

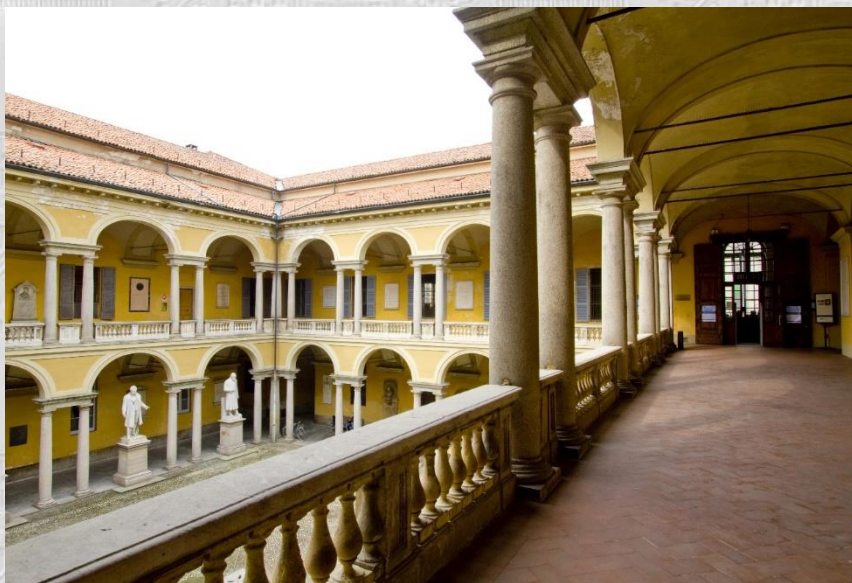


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# MODERNISATION OF HIGHER EDUCATION IN CENTRAL ASIA THROUGH NEW TECHNOLOGIES ( HiEdTech )



## UNIVERSITY OF PAVIA





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# **ABOUT THE UNIVERSITY - HISTORY**

- 825** – Lothair Emperor: Pavia School of Rhetoric
- 1361** – Galeazzo II Visconti: Studium Generale
- 1786** – Mary Theresa of Austria: Engineering Profession
- 1859** – Casati's law: Milan Polytechnic
- 1967** – Re-opening of the Study of Engineering



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# THE UNIVERSITY AT A GLANCE

- **23,500** students (**1,500** international)
- **2,700** professors, lecturers, native language teachers, and administrative staff
- **85** undergraduate and graduate programs
- **17** doctoral programs
- **37** professional master's programs
- **18** departments
- **2** faculties (Engineering and Medicine)
- **20** colleges (dorms) - unique college system in Italy (like Oxford and Cambridge in the UK)



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# FACULTY OF ENGINEERING

- **Three** departments: *Electrical, Computer and Biomedical Engineering, Civil Engineering and Architecture, and Mathematics*
- **Four** three-year undergraduate study courses: *Electronic and Computer Engineering, Bioengineering, Civil and Environmental Engineering, and Industrial Engineering*
- **Four** postgraduate study courses taught in English: *Computer Engineering, Electronic Engineering, Industrial Automation Engineering, and Civil Engineering for Mitigation of Risk from Natural Hazards*
- **Four** postgraduate study courses taught in Italian: *Bioengineering, Civil Engineering, Electric Engineering, and Environmental and Urban Engineering*

