Executive Part-Time Master
Real Estate, Building & Energy

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1/ Objectives, ambition, target

- Objective: to train management executives and future management executives in sustainable real estate and building
- Ambition: to combine real estate skills (finance and law) with those related to building (architecture and engineering) in a highly-ranked European course
- Target: executives in the private and public sectors + open to several trainee executives with high potential (the part-time course enables working people to participate)
2/ An accredited post-graduate programme

- A degree awarded by the Ecole Nationale des Ponts et Chaussées, member of the Paris Institute of Technology which is made up of 10 engineering Grandes Ecoles (Polytechnique, Mines, Telecom, ...), HEC and l’ENSAE

- An accredited programme

- Tuition fee: 15 000 €
3/ Active industry partnerships

- 5 companies and 2 Ministries who enrol or finance from 1 to 5 executives per year
- A housing company (subsidiary of AXA)

- A promoter, property, facility and asset manager

- A construction company
3/ Active industry partnerships

- An energy service company
- A materials manufacturer
- Ministry of Ecology, Sustainable Development & Energy
- Ministry of Territorial Equality and Housing
3/ Active industry partnerships

- A scientific partnership: the Scientific and Technical Centre for Building
4/ 10 training objectives – 350 hours of teaching

- Ten training objectives and 350 hours of teaching
- Ten weeks spread out over one year
- In total 45 ECTS (European Credit Transfer System)
4/ 10 training objectives – 350 hours of teaching

- **January (Week 1)** Global challenges, policies and regulations
  - Objective: convince a decision-maker to put in place a sustainable real estate and building policy

- **February (Week 2)** Sustainable towns and neighbourhoods
  - Objective: present, for a real estate development (new and renovation), the factors relating to the urban context: neighbourhood and town

- **March (Week 3)** User behaviour
  - Objective: take into account the users in the design, construction and use of a building (new build and refurbishment)
4/ 10 training objectives – 350 hours of teaching

- April (Week 4) Strategy and management of a real estate portfolio
  - Objective: construct, finance and follow an environmental progress plan on the scale of a real estate portfolio
- June (Week 6*) Financing sustainable real estate and building
  - Objective: understand the needs of a financial decision-maker and give support to a sustainable real estate project
- July (Week 7) Project management and energy
  - Objective: an initiation of project management (new or refurbishment), from financing to the end user

* Week 5 is used for the study trip to another European country
4/ 10 training objectives – 350 hours of teaching

- September (Week 8) Brief
  - Objective: monitor a sustainable building brief (new and refurbishment)
- October (Week 9) Architectural, technical and economic design
  - Objective: provide criteria for analysing the coherence and pertinence of a high-performance in terms of energy consumption and environmental quality (new and refurbishment)
4/ 10 training objectives – 350 hours of teaching

- November (Week 10) Technical solutions (new and refurbishment)
  - Objective: give an overview of the technical solutions available for high-performance buildings (energy and environmental impact)
- December (Week 11) Building operation and maintenance
  - Objective: be able to explain and appreciate different ways of integrating the energy and environmental performance in the operation and maintenance of one or several buildings
4/ 10 training objectives – 350 hours of teaching

- 14 module coordinators:
  - 4 coordinators from the CSTB
  - 6 from other public organisations (Caisse des Dépôts, CNFPT*, MIQCP**, Ecole des Ponts)
  - 6 from the private sector (Bouygues Construction, Banque Populaire Caisse d’Epargne, Tribu Energie, Essilor International)

* Centre National de la Fonction Publique Territoriale
** Mission Interministérielle pour la Qualité des Constructions Publiques
4/ 10 training objectives – 350 hours of teaching

• 106 lecturers, principally with a professional background

• 72 from the private sector, 34 from the public sector

• 21 foreign lecturers (Germany, Netherlands, Belgium, Switzerland)
5/ A study trip abroad

- Organised in partnership with the Rhône-Alpes Region of France and Geneva University
- Comparison of a dynamic French region & Switzerland, concentrating on the “2000-Watt society” and the label Minergie®, which inspired the French label Effinergie® and the French 2012 thermal regulations
- Based on visits of completed new and renovated projects, where the real energy usage is known
6/ A professional thesis with an internship in the private or public sector

- Theme chosen by the company or public organisation and the Ecole des Ponts
- Internship of at least 4 months
- Presentation of the thesis to a panel presided by the company or public organisation and the Ecole des Ponts
- Corresponds to 30 ECTS
7/ The 2012 Class

- 20 participants
- 9 from the different partners, 8 from other companies and local government, 3 between jobs
- 8 from business schools (INSEAD, HEC, ESSEC...), 8 from engineering schools (ENPC, ESTP, ENTPE...)
7/ The 2012 Class

- Aged 24 to 55 (16 people between 30 and 45)
- 17 from the private sector, 3 from the public sector
- 3 women, 17 men
- 15 from the real estate and building sector, 2 from other sectors (tourism, automobile industry), 2 from the Ministry, 1 from local government.
7/ The 2012 Class

• For the 15 from the building and real estate sector:
  – Real estate fund: 1
  – Property company: 1
  – Real estate services company: 1
  – Clients: 3
  – Designer: 3 (including 1 manager et 1 finance officer)
  – Materials manufacturer: 4
  – Facility manager: 2
8/ The 2013 Class

- 18 participants
- 8 from the different partners, 6 from other companies and 4 between jobs
- 3 from business schools (ESSEC, EM Lyon...), 4 from engineering schools (ENPC, ESTP, ENTPE...), 3 from technical universities, 2 urban planners, 2 architects
8/ The 2013 Class

- Aged 23 to 55 (15 people between 30 and 45)
- 14 from the private sector, 4 from the public sector
- 3 women, 15 men
- 14 from the real estate and building sector, 2 from other sectors (communication & banking), 2 from the Ministries
8/ The 2013 Class

- For the 14 from the building and real estate sector:
  - Clients: 8 (4 in real estate portfolio management)
  - Engineering: 2
  - Materials manufacturer: 3
  - Facility manager: 1
Further information


* a collaborative private website is used for all course documents