XXXV PhD Cycle: cross-cutting learning activities and other highly qualified activities at the UNIVERSITY OF PISA

Academic Year 2019/20

XXXV PhD Cycle: cross-cutting learning activities and other highly qualified activities at the UNIVERSITY OF PISA Academic Year 2019/20

In the current academic year, the University of Pisa has increased the number of courses to improve a PhD educational offer oriented to the up-to-date international research and the labor market. Some learning and training activities will be organized within each single PhD Programme in order to learn the topics and methods related to the specific research area of interest, promote the research results and improve foreign language and IT skills. Some other activities, instead, will be cross-cutting, interdisciplinary and carried out in the most promising R&D areas.
The educational offer has been planned also considering the assessments provided by ANVUR (the Italian National Agency for the Evaluation of Universities and Research Institutes) concerning training and soft skills better suited for a third academic level qualification, as well as the evaluation expressed by the PhD students in the previous academic years about attendance, interest and usefulness of their research.

Six types of interdisciplinary courses, half of which distinguished between the STEM and the SSH sectors. The educational offer has been planned to promote features and peculiarities of the twenty-two active PhD programmes in the current academic year, by classifying seminars according to the pertinence of the attendees' educational background and the previous knowledge of the disciplines and contents, as well as to the different English language proficiency. The distinction between STEM (Science, Technology, Engineering and Mathematics) and SSH (Social Sciences and Humanities) sectors allows to perform an in-depth analysis – also methodological – more relevant and useful, as well as more interesting for the PhD students.
In addition, PhD students can attend action-learning workshops of the Contamination Lab (PhD+ and CYB+) project of Pisa, seminars of Laboratory of Digital Culture and courses intended for Personal Branding organized within the single PhD Programme.

Seminars will be held only on Friday and Saturday morning, in order to lighten a load of cross-cutting learning activities on PhD students and reduce the classes overlap of PhD programmes.
Each PhD student, of any cycle, is allowed to attend all cutting-cross courses. The participation is free of charge, but the student will be required to register with Moodle (using personal credentials) from 12 December 2019 up to a week before the beginning of the single module. At the end of the course, the student's transcript of the activities attendance can be registered.
Information about the timetable and classrooms (booked according to the number of attending students) will be sent to the registered students a week before the beginning of each course, together with eventual didactic materials.

Please find the overall program at http://dottorato.unipi.it
For further information please contact our virtual desk http://sportellovirtuale.unipi.it (access is also possible through the specific banner on the "sezione studenti")

The Delegate for the PhD Programmes
at the University of Pisa
Prof.ssa Marcella Aglietti

CROSS-CUTTING LEARNING ACTIVITIES PLAN

UNIT I - OPEN SCIENCE AND RESEARCH DATA MANAGEMENT
Open Science: from Theory to Practice

Coordinator: Leonardo Candela (ISTI - CNR)
Academics: Leonardo Candela (ISTI - CNR), Emma Lazzeri (ISTI - CNR), Paolo Manghi (ISTI - CNR), Pasquale Pagano (ISTI - CNR), Maria Chiara Pievatolo (University of Pisa)
Duration: 40 hours
Dates: January - March 2020 (see the schedule of each module)

For PhD students of the STEM sector

Language: English

Prerequisites: none; it is an introductory course

Description, dates, duration and academics:

Module 1. *Scholarly communication and research evaluation: The Open Science "Revolution."*
Openness is rooted in the modern scientific revolution and the original meaning of the word "publication". Currently, however, scholars cannot take the openness of science for granted any longer, so much that it needs to be mandated. This introductory unit will deal with the history of scientific publication and the evolution of its philosophical and social functions, to make PhD candidates critically aware of practices sometimes presented as beyond dispute and without alternatives. (31 January 2020 - Pievatolo 2h)

Module 2. *Irresistible proxies? Peer review and (mainstream or alternative) bibliometric*
How should we assess the quality of research? By reading the papers or by using harvesting and data mining tools to compute its impact? On such a topic, again, nothing is beyond dispute and without alternatives. (31 January 2020 – Pievatolo 2h)

Module 3. *Copyright: taking authors' rights seriously*
To avoid the risk of publishing without making their work public because of restrictive agreements inadvertently signed, young scholars should become familiar with the basics of copyright law. This course aims at introducing the fundamentals of a topic that cannot be left to publishers any longer. (7 February 2020 – Pievatolo 2h)

Module 4. *Open access to scientific literature including Funder policies*
The course aims at discussing the issues related to the open access to scientific literature, including the obligations currently included in various policies. (7 February 2020 – Lazzeri 1h + Manghi 1h)

