

Annex 1: Subjects taught & Research conducted at ParisTech

applied mathematics - computer science - statistics - finance - physics - optical sciences - economics & social sciences - executive engineering - industrial & production engineering - materials science & engineering - mechanical engineering - offshore engineering – naval architecture - civil engineering - town & country planning - transport engineering & systems - electrical, electronic and photonic engineering - information technology & telecommunications - robotics - automatics - energy & nuclear engineering - chemistry - chemical engineering - earth sciences - environmental engineering - life sciences - forest engineering – agricultural engineering - computational biology - bioengineering & biophysics

With special emphasis on the following subjects at the following Graduate Schools:

<p>AgroParisTech: Life Science, Biology, Animal Science, Food Science & Technology, Agronomy, Crop Science, Plant Protection, Forestry, Environmental Science & Engineering, Management of Environment, Mathematics & Modelling for Life Sciences</p> <p>Arts et Métiers ParisTech: Biomechanics, Fluid Eng. (flow simulation, turbomachinery), Mechanical Engineering, Materials Eng. (wood, metal, polymers, laser treatment), Manufacturing Processes and Machines, Product Design, Production Systems Eng., Control, Maintenance, Aircraft and Aerospace, Automotive, CAD/modeling</p> <p>Chimie ParisTech: Organic and Bioorganic Chemistry, Solid State Chemistry and Materials Science, Theoretical Chemistry, Nuclear Chemistry, Chemical and Process Engineering, Risk Management</p> <p>Ecole des ponts ParisTech: Transportation, Civil & Environmental Engineering, Mathematics & Finance, Engineering mechanics & Materials Science, Industrial Engineering & Logistics, Town & country planning</p> <p>Ecole Polytechnique Physics & Applied Physics, Mathematics & Applied Mathematics, <u>Computer Science & Electrical Engineering</u>, <u>Engineering, Mechanics & Materials Science</u>, Quantitative Economics & Finance, Life Science, Chemistry</p> <p>ENSAE ParisTech: Economics & Econometrics, Quantitative Economics & Finance, Statistics, Actuarial Science</p>	<p>ENSTA ParisTech: <u>Automotive and railway transport</u>, Maritime transport <u>Production systems</u>, <u>Electronuclear energy</u>, Processes and sustainable development, Offshore resources engineering, Oceanology Energy and environment management, <u>Optimization & operational research</u>, financial math, <u>Modelling and simulations</u>, <u>Robotics and embedded systems</u>, <u>Information systems</u>, System engineering</p> <p>ESPCI ParisTech Physics, Chemistry, Biology, Analytical and environmental chemistry, Organic synthesis Bioengineering and Biophysics, Optics, Acoustics and Imaging, Microfluidics and Soft Nanotechnology, Soft Matter and Complex Materials Engineering, Chemical Engineering, Fluid Mechanics, Microfluidics and Soft Nanotechnology</p> <p>Institut d'Optique Graduate School Physics of light and its interaction with matter, Mathematics, Electronics and computer science for signal and image processing, Ray optics and aberrations, Advanced wave optics, Instrumentation Optical system design, Imaging, Photometry, Detection, Lasers and electro-optics, non-linear optics, optical fibres, Detectors, Biophotonics, Nanophotonics, Space optics, Energy, Telecommunications with minors in technology and management of innovation.</p> <p>MINES ParisTech Major: <u>Science and executive engineering</u>, Minors: Applied mathematics, information technology, <u>Control engineering and computer science</u>, Computational Biology, Earth and environmental sciences, Materials sciences and engineering, Energy and chemical engineering, Economics and social sciences</p> <p>Telecom ParisTech: Information Technology, <u>Telecommunications</u>, <u>Digital Communications</u>, <u>Optical Communications</u>, Electronics, Computer Science, Networks, Mobile Signal & Image Processing, Multimedia System modeling, Economics</p>
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