I. Training course in brief

The training course, composed by three modules, aims to introduce early-career researchers to scientific communication and to the principles of Open Science (Open Access, Open Data, Open Licence).

II. Training course description

Students starting a PhD are moving into a data-rich environment and will need to handle this research landscape with the help of tools and services able to improve the quality of their research outputs. For example, they should understand how to license data and contents, work collaboratively and handle online release of their findings.

During the course it will be deepened the use of rights and licenses into the whole academic research process, from the production of data until the final publication. This intense training course will also provide PhD students skills and competencies to practice Open Science.

At the end of the course the student will have a better understanding of the available research e-infrastructures, tools, and services for Open Access Publication, Research Data Management and Open Data.

III. Modules

1. The management of rights in the field of scholarly communication: a difficult balance among patents, Italian author’s right and international intellectual property

2. Open Access and scholarly communication

3. From Open Access to Open Data: the Open Science framework

IV. Training course programme

1. The management of rights in the field of scholarly communication: a difficult balance among patents, Italian author’s right and international intellectual property

   ● Intellectual property: framework and definitions
     ○ Industrial intellectual property (trademarks and patents)
     ○ Intellectual, artistic and literary property (author’s rights and copyright)

   ● What is meant by copyright, publishing rights, related rights: differences between primary and secondary rights and types of subsidiary rights

   ● Management and control of research rights: between patents and copyrights
2. Open Access and scholarly communication

- Birth and definition of Open Access
- Purpose and meaning of Open Access: benefits for all?
- European recommendations
- Open archives:
  - institutional repositories (IR)
  - disciplinary and cross-disciplinary archives
- Open access journals and bibliometrics
- The business models of Open Access
  - The green way: self-archiving in repositories
  - The golden way: publishing in OA journals
  - The red way: publishing in hybrid journals paying APC
  - The black way: predatory publishing and fraudulent publishing
  - The bronze way
- Plan S
- The OA policy and regulation of the University of Padova; Padua Research Archive
- ResearchGate and Academia.edu is not OA publishing…
- Case studies and discussion

3. From Open Access to Open Data: the Open Science framework

- Introduction to Open Science
- What are research data: types and life cycle
- Survey on data management
- Why it is important to manage research data
- A world of data: from raw data to Open data
- European Open Science Cloud (EOSC)
- European projects and research data management: the FAIR principles
- Data sharing: as open as possible, as closed as necessary
- Data Citation
- Data Management Plans: guidelines & tools
- Organize data: dataset versions
- File formats and transformation
- Basic aspects of data curation activities in the preservation of research data
- Which repository for my data? Research Data Unipd and Policy
- Other repositories: re3data.org
- Privacy, sensitive and personal data; GDPR
- Case studies and discussion
V. Further Information

- Need for Help? The UNIPD Library Helpline
  http://bibliotecadigitale.cab.unipd.it/en/helpline
- About Publishing
  http://bibliotecadigitale.cab.unipd.it/en/about-publishing-new

VI. Course materials

The lessons provide different teaching materials (ENG language):

- Slides for classroom lessons
- Useful articles and documents
- Useful Websites and portals
- Resource indexes
- Cases and practical examples