Class 2022 Orientation





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Department Welcome



Dr. Reza Langari

Department Head Engineering Technology & Industrial Distribution

JR Thompson Endowed Chair





Student Introductions

- Name
- Company
- Title
- Why METM?





TCMT 612 Technical Management Decision Making



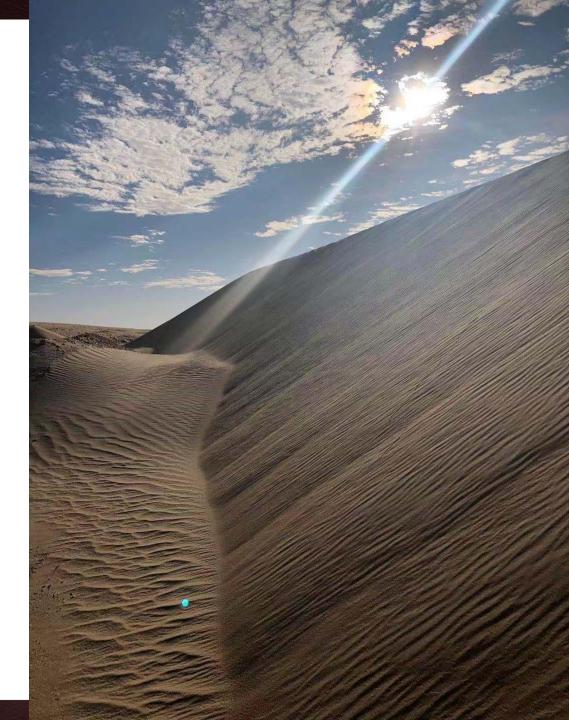
Dr. Xiaomin Yang Industry Professor

Saudi Aramco Technology Portfolio Manager



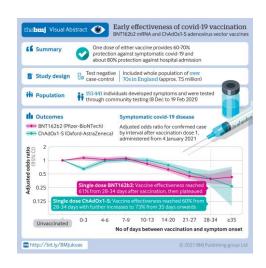
Howdy!

from Saudi Arabia



Add a slide of TA







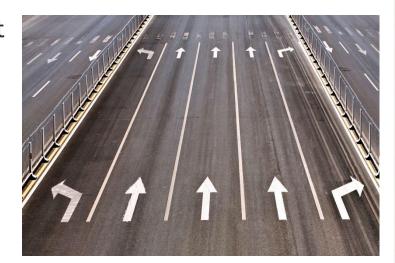




Common mistakes of decision-making

- Unclear business guidance
- Distracted by past decisions and sunk cost
- Drown by data: unclear purpose
- Lack of autonomy: too many cooks
- Difficult to be decisive and deliberative
- Too slow to adapt
- Fail to EXECUTE







Systematic approach to decision-making

From this course, You will learn:

You are expected to:

1. Understand competitive strategy

2. Articulate prudent business goals

3. Derive business insights from analysis

4. Evaluate uncertainty and risk

5. Make intuitive judgment

Think as a visionary leader

Able to make informed decisions

Be decisive and unbiased



Intuitive judgment

Module 1 - Introduction to Decision Making

Leadership and Management Styles

Module 2 - Intuitive Judgement in Decision Making

• Status Quo Bias and, Escalation of Commitment

Module 3 - Intuitive Judgement in Competitive Environments

Win-win negotiation and Negotiation Biases

- 1. How to manage intuitive judgment biases
- 2. How to apply structure and process to negotiation



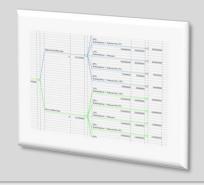


Decision-making under uncertainty

Module 4 - Data Driven Decision Making

- Visualize uncertain scenarios
- Make calculated choice
- Justify risks (conservative vs. gambler)
- Communicate decisions to motivate team

- 1. How to develop decision tree models
- 2. How to incorporate risk tolerance into decision analysis





Align decision with business strategy

Module 5 - Align Decision with Business Strategy

Cost Leadership and Differentiation Strategies

Module 6 - Measure Business Performance

• Financial Performance and Strategy Alignment

- 1. The secrets of industry profitability and competitive advantages
- 2. How to set strategic objectives and performance criteria





Data-driven decisions

Module 7 - Business Forecasting

Moving Average Method and Seasonal Analysis

Module 8 -Business Optimization

- Business Analytics to Transform Decision Making
- Demand / Production Planning and Inventory
 Optimization

Requirement:

Personal computer (with MS Window)*

MS office (offline version installed on PC)

*Analytics software not completely compatible with MAC

- 1. Build forecasting models to predict performance of a business
- 2. Draw business insights from optimization analysis





Add a slide of materials

- Textbooks
- Software
- Read materials
- Self assessment
- Negotiation projects
- Quiz
- Assignments
- Simulation
- Final exam
- Discussions



Have fun & enjoy the new journey!





TCMT 613 Technical Project Management



Prof. Michael Handy

Industry Professor

National Instruments
Engineering Section Manager



TCMT 613 Technical Project Management



TCMT 623 Financial Decision Making



Prof. Marc Marini Industry Professor

National Instruments

Director of Research &

Development, DAQ & Control



TCMT 623 Financial Decision Making





TCMT 624 Managing Technical Teams



Prof. Lisa Spence Industry Professor

NASA
Deputy Element Manager
(Retired)





TCMT 624 Managing Technical Teams



Break





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TCMT 619 Personal Leadership Coaching



Dr. Ben Zoghi

Founding Director
Master of Engineering Technical
Management

Victor H. Thompson Professor





TCMT 619 Personal Leadership Coaching



Prof. Bryan Anderson

Industry Professor

Anderson & Anderson EQ Coach



TCMT 619 Personal Leadership Coaching



Lunch Break





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Introduction & When to Contact



Ms. Leslie Ehlers

Assistant Director

Master of Engineering Technical

Management



Class President

• Selected during Residency Week

• Class Decision: Select in August or December?



Social Media

Facebook | Class Owned

LinkedIn | METM Owned



Student Handbook

- University Resources
- METM Student Expectations & Policies
- Steps for Success
- Faculty & Staff
- Student Rosters



Degree Plan

• August 18 Deadline

Step-by-Step Instructions



Break





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Introduction & Research Opportunities



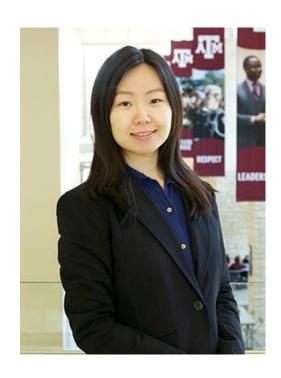
Dr. Michele Norton

Postdoctoral Research Associate Master of Engineering Technical Management





Introduction & When to Contact



Dr. Wei Lu

Curriculum Manager
Master of Engineering Technical
Management



Canvas Navigation



Canvas Q&A



