4EU+ Letter of Attendance Supplement
4EU+ Course description/syllabus

	Categories	Please fill in	Explanatory Remarks
1	**Title:**	Introduction to Programming (syllabus)	
2	**Type of educational activity/teaching format:**	Online course (SPOC)	Course, online course, workshop, summer school etc.
3	**Responsible and offering lecturer:**	Laurent Moccozet (laurent.moccozet@unige.ch)	Name, surname, position, affiliation, contact information
4	**Other lecturers if involved:**	-	Name, surname, position, affiliation
5	**Start date - end date and duration:**	Dates: 19.09.2022 – 23.12.2022 4hours/week (14 weeks)	Indicate the number of teaching hours for participants eg 30h or 15h
6	**Short description of the content of the course:**	In this course students will learn the basis of programming using the SCALA language for students with no previous experience. They will be introduced to the basic concepts of programming and they will put them into practice during the course's pedagogical activities. They will thus develop skills in the field of computer thinking: analysis of a problem, design of a solution and concrete implementation in the form of a program. As a result, they will have acquired knowledge that will enable them to understand, choose and control the digital environment in which it operates.	4-5 sentences
7	**Workload / Credits:**	150 hours / 6 ECTS	Identification of the overall workload and the number of required ECTS for this course
8	**Target group-level:**	BA (no previous knowledge in programming required)	BA, MA and/or PhD students
9	**Language of instruction:**	French with English subtitles (no need to know French to follow the course)	
10	**Learning content:**	The study of the SCALA language will familiarize the students with the basic concepts of structured programming: variables,	Professional, methodological, practical and interdisciplinary content

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		controls, data structures and functions; and object-oriented programming: classes, objects, methods and their application to the analysis and development of simple applications. Beyond the programming language studied, students will learn how to approach a problem, define an algorithm and program it. This course does not aim to teach the SCALA language, but to use this language for an introduction to programming.	*Examples: The course conveys…* *The lecture covers….*
11	**Learning objectives:**	At the end of the course, students will be able to analyse a simple problem, build the corresponding algorithm and program it with the SCALA language. They will master and be able to implement the basic notions of structured and object programming.	Subject-related, methodological, interdisciplinary skills, key qualifications, learning and qualification objectives. Wording in complete clauses using concrete verbs for observable (testable) behaviours. Learning objectives describe tasks (what needs to be done and which steps are relevant to meet a certain requirement (why is it important?). *Example:* *At the end of the course, the students will be able to ...*
12	**Assessment methods and criteria:**	Continuous assessment	
13	**4EU+ Flagship:**	Flagship 3: Data - Models -Transformations	Please indicate under which Flagship the activity falls
14	**4EU+ Transversal skills/shared competencies:**	Critical thinking, entrepreneurship, data literacy	Please indicate which 4EU+ transversal skill the activity supports and how (4-5 sentences): multilingualism, data literacy, critical thinking, entrepreneurship, societal engagement