



FOUNDATIONS OF TELEMEDICINE

Enrollment year	2019/2020
Academic year	2019/2020
Regulations	DM270
Academic discipline	ING-INF/06 (ELECTRONIC AND INFORMATION BIOENGINEERING)
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING
Course	BIOENGINEERING
Curriculum	Sanita' digitale
Year of study	1°
Period	1st semester (30/09/2019 - 20/01/2020)
ECTS	6
Lesson hours	62 lesson hours
Language	Italian
Activity type	WRITTEN AND ORAL TEST
Teacher	LARIZZA CRISTIANA (titolare) - 6 ECTS
Prerequisites	Basic programming skills as those provided by the course of Foundation of Computer Science.
Learning outcomes	<p>The course provides a general introduction to Object Oriented programming and methodologies for conceptual modeling.</p> <p>It provides principles for the analysis, design and implementation of software applications; the theoretic topics alternate with exercises and discussions on code segments</p> <p>The course aims to prepare the student to the real world of software development.</p>
Course contents	<p>The module covers the following topics:</p> <ul style="list-style-type: none">- Object Oriented Programming (OOP).- The Java programming language.

	- The UML Notation.
Teaching methods	<p>Lectures (hours/year in lecture theatre): 35</p> <p>Practical class (hours/year in lecture theatre): 0</p> <p>Practicals / Workshops (hours/year in lecture theatre): 35</p>
Reccomended or required readings	<p>The programming language used in the course is Java. To learn the syntax of the language it is suggested to refer to a specific manual and to online documentation.</p> <p>For the Java language is suggested the adoption of one of the following:</p> <ul style="list-style-type: none"> - Walter Savitch. Programmazione di base e avanzata con Java. PEARSON - Arnold Ken, Gosling James, Holmes David. Il linguaggio Java. Manuale ufficiale. Pearson Education Italia <p>and of</p> <ul style="list-style-type: none"> - Craig Larman. Applying UML and Patterns
Assessment methods	<p>The evaluation of the first module includes two individual tests to be passed together. The preliminary test verifies the theoretic knowledge about Object Oriented Programming and about the Java language. It requires to correctly answer to 9 out of 15 questions. The second test requires to solve a practical programming problem in the lab using the Java language. The final score is the weighted average of the scores of the theoretic (1/3) and practical (2/3) tests.</p>
Further information	<p>The Professor takes appointments (Department of Electrical, Computer and Biomedical Engineering, lab. UPIT, Via Ferrata 5, e-mail: cristiana.larizza@unipv.it).</p>
Sustainable development goals - Agenda 2030	\$lbl_legenda_sviluppo_sostenibile