

IDENTIFICATION

Course code : ESI-SPI-CI-AG4-S7-UE1-EC4
ECTS : 2

DURATION

Lectures : 6
Tutorial classes : 8
Labs : 10
Total : 24

Project :
Personnal work :

ASSESSMENT

TEACHING MATERIALS

LANGUAGE

English

CONTACT

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UE : UE7-PROD

COURSE : Production Management 2

SCOPE OF THE COURSE

OBJECTIVES

Deepen the concepts, methods, and tools of production management applied to agri-food industrial systems. Enable mastery of production control in a constrained environment, integrating technical, organizational, economic, quality, regulatory, and human dimensions. Deepen the principles of planning, scheduling, and production control; Analyze the performance of a production system using appropriate indicators; Understand the specific constraints of agri-food production; Integrate the challenges of industrial competitiveness, quality, cost control, deadlines, and resources; Use continuous improvement and Lean management tools in a sustainable performance logic.

COMPETENCE AND SKILLS

Analyze the organization and operation of an agri-food production system; Establish and use a production flow mapping; Build a production schedule taking into account capacity constraints, resource availability, quality requirements, and deadlines; Propose a coherent scheduling at the scale of a workshop or a production line; Size production resources based on target throughput, yield, and productivity objectives; Monitor, interpret, and use industrial performance indicators; Identify malfunctions, losses, and bottlenecks in a production system; Formulate proposals for technical, organizational, and economic improvements; Integrate quality, hygiene, food safety, and traceability requirements into production management; Conduct a critical analysis of a production line or workshop according to Lean management and continuous improvement principles.

PROGRAM

1. Deepening the fundamentals of production management
2. Production planning and control
3. Scheduling and operational flow management
4. Industrial performance management
5. Production management in the agri-food sector
6. Quality control in production
7. Lean management and continuous improvement

BIBLIOGRAPHY

REQUIREMENTS

Fundamental knowledge in production management acquired in the 3rd year; Basic concepts in industrial organization; Knowledge in accounting and business management; Basics in applied mathematics and statistics; General knowledge of processes and agri-food transformation systems.