The EPFLinnovators training programme includes a transferable skills training of 9 ECTS, which should be composed as follows:

<table>
<thead>
<tr>
<th>TECHNOLOGY TRANSFER AND ENTREPRENEURSHIP SKILLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD students must follow one of these 3 courses</td>
</tr>
</tbody>
</table>

**Management of Innovation and technology transfer (MINTT)**  
**Who?** EPL Technology Transfer Office (TTO) and invited speakers  
**Content**  
Accelerated training in invention management, assessment of the potential, intellectual property rights elaboration, license negotiation, start-up option evaluation and experience sharing in the field of innovation.  
**Outcome**  
By the end of the course, the student will be able to:  
- Learn about technology transfer from the perspective of a researcher  
- Have a good general knowledge about intellectual property matters and licensing  
- Recognize major success and failure factors  
- Learn from experiences of others  
**More info** [http://mintt.epfl.ch](http://mintt.epfl.ch)

**Technology ventures in IC**  
**Who?** Prof. Edouard Bugnion, Adjunct Professor (EPFL)  
**Content**  
Working in teams, students will learn the fundamentals of:  
- Opportunity assessment  
- Customer development and validation  
- Business model alternatives  
- Intellectual Property  
- Strategy and Financial planning  
- Go-to-market, launch, and growth  
**Outcome**  
By the end of the course, the student must be able to:  
- Analyze a business plan  
- Create a business plan  

**Innosuisse Business Concept**  
**Who?** Innosuisse  
**Content**  
The Innosuisse Business Concept program, designed for ambitious researchers, students & faculty members of Swiss Universities and research institutes, is a fast track and hands on entrepreneurship training taught by seasoned entrepreneurs.  
**Outcome**  
By the end of the course, the student will be able to:  
- Apply the gained knowledge to real life business projects
**TEACHING AND PRESENTATION SKILLS**

PhD students must follow one of these 2 courses

<table>
<thead>
<tr>
<th>Course</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science and Engineering Teaching and Learning</td>
<td>2</td>
</tr>
<tr>
<td>Lecturing and Presenting in Engineering</td>
<td>2</td>
</tr>
</tbody>
</table>

**Science and Engineering Teaching and Learning**

**Who?** EPFL Teaching support center

**Content**
This course introduces contemporary research findings in the teaching and learning of science and technology subjects in higher education, develops participants' teaching skills, and provides a framework for ongoing development of their skills through evaluation of their own teaching practices.

**Outcome**
By the end of the course, the student will be able to:
- Evaluate up-to-date developments in learning sciences related to teaching and learning of science and engineering in higher education
- Demonstrate skills in presenting for learning, in tutoring and in giving students feedback
- Improve their own practice through systematically evaluating their own teaching input


**Lecturing and Presenting in Engineering**

**Who?** EPFL Teaching support center

**Content**
Intensive week to discover and practice effective research-supported strategies for lecturing and presenting in science and engineering.

**Outcome**
By the end of the course, the students will be able to:
- Structure presentations to effectively communicate key messages, including a special focus on how to incorporate and visually represent data
- Deliver teaching content effectively across different levels of study (Ba,Ma)
- Interpret, elicit, and manage student responses to improve learning
- Use slides/blackboard/paper to present information in a clear, organised manner
- Differentiate one’s own response to a presentation from the message of the presentation

More info: [http://phd.epfl.ch/skills_courses](http://phd.epfl.ch/skills_courses)

**TECHNOLOGY AND PUBLIC POLICY**

PhD students must follow one of these 4 courses (unless the 4 ECTS Innosuisse or Technology Ventures in IC course was chosen)

<table>
<thead>
<tr>
<th>Course</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology and Public Policy (a) Science, Technology and Society</td>
<td>2</td>
</tr>
</tbody>
</table>

**Who?** Various lecturers

**Content**
The course offers a broad introduction to science, technology and society from a historical and epistemological perspective, sensitizing the students to the relationships between technology and society in a broad sense (economics, politics, culture).