Module 5. *Services and tools to open your research*
The course aims at providing students with an overview of the tools and approaches to implement open access strategies to scientific literature. 7 February 2020 - Candela 1h + Pagano 1h)

Module 6. *Research data management: Why? including Funder policies*
The course aims at providing the students with an overview of the issues on research data management, including the obligations currently included in various policies. (7 February 2020 - Lazzeri 1h + Manghi 1h)

Module 7. *FAIR principles and Open Data*
The course aims at providing students with an overview of the issues related to the release of research data and the implementation of practices promoting data Findability, Accessibility, Interoperability and Reuse. (14 February 2020 - Lazzeri 1h + Manghi 1h)

Module 8. *Services and tools to make your data FAIR*
The course aims at providing students with an overview of the tools and services that can be used to implement practices facilitating data Findability, Accessibility, Interoperability and Reuse. (14 February 2020 – Candela 1h + Pagano 1h)

Module 9. *How to write a data management plan including tools*
The course aims at providing students with an overview of the issues related to the development of a Data Management Plan and its implementation. (14 February 2020 - Candela 1h + Pagano 1h)

Module 10. *Skills, roles and competencies: data steward, data manager, data scientist, data service engineer, research software engineer*
The course aims at providing students with an overview of the profiles and competencies of actors involved in the implementation of open science practices. (14 February 2020 - Candela 1h + Pagano 1h)

For PhD students of SSH sector

Language: Italian (didactic materials in English)

Prerequisites: none; it is an introductory course

Description, dates, duration and academics:

Module 1. *Scholarly communication and research evaluation: The Open Science "Revolution."*
Openness is rooted in the modern scientific revolution and the original meaning of the word "publication". Currently, however, scholars cannot take the openness of science for granted any longer, so much that it needs to be mandated. This introductory unit will deal with the history of scientific publication and the evolution of its philosophical and social functions, to make PhD candidates critically aware of practices sometimes presented as beyond dispute and without alternatives. (7 February 2020 – Pievatolo 2h)

Module 2. *Irresistible proxies? Peer review and (mainstream or alternative) bibliometric*
How should we assess the quality of research? By reading the papers or by using harvesting and data mining tools to compute its impact? On such a topic, again, nothing is beyond dispute and without alternatives. (7 February 2020 – Pievatolo 2h)

Module 3. *Copyright: taking authors' rights seriously*
To avoid the risk of publishing without making their work public because of restrictive agreements inadvertently signed, young scholars should become familiar with the basics of copyright law. This course aims at introducing the fundamentals of a topic that cannot be left to publishers any longer. (21 February 2020 - Pievatolo 2h)

Module 4. *Open access to scientific literature including Funder policies*
The course aims at discussing the issues related to the open access to scientific literature, including the obligations currently included in various policies. (21 February 2020 - Lazzeri 1h + Manghi 1h)

Module 5. *Services and tools to open your research*
The course aims at providing the students with an overview of the tools and approaches to implement open access strategies to scientific literature. (21 February 2020 - Candela 1h + Pagano 1h)

Module 6. *Research data management: Why? including Funder policies*
The course aims at providing the students with an overview of the issues on research data management, including the obligations currently included in various policies. (21 February 2020 - Lazzeri 1h + Manghi 1h)

Module 7. *FAIR principles and open data*

The course aims at providing students with an overview of the issues related to the release of research data and the implementation of practices promoting data Findability, Accessibility, Interoperability and Reuse. (6 March 2020 - Lazzeri 1h + Manghi 1h)

Module 8. *Services and tools to make your data FAIR*
The course aims at providing students with an overview of the tools and services that can be used to implement practices facilitating data Findability, Accessibility, Interoperability and Reuse (6 March 2020 - Candela 1h + Pagano 1h)

Module 9. *How to write a data management plan including tools*
The course aims at providing students with an overview of the issues related to the development of a Data Management Plan and its implementation. (13 March 2020 - Lazzeri 1h + Manghi 1h)

Module 10. *Skills, roles and competencies: data steward, data manager, data scientist, data service engineer, research software engineer*
The course aims at providing the students with an overview of the profiles and competencies of actors involved in the implementation of open science practices. (13 March 2020 - Candela 1h + Pagano 1h)

UNIT II - STATISTICS IN RESEARCH

Coordinator: Barbara Pacini (University of Pisa)
Academics: Barbara Pacini (University of Pisa), Francesco Schirripa Spagnolo (University of Pisa), Paolo Frumento (University of Pisa)
Duration: 8 hours
Dates: May 2020 (see the schedule of each module)

