**Course Schedule (Revised July 27)**

**Fall 2023 OM 380.17 Supply Chain Analytics (#05160) RRH 4.402 TTH 9:30-10:45 AM**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Session** | **Day** | **Date** | **Topic** | **Case / Other Info.** | **Assignments Due** |
|  | T | 8/22 | ***NO CLASS*** | | |
| 01-RB | TH | 8/24 | Course Introduction; Process Analysis | Toyota Global Chip Shortage;  Electric Vehicle Supply Chain |  |
| 02-RB | T | 8/29 | Process Analysis | Kristen’s Cookie |  |
| 03-RB | TH | 8/31 | Toyota Production System | Toyota Motor Manufacturing | GR-1 |
| 04-RB | T | 9/05 | Process Analysis | Donner Company | GH-1 |
| 05-RB | TH | 9/07 | Process Analysis | Donner Company |  |
| 06-RB | T | 9/12 | Global Supply Chain Management | Sport Obermeyer | GH-2, GR-2 |
| 07-RB | TH | 9/14 | Global Supply Chain Management | Sport Obermeyer |  |
| 08-RB | T | 9/19 | Coordination and Contracts | Cargo | GH-3 |
| 09-RB | TH | 9/21 | Product Design, Inventory Planning | HP: Network Printer Design |  |
| 10-RB | T | 9/26 | Costing Alternatives | HP: Network Printer Design | GH-4 |
| 11-RB | TH | 9/28 | Operational Excellence | Southwest | GR-3 |
| 12-RB | T | 10/03 | Health & Safety | Alcoa (A) | GR-4 |
|  | TH | 10/05 | ***NO CLASS*** | | |
|  | F | 10/06 | **First Midterm Exam (3:30-6:30 PM) in GSB 3.130** | | |
| 13-GG | T | 10/10 | Intro. to Demand Forecasting Analytics | Ch. 1 & 2 in FPP |  |
| 14-GG | TH | 10/12 | Exponential Smoothing | Ch. 8.1 – 8.4 in FPP |  |
| 15-GG | T | 10/17 | Exponential Smoothing | Ch. 8.5 – 8.7 in FPP |  |
| 16-GG | TH | 10/19 | Introduction to ARIMA Modeling | Ch. 9.1 – 9.4 in FPP | IA-1 |
| 17-GG | T | 10/24 | Non-Seasonal ARIMA Forecasts | Ch. 9.5 – 9.7 in FPP |  |
| 18-GG | TH | 10/26 | Seasonal ARIMA Forecasts | Ch. 9.8 – 9.10 in FPP |  |
| 19-GG | T | 10/31 | Dynamic Demand Models | Ch. 10.1 – 10.3 in FPP |  |
| 20-GG | TH | 11/02 | Modeling Price Elasticity of Demand | Hand-out | IA-2 |
| 21-GG | T | 11/07 | Forecasting using Regression Trees | Article |  |
| 22-GG | TH | 11/09 | Fcst. POS Demand using XG-Boosting |  |  |
| 23-GG | T | 11/14 | Using Lagged Predictors in DF Models | Ch. 10.6 in FPP | IA-3 |  |
| 24-GG | TH | 11/16 | **SECOND MIDTERM EXAM** |  |  |  |
| 25-GG | T | 11/28 | Fcst. Effects of Price and Promotion | Marriott Rooms Forecasting |  |  |
| 26-GG | TH | 11/30 | Using Fourier Terms for Seasonality | Ch. 10.4 – 10.5 in FPP | GA |  |

**Note: RB = Rayan Bagchi; GG = Genaro Gutierrez**