
COURSE: COMPUTER SCIENCE

ACADEMIC YEAR: 2017-2018

TYPE OF EDUCATIONAL ACTIVITY: Other

TEACHER: Prof. Sara VENAFRA

e-mail: :

website:

phone:

mobile (optional):

Language: **Italian**

ECTS: 3 of lessons and tutorials**n. of hours: 24 of lessons and tutorials****Campus: Potenza****Dept./School: Department of Sciences****Program: Pharmacy (LM-13)****Semester: I
(From 02/10/2017 to 31/01/2018)**

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

This course introduces the students to Informatics, exploiting tools and methodologies useful to improve individual productivity in the context of information society. The main aim of this course is to provide the informatics basis to study pharmaceuticals information by means of on-line resources and software to represent and analyze the data.

- *The student has to demonstrate to know the chance to use search engines and applicative software to acquire, storage, distribute and analyze data provided by biomedical scientific literature.*
 - *The student has to demonstrate to be able in using applicative software to analyze, elaborate and illustrate the available results.*
 - *The student has to demonstrate to be capable in evaluating the retrieved results independently, exploiting the main approaches explained during this courses.*
 - *The student has to be able in explaining the tools and the approaches used in a very simple way, using the appropriate scientific language. The student has to be capable to represent the results through graphics and multimedia presentations to show the obtained results.*
 - *The student has to be capable to consult texts and scientific publications also through on-line resources relative to pharmaceuticals and biomedical fields.*
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PRE-REQUIREMENTS*None*

SYLLABUS

- *Microsoft Office: Word, Excel, Power Point (4 hours);*
 - *Electronic sheet: to insert, organize and analyze data (4 hours);*
 - *Data presentation: graphs and tables; media and standard deviation; statistic inference (3 hours);*
 - *Usage of OpenOffice.org package (2 hours);*
 - *Acquisition of data from scientific literature (3 hours);*
 - *Storage and distribution of data through internet and World Wide Web (2 hours);*
 - *Query of pharmaceutical database and search engines, like PubMed, to access to MEDLINE database including bibliographic information on biomedical fields and life sciences (3 hours);*
 - *Usage of on-line sites, such as AIFA, to research information on drug of interest (3 hours).*
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TEACHING METHODS*24 hour of theoretical lessons and laboratory tutorials*

EVALUATION METHODS*Quiz and practical test with Excel.*

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL*Textbook: Pascarella S., Paiardini A. – Bioinformatica – eds. Zanichelli*

INTERACTION WITH STUDENTS*Office hours: all days after contact via email at room 26 on the fifth floor of Engineering Department*

EXAMINATION SESSIONS (FORECAST)¹*15/02/2018, 08/03/2018, 18/05/2018, 14/06/2018, 13/09/2018, 11/10/2018, 21/11/2018*

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

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION
