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TECHNICAL UNIVERSITY OF KOŠICE

UNIVERSIDAD DE GRANADA

University of Hradec Králové

SYLLABUS STRUCTURE

1 Number and Name of Module

M03 - Assessment of feasibility

2 Description of Module

With the spread of Internet and the better access of the population to high-level studies, there are more researchers than ever. Nevertheless, not all the research that is carried out is appropriate for being commercialize or to get profit from it. Some of them are theoretical or need practical applications in order for the society to get benefit from it. Therefore, it is important to be able to analyze research results in order to establish if some research results are prepared for transfer or more work or another approach should be followed. This step is critical since putting into market a research result that is not prepared will end up in the loss of the money that has been invested. This module will teach which is the more important criteria and steps to be carried out in order to determine if some research is prepared for commercialization and transfer. This module is a critical one since it allows researchers to learn how to plan their research to be usable in real life.

The aim of the module is to introduce to students types of feasibility study, assessment of research project and learn students how to prepare proof of concept.

3 Course Goals and Outcomes

The main goals and outcomes of this module are specified below:

- Teach researchers which steps they need to follow on their research in order to determine if it is applicable and usable in real life situations.
- Learn several methodologies that can be applied in order to determine if certain research is profitable.
- Learn how to replan ongoing research in order to be applicable for transfer purposes.

- Calculate the probability that a certain research result will succeed when trying to make profit of it.
- Prepare feasibility study f own research project.
- Design the proof of concept of research project.

4 Time Allocation per Module

4 hours

5 Target Group

Researchers, Ph.D. students, Master students

6 Teaching Methods

The frontal method of teaching by lecturing with the help of Trainer's presentation shall be used. This shall be supported by providing Study materials to participants. Emphasis shall be placed on Group discussions.

In case of Online teaching, the use of computer (or similar device) is mandatory.

7 Teaching Forms

On-site/Online

8 Teaching/Training Competences and Experience for Lector

Lector should have practical teaching skills and should be able to engage with the module subject and its participants as well.

Lector should have vast knowledge in the field of technology transfer and should have a practical personal experience with technology transfer, with focus on R&D institution, be familiar with assessment and feasibility study (at least 3 years).

The lector that is in charge of teaching this module to students must have experience in transfer activities. If possible, he/she should have conducted feasibility assessment tasks on other researchers work. Also, it would be of interest if the reader has conducted research that has gone through a process of feasibility analysis. This way, he/she can transmit his/her personal experience to the students along with the subject agenda.

9 Knowledge and Skills Obtaining by this Module

As a results of this module, participants will be able to:

- describe the main five 5 types of feasibility studies understand the role of intellectual property in technology transfer process,
- describe the contents of a feasibility study,
- understand the proof of concept.

10 Required Text and Study Materials

Module syllabus structure;

Study material;

Trainer's presentation.

11 Recommended Literature

Howlett. (2010). Innovation through Knowledge Transfer (1st ed. 2010.). Springer Berlin Heidelberg. https://doi.org/10.1007/978-3-642-14594-0

Matkin, G. W. (1990). Technology transfer and the university. Macmillan Publishing Company, 866 Third Ave., New York, NY 10022.

Afaf, M. (1987). FEASIBILITY STUDIES AND TECHNOLOGY TRANSFER. Strategic Studies, 10(2), 41-55.

Schmoch, U., Reid, P. P., Encarnacao, J., & Abramson, H. N. (Eds.). (1997). Technology transfer systems in the United States and Germany: Lessons and perspectives. National Academies Press.

Kaspersen, K., & Aaboen, L. (2021). Feasibility studies at CERN: CERN as a technology provider for startups. In Innovation in Global Entrepreneurship Education. Edward Elgar Publishing.

12 Testing Set - Evaluation/Grading Criteria

Participant's successful completion of the module shall be evaluated by test. For successful passing test it is need to obtain a minimum of 70 % points. The course will be evaluated by asking the students to carry out a feasibility analysis over some real case research. They need to establish the steps that need to be follow in order to carry out a thorough analysis of the research results and provide some advice to the analyzed research responsible researchers. Students will submit a report describing the carried-out process and the obtained results. This report will decide the final grade of the student in the course.