

**Programme of "STATISTICA"**

**"STATISTICS"**

**Number of ECTS credits: 9 (workload is 63 hours; 1 credit = 7 hours)**

**Code: M0072**

**Type of course unit: compulsory**

**1st Cycle degree in ECONOMICS, 2<sup>nd</sup> year , 2<sup>nd</sup> semester**

**Teacher: Maurizio Maravalle**

<b>1</b>	<b>Course objectives and Learning outcomes</b>	<p>THE COURSE DISCUSSES TECHNIQUES FOR COLLECTING AND ANALYZING DATA. THE MAIN CONCEPTS OF STATISTICAL THINKING, BOTH DESCRIPTIVE AND INFERENTIAL, ARE COVERED. IN ORDER TO BETTER UNDERSTAND THE INFERENTIAL TECHNIQUES, THE BASIS OF PROBABILITY THEORY AND RANDOM VARIABLES ARE GIVEN. THE FOCUS IS ON ANALYZING REAL DATA, AND PARTICULAR ATTENTION IS DEVOTED TO THE ILLUSTRATION OF THE METHODS WITH THE USE OF R, AN OPEN SOURCE SOFTWARE. FURTHER INFORMATION ARE PUBLISHED, TOGETHER WITH THE DETAILED SYLLABUS FOR THE COURSE, ON THE AQUILA UNIVERSITY WEBSITE.</p> <p>ON SUCCESSFUL COMPLETION OF THE MODULE, STUDENTS SHOULD BE ABLE TO:</p> <ul style="list-style-type: none"><li>UNDERSTAND AND USE R TO ANALYSE DATA STRUCTURES AS REGRESSION.</li><li>USE R TO PRODUCE STATISTICAL MODEL, GRAPHICS AND SIMULATION.</li></ul>
<b>2</b>	<b>Dublin descriptors</b>	
<b>3</b>	<b>Prerequisites and learning activities</b>	MATHEMATICS
<b>4</b>	<b>Teaching methods and language</b>	SLIDES AND BALACKBOARD - ITALIAN
<b>5</b>	<b>Assessment methods</b>	<p>THE EXAM HAS, FIRST A WRITTEN GENERAL PART AND AFTER A TEST ON THE COMPUTER USING SOFTWARE R.</p> <p>A laptop may be recommended for this course.</p> <p>.</p>