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COURSE: Computer skill

ACADEMIC YEAR: 2019/2020

TYPE OF EDUCATIONAL ACTIVITY: Advanced

TEACHER: SUMMA DONATO

e-mail: donato.summa@unibas.it

website:

phone: +393478778445

mobile (optional):

Language: Italian

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ECTS: 2

n. of hours: (lessons e  
tutorials/practice)  
16

Campus: Potenza

Semester: I

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**EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES**

- Provide knowledge and skills on the manipulation of scientific data.

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**PRE-REQUIREMENTS**

- Basic knowledge of the most common programming languages

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**SYLLABUS**

- Programming with file management, spreadsheets (Origin, Excel) by using spline interpolation, least squares method. Smoothing techniques Filtering data: subtracting average background shifted, Data Integration and sample calculation of thermodynamic parameters. Convolution products (Savitzky-Golay).

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**TEACHING METHODS**

Theoretical lessons, Classroom tutorials, Laboratory tutorials.

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**EVALUATION METHODS**

Written examination

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**TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL**

Slides

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**INTERACTION WITH STUDENTS**

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**EXAMINATION SESSIONS (FORECAST)<sup>1</sup>**

*05/02/2020, 26/02/2020, 18/06/2020, 23/07/2020, 17/09/2020, 26/11/2020*

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SEMINARS BY EXTERNAL EXPERTS    YES     NO

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**FURTHER INFORMATION**

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<sup>1</sup>Subject to possible changes: check the web site of the Teacher or the Department/School for updates.