



### Programme of Module "Networks"

- Code: DT0341
- Type of course unit: Compulsory (Master Degree in Applied Data Science curriculum Data for Smart City), Compulsory (Master Degree in Applied Data Science curriculum Data for Life Science)
- Level of course unit: Postgraduate Degrees
- Semester: 2

Number of ects credits: (Master Degree in Applied Data Science) 6 (workload 150 hours)

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<b>1</b>	<b>Course objectives</b>	
<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>• Fundamentals of graph theory.</li> <li>• Optimization problems on graphs.</li> <li>• Greedy algorithms on graphs.</li> <li>• Trees, paths and matching.</li> <li>• Coloring and clustering.</li> <li>• Networks and communities: algorithms and metrics.</li> </ul>
<b>3</b>	<b>Course prerequisites</b>	
<b>4</b>	<b>Teaching methods and language</b>	<b>Language:</b> English
<b>5</b>	<b>Assessment methods</b>	