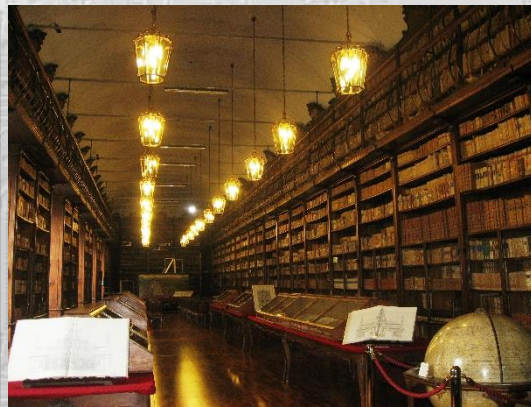


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## THE "OLD" UNIVERSITY





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## THE "NEW" UNIVERSITY



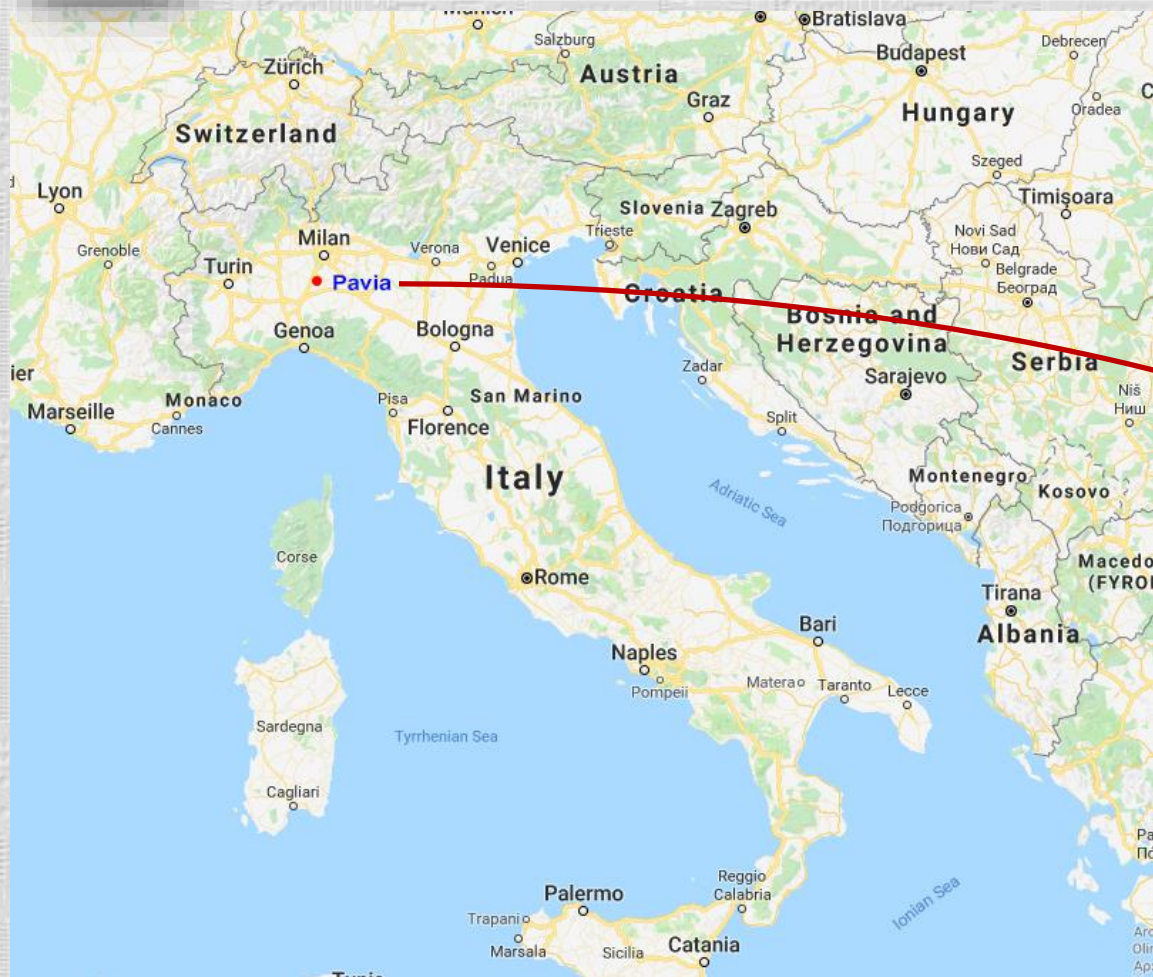


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## MODERNISATION OF HIGHER EDUCATION IN CENTRAL ASIA THROUGH NEW TECHNOLOGIES ( HiEdTech )



# WHERE IS PAVIA?



- **73,000** inhabitants
- **62.86** km<sup>2</sup>
- **77** m.a.s.l.



