This is a translated version. In case of discrepancy the Swedish version prevails.

Writing a Horizon Europe research proposal, 7,5 credits

Att skriva en Horisont Europa forskningsansökan, 7,5 högskolepoäng

Course code:	FOID009
Third-cycle subject:	Industrial Systems, Innovation and Design, Computer Science and Energy- and Energy and Environmental Engineering
School:	IDT
Valid from:	250101
Established by:	Dean of School IDT
Decision date:	241213
Last modified:	
Level of education:	Third cycle level

Course objective

That the doctoral students are involved and gain experience in leading research applications to Horizon Europe.

Course content

Lectures on Horizon Europe and method for coordinating and writing applications for collaborative, industry-research applications. Training to assimilate skills and experience in this area. To persuade the doctoral students to coordinate and lead an application, involving companies and researchers. To write an application that is possible to submit in the course.

Create an account on the portal, how to find a topic through the "apply for funding" function, reflect on how to create a consortium, actually do this, and in writing: how to meet the Section 1 criteria and SMART objectives, How to formulate outcomes and wider impact – vs results, how to write so that the evaluator can follow the thread in each direction, how to formulate work packages, familiarize yourself with WBS.

Intended learning outcomes

1. Understand the structure and content of Horizon Europe calls.
2. Find a suitable "area" in relation to your own research.
3. Create consortia and involve companies in Sweden and abroad (using tools and events, with social skills)
4. Writing the application and coordinating partners to contribute (involving social skills and planning)
5. Submitting the application (which involves certain administrative skills).

The intended qualitative targets in relation to the Higher Education Ordinance, appendix 2.

Knowledge and understanding

For the Degree of Doctor, the doctoral student shall demonstrate:

- A1: broad knowledge and systematic understanding of the research field as well as advanced and up-to-date specialised knowledge in a limited area of this field, and
- A2: familiarity with research methodology in general and the methods of the specific field of research in particular.

Competence and skills

For the Degree of Doctor, the doctoral student shall demonstrate:

- B1: the capacity for scholarly analysis and synthesis as well as to review and assess new and complex phenomena, issues, and situations autonomously and critically,
- B2: the ability to identify and formulate issues with scholarly precision critically, autonomously, and creatively, and to plan and use appropriate methods to undertake research and other qualified tasks within predetermined time frames and to review and evaluate such work,
- B4: the ability in both national and international contexts to present and discuss research and research findings authoritatively in speech and writing and in dialogue with the academic community and society in general,
- B5: the ability to identify the need for further knowledge, and
- B6: the capacity to contribute to social development and support the learning of others both through research and education and in some other qualified professional capacity.

Judgement and approach

For a Degree of Doctor the doctoral student shall demonstrate

- C1: intellectual autonomy and disciplinary rectitude as well as the ability to make assessments of research ethics, and
- C2: specialised insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used.

Teaching formats

Lectures, seminars, workshops, excursions.

The lectures should cover all relevant topics to find a call/topic, get support from your own organization, gather a consortium, organize the writing (including the specific requirements for each section etc) and submit an application. The seminars will cover the same process where the students get to present what they did and get feedback from other students. The workshops will be guided by achieving the specific objectives of each section and stage of the application.

The excursions can be of two kinds, either visits to real estate events or other networking events to find partners, or early consortium meetings.

Examination

SEM1, Seminar, 1.5 credits (Examines intended learning outcomes 1,3 and 5) – the students present parts of the application that they have developed, and are reviewed by fellow students who oppose.
GRU1, Group assignment 5 credits (Examines intended learning outcomes 4) – preparation of a valid completed application, and mutual evaluation of it.
INL1, Assignment, 1 credit (Examines intended learning outcomes 2) – a valid completed application.

Grade

Examinations included in the course are assessed according to a two-grade scale, fail or pass.

Grades are to be decided by a teacher specially appointed by the university.

A person who has not passed the regular examination shall be given the opportunity to retake the test.

Requirements

To participate in the course and the examinations included in the course, the applicant must be admitted to doctoral studies.

Specific entry requirements

- No specific entry requirements

Selection criteria

Selection of applicants will be made in accordance with the ranking below.

1. Doctoral students in Industrial Systems, Computer Science, Innovation and Design or Energy and Environmental Engineering that has reached licentiate level (or equivalent). Priority for students in the IndTech PhD Graduate School
2. Doctoral students at Mälardalen University
3. Doctoral students at other universities

Transitional and other provisions

People other than students can join the course without participating in examinations or counting on supervision.