Introduction to the course

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Open Science (A.Y. 2022/2023)
Second Cycle Degree in Digital Humanities and Digital Knowledge
Alma Mater Studiorum - Università di Bologna

DIPARTIMENTO DI FILOLOGIA CLASSICA E ITALIANISTICA

Material

All the material of the course, i.e. slides and documents (papers, articles, books), is freely available online in some form and represents the body of work to study for the written examination

You will find all the links to access and download the material from the official GitHub repository of the course at

https://github.com/open-sci/2022-2023/

Have you found a mistake in the slides? Please write me an email at silvio.peroni@unibo.it, or comment it directly on Google Slides

Dates and organisation

The course is organised in three parts

- The prologue, where the basic notions around Open Science and a particular point of view of application are presented
- The plot, where specific Open Science topics are presented
- The epilogue, where an invited expert will be with a lecture dedicated to Open Science

22 March 2023	12:30-15:30	Introduction to Open Science
23 March 2023	12:30-15:30	Reproducibility
29 March 2023	12:30-15:30	FAIR and Open Data
30 March 2023	12:30-15:30	Open Methodology
12 April 2023	12:30-15:30	Open Peer Review
13 April 2023	12:30-15:30	Open Source Software
19 April 2023	12:30-15:30	Open Access
20 April 2023	12:30-15:30	Open Metrics
27 April 2023	12:30-15:30	Open Infrastructures
4 May 2023	12:30-15:30	Final seminar

Rules

Attending the lectures is not mandatory, even if it is strongly recommended due to the several hands-on sessions that are in place

The final score is obtained from the results of two tests:

- a final written examination – one hour test that comprises four distinct questions (including multiple-choice and free-text answers), which are based on the material made available in each lecture of the course
- a project discussion – it will be the topic of the workshop of the course

There are at least six exam sessions for passing the final written examination

The maximum score one can obtain is 34: 17 for the project and 17 for the written examination

The project

The presentation of an Open Science project is one of the key aspect of the course

Students are mandatorily asked to organise themself in at least two groups for preparing the project – the number of students per group strictly depends on how many people are attending the course and must have a score

The personal contribution of each member of a group will be assessed during the final workshop, in which invited experts are involved and they may ask questions about specific aspects of your project

The project must be chosen among those introduced later today

Even if discouraged, it is possible to follow the course as non-attender – in this case, the topic of the project should be discussed with the professor in advance

The project: what to produce

The material that should be produced by each group includes at least:

- diaries of all group members describing the activities to fulfil the project goals
- a textual abstract presenting the project methodologies, values, and results
- a data management plan (DMP)
- a description of the methodology followed to address the project goals
- reviews of the DMP and methodology proposed by other groups
- a software used to gather and analyse data
- the data gathered by running the methodology
- a short article presenting the research conducted
- the slides used to present the project outcomes during the final workshop
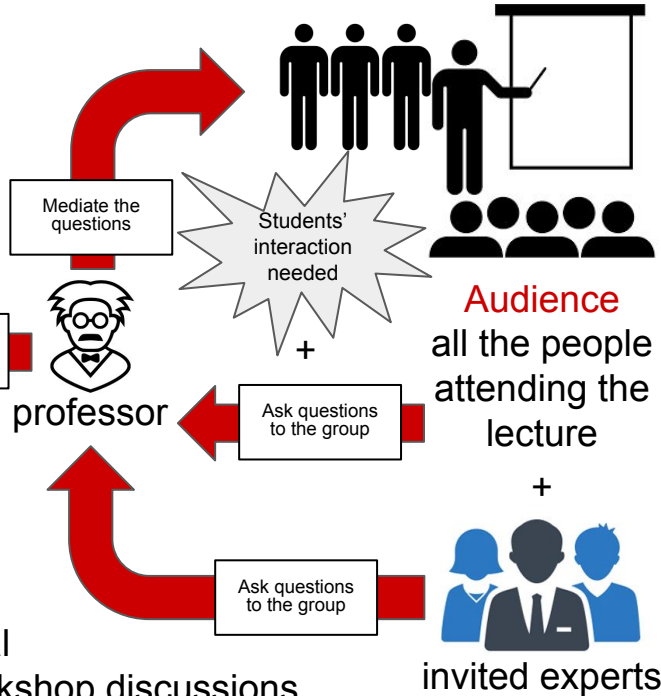
The workshop

The professor will provide the final scores of the projects week after the workshop

The professor may ask to the group to improve the quality of any outcome according to personal assessment and workshop discussions

Mediate the questions

Take notes of the discussion

professor

Ask questions to the group

Ask questions to the group

Students' interaction needed

+

+

Audience
all the people attending the lecture

invited experts

Each group has its own presentation slot, in which it has to present the work by using slides

Each presentation slot is of 60 minutes:
- 5 minutes set up
- 25 minutes presentation
- 30 minutes Q&A

All members of each group must present, thus split the presentation in a reasonable way

The workshop: the date

The results of the project will be presented during a final workshop – mandatory participation by all the students

We have to agree (now) a date in May, after the end of the course (last lecture: 4 May 2023)

Some proposals:

- 22 May 2023
- 29 May 2023

Organisation of each lecture

Each lecture is organised in two parts

In the first part, a theoretical and historical introduction about the specific topic of the lecture is provided

In the second part, hands-on sessions based on existing tools that enable the experimentation and/or implementation of the topic introduced in the first part are used

Important notice: you may need to use a computer for the second part

Final seminar: speaker

The last lecture of the course is entirely dedicated on hearing late-breaking news from the Open Science field by an International expert on the topic

This year, the seminar will be held on the 4th of May 2023 by **Elena Giglia**, who kindly accepted our invitation to close the Open Science course

Elena Giglia is the head Open Science and Open Access office at the University of Turin and one of the most prominent scholars in Open Science worldwide – in the past 20 years, she has participated in several projects and has been invited in a countless number of local, European, and International conferences and workshops on Open Access, Open Research Data and Open Science topics

Final seminar: topic

What's next on Open Science: trends and opportunities for the near future

Starting from the reasons why we need Open Science - in other words, what's wrong with the current scholarly communication - we'll see what's going on at international and European level, focusing on the UNESCO recommendation, the Coalition to reform research assessment, FAIR data as building blocks of the European Open Science Cloud, and the Diamond model as the future of Open Access publishing.

Communications

We use a Slack discussion group for communicating with each other

Slack is a communication platform offering many IRC-style features, including persistent chat rooms (channels) organized by topic, private groups, and direct messaging, and can be used in any device (it has been developed for mobile and desktop devices)

Invitation link to join the workspace:

https://join.slack.com/t/essepuntato-uni/shared_invite/zt-1rt1lokht-Ty1SMYcNYZ4FQDCX SgV8BA

Once you entered in the workspace following the previous link, you must access the open channel "#general" and ask to be added to the private channel dedicated to the course ("open-science-22-23") by me

Evaluation of the course

Usually, during one of the last lectures of the course, you will be asked to fill-up a questionnaire on the organisation of the course and related stuff – it is anonymous, of course

Please, do it carefully and honestly, since it is one of the most important inputs I will have to understand what can be improved in the next year course

Final recommendations (the usual one)

Please do ask questions

There are no stupid questions

My answers can be odd though, sometime

Thus, in order to avoid such odd answers, I could ask you to be patient and wait for the next lecture, so as to provide you with the best possible answer ever

"The purpose of these studies is to raise problems, not to solve them"

Toulmin, S. E. (2003). The Uses of Argument (2nd ed.). Cambridge University Press. https://doi.org/10.1017/CBO9780511840005

End

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