



UNIVERSITÀ DI PISA
DIPARTIMENTO DI INGEGNERIA DELL'INFORMAZIONE
Dottorato di Ricerca in Ingegneria dell'Informazione

Doctoral Course

"Smart approach and Visual design to organizational problem solving"

Ing. Leonardo Voliani

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Short Abstract:

What is "out there"? What reality awaits the engineer?

The real problems of efficiency and effectiveness in the industry that await the engineer require a knowledge that does not stop at simple specific technical competence but which inevitably concerns organizational concepts, process management techniques and a continuous development of improvement and problem solving projects.

To manage projects, to design/optimize/improve processes, to solve problems, moving in the environment and in the context that surrounds him, the company organizational structure; this is what the engineer does in the world of work.

Concepts such as Total Quality, 5S, TPM, Lean organization etc. are now in the vocabularies of any company; they too represent a technical skill (not at all obvious!) but their simple theoretical knowledge is not sufficient for their practical application.

Through a smart and practical approach, the course aims to "an immersive experience" in the real operational problems that the engineer encounters in the workplace and to provide concepts and practical tools to address the issue of organization.

Course Contents in brief:

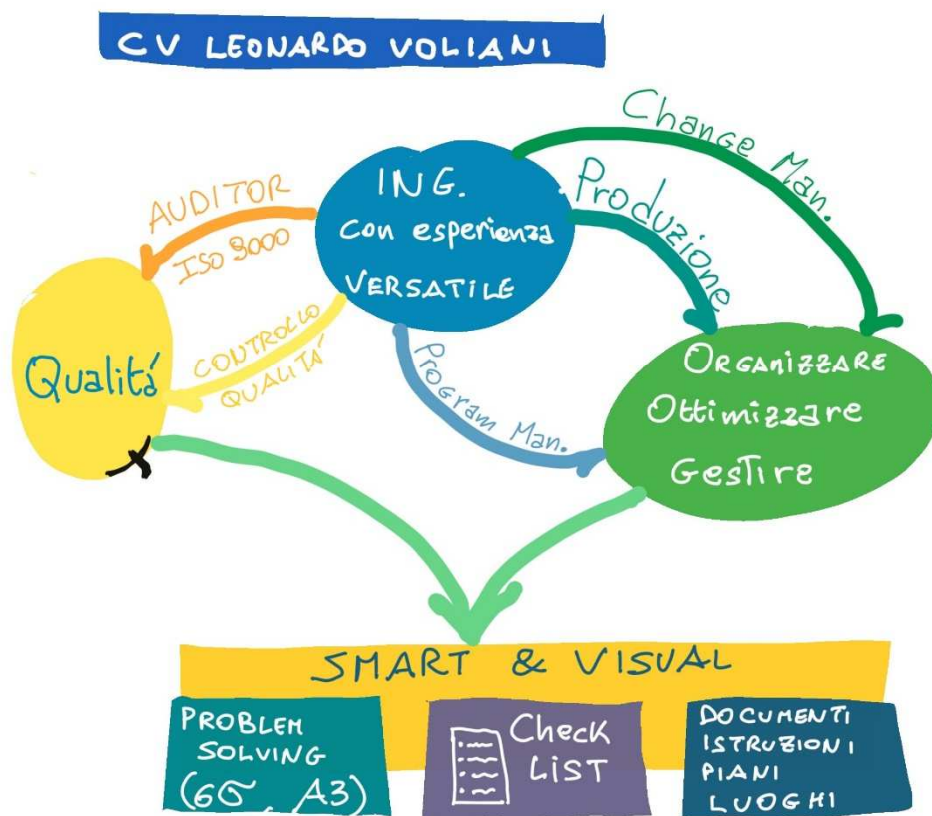
- *"The process is the boat you drive and the organization is the sea you sail on"*
- Communication is the foundation of organization and problem solving
- Visual language and visual design of processes and tools
- Principles of relational dynamics for team building
- Designing improvement: analysis and decision tools
- Designing improvement: Planning
- Artificial intelligence, simulation and IoT represent future developments in process design and management

Total # of hours of lecture: 15 to be held in February 2022

References:

[1] Leonardo Voliani, Facciamola semplice, Flaccovio Dario Editore, 2021

CV of the Teacher



Room and Schedule

Room:

- *Aula Riunioni del Dipartimento di Ingegneria dell'Informazione, Via G. Caruso 16, Pisa – Ground Floor*
- *Aula Riunioni del Piano 6 del Dipartimento di Ingegneria dell'Informazione, Largo Lucio Lazzarino 1, Pisa*

Schedule:

- 15/02/2023: 14:00 - 18:00, Aula Riunioni del Piano Terra - via Caruso
- 16/02/2023: 14:00 - 18:00, Aula Riunioni del Piano Terra - via Caruso
- 23/02/2023: 15:00 - 18:00, Aula Riunioni del Piano 6 - Largo Lucio Lazzarino
- 24/02/2023: 14:00 - 18:00, Aula Riunioni del Piano 6 - Largo Lucio Lazzarino

Contact Person: Agostino Monorchio