For students of the STEM sector

Module 1. The role of statistics in research

Language: the course could be held either in Italian or English language, according to the students 'request
Prerequisites: previous knowledge of statistical methods is not required
Description: The module introduces to statistical reasoning, to statistical terms used in research studies (sample size, margin of error, correlation and causation), to problems connected to the misuse of statistics. Examples and applications in the field of technical, engineering and medical sciences will be presented.
Dates: Saturday, 16 May 2020
Duration: 4 hours
Academics: Francesco Schirripa Spagnolo (University of Pisa)

Module 2. Statistics and causality
Language: the course could be held either in Italian or English language, according to the students 'request.
Prerequisites: confidence with traditional statistics methods and probability concept is required.
Description: the evaluation of random reports is required in many disciplinary fields. This module introduces the theoretical and applicative aspects of causal inference, as well as the analysis of experimental and observational data. Examples and applications in the field of technical and medical sciences will be presented.
Dates: Friday, 22 May 2020
Duration: 4 hours
Academic: Paolo Frumento (University of Pisa)

For PhD students of SSH sector

Module 1. The role of statistics in research
Language: the course could be held either in Italian or English language, according to the students 'request.
Prerequisites: a previous knowledge of statistics methods is not required
Description: the module introduces statistical reasoning, statistical terms used in research studies (sample size, margin of error, correlation and causation), problems connected to the misuse of statistics. Examples and applications in the field of humanities and social sciences will be presented.
Dates: Friday, 15 May 2020
Duration: 4 hours
Academic: Francesco Schirripa Spagnolo (University of Pisa)

Module 2. *Statistic and causality*
Language: Italian
Prerequisites: confidence with traditional statistics methods and probability concept is required.
Description: the evaluation of random reports is required in many disciplinary fields. This module introduces the theoretical and applicative aspects of causal inference, as well as the analysis of experimental and observational data. Examples and applications in the field of humanities and social sciences will be presented.
Dates: Friday, 29 May 2020
Duration: 4 hours
Academic: Barbara Pacini (University of Pisa)

UNIT III - SOFT SKILLS

For PhD students of the STEM sector

1. IT Tools for Doctoral Research
Language: the course could be held either in Italian or English language, according to the students 'requests.
Prerequisites: none
Description: the course will analyse the main IT tools available for PhD students at the University of Pisa (internet potentialities, storage hardware and software, file transfer, communication, AV, data analysis, …), also giving useful advice according to the research activities carried out.
Dates: 25 January 2020
Duration: 4 hours
Academic: Antonio Cisternino (University of Pisa)

2. Promoting Research Outputs
Coordinator: Gabriella Benedetti (University of Pisa)
Language: the course could be held either in Italian or English language, according to the students 'requests.
Prerequisites: none.
Dates: 20 March and 3 April 2020 (see the schedule of each module)
Duration: 6 hours
Academics: Sandra Faita (University of Pisa), Chiara Letta (University of Pisa), Raffaella Sprugnoli (University of Pisa), Francesca Cecconi (University of Pisa), Simona Turbanti (University of Pisa)

***Module 1** - The role of institutional repositories for the dissemination of scientific research.*
Description: the course aims at offering an in-depth description of the ARPI institutional repository, its many features and functions as a tool for dissemination and valorization of research produced at the University of Pisa.
Dates: 20 March 2020
Duration: 3 hours
Academics: Sandra Faita (University of Pisa), Chiara Letta (University of Pisa)

***Module 2** - Research evaluation and tools available at the University of Pisa for the STEM sector.*
Description: the course will provide a framework of the aims and characteristics of the evaluation of scientific research highlighting the tools available at the University of Pisa for the STEM sector.
Dates: 3 April 2020
Duration: 3 hours
Academics: Chiara Letta (University of Pisa), Raffaella Sprugnoli (University of Pisa)

