



### Programme of Course "Data Analytics"

- Code: DT0178
- Type of course unit: Compulsory (Master Degree in Computer Science curriculum NEDAS)
- Level of course unit: Postgraduate Degrees
- Semester: 2

Number of ects credits: (Master Degree in Computer Science) 3 (workload 75 hours)

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<b>1</b>	<b>Course objectives</b>	Learn fundamental techniques to examine raw data with the purpose of drawing data-driven decisions.
<b>2</b>	<b>Course content and learning outcomes (dublin descriptors)</b>	<p>Topics of the module include:</p> <ul style="list-style-type: none"> <li>• Introduction to analytics</li> <li>• Data collection, cleaning and preprocessing</li> <li>• Exploratory Data Analysis &amp; Visualization</li> <li>• Statistical inference and regression models</li> <li>• Optimization formulations of data analysis and learning problems</li> </ul>
<b>3</b>	<b>Course prerequisites</b>	Basic programming skills, introductory statistic, linear optimization
<b>4</b>	<b>Teaching methods and language</b>	Lectures and practical training <b>Language:</b> English
<b>5</b>	<b>Assessment methods</b>	Assignment