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).

This course, for University of Padova PhD students, is held in Italian but English resume units, slides and course materials are also provided.

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
- Who holds the rights and on what: authorship vs ownership on the different versions
- The Italian context into the European law framework: looking towards international landscape
- Fair use vs exceptions and limitations to rights
- Management and control of research rights: between patents and copyrights
- Open Access as a model for the economic management of the intellectual asset of research
- The relationship between author (scientific) and publisher: the difference between contract and license
- Editorial policies: assignment of rights and examples of transfer agreement
- Transfer, waive or licence to publish: some examples
- Open licenses for sharing
  - Licenses on Contents
  - Licenses on Data

2. Open Access and scholarly communication

- Birth and definition of Open Access
- Purpose and meaning of Open Access: benefits for all?
- From US experiences to European recommendations
- The European survey on the scientific publishing market: oligopolies and profits
- Open access: current status and future developments
- Open archives (OA):
  - 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
- OA policies of the Italian research institutions
- The OA policy and regulation of the University of Padova: the Padua Research Archive
- ResearchGate and Academia.edu is not OA publishing...
3. From Open Access to Open Data: the Open Science framework

- Introduction to Open Science
- What are research data: types and life cycle
- Why it is important to manage research data
- A world of data: different levels in data processing
  - Raw data and Primary Data
  - Open Data, Shared Data, Reused Data, Published Data, Restricted Data
- European Open Science Cloud (EOSC)
- European projects and research data management: the FAIR principles
- Data Management Plans: guidelines & tools
- Data and activity management: logs
- Identification of roles and responsibilities
- Organize data: dataset versions and title (headline writing; titling)
- File formats and transformation
- Data Citation
- Storage and Security of data: differences
- Basic aspects of data curation activities in the preservation of research data
- Reliability of Data Repositories: which repository for my data? Re3data.org
- Privacy, sensitive and personal data
- Data sharing: as open as possible, as closed as necessary

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