



2ND AND 3RD YEAR SPECIALISATION

INDUSTRIAL ENGINEERING

Gain the capacity to understand a company and its organisation from an overall perspective (extended enterprise, information system, process, quality and standards etc), and acquire the tools and methods for optimal management (decision making, production management, supply chain, change management etc.)



COURSE CONTENT

- > Roles and organization
- > Risk management
- > Decision-making tools and methods
- > Sustainable production
- > Product modelling
- > Processes, quality and standards
- > Enterprise modelling and performance
- > Information systems and knowledge management
- > Project 1
- > Change management
- > Costing, purchasing and pricing
- > Value networks
- > Simulation and operations research
- > Project 2
- > Internship

CONTROL

SIX
SIGMA
6σ

8 DECENT WORK AND ECONOMIC GROWTH



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



INDUSTRY SECTORS

- > All (automotive, aeronautics, defence, food processing, IT or company performance consultancy etc)

CAREER PROSPECTS

- > Production management/organisation, management of industrial processes
- > Internal and external supply chain
- > Stocks / purchasing
- > Costing / pricing
- > Consultancy (information systems, continuous improvement)
- > Industrial reference and best practice systems

TEACHING STAFF

HEAD OF SPECIALISATION:

Raphaël Chenouard

LECTURERS:

Catherine da Cunha, Frédéric Alexis, Thomas Lechevallier, Jean-François Petiot, Jean-Yves Hascoët, Farouk Belkadi, Matthieu Rauch, Alain Bernard, Florent Laroche, Hervé Thomas, Pascal Gilcquin

CONTACT:

raphael.chenouard@ec-nantes.fr

EXAMPLES OF PREVIOUS PROJECTS

- > Study of the ergonomics of a workstation for Daher Socata
- > Study of a chassis identification system for Bobcat
- > Definition of a quotation support system for MTA Industrie
- > Study of the impact of AI for change management for ORESYS
- > Optimization of maintenance plans for SNCF

EXAMPLES OF PREVIOUS INTERSHIPS

- > Continuous improvement
- > Optimization of production
- > Logistics and Supply
- > Junior Management Consultant



graduate programme | Ingénieur grande école

École Centrale de Nantes, Direction de la communication, October 2022

GROUPE DES ÉCOLES
CENTRALE

