

# **COURSE GEST-H-501**

***LOGISTICS ENGINEERING AND MANAGEMENT***

***(LEM)***

**GENERAL INFORMATION**

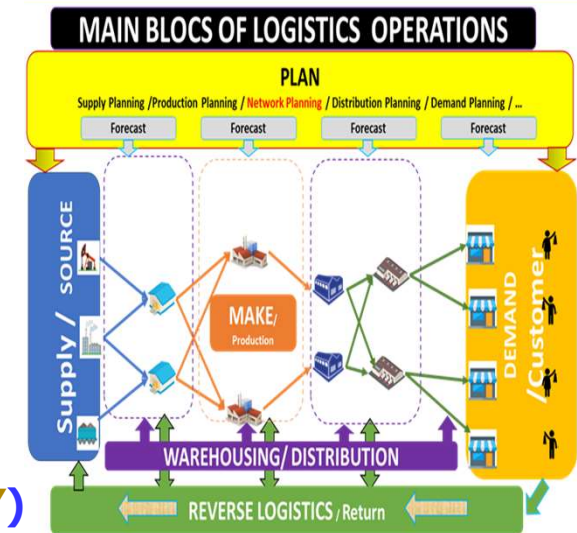
*Professor Alassane B. NDIAYE*

## KEY COURSE OBJECTIVES

- Introduce, to the future manager, **the key concepts of logistics processes optimization and logistics systems management** while insisting on the underlying principles and assumptions as well as the resulting limitations and practical issues of their application.
- Improve significantly the capacity of the future manager as regards the **integrated vision of industrial or business related problems**. The capability of having such a vision **is a critical skill** expected from any future manager who will have to deal with critical challenges of tomorrow.

## COURSE PLAN *(12 BLOCS VIEW)*

- **BLOC 1 : LOGISTICS PLANNING & FORECASTING (PLAN)**
- **BLOC 2 : SOURCING LOGISTICS (SOURCE)**
- **BLOC 3 : CONCEPTS OF DELIVER (DELIVER)**
- **BLOC 4 : WAREHOUSING & INVENTORY MANAGEMENT (INVENTORY)**
- **BLOC 5 : CONCEPTS OF PRODUCTION LOGISTICS (MAKE)**
- **BLOC 6 : LOGISTICS NETWORK PLANNING & MODELLING (NETWORK)**
- **BLOC 7 : DISTRIBUTION LOGISTICS PLANNING & MODELLING (DISTRIBUTION)**
- **BLOC 8 : REVERSE LOGISTICS (REVERSE)**
- **BLOC 9 : QUALITY MANAGEMENT (QUALITY)**
- **BLOC 10 : LOGISTICS INTEGRATION TOWARDS SUPPLY CHAIN (SUPPLY CHAIN INTEGRATION)**
- **BLOC 11 : SUPPLY CHAIN MANAGEMENT STRATEGIES (SUPPLY CHAIN STRATEGIES)**
- **BLOC 12 : SUPPLY CHAIN PERFORMANCE MANAGEMENT (SUPPLY CHAIN PERFORMANCE)**



## COURSE PLAN 2024-2025 *(SESSIONS & DATES VIEW)*

- **SESSION 01/M: 05/11/2024** – INTRODUCTION + BLOC 1 (THEORY & EXERCISES **PLANNING & FORECASTING**)
- **SESSION 02/M: 09/11/2024** – BLOC 1 (THEORY & EXERCISES **PLANNING & FORECASTING**)
- **SESSION 03/M: 12/11/2024** – BLOC 4 (THEORY & EXERCISES, **WAREHOUSING & INVENTORY MANAGEMENT**)
- **SESSION 04/M: 16/12/2024** – \*\*\* BLOC 5 (EXPERT TALK, **MAKE**) + BLOC 8 (EXPERT TALK, **REVERSE**) \*\*\*
- **SESSION 05/T: 19/11/2024** – BLOC 2 (**SOURCING**) + BLOC 3 ( **DELIVER**) + BLOC 9 (**QUALITY** )
- **SESSION 06/T: 23/11/2024** – BLOC 9 (**QUALITY** )
- **SESSION 07/M: 30/11/2024** – BLOC 6 (THEORY & EXERCISES, **LOGISTICS NETWORK MODELLING & PLANNING**)
- **SESSION 08/M: 03/12/2024** – BLOC 4 (EXPERT TALK, **INVENTORY**) + BLOC 7 (EXPERT TALK, **DISTRIBUTION**)
- **SESSION 09/M: 07/12/2024** – BLOC 7 (THEORY & EXERCISES, **DISTRIBUTION LOGISTICS**)
- **SESSION 10/M: 10/12/2024** – BLOC 9 (EXPERT TALK, **QUALITY** )
- **SESSION 11/T: 14/12/2024** – BLOC 10 (**SUPPLY CHAIN INTEGRATION**) + BLOC 11 (**SUPPLY CHAIN STRATEGIES**)
- **SESSION 12/T: 17/12/2024** – BLOC 11 (**SUPPLY CHAIN STRATEGIES**) + BLOC 12 (**SUPPLY CHAIN PERFORMANCE**)

