

Syllabus Course description

Fundamentals of Programming
42307
INF/01
Bachelor in Wood Engineering
II
I
2021-2022
6
no

Total lecturing hours	36 hrs
Total lab hours	24 hrs
Total exercise hours	
Attendance	Attendance at assigned laboratory sections is required; lecture attendance is very strongly recommended.
Prerequisites	Registration in the Bachelor in Wood Engineering study program
Course page	

Specific educational	The	course	introduces	the	basic	concepts	of
objectives	progr impoi	amming, rtance to	particularly Engineering.	those	topics	of fundame	ental

Lecturer	Prof. Karl von Ellenrieder Facoltà di Scienze e Tecnologie, Building L, Room 6.02 Tel.: +39 0471 017172 E-mail: karl.vonellenrieder@unibz.it Web : https://www.unibz.it/faculties/person/37038-karl- dietrich-von-ellenrieder
Scientific sector of the lecturer	ING-INF/04 - Automatica
Teaching language	English
Office hours	As listed on Cockpit or by appointment
Laboratory Instructor	
Teaching Assistant	
Office hours	As listed on Cockpit or by appointment
List of topics covered	 The course covers the following topics: 1. Basic programming syntax and structure in Python 2. Functions 3. Conditional control structures 4. Arithmetic, comparison and Boolean operators 5. Data types
Teaching format	Classroom lectures and laboratory exercises



Learning outcomes (ILOs)	Knowledge and understanding
	 Basic software design procedures. How to develop simple Python programs.
	Applying knowledge and understanding
	3. Laboratory exercises complement lectures and require you to devise and sustain arguments.
	Making judgements
	4. On the choice of the right tools such as data types and programming approaches. The labs will also require you to generate and interpret relevant data.
	Communication skills
	5. Lab reports will require you to present information, ideas, problems and solutions in clear and simple language.
	Learning Skills
	6. Basic foundations for further study in more advanced courses in Engineering.

Assessment	Formative assessment			
	Form	%	Length	ILOs
			/duration	assessed
	Labs	40	24 hours total	1-7
	Summative assessment			
	Form	%	Length	ILOs
			/duration	assessed
	Final Exam	60	4 hours	1-4,6,8
Assessment language	English			
Evaluation criteria and criteria for awarding marks	Labs: Completeness and correctness of reports; qualityWritten Final Exam: Completeness and correctness of answers.Students must receive an overall grade of greater than 60/100 points in order to pass the course.			

Required readings	
Supplementary readings	Instructor-provided notes.