Webinar – June 4, 2020

Agenda

- Institut Polytechnique de Paris
- Characteristics of the French Diplôme d’ingénieur
- IP Paris’ science & engineering graduate schools
- IP Paris’ Ingénieur Programs
  International Entrance Exam
- Questions and answers

www.ip-paris.fr
engineer-admission@ip-paris.fr
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Excellence in Education and Research

**RESEARCH**
- Lead world-class research activities
- Promote research conducted in laboratories towards companies & encourage entrepreneurship
- In one of the top 8 innovation clusters in the world

**EDUCATION**
- Recruit students worldwide and provide them with high-level educational programs
- Train researchers and leaders to respond to future economic and social challenges
- Top employability rate and salary after graduation

**INDUSTRY AND INNOVATION**
- Working in close collaboration with companies
- Support students projects and entrepreneurship
Key Facts and pillars

- 7,500 Students
- 950 Faculty members
- 2,200 Staff
- 900 PhD Students
- 30 Research Laboratories
- 95% employability rate in under 4 months after graduation with an average gross salary of 50,000 euros/year

- Centuries of combined experience
- International faculty members
- Pluridisciplinarity
- World-class research facilities
- Industry & Society oriented education
- A modern and green campus near Paris
### An international recognition

#### Ecole polytechnique’ world rankings

<table>
<thead>
<tr>
<th>Rank (France)</th>
<th>Rank (World)</th>
<th>Institution</th>
<th>Ranking</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>18th</td>
<td>for student employability</td>
<td>QS 2020</td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td>60th</td>
<td>of the 200 most international universities</td>
<td>THE 2019</td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>32nd</td>
<td>for the number of Nobel Prize winners ranking published in Nature 2016</td>
<td>CWUR 2020</td>
<td></td>
</tr>
</tbody>
</table>

#### Télécom Paris’ world rankings

<table>
<thead>
<tr>
<th>Rank (France)</th>
<th>Rank (World)</th>
<th>Institution</th>
<th>Ranking</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd</td>
<td>112th</td>
<td>for graduate employment rate</td>
<td>QS 2020</td>
<td></td>
</tr>
<tr>
<td>5th</td>
<td>188th</td>
<td>for the number of Nobel Prize winners ranking published in Nature 2016</td>
<td>THE World University Ranking 2020</td>
<td></td>
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<tr>
<td>6th</td>
<td>224th</td>
<td></td>
<td>QS 2020</td>
<td></td>
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</tbody>
</table>
Education & Research Ecosystem

A Strategic partnership with HEC

- Creation of a multidisciplinary academic alliance in the fields of technology and business innovation.

IP Paris benefits from the partnerships of its founding institutions

**National research centers**
- CNRS
- CEA
- Inria
- INSERM
- ONERA

**International institutional partners**
- EuroTech Network
- Columbia (Alliance Program)
- Top-ranked universities worldwide
- International Research Centers

**Other national institutional partners**
- Université Paris-Saclay
- IMT
- GENES
- ParisTech

AND MANY MORE INSTITUTIONAL PARTNERS...
Partnerships for Education & Research

Internships, coaching, conferences, case studies, company visits, recruitment forums, networking, education and research chairs...

And many more industrial partners
IP Paris Educational Programs

Bachelor
3 yrs

Ingénieur degree
3 yrs

Master / MSc&T
2 yrs

PhD / PhD Track
2 yrs + 3 yrs

Executive Master
14 m

Advanced Master

Executive Education
Education and research scientific areas

- Biology
- Economics
- Computer Science, Data and AI
- Mechanics and Energetics
- Languages, Arts and Humanities
- Chemical Sciences
- Information, Communications and Electronics
- Mathematics
- Physics
- Social Sciences and Management
A Powerful Network of Alumni

