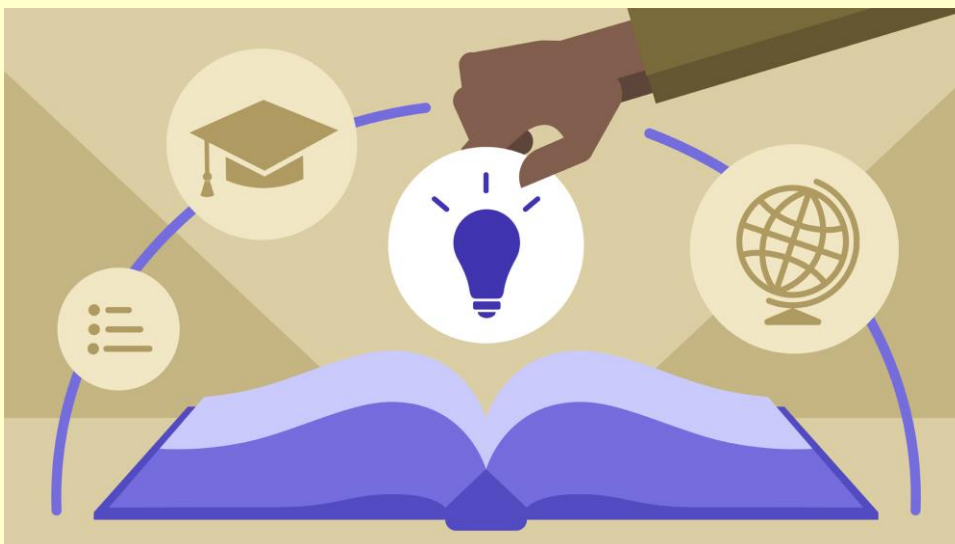
Unit 2-Teaching Materials and Tools of Coding Education

Unit 3-Teaching methods of Coding Education

Unit 4-Assessment of Coding Education

Unit 5-Design lesson plans for relevant coding topics

Unit 6-Applied Coding



Click this [link](#) to view draft version of the curriculum.

The Teacher's Handbook

The handbook will be guide book which helps lecturer to implement the curriculum developed by project in higher education lessons. The book will primarily provide pedagogical information and tips about kids learning, their learning motivators, learning style and involvement. It aims equip the ICT Teaching Students with skills and competencies regarding how to motivate students to learn coding, how to illustrate basics of computer science, how to make coding subject enjoyable and engaging for students. Currently, we are at the final stage of handbook development. The final version will be ready after the implementation of pilot test for the draft format. You will be able to access it on project website.

What is Next?

Educode Workshop @ İzmir, Turkey

Educode Workshop @ Maribor, Slovenia

Educode Workshop @ Varazdin, Croatia

Educode Workshop @ Ankara, Turkey

Educode Workshop @ Limerick, Ireland

The events will be held simultaneously in June, 2019.