3. Gender Issues and University. Research, Education and Institutional Engagement
Coordinator: Elettra Stradella (University of Pisa)
Prerequisites: none
Description: the course aims at providing cross-disciplinary knowledge on the importance of gender in scientific research and the approach to research. The aim is also of making the PhD students investigate the critical issues in the academic context in terms of equal opportunities in academic careers, gender discrimination in research, and tools to promote equality and enhance identities in research activities and teaching.
The first part will deal with the analysis of gender and its relevance as a transdisciplinary point of view in research. It will provide data analysis and a female career monitoring, with particular attention to those in the STEM field. It will focus on gender budgeting in universities, presenting functions and implemented experiences. The second part (STEM) will explore an investigation on ICT and women, stereotypes and transformations. For SSH, the course will focus on legal, social and humanistic disciplines, and gender studies: the "genderization" of the research contents; and on gender issues and funding opportunities at the European level.
Course evaluation tests will follow.
Dates: Friday, 5 June 2020. Morning and afternoon.
Duration: 8 hours
Academics: Nadia Pisanti (University of Pisa), Silvia Cervia (University of Pisa), Lucia Pallottino (University of Pisa), Elettra Stradella (University of Pisa)

***Module 1** – Introduction and initial analysis.*
Language: Italian or English
Description: the first part will deal with the analysis of gender and its relevance as a transdisciplinary point of view in research. It will provide data analysis and a female career monitoring, with particular attention to those in the STEM field. It will focus on gender budgeting in universities, presenting functions and implemented experiences. Course evaluation will follow.
Dates: 5 June 2020 (morning)
Duration: 4 hours

***Module 2** – Thematic and disciplinary in-depth analysis*
Language: English
Description: paths on a specific area of interest: an investigation on ICT and women, stereotypes and transformations when training in the field of technologies. Course evaluation will follow.
Dates: 5 June 2020 (afternoon)
Duration: 4 hours

For PhD students of SSH sector

1. IT Tools for Doctoral Research
Language: the course could be held either in Italian or English language, according to the students 'requests.
Prerequisites: none.
Description: the course will analyse the main IT tools available for PhD students at the University of Pisa (internet use potentialities, storage hardware and software, file transfer, communication, AV, data analysis,…), also giving useful advice according to the research activities carried out.
Dates: 24 January 2020

Duration: 4 hours
Academic: Antonio Cisternino (University of Pisa)

2. Promoting Research Outputs
Coordinator: Gabriella Benedetti (University of Pisa)
Language: the course could be held either in Italian or English language, according to the students 'requests.
Prerequisites: None.
Dates: 20 March and 3 April 2020 (see the schedule of each module)
Duration: 6 hours
Academics: Sandra Faita (University of Pisa), Chiara Letta (University of Pisa), Raffaella Sprugnoli (University of Pisa), Francesca Cecconi (University of Pisa), Simona Turbanti (University of Pisa)

***Module 1** - The role of institutional repositories for the dissemination of scientific research.*
Description: the course aims at offering an in-depth description of the ARPI institutional repository, its many features and functions as a tool for dissemination and valorization of research produced at the University of Pisa.
Dates: 20 March 2020
Duration: 3 hours
Academics: Sandra Faita (University of Pisa), Chiara Letta (University of Pisa)

Module 2 - *Research evaluation and tools available at the University of Pisa for the SSH sector.*
Description: the course will provide a framework of the aims and characteristics of the evaluation of scientific research highlighting the tools available at the University of Pisa for the human and social sciences.
Dates: 3 April 2020
Duration: 3 hours
Academics: Francesca Cecconi (University of Pisa), Simona Turbanti (University of Pisa)

3. Gender Issues and University. Research, Education and Institutional Engagement
Coordinator: Elettra Stradella (University of Pisa)
Prerequisites: none
Description: the course aims at providing cross-disciplinary knowledge on the importance of gender in scientific research and the approach to research. The aim is also of making the PhD students investigate the critical issues in the academic context in terms of equal opportunities in academic careers, gender discrimination in research, and tools to promote equality and enhance identities in research activities and teaching.
The first part will deal with the analysis of gender and its relevance as a transdisciplinary point of view in research. It will provide data analysis and a female career monitoring, with particular attention to those in the STEM field. It will focus on gender budgeting in universities, presenting functions and implemented experiences. The second part (STEM) will explore an investigation on ICT and women, stereotypes and transformations. For SSH, the course will focus on legal, social and humanistic disciplines, and gender studies: the "genderization" of the research contents; and on gender issues and funding opportunities at the European level.
Course evaluation tests will follow.
Dates: Friday, 5 June 2020.
Duration: 8 hours
Academics: Nadia Pisanti (University of Pisa), Silvia Cervia (University of Pisa), Lucia Pallottino (University of Pisa), Elettra Stradella (University of Pisa)

***Module 1** - Introduction and initial analysis.*
Language: Italian or English
Description: the first part will deal with the analysis of gender and its relevance as a transdisciplinary point of view in research. It will provide data analysis and a female career monitoring, with particular attention to those in the STEM field. It will focus on gender budgeting in universities, presenting functions and implemented experiences. Course evaluation will follow.
Dates: 5 June 2020 (morning)
Duration: 4 hours