Bernard Arnault
CEO, LVMH Moët Hennessy

Jerome Guillen
President, Automotive TESLA

François Bourguignon
Former Vice-President, the World Bank

Diaa Elyacoubi
Founder, President, StreamCore

Éric Trappier
CEO, Dassault Aviation

Bernard Arnault
CEO, LVMH Moët Hennessy

Kumiko Kotera
Astrophysicist, Head of GRAND project

Helle Kristoffersen
Senior VP Strategy & Business Intelligence, Total

Jean-Christophe Lalanne
Information Systems Director, AirFrance - KLM

Aurélie Adam Soule
Beninese Minister of Digital and Digitization

Rose Dieng-Kuntz
Senegalese computer scientist specializing in AI

Jerome Guillen
President, Automotive TESLA

François Bourguignon
Former Vice-President, the World Bank

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Aurélie Adam Soule
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Outstanding Scientific and Technological Achievements

Luc Julia, Creator of the SIRI application, Apple

Gérard Mourou, Nobel Prize in Physics for the invention of chirped pulse amplification

Edmond Malinvaud, Honorary Professor at College de France, Co-founder of the theory of imbalances

Helene Rey, Economist, Determination of exchange rates and international capital flows

Oscar Salazar, Co-Founder of UBER

Ane Aanesland, Co-founder and CEO of ThrustMe, start-up that disrupted the space industry

Bertrand Bailly, Founder and CEO of Davidson Consulting, Best Great Place to Work in Europe

Florian Fournier, Co-Founder and CPO, Payfit, #4 LinkedIn Top start-up France

Thierry Petit, Founder, CEO of showroomprive.com
An international campus near Paris

- Atmospheric observatory
- Regional Express Railway
- Student housing
- Sport & nature
- Area under development
- EDF Lab
- Danone Research
- Thales Research
- CEA List
- Horiba Research
- Subway
- Convenience stores
- Housing
- New research institutes
- Total R&D center
- Mechanical engineering Institute
- Pedestrians (towards Palaiseau, Camille Claudel district, ONERA)
- Regional Express Railway
- 1.5 km
AN INTENSE CAMPUS & STUDENT LIFE

Practice of a wide range of sports and many students associations & cultural events

Modern Libraries to study & find documentation

Housing on the campus to be fully immersed in the student life

30 minutes away by public transport of Paris
Agenda

- Institut Polytechnique de Paris

- Characteristics of the French Diplôme d’ingénieur

- IP Paris’ science & engineering graduate schools

- IP Paris’ Ingénieur Programs
  - International Entrance Exam

- Questions and answers

www.ip-paris.fr
engineer-admission@ip-paris.fr
Characteristics of the engineering schools in France

• The “Titre d’Ingénieur” confers the European degree of Master recognized worldwide.
• Selection of students based on the academic level
• A multidisciplinary education:
  • Fundamental sciences: mathematics and physics particularly, chemistry
  • Engineering sciences
  • Economics
  • Business, management, innovation and entrepreneurship
  • Soft skills: communication, critical thinking, social environment
  • International skills: languages, geopolitics, mobilities
• A strong interaction with companies
  • Including several opportunities of internships, which are mandatory in the curriculum
• Personalized curriculum, student/faculty ratio 5:1
• Hosting research laboratories associated to Doctorate Schools
• Compatible with the PhD-track

200 schools of engineering are currently accredited by the French commission for engineering diplomas (Cti) to issue the engineering degree.
The French curriculum of the Diplôme d’Ingénieur

End of high school exam
Baccalauréat

Bachelor Licence

Master

Ph.D. Doctorat

“LMD” curriculum

L1
L2
L3
M1
M2
D1
D2
D3

Selection

National competitive exam

Diplôme d’ingénieur curriculum

CP1
CP2
Eng1
Eng2
Eng3
A

Preparatory Classes Classes préparatoires

International Competitive exam

Engineering graduate school Ecole d’ingénieur

Master of Science in Engineering Diplôme d’ingénieur

Diplôme de l’Ecole polytechnique

To know more: https://www.campusfrance.org/en/French-degrees-LMD-equivalences
Agenda

✓ Institut Polytechnique de Paris
✓ Characteristics of the French *Diplôme d’ingénieur*

