

ENSCI

ÉCOLE NATIONALE SUPÉRIEURE
DE CÉRAMIQUE INDUSTRIELLE

Studying at ENSCI

3 years to discover, to go further, to specialize



Certified
ISO 9001

Semesters 1 & 2

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|---|--|
| Foreign languages : | English + 2 nd language : Chinese, French, German, Italian, Russian, Spanish. |
| Business studies : | accounting, management, communication, technical data search. |
| General scientific background : | review of background knowledge, mathematics, metrology, computing tools. |
| Materials science : | solid state chemistry and physics, characterisation of microstructures, inorganic chemistry, thermodynamics of heterogeneous systems, physical properties of materials (electrical, optical, thermal, magnetic). |
| Applied science for processing : | fluid mechanics, thermal treatment, raw materials (natural and synthetic) and geology, milling, design and fabrication of a piece of work, industrial visits, engineering. |
| Industrial traineeship : | Blue-collar : discover the world of production. (1 month) |
| + C2i : Information technology certificate | |

Semesters 3 & 4

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| Foreign languages : | English + 2 nd language : Chinese, French, German, Italian, Russian, Spanish. |
| Business studies : | accounting, management, project management, company law. |
| General scientific background : | computing and simulation, statistical methods and tools for the engineer, linear regression and optimization, industrial computer design. |
| Materials science : | reactivity of heterogeneous systems, polymers, metals, alloys and composites, physical and chemical heterogeneities, mechanical behaviour. |
| Applied science for processing : | project in materials science or engineering, suspensions and slurries, examples of heterogeneous systems |
| Industrial traineeship : | junior engineer. (3 months) |

**Semesters
5 & 6**

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| Foreign languages : | English + 2 nd language : Chinese, French, German, Italian, Russian, Spanish. |
| Business studies : | traineeship debriefing, management and quality, corporate law, industrial property and technology watch. |
| Materials science : | <p>Ceramics materials and properties of use</p> <ul style="list-style-type: none"> • glass technology, special glasses and biomaterials • building materials • refractories • technical ceramics <p>1 subject choice :</p> |
| Applied science for processing: | <p>Choice of a specialisation :</p> <ul style="list-style-type: none"> • Materials and Processing : defects and interfaces, processes, material properties, simulation, final project. + possibility to study in the Master «Materials» Materials for nuclear energy: physics of radioactive materials, physical chemistry of actinide serie, nuclear ceramics : lifetime in service • Engineering and Processes : budget management, reliability, maintenance, safety of operation, engineering of a production unit, project development in a company, modelling of thermal systems, 1 subject choice : case study of an automatic machine, techniques of control and regulation processes, software development for signal handling, final project. |
| Industrial traineeship : | engineer's project (5 months) |

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