

# INDU 6211 – PRODUCTION & INVENTORY

## Assignment – 4

**Due back on Monday, March 6, 2023, 1:00 PM**

This is an individual assignment. Submit only your own work. Cooperation with others is not permitted. Moodle closes at 1:00PM and you will not be able to submit afterwards. Late assignments or assignments submitted by email will not be accepted.

Submit the following on Moodle (do not submit by email):

- Your MS Word file (not the PDF file) for your report containing tables showing your solutions, analysis of your results and explanation of your recommendations. Your assignment will be marked based on the content of your report.
- One MS Excel file showing your calculations.

Do not upload ZIP or tar files.

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1. Solve the Parker Corporation case given in the attached scanned file.

To answer the question, I recommend that you create a Super Bill first, then fill in the table below:

Option	Sales	Projected Incr. (%)	Forecast	Planning Bill (%)
T-Body				
O-Body.				
G-Body				
total				
3 H.P.				
4 H P.				
5H P.				
total				
Chain				
Gear				
total				
Common Parts				

Then, for the Super Bill item and each component on the Super Bill, fill in the following table:

Week		1	2	3	4	5	6	7	8	9	10	11
Forecast												
Orders												
Projected Available Balance	?											
ATP												
MPS												

Note1: Last year's sales of 100 is spread over 52 weeks. So, you need to uniformly spread your demand forecasts over 52 weeks.

Note2: You will need to adopt a convention to round fractional weekly forecasts; One convention is to round up but carry forward the cumulative round-up amount so that the cumulative round-up is never greater than 1.