➢ IP Paris’ science & engineering graduate schools

❖ IP Paris’ *Ingénieur* Programs
  International Entrance Exam

❖ Questions and answers

[www.ip-paris.fr](http://www.ip-paris.fr)
[engineer-admission@ip-paris.fr](mailto:engineer-admission@ip-paris.fr)
### Scientific areas

<table>
<thead>
<tr>
<th>Area</th>
<th>INSTITUT POLYTECHNIQUE DE PARIS</th>
<th>l’X</th>
<th>ENSTA</th>
<th>ENSAE</th>
<th>TELECOM Paris</th>
<th>TELECOM SudParis</th>
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</thead>
<tbody>
<tr>
<td>Biology and Health</td>
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<td>Chemistry</td>
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<tr>
<td>Economics</td>
<td>![Green Circle]</td>
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<td>![Green Circle]</td>
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<tr>
<td>Energy</td>
<td>![Green Circle]</td>
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<tr>
<td>Nuclear engineering</td>
<td>![Green Circle]</td>
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<tr>
<td>Computer science</td>
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<td>![Green Circle]</td>
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<tr>
<td>Information and communication eng.</td>
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<td>![Green Circle]</td>
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<tr>
<td>Mathematics, statistics and applications</td>
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<tr>
<td>Mechanics</td>
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<tr>
<td>Physics</td>
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<td>![Green Circle]</td>
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<tr>
<td>Transport, mobility</td>
<td>![Green Circle]</td>
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</tbody>
</table>

And also: Design, Innovation, Entrepreneurship, Sociology
École Polytechnique: Key Facts

Location: Palaiseau
20 Km from Paris

Campus size: 160 hectares

3600 students

30% of students pursue their studies and complete a PhD

480 Professors researchers

40% of whom are international

40% International students

Undergraduate and Graduate Education in Sciences and technology (From Bachelor to PhD)

23 laboratories on campus
École Polytechnique : a multi-secular institution

École Polytechnique is founded at the height of the Age of Enlightenment

A humanist and progressive approach to science to address the key challenges of the 21st century

11 mars 1794

Today L’X is under the authority of the Ministry of the Armed Forces

It provides civic and military training to shape responsible and committed leaders

1804

École Polytechnique obtained its military status given by Napoleon I
École Polytechnique: Ingénieur Polytechnicien program

HIGH-LEVEL SCIENTIFIC ACADEMIC PROGRAM

1st year
- Personal Development Internship OR French courses
- Common core
- General scientific curriculum

2nd year
- Multidisciplinary scientific studies
- Group Science Project
- Applied lab work

3rd year
- In-depth program

4th year
- Specialization
- "Diplôme d’Ingénieur" - Master’s Degree Diploma
- Civil service
- Master’s in France or abroad
- Engineering studies in France
- End of studies internship

6 MONTHS
- Personal development internship for French students / French language courses in the South of France for non-francophone students

3 MONTHS
- Internship in a company

5 MONTHS
- Research internship

6 MONTHS
- 2nd year
- Humanities and social science – languages – personal development and military training – sports

4 MONTHS
- 1st year

6 MONTHS
- 3rd year

4-6 MONTHS
- 4th year
ENSAAE Paris at a glance

A French Grande École founded 75 years ago.

Three fields of excellence in education and research

- Data Science, Statistics and Machine Learning
- Quantitative Economics and Sociology
- Finance and Actuarial Science

A unique, demanding, multidisciplinary Ingénieur program

- High-level courses in Applied Mathematics, Statistics, Machine Learning, Economics and Econometrics
- Advanced field knowledge
- Cutting-edge quantitative methods
- Among France’s highest paying engineering diplomas

Training data scientists

- For business decision, finance, public policy...
- And all data intensive applications
About the Ingénieur ENSAE program

Three-year program blending theoretical courses, applied projects, seminars, internships (one every year), foreign languages, soft skills

1st year Harmonizing skills in Maths, Applied Maths, Economics and Computer Programming

2nd year Building core scientific skills and initiating specialization
- Core curriculum in Mathematical Statistics, Econometrics, Machine Learning, Microeconomics, Macroeconomics, Applied Economics and Statistics
- Electives in advanced Economics, Statistics, Finance or Actuarial Science

