



**IMT Mines Albi-Carmaux**  
École Mines-Télécom

# MSc SCALE

A Master of Science of **IMT Mines Albi**  
Graduate School of Engineering in France

Accredited and labelled by the 'Conférence des Grandes Écoles'



In partnership with  
Toulouse Business  
School

## SUPPLY CHAIN AND LEAN MANAGEMENT

The **MSc SCALE** program trains young managers who want to acquire specialised and in-depth skills in Supply Chain and Lean Management to be able to manage projects, value-creation and change in a performance-driven business or research environment from a global and international perspective.

### SKILLS ACQUIRED

The **MSc SCALE** is designed to enable students to acquire the following competences:

- ✓ High-level technical and management skills necessary for the management of supply chains, logistics and lean operations in the manufacturing or service industries
- ✓ Advanced training in operations research and decision-making techniques applied to supply chain management
- ✓ In-depth knowledge of industrial systems operations management, production, transport and logistics in various business sectors
- ✓ Ability to manage complex projects in an international environment
- ✓ Opportunity to put theory in practice
- ✓ Opportunity to learn French and acquire some French culture

### CAREER OPPORTUNITIES

- ▲ Supply chain manager
- ▲ Supply chain planner
- ▲ Lean / continuous improvement manager
- ▲ Project manager

Aeronautics / Automotive sector

Cosmetics / Pharmacy / Food industry

Retail sector

Service industry



Preparation for 4 international certificates in supply chain management.



**DURATION:** 18 months including a semester-internship

**INTAKE:** September

**LANGUAGE:** English



**MODE:** Full time on IMT Mines Albi and TBS campus

**LOCATIONS:** Toulouse, + few lectures in Albi, France

**ACCOMMODATION:** For all students



**TUITION FEES:**  
18 000 €

**APPLICATION DEADLINE:**  
June

# SYLLABUS

The program is composed of 9 course units that include the preparation for **4 professional certificates**: APICS's CPIM Part 1, PMI's CAPM, AGILEA's Yellow Belt, and DDI's DDP. These 9 course units are organised and delivered in three semesters as shown in the following table.

## SEMESTER | 1 (SEPTEMBER – JANUARY)

### 1. SUPPLY CHAIN MANAGEMENT (1/2):

- ▲ Materials Management
- ▲ Supply Chain Coordination
- ▲ Basics of SCM (CPIM Part 1 certification)
- ▲ Sales Forecasting

### 2. PROJECT MANAGEMENT:

- ▲ Basics of Project Management (CAPM certification)

- ▲ Problem Solving and Agile Project Management
- ▲ Collaborative Project Management

### 3. ENTERPRISE AND NETWORK MANAGEMENT:

- ▲ Accounting and Finance Management
- ▲ Strategy and Marketing
- ▲ Network Coordination

### 4. PERSONAL DEVELOPMENT (1/2):

- ▲ Sustainable Personal Relationship
- ▲ Foreign Languages and European Culture

## SEMESTER | 2 (FEBRUARY - MAY)

### 5. PERSONAL DEVELOPMENT (2/2):

- ▲ Process Communication
- ▲ Foreign Languages and European Culture

### 6. SUPPLY CHAIN MANAGEMENT (2/2):

- ▲ Principles of sourcing, procurement and purchasing
- ▲ Marketing Logistics
- ▲ Theory of Constraints: Flow Simulation
- ▲ Distribution, Transportation, and Physical Internet
- ▲ Sustainable Operations and Closed-Loop Supply Chain Management

### 7. LEAN MANAGEMENT:

- ▲ Business Process Management
- ▲ Quality and Performance Management
- ▲ Supply Chain Operations Problem-Solving Project
- ▲ Lean-6 sigma (Yellow Belt certification)

### 8. DECISION SUPPORT SYSTEMS:

- ▲ Quantitative Models
- ▲ Discrete event Simulation
- ▲ Information Systems and ERP
- ▲ Demand-driven MRP and Pull Flow Strategies (DDP certification)

## SEMESTER | 3

### 9. RESEARCH DISSERTATION:

- ▲ Case-based/mission-based in a company and/or conceptual in a research laboratory (in France or abroad)

## ADMISSION REQUIREMENTS

4 years Bachelor's degree or equivalent in one of the following fields:

- ▲ Engineering
- ▲ Sciences
- ▲ Management

**English:** B2, IELTS 6, TOEIC 750 or equivalent

3 years Bachelor's degree can also apply to this program attending an additional semester (MILES program).



*It is exciting and also a great honour to be part of the MSc SCALE program since it perfectly combines innovative learning methods with the possibility of obtaining 4 professional certificates. With the MSc SCALE degree, I am sure to become a highly competitive professional.*

Diana, Colombian alumna

> **CONTACT**  
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> **APPLICATION**  
[www.tbs-education.fr/en](http://www.tbs-education.fr/en)

> **WEBSITE**  
[www.imt-mines-albi.fr/en](http://www.imt-mines-albi.fr/en)