\*\*\* MAY BE CONVERTED TO WRAP-UP SESSION IN JANUARY BEFORE EXAM – (PREPARATION OF THE EXAM)\*\*\*

**AGENDA COURSE GEST-H501 LOGISTICS ENGINEERING & MANAGEMENT, 2024-2025**

Dates	MC	Hour 1	Hour 2	Hour 3	Hour 4
Tuesday, 05/11/2024	A/Y	Introduction	PLAN & FORECAST	Tutorial - PLAN & FORECAST	
Saturday, 09/11/2024	Y	Tutorial - PLAN & FORECAST			
Tuesday, 12/11/2024	X	Expert Talk & Tutorial - INVENTORY & FORECAST			
Saturday, 16/11/2024	X	Expert Talk - PRODUCTION & REVERSE [ <i>**may be shifted to January as a wrap-up session**</i> ]			
Tuesday, 19/11/2024	A	SOURCING	DELIVER	Introduction to QUALITY MANAGEMENT	
Saturday, 23/11/2024	A	QUALITY MANAGEMENT			
Saturday, 30/11/2024	Y	Tutorial - LOGISTICS NETWORK MODELLING			
Tuesday, 03/12/2024	X	Expert Talk & Tutorial - INVENTORY		Expert Talk & Tutorial - DISTRIBUTION & TRANSPORT	
Saturday, 07/12/2024	Y	Tutorial - DISTRIBUTION LOGISTICS			
Tuesday, 10/12/2024	X	Expert Talk & Tutorial - QUALITY MANAGEMENT			
Saturday, 14/12/2024	A	SUPPLY CHAIN INTEGRATION		SUPPLY CHAIN MANAGEMENT STRATEGIES	
Tuesday, 17/12/2024	A	SUPPLY CHAIN MANAGEMENT STRATEGIES		SUPPLY CHAIN PERFORMANCE MANAGEMENT	
		EXAM: Monday, 20/01/2025, 16h30-18h30			

- **COURSE DEPLOYMENT**

*Course is deployed as a set of:*

- *Theory sessions (T)*
- *Exercises sessions (E)*
- *Mixed theory + exercises + Expert talks sessions (M)*
- *Wrap-up and dry-run exam preparation session (W)*

- **DATES**

- *First (ordinary) session: Tuesday 05 November 2024*
- *Last (ordinary) session: Tuesday, 17 December 2024*
- *\*\*\*Recap session and exam preparation: 1/2 day in Jan. 2025\*\*\**

- **CLASS ATTENDANCE AND PARTICIPATION**

- ✓ *Participation is required, but not formally evaluated.*
- ✓ *Individual in-class quizzes and short take-home assignments are possible and may lead to a 0.5 to 2 points bonus on the final grade.*

# EXAMINATION/GRADING

## GEST-H-501

### **(W1) - Written exam Part 1:**

*Multiple choice and/or open questions*

*January, duration 30mn*

### **(W2) – Written exam Part 2:**

*Solving of exercises*

*January, duration 90mn*

***FINAL GRADE = (20%W1 + 80%W2) + bonus***

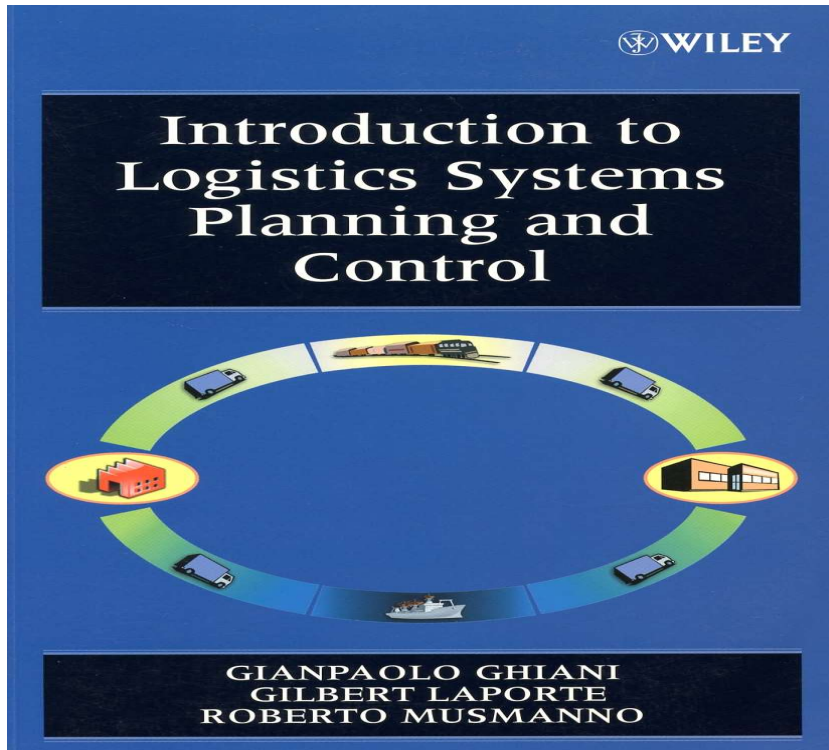
### **DATE:**

***- Monday 20 January 2025, 16h30-18h30***

***\* It is possible that Part 1, QCM, be replaced by an exercise \****



## ➤ MAIN REFERENCES



Editions WILEY, ISBN 0-470-84917-7



Editions Economica, ISBN 2-7178-5017-1

*Management Industriel et Logistique:  
Conception et pilotage de la Supply Chain.  
G. Baglin, O. Bruel, A. Garreau, M. Greif, et al*



## CONTACT

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