



ENTERPRISE DIGITAL INFRASTRUCTURE

Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Academic discipline	ING-INF/05 (DATA PROCESSING SYSTEMS)
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING
Course	COMPUTER ENGINEERING
Curriculum	Computer Science and Multimedia
Year of study	1°
Period	2nd semester (08/03/2021 - 14/06/2021)
ECTS	12
Lesson hours	100 lesson hours
Language	English
Activity type	ORAL TEST
Teacher	CALZAROSSA MARIA (titolare) - 12 ECTS
Prerequisites	Computer networks.
Learning outcomes	<p>The course focuses on the complex technological infrastructures being deployed nowadays. Particular emphasis will be given to the role of their hardware and software components and to the issues related to performance and Quality of Service (QoS). The course will introduce the techniques and tools for analyzing and predicting the performance of the infrastructures and discuss some case studies.</p> <p>At the end of the course, students will have enough competence to plan and successfully undertake performance evaluation and capacity planning activities.</p>
Course contents	<p>Queueing network models. Teaching methods Lectures and hands-on sessions in the laboratory. Recommended or required readings J. Kurose, K. Ross: Computer Networking - A top down approach featuring the Internet. 7th Edition. Addison Wesley, 2017.</p>

Protocol RFCs.

Edward D. Lazowska, John Zahorjan, G. Scott Graham, Kenneth C. Sevcik:

Quantitative System Performance Computer System Analysis Using Queueing Network Models. Prentice Hall, 1984. Assessment methods

Final project work and oral exam. Further information None. Sustainable development goals - Agenda 2030

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