

**Common Teaching Unit plan  
(structure and contents)**

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<b>Name of school</b>	IPSAA M.e T. Bellini – Trecenta (RO)
<b>Theme of the lesson</b>	Descriptive Statistics – Basic elements
<b>Pupils' age range</b>	16 - 17
<b>Timeline</b>	10 hours from October 2016 to February 2017
<b>Objectives</b>	<ol style="list-style-type: none"> <li>1. Learn and calculate <i>arithmetic average, mode and median</i> among <i>statistical data sets</i>.</li> <li>2. Learn and calculate some main <i>measures of variability</i>.</li> <li>3. Use some Apps to solve exercises and problems quickly.</li> <li>4. Organize elementary information in an efficient and structured form.</li> <li>5. Improve the ability to analyse and solve problems in a real situation with the statistics methods.</li> </ol>
<b>methods</b>	<p style="text-align: center;"><b>Part I</b></p> <ol style="list-style-type: none"> <li>1. The teacher explains methods and background knowledge that will allow students to solve basic statistics' problems.</li> <li>2. The students will improve their skills in statistics by solving several exercises. They have to solve problems also with the APP.</li> </ol> <p style="text-align: center;"><b>Part II</b></p> <ol style="list-style-type: none"> <li>1. The students will do an easy <i>sample survey</i> about a topic concerning their field of studies.</li> <li>2. The students, divided into four groups, made of five people, will edit <i>tables and histograms</i> and they will calculate <i>arithmetic average, mode, median, range, variance</i> and <i>STD</i> with the APPS.</li> <li>3. Finally, the students will analyze the results and they'll draw conclusions. They will give their teacher their opinions about working with Apps. (feedback)</li> </ol>
<b>Materials</b>	Computers, smartphones and tablets
<b>Used Apps</b>	Statistics Calculator Pro, Excel (for edit the graphs)

<b>Assessment</b>	Written test. Group work.
<b>Remarks</b>	The teacher will coordinate his students in every step of their activity. He will encourage students to work correctly in groups.