

<b>COURSE CODE</b>	<b>EM054M8AA1</b>	<b>SCORE</b>	<b>INCLUDED IN 30%</b>
<b>LEVEL</b>	<b>PGE – 2A</b>	<b>PROFESSOR</b>	<b>SAMIA GAMOURA, PHD.</b>
<b>CONTEXT</b>	<b>PROJECT MANAGEMENT</b>		
<b>TITLE</b>	<b>LOGISTICS PROJECT MANAGEMENT</b>		

# CASE STUDY

## DESCRIPTION

Try to propose a project to improve, change or resolve an issue in the warehousing management of FM Logistic. A brief presentation of the company with important information about the organization chart is provided as an Appendix document (Appendix 1).

Your idea should be a real innovative project that could help in the challenging context of FM Logistic (Warehousing) (must be related to a well-defined problem with challenges and issues in warehousing and logistics).

## GROUPS

Each student is free to choose or form his group. These are the parameters of your groups:

Min members per group = 1	1 *
Max members per group = 4	4
Maximum number of groups to participate in	1

\* Please not here that a student can choose to be alone in his group (individual work). However, he has to belong to a named group even he is alone.

## AVAILABILITY AND IMPORTANT DATES

Allow submissions of works from **	October 6, 2020 02pm00
Due date	October 13, 2020 02pm00
Require group to make submission	YES (no individual works)
Require all group members submit	YES

\*\* Groups (Students) who cannot submit through Moodle must send me their works by email to [samia.gamoura@em-strasbourg.eu](mailto:samia.gamoura@em-strasbourg.eu). In this case one student send the email and the other members must be in Cc of the same email. However, they have to respect the same dates schedule. No work will be accepted by email out of these dates.

## OBJECTIVE

Each group has to choose an idea in the proposed list below, or find his own idea of an innovative project for FM Logistic:

- Automated Warehouse Inventory (AWI) by using the automated drones (Appendix 2, image1)
- Automated Storage and Retrieval (ASR) by using smart robots navigators (Appendix 2, image 2)
- Vertically Mobile Rack (VMR) to avoid wasting time in grabbing high with machines (Appendix 2, Image3)

- Virtual Reality Training (VRT) for Forklift Truck Drivers in the warehouse (Appendix 2, Image 4)
- Complete Automated Pallet Storage and Retrieval System (CAPSRS) in the warehouse (Appendix 2, Image 5)

### To Do

Prepare an oral defense (soutenance) in a presentation support (ex. Powerpoint, Sway, LibreOffice, etc.) for a duration of 15 minutes.

All the members of the group must participate to the oral presentation.

5min will be for questions/answers afterward.

An absent member in the presentation/defense is considered as excluded, except students with a valid and justifiable reason (sick for example).

No work can be evaluated without an oral presentation. No work should be sent by email.

In your presentation plan, you have to develop and argue the follow plan:

#### Context

1. Describe the problem to resolve (the need)
2. Describe the project, dates, durations, goals, etc.

#### Tasks

1. Define the list of your tasks of activities: macro tasks, sub-tasks, etc.
2. Define the costs, durations, dates of all your tasks

#### Resources

1. Designate the project manager (1 student in the group)
2. Designate the resource allocations (the other students in the group): Who is responsible of what? For example: Financial manager, communication director, warehouse manager, IT developer, etc?

#### Procurement

1. Provide your procurement requirements (list)
2. Provide the budgets of your procurement list and the total budget to invest

#### Technical Flow Chart (TFC)

1. Propose your Work Breakdown Structure (WBS)
2. Propose your Organization Breakdown Structure (OBS)
3. Propose your Work Package (WP)

#### Planning

4. Realize your PERT/CPM (detailed plannings) of your project
5. Realize the Gantt (macro planning) of your project

**Note: This case study is evaluated and included in the practical score (30%)**

**APPENDIX 1**

See the document Appendix\_FM\_Logistic.pdf.

**APPENDIX 2**



*Image 1. Automated drone*



*Image 2. Smart robot navigator*



*Image 3. Vertical Mobile Racks*



*Image 4. Virtual Reality Training for forklift truck drivers*



*Image 5. Complete Automated Pallet Storage and Retrieval System*