



Teacher Training (TT) Course Syllabus

Institution Name	Brest State Technical University (BrSTU)
TT Course Title	"Application of Active Learning in Computer Science"
Instructor(s) Name(s) Faculty and Department Position	Vladimir Golovko Electronic Information Systems / Intelligent Information Technologies Professor
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Phone number	+375(29) 726-76-51
Meeting Dates & Times Place/Room(s)	18-26 February, 2019 / 15:00-17:00 Building 2/Room 405
Workload	10 hours presented in 2 hours per day X 5 days of classroom work and 20 hours of individual work (1 ECTS Credit)
Course Purpose	The purpose of this teachers training (TT) course is to provide teachers with a knowledge about basic concept of the active learning and how to implement successfully methods of the active learning technology, focused on the enhanced collaborative learning, in the academic environment. Additionally, teachers will develop and improve their skills using computers.
Learning Outcomes (LOs):	Upon successful completion of this course, the trainees will be able to: <ul style="list-style-type: none"> • Gain an extensive experience of the applying methods of the active learning technology in the academic environment to modernize developed subject courses and to increase the level of the students education • Apply their understanding of the active learning concept through the developing of the own subject course • Demonstrate proficiency with presentation
Course methodology/Instructional Strategies	The training approach of the course consists of: <ul style="list-style-type: none"> • Lectures – instruction and theory on the subject matter • Small group exercises – adapting theory • Case studies – use of scenarios to exercise problem solving • Questions and answers – updating skills and knowledge • Workbook and laptop – to accompany learning sessions
Recommended Texts & Materials	Web-site of the PRINTeL courses in KU Leuven: https:// view/printel-kul/project-description

Basic Technical/Media Requirements	Laptop and internet connection
Quality Assurance (QA)	Online feedback survey of trainees and a brief QA report

Course Overview/Outline

Training Days	Key Topics	Learning Activities	Assignments
Day-1 18 Feb 2019 15:00-17:00 2B405	<ul style="list-style-type: none"> • Introduction to the active learning concept • Methods implemented in the active learning 	<ul style="list-style-type: none"> • Lecture (presentation) • Small group discussion 	<ul style="list-style-type: none"> • Individual assignment
Day-2 19 Feb 2019 15:00-17:00 2B 405	<ul style="list-style-type: none"> • Basis of studying based on the applying in the educational process of the information and communication technologies (Part 1) 	<ul style="list-style-type: none"> • Lecture (presentation) • Small group discussion • Implementation of the suggested exercise 	<ul style="list-style-type: none"> • Individual assignment
Day-3 20 Feb 2019 15:00-17:00 2B 405	<ul style="list-style-type: none"> • Basis of studying based on the applying in the educational process of the information and communication technologies (Part 2) 	<ul style="list-style-type: none"> • Lecture (presentation) • Small group discussion • Implementation of the suggested exercise 	<ul style="list-style-type: none"> • Individual assignment
Day-4 25 Feb 2019 15:00-17:00 2B 405	<ul style="list-style-type: none"> • Methodic support of the educational process based on applying of the information and communication technologies 	<ul style="list-style-type: none"> • Lecture (presentation) • Small group discussion • Implementation of the suggested exercise 	<ul style="list-style-type: none"> • Individual assignment
Day-5 26 Feb 2019 15:00-17:00 2B 405	<ul style="list-style-type: none"> • Discussion and final conclusions formulating 	<ul style="list-style-type: none"> • Small group discussion 	<ul style="list-style-type: none"> • Individual assignment

Topics for individual work:

- Lecturing and presenting in accordance with active learning concept (4 hours);
- Alternatives for lecturing (4 hours);
- Adapting material for classroom delivering in accordance with active learning concept (4 hours);
- Active learning activities (4 hours);
- Activities for large classes (4 hours).