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## Teacher Training (TT) Course Syllabus

<b>Institution Name</b>	<b>National Polytechnic University of Armenia (NPUA)</b>
<b>TT Course Title</b>	<b>“Active Learning: Getting Students to Work and Think in the Classroom”</b>
<b>Instructor(s) Name(s)</b>	Yeghisabet Alaverdyan
<b>Faculty and Department</b>	IICTE Institute, Department of “Information Security and Software Engineering”
<b>Position</b>	Associate Professor
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<b>Phone number</b>	(+374 93) 524-831
<b>Meeting Dates &amp; Times</b>	15.03.2019, 18.03.2019, 22.03.2019, 25.03.2019, 29.03.2019
<b>Place/Room(s)</b>	15 <sup>00</sup> -17 <sup>00</sup> <b>5106</b>
<b>Workload</b>	10 hours presented in 2 hours per day x 5 days of classroom work
<b>Course Purpose</b>	The purpose of this teacher training course is to provide teachers with a specific expertise in active learning methodologies along with information technology tools and software
<b>Learning Outcomes (LOs):</b>	Upon successful completion of this course, the trainees will be able to: <ul style="list-style-type: none"> <li>• Gain experience in changing in lectures</li> <li>• Develop specific expertise in questioning and discussion</li> <li>• Cultivate an understanding of cooperative learning</li> <li>• Demonstrate proficiency in role playing and case studying</li> </ul>
<b>Course methodology/ Instructional Strategies</b>	The training approach of the course consists of: <ul style="list-style-type: none"> <li>• Lectures – instruction and theory on Active learning methodology</li> <li>• Small group exercises – adapting theory</li> <li>• Case studies – use of scenarios to exercise problem solving</li> <li>• Questions and answers – updating skills and knowledge</li> <li>• Resources in the form of support documentation will be sent in an electronic format</li> <li>• Lectures are conducted using Power Point presentations</li> </ul>
<b>Recommended Texts &amp;</b>	<ul style="list-style-type: none"> <li>• Speaking of teaching, Stanford University Newsletter on Teaching fall 1993, Vol. 5, No. 1 (available in Pdf file).</li> </ul>

<b>Materials</b>	<ul style="list-style-type: none"> <li>• <b>MICHAEL PRINCE</b>, Does Active Learning Work? A Review of the Research, J. Engr Education, 93(3), 223-331, 2004 (available in Pdf file).</li> <li>• Creatively Speaking: Some Strategies for the Preparation and Delivery of Oral Presentations, Fall 2008, Stanford University Newsletter on Teaching, Newsletter Vol.18, No.1 (available in Pdf file).</li> </ul>
<b>Basic Technical/Media Requirements</b>	<ul style="list-style-type: none"> <li>• Personal computers; Mac; iPad or Tablet; Laptop, Lab-Notebook, Smartphone, etc.)</li> <li>• Internet connection (DSL, LAN, or Cable connection, Web browser's type, etc.)</li> <li>• Special software required (Mentimeter. etc.)</li> </ul>
<b>Quality Assurance (QA)</b>	Online feedback survey of trainees and a brief QA report

### Course Overview/Outline

Training Days	Key Topics	Learning Activities	Assignments
<b>Day-1</b> 15.03.2019 15:00-17:00 5106	<ul style="list-style-type: none"> <li>• TPACK model and its application in active learning processes</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture notes</li> <li>• Discussion forums</li> <li>• Small group discussions</li> </ul>	<ul style="list-style-type: none"> <li>• Individual assignment #1 on formulating Learning objectives</li> </ul>
<b>Day-2</b> 18.03.2019 15:00-17:00 510	<ul style="list-style-type: none"> <li>• ADDIE model and its application in active learning processes</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture notes</li> <li>• Discussion forums</li> <li>• Small group discussions</li> </ul>	<ul style="list-style-type: none"> <li>• Individual assignment #2 on formulating Learning outcomes</li> </ul>
<b>Day-3</b> 22.03.2019 15:00-17:00 5106	<ul style="list-style-type: none"> <li>• SWOT model and its application in active learning processes</li> <li>• Online assessment tools and methods</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture notes</li> <li>• Discussion forums</li> <li>• Small group discussions</li> </ul>	<ul style="list-style-type: none"> <li>• Individual assignment #3 on online assessment software</li> </ul>
<b>Day-4</b> 25.03.2019 15:00-17:00 5106	<ul style="list-style-type: none"> <li>• SMART model and its application in active learning processes</li> <li>• Hybrid teaching methodology</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture notes</li> <li>• Discussion forums</li> <li>• Small group discussions</li> </ul>	<ul style="list-style-type: none"> <li>• Individual assignment #4 on cultivating special pedagogical skills</li> </ul>
<b>Day-5</b> 29.03.2019 15:00-17:00 5106	<ul style="list-style-type: none"> <li>• Flipped Classroom methodology</li> <li>• Professional and Intercultural engineering capabilities</li> </ul>	<ul style="list-style-type: none"> <li>• Lecture notes</li> <li>• Discussion forums</li> <li>• Small group discussions</li> </ul>	<ul style="list-style-type: none"> <li>• Individual assignment #5 on changing in classrooms</li> </ul>