3rd year Choosing a specialization track
- Actuarial Science
- Data Science and Business Decision
- Data Science and Social Sciences
- Data Science, Statistics and Machine Learning
- Finance and Risk Management
- Forecasting and Economic Policy

Specialization tracks can be combined with
- IP Paris Research Masters in Economics, Data Science or Finance (for continuation in PhD)
- Double degree programs with France’s top Business Schools (HEC, ESSEC, ESCP)
- Exchange programs abroad

International student admission

A selective competitive exam
- Written exam in Mathematics
- Motivation interview
- Qualifications based on previous academic results are also taken into account

Prerequisites
- Bachelor of Science in Mathematics
- Bachelor in Quantitative Economics or Finance, with a solid background in mathematics

Admission in 1st or 2nd year depending on academic background and test results

Courses are taught in French and English
Training leaders in Engineering, Research and Entrepreneurship in the fields of:

- Transportation
- Complex Systems Engineering
- Energy
- Engineering Mathematics

<table>
<thead>
<tr>
<th>STUDENTS</th>
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<tbody>
<tr>
<td>748 “Ingénieurs” students</td>
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<tr>
<td>250 graduates p/year</td>
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<tr>
<td>186 master students</td>
</tr>
<tr>
<td>27% international students from 30 countries</td>
</tr>
<tr>
<td>29% women</td>
</tr>
<tr>
<td>Over 50 student associations</td>
</tr>
<tr>
<td>6000 alumni</td>
</tr>
<tr>
<td>On-campus housing</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ACADEMICS</th>
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</thead>
<tbody>
<tr>
<td>Multidisciplinary curriculum combining science, engineering, projects and soft skills</td>
</tr>
<tr>
<td>A progressive specialization</td>
</tr>
<tr>
<td>139 faculty members</td>
</tr>
<tr>
<td>600 adjunct lecturers (70% expert from companies)</td>
</tr>
<tr>
<td>Individual tutoring</td>
</tr>
<tr>
<td>Research internships</td>
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</table>

<table>
<thead>
<tr>
<th>RESEARCH</th>
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<tbody>
<tr>
<td>139 researchers</td>
</tr>
<tr>
<td>110 PhD students</td>
</tr>
<tr>
<td>220 publications/year in peer-reviewed journals</td>
</tr>
<tr>
<td>6 research units:</td>
</tr>
<tr>
<td>Applied Math</td>
</tr>
<tr>
<td>Mechanical Eng.</td>
</tr>
<tr>
<td>Computer Science and Systems Eng.</td>
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<tr>
<td>Chemistry and Chemical Eng.</td>
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<tr>
<td>Applied Optics</td>
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<tr>
<td>Applied Economics</td>
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<tr>
<th>INDUSTRY</th>
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<tbody>
<tr>
<td>Over a 100 partner companies in all major sectors</td>
</tr>
<tr>
<td>2 joint labs with industrial partners</td>
</tr>
<tr>
<td>Student projects linked with companies</td>
</tr>
<tr>
<td>Paid Internships in companies as part of the curriculum</td>
</tr>
<tr>
<td>Support for professional placement</td>
</tr>
</tbody>
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[www.ensta-paris.fr](http://www.ensta-paris.fr)
## MSc. in Engineering: “DIPLÔME D’INGENIEUR”

### Gradual Specialization

<table>
<thead>
<tr>
<th>1st YEAR</th>
<th>2nd YEAR</th>
<th>3rd YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Multidisciplinary</strong></td>
<td><strong>1 Major + 1 Minor</strong></td>
<td><strong>1 Professional Track + 1 Profile</strong></td>
</tr>
</tbody>
</table>

#### Scientific core curriculum:
- Applied Mathematics
- Mechanics, Physics
- Computer Science, Information Technology
- Methods and Tools for Engineering

+ 1 Research, Innovation and entrepreneurship course to choose from a wide range of scientific fields

#### 1 Major:
- **Applied Mathematics**
- **Mechanical Engineering**
- **Information and Communication Sciences and Technologies**