***Module 2** - Thematic and disciplinary in-depth analysis*
Language: Italian
Description: paths on a specific area of interest: legal, social, humanistic disciplines and gender studies: the "genderization" of the research contents; gender issues and funding opportunities at the European level. Course evaluation will follow.
Dates: 5 June 2020 (afternoon)
Duration: 4 hours

UNIT IV - RESPONSIBLE RESEARCH AND INNOVATION

For all PhD students

Coordinator: Enza Pellecchia (University of Pisa)
Academics: Gianluca Brunori (University of Pisa), Simone D'Alessandro (University of Pisa), Francesco Di Iacovo (University of Pisa), Sonia Paone (University of Pisa), Enza Pellecchia (University of Pisa), Luigi Pellizzoni (University of Pisa), Eleonora Sirsi (University of Pisa), Matteo Villa (University of Pisa), Maria Luisa Chiofalo (University of Pisa)
Duration: 8 hours
Dates: Friday, 12 June 2020 (morning and afternoon)
Language: Italian
Prerequisites: none
Description: this educational day aims at informing/making aware the participants concerning RRI (Responsible Research Issues) with its principles and topics. The idea is promoting among PhD students, reflection and self-reflection on the activities, methods and subjects of research according to RRI. Some great experts' perspectives and motivations will help the process. Participants will also be informed of the importance of this perspective in the EU context and the role the University of Pisa intends to have. A possible interest to continue this reflection in the future could be verified through other initiatives.

UNIT V - FORGERY AND FAKE NEWS

For all PhD students

Coordinator: the course has been planned by the coordinators of PhD programmes in Linguistic Studies and Foreign Literatures, Philosophy, Classical Studies and Archaeology, Political Sciences, History and Italian Studies, but it may also interest students of other PhD programmes.
Academics: Roberta Bracciale (University of Pisa), Silvia Corbara, Elena Dundovich (University of Pisa), Maurizio Iacono, Walter Lapini, Alejandro Moreo, David Puente, Giovanni Salmeri (University of Pisa), Fabrizio Sebastiani, Mirko Tavoni (University of Pisa)
Duration: 20 hours
Dates: February - May 2020 (see the schedule for each module)
Language: the course could be held either in Italian or English language, according to the students'requests.
Prerequisites: none
Description: starting from cases of philological and attribution- process analysis, the course aims at providing theoretical knowledge on new IT patterns to detect literary forgeries or, generally speaking, falsely attributed written works, as well as practical exercises essential to identify fake news in big data on the internet. The course will be carried out through four modules.

Module 1 – *Theoretical approach to forgery in epistemological and political sciences.*
Dates: 28 February 2020
Duration: 6 hours
Teachers: Maurizio Iacono, Roberta Bracciale (University of Pisa)

Module 2 – *Systemic approach to big data and textual data for the detection of forgeries.*
Dates: 7 March 2020
Duration: 4 hours
Academics: Silvia Corbara, Fabrizio Sebastiani, Alejandro Moreo, Mirko Tavoni (University of Pisa)

Module 3 – *Practical approach to works falsely attributed to ancient or modern authors; sources verification (Greek-Latin culture, Middle Ages, Modern History)*
Dates: 24 April (morning, 22 May 2020 (morning)
Duration: 6 hours
Academics: Giovanni Salmeri (University of Pisa, 24 April, 2h); Walter Lapini (22 May, 2h), Elena Dundovich (University of Pisa, 22 May, 2h)

Module 4 – *Experimental analysis of forgeries, fake news, fact-checking.*
Dates: 24 April 2020 (afternoon)
Duration: 4 hours
Academics: David Puente

ENGLISH FOR RESEARCH PUBLICATION AND PRESENTATION PURPOSES

Academics: Joanne Spataro, Andrea Schiffer

Target: all first-year PhD candidates of both the SSH e STEM sectors. Candidates should have at least a B2 Level Proficiency of English. To access the course, PhD candidates will have to sit an entry test in order to determine their language level proficiency. The entry test will be held starting from 13 December at the CLI (Language Center) in Via S. Maria, 36. The venue and the schedule of the entry test will be notified in advance. Based on the entry test results, PhD candidates will be able to attend one of the following courses:

Introduction to ENGLISH FOR RESEARCH PUBLICATION AND PRESENTATION PURPOSES (B2 LEVEL)

ENGLISH FOR RESEARCH PUBLICATION AND PRESENTATION PURPOSES (C1 LEVEL)

PhD candidates will be divided into classes and will have to attend a 3-hour lesson once a week for a total of 30 hours. The Courses will be indicatively held in the period (mid-January - March). At the end of the course, PhD candidates will be assessed both in their academic writing and academic presentation skills. The Language Center will issue a Certificate in “English for Research Publication and Presentation Purposes” (B2 or C1 Level).

