

Deeptech Entrepreneurship Course

Teacher: Céline Béji

Location: LAMSADE, Université Paris Dauphine - PSL

Audience: PhD students and researchers

Duration: 2 sections of 3 hours

Objectives: Deeptech entrepreneurship skills and knowledge to transform research into commercially viable cutting-edge technological innovations. The course aims to stimulate the spirit of entrepreneurship, providing tools for market access including business model development, financing strategies and technology commercialisation.

Description

This course on entrepreneurship and innovation in deep technologies is designed for PhD students and researchers who want to turn their breakthrough research into viable innovations and successful deep technology start-ups. It covers the essential skills and knowledge needed to move from a research project to a marketable disruptive innovation. The programme is designed to introduce participants to the fundamental aspects of building a deeptech company, focusing on market dynamics, ecosystem integration and developing a solid business model. Key elements include building an effective team, aligning the product with market needs, securing funding and understanding legal and regulatory requirements.

The course emphasises practical learning by illustrating all concepts through the study of the “MyTreatment” project, which is developing AI tools for personalised prescribing of cancer treatments.

By the end of the course, participants will have a comprehensive overview of the entrepreneurial process in the deeptech context, and will be equipped with the tools and confidence to transform their innovative research into ready-to-market solutions.

Pre-requisites

- Advanced expertise in a scientific field
- Research experience
- An open and innovative mindset, willing to explore new ideas and approaches

Topics

Part I: Foundations of a Deeptech Project

1. Cutting-edge technological innovation
2. Market Dynamics
3. Ecosystem Integration

Part II: From Idea to Execution

1. Building a Strong Team
2. Market Alignment and Engagement
3. Securing Funding and Resources
4. Navigating Legal and Regulatory Requirements
5. Scaling Up Successfully

Evaluation

Presentation of a 90-second pitch that highlights the market potential of your research, outlines the envisaged business model and explains the proposed organisational structure of the emerging startup.

References

C. BEJI, Research Project to Innovation: The case of MyTreatment (Report)