+ 1 Minor related to the major
- Engineering Mathematics
- Software and Cybersecurity
- Artificial Intelligence and Cyber-physics
- Mechanical and Physical Models
- Environment
- Modelling in Mechanics
- Smart systems

#### 1 Professional track in one of the 3 units:
- **Transport and Energy**
- **Engineering Mathematics**
- **Complex System Engineering**

- Smart Mobility and Vehicle Eng.
- Maritime Transportation
- Energy production and management
- Nuclear Energy
- Offshore Energy Eng.
- Optimization and Data Science
- Quantitative Finance
- Modelling and Simulation
- Robotics
- Artificial Intelligence
- Information Systems

+ 1 Profile:
- **Research and Innovation Engineering and Design Entrepreneurship**

<table>
<thead>
<tr>
<th>1st Job</th>
<th>PhD</th>
<th>97%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employed within 5 months</td>
<td>21%</td>
<td>3/4 recruited before graduation</td>
</tr>
</tbody>
</table>

Top level entry positions in the sectors of:
- TICs, Data Science, AI

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**Workman Internship** (1 month)

**Research Internship** (2-3 months)

**Engineer Internship** (5-6 months)

Culture - Communication - Applied Economics - Sport - Languages - Leadership
INNOVATE AND FOSTER ENTREPRENEURSHIP
IN A DIGITAL WORLD

We train top level professionals in digital by combining the fields:
- Applied mathematics
- Computer science & engineering
- Physics, electrical engineering
- Economics & social sciences

according to 3 main profiles:
- Transformers
- Entrepreneurs
- Inventors

Our research addresses the major issues of the digital revolution:
- Data science & Artificial intelligence
- Digital trust: cybersecurity, risk, reliability
- Mathematic modeling
- Image and signal processing
- Human-machine interaction
- Internet of things
- Very large networks & systems
- Digital innovation

150 professors
1600 students
including 44% international students
17 500 alumni

630 international publications per year
50% of research funded by companies
153 active patents

www.telecom-paris.fr
Telecom Paris

Innovation in training
Project-based teaching methods
Free access spaces: design studio, e-Lab, FabLab
Student innovation events
**Nb. 1 public French incubator in digital technology**
(since 1999, over 440 start-ups created, 86% in activity, over €300M funding raised, 3,000 jobs created)

Close links with industry
More than 300 partner companies
25 teaching and research chairs
12 joint laboratories
500 guest speakers from the business world
100 activities with companies for students

An internationalized graduate school
100 partners in 39 countries
42 dual degree agreements in 18 countries
34% of international professors
22% of 1st jobs abroad
1 international shared campus in Shanghai: SPEIT

**THE**
188th world university
2nd French Graduate school
126-150 in computer science
151-175 in social sciences
176-200 in engineering technology

**QS**
224th world university
3rd French graduate school
2nd French institution in employment rate
101 - 150 in computer science

Programs taught in English
*Diplôme ingénieur*
*Post-master*

www.telecom-paris.fr
ENGINEERING THE WORLD OF TOMORROW

THROUGH DIGITAL INNOVATION

Télécom SudParis is a prestigious, publicly funded Grande Ecole”, founded in 1979.

OUR VALUES
• Passion,
• Entrepreneurship,
• Social Responsibility & Diversity

GRADUATE PROGRAMS
• Computer Science and Information Systems
• Networks, Services and Protocols
• Mathematics and Statistical Modeling
• Image Processing and Multimedia
• Embedded Systems, Mobility and Communicating Objects
• Managing Digital Transformation

INNOVATION:
OUR STRONG VALUE IN EDUCATION
• Personalized programs of study
• Entrepreneurial spirit and project-based education
• Close connections and ties with industry

RESEARCH LAB
SAMOVAR, a unique multidisciplinary research lab unifying all fields relevant to developing communications systems

TEACHING AND RESEARCH FIELDS
• Networks
• Smart Cities
• Industry of the Future
• Connected Objects
• Data Sciences
• Energy and Smart Grid
• Multimedia and Video Games
• Biometrics
• Cybersecurity
• Health and Autonomy
• Middleware and Cloud
• Intelligent Transport
• Electronic Optics and Microscopy