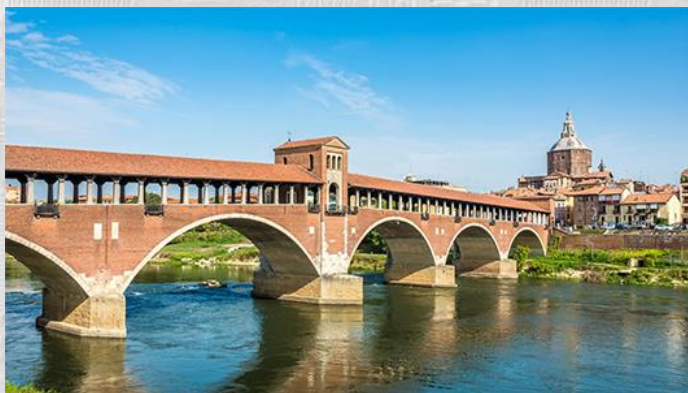


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## SOME GLIMPSES OF PAVIA





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# INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE UNIVERSITY OF PAVIA

**Kiro:** platforms to support didactic activities (blended courses)





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## MODERNISATION OF HIGHER EDUCATION IN CENTRAL ASIA THROUGH NEW TECHNOLOGIES ( HiEdTech )



# INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE UNIVERSITY OF PAVIA

**KiroLab:** physical environments for e-collaboration, web conferencing, and live-streaming delivery of events and lectures





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# **INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE UNIVERSITY OF PAVIA**

**Continuing education:** mixed model (mostly e-learning and some in-person courses)

*Courses and number of attendees from 2012 to 2017*

<b>Course</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>TOT</b>
Privacy code	264	40	396	369	350	247	<b>1,666</b>
Privacy code - Health module	117			212		211	<b>540</b>
Safety and health in the workplace	802	311	681	1,722	1,267	1,575	<b>6,358</b>
Safety and health in the workplace (English version)						66	<b>66</b>
Use of the SPD (Security Policy Document) procedure for privacy	58					66	<b>124</b>
IT protocol	87					120	<b>207</b>
Microsoft Office	45	31	10	90	100	119	<b>395</b>
Safety in laboratories	25	15	18	15	300	503	<b>876</b>
Anti-corruption and transparency				110	517		<b>627</b>
Update on transparency and civic access						453	<b>453</b>



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# INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE UNIVERSITY OF PAVIA

- Video lessons for some university courses and professional masters



- **Virtualization of laboratories:** software tools available in different laboratories and also usable at home by students



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# INNOVATIVE EDUCATIONAL TECHNOLOGIES AT THE UNIVERSITY OF PAVIA

**MOOCs:** currently, three courses available

**Lucio Fregonese**

### L'eredità di Volta: dalla pila al fotovoltaico

La sorprendente storia dell'invenzione della pila (quando nulla ancora funzionava a pile) e dei nuovi settori scientifici che questa apre. La nuova vita delle idee di Volta in tecnologie avanzate del presente. Il tutto con molti esperimenti.

**MOOC**

- Self-Paced
- Italian
- Interdisciplinary

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**Pier Luigi Mulas and Chiara Copes**

### Livres enluminés à la cour des Sforza

Un voyage dans les bibliothèques italiennes à la découverte des livres enluminés des Sforza, les ducs de Milan : ces objets rares et précieux dévoilent l'éducation, les pratiques religieuses, les ambitions politiques d'une cour princière de la Renaissance

**MOOC**

- Self-Paced
- French
- Architecture

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**Ugo Gianazza**

### Introduction to the Theory of Distributions and Applications

This course aims at presenting the basic notions of the Theory of Distributions, a mathematical tool which has been developed in the last fifty or so years, and has proved extremely successful in addressing a number of problems coming from applications.

**MOOC**

- Self-Paced
- English
- Engineering

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Enroll



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**Thank you for your  
attention!**