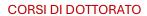


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Course unit English denomination	An introduction to Python for chemical sciences: from fundamentals to data and HPC
Teacher in charge (if defined)	Nicola Spallanzani (CNR Institute of Nanoscience, Modena)
Teaching Hours	24
Number of ECTS credits allocated	3
Course period	09/2025
Course delivery method	<ul><li>☑ In presence</li><li>☐ Remotely</li><li>☐ Blended</li></ul>
Language of instruction	English
Mandatory attendance	<ul><li>✓ Yes (85% minimum of presence)</li><li>☐ No</li></ul>
Course unit contents	The course, interspersed with practical exercises, is an introduction to using the non-assuming Python language previous programming skills. It will come to illustrate the use of some scientific Python libraries (e.g.numpy,matplotlib)
Learning goals	Knowledge: basics of Python languages and main scientific libraries Skills: Writing Python scripts/Jupyter notebooks useful for own research activity Competencies: Use and design of python to enhance research activity
Teaching methods	Frontal teaching intermixed with coding exercises
Course on transversal, interdisciplinary, transdisciplinary skills	⊠ Yes □ No
Available for PhD students from other courses	<ul> <li>         ∑ Yes          □ No      </li> <li>         Students external to the PhD Course admitted upon evaluation of the CV by the teachers, provided the maximum number of allowed participants (30) has not been reached     </li> </ul>
Prerequisites (not mandatory)	max 3750 caratteri
Examination Examination	Software project assigned by the teacher
methods ————————————————————————————————————	





Additional information (not mandatory)

Max. number of participant:30 Using of own laptop is strongly encouraged