EMPLOYABILITY GUARANTEED
100% employment rate

START-UP INCUBATOR
3rd business incubator in France. IMT Starter providing premises, coaching, seed funds, international collaboration and training embedded in the ingénieur curriculum

OPEN TECHNOLOGY PLATFORMS
• Health and Dependency Living Lab
• Cloud and Networks
• Cyber-security for connected infrastructures
• Medical and Biological Imaging
• Ultra-High-Speed Networks
• Cloud for multimedia processing
• Middleware for the Internet of Things
• High-Resolution and Wide-Field Microscopic Imaging Services for Big Data

CAMPUSES
Two rapidly developing and modern campuses located in one of Europe’s leading innovation clusters.
A selective and competitive entrance exam:
- Written exams in Mathematics, Physics, Probability & Statistics, Information and Communications Science & Technology
- An Oral Exam in General Scientific Knowledge and a Motivation Interview
- Academic qualifications and results are also evaluated

Prerequisites:
- Bachelor of Science in Mathematics, Physics, Computer Science, Electrical Engineering, Telecommunications

Admission in 1st or 2nd year, depending on academic background and exam results

The languages of instruction are French and English

French language instruction is provided to all international students
Agenda

✓ Institut Polytechnique de Paris

✓ Characteristics of the French Diplôme d’ingénieur

✓ IP Paris’ science & engineering graduate schools

➤ IP Paris’ Ingénieur Programs
   International Entrance Exam

❖ Questions and answers

www.ip-paris.fr
engineer-admission@ip-paris.fr
Diplômes d’ingénieur international admission process

• One selection process for five “Diplôme d’ingénieur” programs

Admission process:
1. On-line application, valid for the five programs
   • https://www.ip-paris.fr/ingenieur-programs/
2. Shortlists of applicants by program - eligibility
   • Through general selections based on the application file
3. Common written and oral exams
4. On-line declaration of an ordered wish list of schools
   • From the list of schools for which you are eligible
5. Final decision of acceptance: A unique admission result
   • Taking into account your ordered wish list of schools
Who should apply?

• Applicants must have completed at least 2 years of undergraduate studies in Science or Engineering.
• Excellent commands of Mathematics, Physics and basics in Engineering are keys to success.
• French or English fluency
• Open-minded, internationally oriented

⚠️ With special legal restrictions for Ecole Polytechnique
What are the written and oral exams?

- Written and oral exams are offered in French or English.
- All written exams are organized on a single day.
- For a candidate, all oral exams are organized on a single day.

<table>
<thead>
<tr>
<th>Test</th>
<th>IP Paris</th>
<th>ENSAE</th>
<th>ENSTA</th>
<th>Telecom Paris</th>
<th>Telecom SudParis</th>
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<tbody>
<tr>
<td>Written exams</td>
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<tr>
<td>Mathematics</td>
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<td>Physics</td>
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<tr>
<td>Probability &amp; Statistics</td>
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- Syllabus and examples available on: [https://www.ip-paris.fr/ingenieur-programs/](https://www.ip-paris.fr/ingenieur-programs/)
Diplômes d’ingénieur international admission process

• One selection process for five “Diplôme d’ingénieur” programs

Admission process:
1. On-line application, valid for the five programs
   → Mid-April to September 20
2. Shortlists of applicants by program - eligibility
   • Through general selections based on the application file
   → End of September
3. Common written and oral exams
   → Second half of October
4. On-line declaration of an ordered wish list of schools
   • From the list of schools for which you are eligible
   → Beginning of November
5. Final decision of acceptance: A unique admission result
   • Taking into account your ordered wish list of schools
   → Beginning of December
Agenda

- Institut Polytechnique de Paris
- Characteristics of the French Diplôme d’ingénieur
- IP Paris’ science & engineering graduate schools
- IP Paris’ Ingénieur Programs
  International Entrance Exam

- Questions and answers

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engineer-admission@ip-paris.fr
More information

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