**Outcome**
By the end of the course, the student will be:
- Knowledgeable about the various infrastructure policies and regulations, the nature of policies and regulation in these sectors, as well as the dynamics of both the industries and corresponding policies and regulations
### Technology and Public Policy (b) Technology, policy and regulation | 2 ECTS

**Who?**  
Prof. Matthias Finger, Full Professor (EPFL)

**Content**  
The course offers an introduction to technology policy and regulation with a particular focus on the infrastructures. In these infrastructures technology policy and regulation basically translates into sectoral (e.g. energy, transport, water) and cross-sectoral approaches (information society).

**Outcome**  
By the end of the course, the student will be:
- Knowledgeable about the various infrastructure policies and regulations, the nature of policies and regulation in these sectors, as well as the dynamics of both the industries and corresponding policies and regulations
- Capable of executing a corresponding personal analysis

More info [http://phd.epfl.ch/skills_courses](http://phd.epfl.ch/skills_courses)

### Technology and Public Policy (c) Technology, intellectual property and innovation policy | 2 ECTS

**Who?**  
Prof. Gaëtan de Rassenfosse, Assistant Professor (EPFL) and various lecturers

**Content**  
The course offers an introduction about what science, technology and innovation (STI) support tools exist and why, will explain the rationales and best practices for STI policy intervention and will provide with a sound understanding of why taxpayer money should be used and how to finance STI activities.

**Outcome**  
By the end of the course, the student will be able to:
- Explain the rationales for public support of STI activities
- Describe the main tools available to policy makers
- Propose a methodology for evaluating a policy intervention

More info [http://phd.epfl.ch/skills_courses](http://phd.epfl.ch/skills_courses)

### Technology and Public Policy (d) Technology policies and for grand and global challenges | 2 ECTS

**Who?**  
Prof. Dominique Foray, Full Professor (EPFL)

**Content**  
This course is about how to structure a policy response to the so-called Grand Challenges (climate change or global health). It examines mission-oriented R&D programs in various sectors as well as specific policy instruments to learn about the best ways to accelerate innovations in a given sector.

**Outcome**  
By the end of the course, the student will be able to:
- Understand the centrality of technology policy in order to meet Grand Challenges
- Appreciate the role, procedure and design’s implications of sector non neutral policies in order to address any Grand Challenge

More info [http://phd.epfl.ch/skills_courses](http://phd.epfl.ch/skills_courses)

### OTHER COURSES

The following courses are mandatory

### Entrepreneurial Opportunity Identification & Exploitation | 2 ECTS

**Who?**  
Prof. Marc Gruber, Full Professor (EPFL) & Dr. Sharon Tal (EPFL),

**Content**  
This course focuses on the process of linking technology to market opportunities. Students will gain theoretical and practical knowhow on the process of market
<table>
<thead>
<tr>
<th><strong>Ethics, Social issues and Responsible Research and Innovation (RRI)</strong></th>
<th><strong>0 ECTS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Who?</strong></td>
<td>Prof. Lazare Benaroyo, Gaia Barazzetti, Alain Kaufmann (UNIL)</td>
</tr>
<tr>
<td><strong>Content</strong></td>
<td>The aim of the course is to provide the fellows with a general introduction to ethics and ethical codes in research. The course will help the fellows to identify the ethical issues in their research project, whether as part of the research community (scientific integrity, plagiarism, etc.) or as part of society as a whole (social, economic, legal, political aspects). The course aims to develop responsible scientific activity.</td>
</tr>
</tbody>
</table>
| **Outcome** | By the end of the course, the student will have:  
- An increased understanding of research ethics in general and the codes/regulations governing ethics in research  
The ability to identify the ethical issues in their own research projects, to deliberate ethical issues within an interdisciplinary framework and to come to a decision on the ethical questions |

Disclaimer: The training programme list and the content of each course is subject to change.

Thursday, 20 September 2018

---

1 University of Lausanne