Language: English

Description: this course aims to give an implementable method and guidance for scientific publication and presentation skills. The intent is to help the PhD candidates become members of the academic community by enhancing their chance of publishing and presenting scientific manuscripts. While learning the whole chain of the scientific publishing and the presentation processes, PhD candidates will also be challenged with their “soft skills”, such as team-working, critical thinking, social skills, creativity, interpersonal communication, problem-solving and flexibility. Another essential aim will be that of helping candidates gain a cross-cultural awareness of international networking and academic communities. It is only by giving PhD candidates all the competencies as mentioned earlier that they will be able to obtain international visibility both for their research field and their prospective work environment.

Schedule for cross-cutting learning activities a.y. 2019/2020

Friday, 24 January 2020
- 4h (afternoon) – SSH – IT Tools for Doctoral Research

Saturday, 25 January 2020
- 4h (morning) – STEM – IT Tools for Doctoral Research

Friday 31 January 2020
- 4h (afternoon) – STEM – Open Science and RDM. Modules 1 and 2

Friday, 7 February 2020
- 4h (morning) – STEM – Open Science and RDM. Modules 3 and 4
- 4h (afternoon) – STEM – Open Science and RDM. Modules 5 and 6
- 4h (afternoon) – SSH – Open Science and RDM. Moduli 1 and 2

Friday, 14 February 2020
- 4h (morning) – STEM – Open Science and RDM. Modules 7 and 8
- 4h (afternoon) – STEM – Open Science and RDM. Modules 9 and 10

Friday, 21 February 2020
- 4h (morning) – SSH – Open Science and RDM. Modules 3 and 4
- 4h (afternoon) – SSH – Open Science and RDM. Modules 5 and 6

Friday, 28 February 2020
- 6h (morning and afternoon) – SSH – Forgery e Fake News. Module 1 - Theoretical approach to forgery in epistemological and political sciences

Friday, 6 March 2020
- 4h (afternoon) – SSH – Open Science and RDM. Modules 7 and 8

Saturday, 7 March 2020
- 4h (morning) – SSH and STEM – Forgery e Fake News. Module 2. A systemic approach to big data and textual data for the detection of forgeries

Friday, 13 March 2020
- 4h (afternoon) – SSH – Open Science and RDM. Modules 9 and 10

Friday, 20 March 2020
- 3h (morning) – STEM and SSH – Promoting Research Outputs, Module 1.The role of institutional repositories for the dissemination of scientific research

Friday, 3 April 2020
- 3h (morning) – STEM – Promoting Research Outputs. Module 2. Research evaluation and tools available at the University of Pisa for the STEM sector
- 3h (morning) – SSH – Promoting Research Outputs. Module 2. Research evaluation and tools available at the University of Pisa for the SSH sector

Friday, 24 April 2020
- 6 h (morning and afternoon) – SSH – Forgery and Fake News:
  - 2h (morning) Module 3. A practical approach to works falsely attributed to ancient or modern authors; verification of sources (Greek-Latin culture, Middle Ages, Modern History)
  - 4h (afternoon) Module 4 (lab) - Experimental analysis of forgeries, fake news, fact-checking.

Friday, 15 May 2020
- 4h (morning or afternoon) – SSH – The role of Statistics in Research

Saturday, 16 May 2020
- 4h (morning) – STEM – The role of Statistics in Research

Friday, 22 May 2020

- 4h (morning) – SSH – Forgery e Fake News. Module 3 Practical approach to works falsely attributed to ancient or modern authors; verification of sources (Greek-Latin culture, Middle Ages, Modern History).
- 4h (afternoon) – STEM – Statistic and causality

Friday, 29 May 2020

- 4h (morning or afternoon) – SSH – Statistic and causality

Friday, 5 June 2020

- 8h (morning and afternoon) Gender Issues and University – (4h for STEM and SSH together; 4h for STEM students and 4h for SSH students)

Friday, 12 June 2020

- 8h (morning and afternoon) – SSH and STEM – Responsible Research and Innovation

