



DOCTORAL RESEARCH IN ECONOMICS AND MANAGEMENT OF TECHNOLOGY (DREAMT) 2016 EDITION

Introduction

The Ph.D. program in Economics and Management of Technology (**DREAMT**), run by the Department of Economics and Management of the University of Pavia and by the Department of Management, Information and Production Engineering of the University of Bergamo, offers both instrumental and specialised competencies in the field of Applied Economics, Management of Technology and Innovation. It brings together different approaches to understand and to develop the management of companies in a world with fast technology progress, global competition, and a demand for sustainable growth.

The PhD program offers two different curricula:

- **Applied Economics and Management**
- **Innovation and Technology Management**

Both curricula are designed to develop interdisciplinary research profiles capturing social, economic, managerial and technological competences that may be allocated both in research institutions and in business companies.

Ph.D. students involved in the **Applied Economics and Management** curriculum will be engaged in research activities on transportation and network industries, health care, quantitative methods, corporate strategies, management control systems, innovation management and policies, international business, entrepreneurship, corporate and business financing.

The curriculum in **Innovation and Technology Management** focuses on the development and the management of innovative processes in different organisations and contexts. In particular, adopting both a theoretical and practical perspective the track explores how technology can influence the innovation management in in complex environments.

PhD program structure

The PhD program is based on a **three-year research activity**. It is coordinated by the Faculty Committee, which is also responsible for selecting each PhD student's supervisor. The Committee periodically verifies that the students successfully fulfil all the requirements to achieve the final degree.

During the **first year**, students attend advanced courses on quantitative methods and acquire in-depth competencies in the following areas: Economics, Management, Quantitative Methods, Research Methodologies and Technology. **Students have to pass exams.**

During the **second year**, Ph.D. students choose the topic of their dissertation thesis. In order to strengthen their specific competence, they typically *spend this year abroad* attending specialized courses in foreign universities and/or research centres. **Students have to give a seminar on their research projects and on their first research paper.**

The **third year** is dedicated to the completion of the thesis. The latter must adequately comply with international standards. Students give a **final seminar on the results they have achieved**. After that, they have to submit their thesis to two referees and then refine their research according to the received reports. After the final approval of the two referees they will have to defend their thesis with a jury composed of an international panel of academic experts. If the discussion is successful, students receive the Ph.D. degree ("Dottore di Ricerca").



Scholarships

Each year the PhD program will admit students fully supported by a **three-year scholarship**, which includes an adequate increase, starting from the second year, if they spent a research period abroad and/or participate in workshops & conferences.

Admission tests

Admission tests are open to **all graduates with economic or scientific degrees**. The admission test consists of a **two steps procedure**: first students must submit a broad research program and two letters of presentation. An admission Committee will form a short list among all the applications received. Second, candidates in the short list will be interviewed, to set the final ranking.

Coordinator

Gianmaria Martini

Track managers

M. Chiara Demartini, Alberto Gaggero, Paolo Gaiardelli, Ruggero Golini

Faculty

<http://phdemd.unipv.eu/site/en/home/faculty.html>

First year courses

| | | | |
|---|-----------------|--|-----------------|
| Foundation courses | | | 90 hours |
| Big data analysis | | | 15 hours |
| Econometrics | | | 15 hours |
| Economics | | | 15 hours |
| Management | | | 15 hours |
| Research methodologies | | | 15 hours |
| Technology | | | 15 hours |
| Track - Applied Economics & Management (*) | 72 hours | Track Innovation & Technology Management (**) | 72 hours |
| Advanced applied economics | 18 hours | Advanced quantitative methods | 12 hours |
| Advanced management innovation | 18 hours | Technology innovation | 24 hours |
| Research methods for applied economics studies | 18 hours | Technology management | 36 hours |
| Research methods for management studies | 18 hours | | |
| Optional courses | | | |
| Health Economics and Management (*) | 25 hours | Research field selected courses (**) | 25 hours |
| (*) lectures held at the University of Pavia | | (**) lectures held at the University of Bergamo | |
| Seminars and Workshops | | | 30 hours |



Track selection by: 11/11/2016

Timetable

| Foundation | From | To |
|-------------------|-------------|------------|
| Lectures | 03/11/2016 | 03/02/2017 |
| Exams | 13/02/2017 | 31/03/2017 |

| Track | From | To |
|--------------|-------------|------------|
| Lectures | 03/04/2017 | 23/06/2017 |
| Exams | 03/07/2017 | 31/07/2017 |

Exams

Marks will be in 30 points.

Minimum requirement to be admitted to the second year: 175 points in total

Required exams:

| Foundation | Mark required |
|------------------------|----------------------|
| Big data analysis | Yes |
| Econometrics | AEM track only |
| Economics | Yes |
| Management | Yes |
| Research methodologies | No |
| Technology | ITM track only |

| Track AEM (*) | Mark required | Track ITM | Mark required |
|--|----------------------|-------------------------------|----------------------|
| Advanced applied economics | Yes | Advanced quantitative methods | Yes |
| Advanced management innovation | Yes | Technology innovation | Yes |
| Research methods for applied economics studies | Yes | Technology management | Yes |
| Research methods for management studies | Yes | | |

(*) 3 courses out of 4 selected by the PhD student

Optional courses (*)

| Track AEM | Mark | Track ITM | Mark |
|---------------------------------|-------------------|---------------------------------|-------------------|
| Health Economics and Management | Report evaluation | Research field selected courses | Report evaluation |

(*) bonus: maximum 20 points



Second year

Fall Workshop – Pavia (03/11/2016)

Research proposal presentation

Spring Workshop – Pavia (May-June 2017)

First research paper presentation

Third year

Winter Workshop – Bergamo (February-March 2017)

Second research paper presentation

Each PhD student has to accomplish three presentation at the Faculty. PhD students abroad for research activities may skip their planned presentation at the following Workshop, subject to the authorisation of the Coordinator.

Additional information

For any details please refer to the following links:

<http://phdemd.unipv.eu/site/home.html>

<http://www.unibg.it/struttura/struttura.asp?cerca=DOTco-DREAMT>