

Production Management (ME-419)

Module 2: Demand Management

Assignment 4: Forecasting Steps (Step 3)

1. **Objectives**: The goal of this assignment is to practice the third step of forecasting and perform data analysis of the historical data (shipment/sales data) of your company (refer to forum of your group on Moodle).

Tasks: The tasks to complete and the results to obtain are as follows

- 1. Identification of the demand typology for each product family (constant, cyclic, seasonal, with trend).
- 2. Select a preliminary forecast model on the basis of the identified demand typology and justify your choice /Compute possible initial trend components/Compute possible initial seasonal components).
- 3. Perform an autocorrelation analysis on data (aggregated per product family)

Your submission:

- 1. File: Your slides
- 2. Time: The latest by Friday, Oct 11th before 11:55 AM.
- 3. Quality of the content:
 - a. We do expect to receive a professional work, similar to what you will hand over to your line manager in industry.
 - b. If necessary, use graphics to illustrate your content.
 - c. Cite others' work, websites, videos, ... when you use any content and submit your assignment.
 - d. Don't forget the executive summary and conclusion sections in your report.
- 4. Please ensure that you have to upload related files,
 - a. Class exercise
 - b. Your Slides
 - c. Excel file related to your assignment
 - d. Provide your Excel files in clearly documented worksheets, including goal, assumptions,
- 5. **This is a group assignment**, and there will be a group presentation for this assignment. Each presentation will have 7 minutes with 8 minutes of feedback.
- 6. Assignment is due on the scheduled date. Submission delay will have a negative score.
- 7. Connect, bond, and establish regular contact with your coach.
- 8. Connect and bond with your group members, define a proper group strategy for handling the workload and reach an agreement on the time to meet up during the week.
- 9. Upload your files (and the supporting files if applicable) in *Moodle*'s appropriate location.