HIGHLY QUALIFIED COURSES FOR PHD STUDENTS

CONTAMINATION LAB 2020

A LAB: a physical and virtual space for meeting and contamination to train students and researchers in the entrepreneurial culture (self-entrepreneurship) and make startups and aspiring entrepreneurs aware of the possibilities to economically support the creation of a creative and innovative business. Contamination Lab furthermore fosters a network of contacts and opportunities for comparison among universities, research and local businesses.
A LEARNING OPPORTUNITY: the development of skills complementary to the degree programme aims at helping the youth entrepreneurship ("self-entrepreneurship – the start-up of You") and steering students towards the business world.
AN EXPERIENCE EXCHANGE: a project based on the idea of CLab as the heart of a cyclic innovation process, being contaminated with good practice developed by other research centres or other CLabs.
https://www.unipi.it/index.php/trasferimento/itemlist/category/467
http://contaminationlab.unipi.it/

PHD+ SCHEDULE
Centro Congressi Le Benedettine, Piazza San Paolo Ripa d'Arno 16, Pisa

Lecture	Dates	Scheduled Time	Title	Description
1	14/01/2020	2 (15.00 – 17.00)	*Inauguration Day CLab 2020*	
2	15/01/2020	2 (15.00 – 17.00)	*What is Innovation*	What is innovation and how to manage it. Innovation as an entrepreneurship or intrapreneurship opportunity. Innovation and intellectual property. What is a patent.
3	16/01/2020	2 (15.00 – 17.00)	*What is a startup*	Structure of a correct startup and lean startup. Link to market. Startups typical lifecycle. Why many startups fail. Evolution Scenario.
4	21/01/2020	2 (15.00 – 17.00)	*Open Innovation*	The role and opportunities of highly innovative startups in the existing innovation market. The potential synergies between innovative startups and big companies. Open innovation.
5	22/01/2020	2 (15.00 – 17.00)	*Creativity and Innovation*	How creativity positively affects an innovative startup
6	23/01/2020	2 (15.00– 17.00)	*Lab: Creativity and Innovation*	Workshop on creativity in innovative startups
7	28/01/2020	2 (15.00 – 17.00)	*Startups operating in Life Science*	Special character of startups operating in life science. The lifecycle of a medical/pharmaceutical product. Legal requirements for a medical device
8	29/01/2020	2 (15.00 – 17.00)	*Startups operating in Third Sector*	Special character and opportunities for startups operating in the Third Sector. Economical and financial sustainability
9	30/01/2020	3 (15.00 – 18.00)	*Business Model Canvas*	How to design and scale business in an ever-changing context.

Lecture	Dates	Scheduled Time	Title	Description
10	04/02/2020	3 (15.00– 18.00)	*Economical and financial Planning and Sustainability*	The value of a business planning at the startup design stage. Financial support opportunities for startups
11	05/02/2020	2 (15.00– 17.00)	*Intellectual Property*	Enhancement and management of Intellectual Property
12	06/02/2020	2 (15.00 – 17.00)	*How to sell anything in one minute*	How to sell anything in one minute. Elevator pitch
13	11/02/2020	2 (15:00 – 17:00)	*Industry 4.0*	What is Industry 4.0? Requirements for business companies
14	12/02/2020	2 (15.00 – 17.00)	*Growth Hacking*	Growth Hacking as crucial strategy of growth
15	13/02/2020	3 (15.00 – 18.00)	*Final Day*	Final presentation of innovative ideas

Project financed by the Cohesion and Development Fund 2014 – 2020: «Research and Innovation 2015-2017 that is an integral part of the National Research Programme 2015-2020
For further information please contact: clab@unipi.it

CYB+ SCHEDULE
Aula B Centro Congressi Le Benedettine, Piazza S. Paolo a Ripa d'Arno 16, Pisa

	Module	Dates	Scheduled Time (Lectures +Lab)	Title	Description
Basics of Business Creation	1	18/02/2020 19/02/2020	2+2 15,00 – 17:00	*From the Idea to Business*	Lean Canvas. Innovation Maze. Lean Start up. From Business Model Canvas to a detailed business model.
	2	20/02/2020 25/02/2020	2+2 15,00 – 17:00	*Market Analysis*	Market analysis: potential customers, assessment of reference market; competitor analysis and SWOT analysis
	3	26/02/2020 27/02/2020	2+2 15,00 – 18:00	*Team Building*	Competencies required in a startup. Building a right and functional team.
Tools useful for Business Creation	4	03/03/2020 04/03/2020	2+2 15,00 – 18:00	*Marketing Techniques*	Introduction to Marketing. Different types of Marketing strategies. Marketing mix.
	5	05/03/2020 10/03/2020 11/03/2020 12/03/2020	3+3+3+3 15,00 – 18:00	*Business Plan*	Economical and financial analysis. Full cost and price management. Monitoring systems. Internal feasibility study.
	6	17/03/2020	2 15,00 – 17:00	*Funding a startup*	Fundraising techniques for startups at the design stage. Selecting the right funding for a startup. Crowdfunding
	7	18/03/2020	3 15,00 – 18:00	*Creating a start-up: legal requirements*	Legal requirements to create startups. Special features of an innovative startup: fiscal benefits. Compensation schemes for partners and employees
Presentation of a business project	8	19/03/2020	3 15,00 – 18:00	*Storytelling*	Promoting an innovative idea or a startup.
	9	24/03/2020 26/03/2020	2+2 15,00 – 17:00	*Elevator pitch*	Tips for pitching your idea to investors.
	10	31/03/2020	2 15,00 – 17:00	*Proprietà Intellettuale*	Creating innovation. Enhancing the intellectual property.
	11	To be defined	3 15,00 – 18:00	*Final Day of CLab 2020*	Final presentation of business ideas

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For further information please contact: clab@unipi.it

SOFT SKILLS FOR THE BUSINESS OF THE FUTURE

Due to the rapid changes of the world of work, it is even more necessary to acquire both hard skills (technical competences traditionally provided by degree programmes) and the so-called soft skills, that are cross-cutting competencies such as people management, critical thinking and creativity, negotiation and coordination with others, judgement and decision making. Those soft skills are essential for the creation of new business and in any workplace. The course foresees 6 modules as follows:

Module 1 – *Soft Skills and Emotional Intelligence*
Soft skills and emotional intelligence in a company: the ability to understand and manage your own emotions and recognise those of others.

Module 2 – *How to manage a business meeting*
Meetings are crucial to share business problems or to make decisions. Nevertheless, it is complicated to arrange and manage a productive meeting. This module aims at analysing the factors which affect the meeting, by examining cases of success and failure, as well as the management of space, time and relationships.

Module 3 – *The team: selection and hiring*
How to select the right staff. How to understand and manage the different roles, considering education, training, gender and generation diversity. Identifying the main factors that affect the quality of interactions is essential to understand and manage the situations where those interactions take place, making everybody able to express themselves, improve and feel appreciated.

Module 4 – *Team working: how to build a strong team spirit*
Motivation, knowledge sharing and participation are never to take for granted in team working, that requires as well the capability to understand what improves (or worsens) the quality of the working environment and the relations established over time.

Module 5 – *Management of mistakes and anomalies: Black Box Thinking*
Uncertainty, hesitation, mistakes and anomalies are not to be ignored but managed in different ways. Usually, people tend to "repress" them neglecting opportunities for improvement that may arise from mistakes and anomalies. The module will analyse the Black Box Thinking, a method to deal with anomalies, considering the main aspects of the organizational culture of some great companies (such as Tram Ciclistico, Sky, team Mercedes in Formula 1, Google, Pixar…)

Module 6 – *Stand up!*
Tips on how to prepare an engaging and persuasive speech.

Seminars will be held in June 2020, on dates that will be duly notified.

MODULES	SCHEDULE TIME	TITLES	SPEAKER
1	3 (14:30 -17:30)	*Soft Skills and Emotional Intelligence*	To be confirmed
2	3 (14:30 – 17:30)	*How to manage a business meeting*	To be confirmed
3	3 (14:30 – 17:30)	*The team: selection and hiring*	To be confirmed
4	3 (14:30 – 17:30)	*Team working: how to build a strong team spirit*	To be confirmed
5	3 (14:30 – 17:30)	*Management of mistakes and anomalies: Black Box Thinking*	To be confirmed
6	2	*Stand up!*	To be confirmed

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DIGITAL CULTURE SEMINAR

The seminar module is intended for the students of the Master's Degree Programme in Humanistic IT at the University of Pisa, and it provides all PhD students with an update on possibilities and problems arising from the Digital Humanities research.
The module foresees 18-20 seminars of 2 hours each, dealing with relevant topics on Digital Humanities.
Seminars will be held over the whole academic year, with a weekly meeting, on Wednesday at 14.00, in "Aula Seminari EST" of the Department of Computer Science.

Enrica Salvatori and Maria Simi coordinate this project.

The schedule of seminars for 2019-2020 is available at http://www.labcd.unipi.it/calendario/