DEPARTMENT OF ENGINEERING TECHNOLOGY AND INDUSTRIAL DISTRIBUTION

Head: R. Langari

The College of Engineering offers web-based, graduate programs leading to the degree of Master of Industrial Distribution (MID) and Master of Engineering Technical Management (METM). Enrollment in MID and METM classes are restricted to students who have been admitted to the MID program and METM program, respectively.

The MID program of study has been designed for individuals with interest and/or background in industrial and high technology channels.

http://id.tamu.edu/graduate/mid-program/program-overview

The METM program of study has been designed to provide individuals with technical talents and business acumen.

http://engineering.tamu.edu/etid/academics/degrees/metm

Faculty

Alvarado, Jorge L, Professor
Eng Tech & Ind Distribution
PHD, University of Illinois, 2004

Asadi, Amir, Assistant Professor
Eng Tech & Ind Distribution
PHD, University of Manitoba, 2013

Bosshard, John C, Lecturer
Eng Tech & Ind Distribution
PHD, Texas A&M University, 2012

Buchanan, Walter W, Professor
Eng Tech & Ind Distribution
PHD, Indiana University, 1993

Capar, Ismail, Associate Professor
Eng Tech & Ind Distribution
PHD, Mississippi State University, 2007

Chang, Yanling, Assistant Professor
Eng Tech & Ind Distribution
PHD, Georgia Institute of Technology, 2015

Clark Jr, Norman L, Instructional Associate Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 2015

Fang, Gwo-Ping, Associate Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 1996

Fink, Rainer J, Associate Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 1995

Goulart, Ana E, Associate Professor
Eng Tech & Ind Distribution
PHD, Georgia Institute of Technology, 2005

Gunasekaran, Senthilmu, Research Assistant Professor
Eng Tech & Ind Distribution
DEN, Texas A&M University, 2014

Hsieh, Sheng-Jen, Professor
Eng Tech & Ind Distribution
PHD, Texas Tech University, 1995

Hung, Nguyen P, Associate Professor
Eng Tech & Ind Distribution
PHD, University of California, Berkeley, 1987

Hur, Byul, Assistant Professor
Eng Tech & Ind Distribution
PHD, University of Florida, 2011

Iakovou, Eleftherios, Professor
Eng Tech & Ind Distribution
PHD, Cornell University, 1992

Jennings, Daniel F, Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 1986

Johnson, Michael D, Associate Professor
Eng Tech & Ind Distribution
PHD, Massachusetts Institute of Technology, 2004

Keblis, Matthew F, Associate Professor
Eng Tech & Ind Distribution
PHD, University of Michigan, 1995

Krishnadevarajan, Pradip K, Lecturer
Eng Tech & Ind Distribution
MS, Texas A&M University, 2003

Kuttolamadom, Mathew A, Assistant Professor
Eng Tech & Ind Distribution
PHD, Clemson University, 2012

Lawrence, Frederick B, Professor
Eng Tech & Ind Distribution
PHD, Texas A&M University, 1999

Leon, Victor J, Professor
Eng Tech & Ind Distribution
PHD, Lehigh University, 1991

Ma, Chao, Assistant Professor
Eng Tech & Ind Distribution
PHD, University of California, 2015

Morgan, Joseph A, Senior Professor
Eng Tech & Ind Distribution
DEN, Texas A&M University, 1983

Nagarathnam, Bharani B, Instructional Assistant Professor
Eng Tech & Ind Distribution
MS, Texas A&M University, 2002
Natarajarathinam, Malini, Associate Professor  
Eng Tech & Ind Distribution  
DOC, University of Alabama, 2007

Nepal, Bimal P, Associate Professor  
Eng Tech & Ind Distribution  
PHD, Wayne State University, 2005

Obeidat, Suleiman M, Instructional Assistant Professor  
Eng Tech & Ind Distribution  
PHD, University of Oklahoma, 2008

Porter, Jay R, Professor  
Eng Tech & Ind Distribution  
PHD, Texas A&M University, 1993

Price, Angie H, Associate Professor  
Eng Tech & Ind Distribution  
PHD, Texas A&M University, 1999

Song, Xingyong, Assistant Professor  
Eng Tech & Ind Distribution  
PHD, University of Minnesota, Twin Cities, 2011

Vanajakumari, Manoj N, Associate Professor  
Eng Tech & Ind Distribution  
PHD, University of Texas at Dallas, Richardson, 2007

Wang, Jyhwen, Professor  
Eng Tech & Ind Distribution  
PHD, Northwestern University, 1991

Zhan, Wei, Associate Professor  
Eng Tech & Ind Distribution  
PHD, Washington University in St. Louis, 1991

Zoghi, Behbood B, Professor  
Eng Tech & Ind Distribution  
PHD, Texas A&M University, 1993

Masters

• Master of Engineering Technical Management in Technical Management (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/technology-industrial-distribution/metm)
• Master of Industrial Distribution in Industrial Distribution (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/engineering/technology-industrial-distribution/mid)

Courses

ENTC 689 Special Topics in...  
Credits 1 to 4. 1 to 4 Lecture Hours.  
Selected topics in an identified area of engineering technology. May be repeated for credit.

IDIS 611 Current Issues in Industrial Distribution  
Credits 3. 3 Lecture Hours.  
Contemporary issues and trends affecting participants in the industrial distribution industry; opportunities and challenges for leaders identified and explored from the perspective of industrial distributors, manufacturers and end users.  
Prerequisite: Enrollment in the MID program.

IDIS 614 Industrial Distributor Networks  
Credits 3. 3 Lecture Hours.  
Industrial distributor's network channel in distribution centers, warehouse management systems, hot-shot and standard truck fleets, forecasting and purchasing strategies for technical products; an examination of the integration of the field and inside sales force into distributor network strategy.  
Prerequisite: Enrollment in the MID program.

IDIS 621 Industrial Distributor Processes I  
Credits 3. 3 Lecture Hours.  
Industrial distributor processes with an emphasis on assessing the value added effectiveness of specific industrial distributor initiatives.  
Prerequisite: IDIS 644.

IDIS 622 Industrial Distributor Processes II  
Credits 3. 3 Lecture Hours.  
Continuation of IDIS 621.  
Prerequisite: IDIS 621.

IDIS 624 Strategic Relationships for Industrial Distributors  
Credits 3. 3 Lecture Hours.  
Issues related to establishing and maintaining a beneficial relationship between distributors and manufacturers; developing effective buyer-seller relationships in the industrial distribution sector.  
Prerequisite: Enrollment in the MID program.

IDIS 634 Quality Concepts in Industrial Distribution  
Credits 3. 3 Lecture Hours.  
Concepts, issues and techniques used to plan, analyze, control, and improve the quality of industrial distribution products and processes for increased consumer satisfaction.  
Prerequisite: IDIS 655.

IDIS 644 Industrial Distributor Information and Technology Management  
Credits 3. 3 Lecture Hours.  
Industrial distributor's use of information systems to manage operations; combination of information systems and automation to achieve increased cross docking drop ships and automated tracking of industrial distributor operations metrics.  
Prerequisite: IDIS 614.

IDIS 655 Global Distribution  
Credits 3. 3 Lecture Hours.  
Issues in global distribution on a small to large scale; emphasis on competitive global business strategies, cultural and exchange issues, distribution practices of other countries, global distribution networks, and transportation issues across the globe; an optional one week international trip to solidify foundation in international distribution concepts and strategies.  
Prerequisite: IDIS 611.

IDIS 664 Distribution Profitability Analysis  
Credits 3. 3 Lecture Hours.  
Integrating advanced financial and accounting analysis useful to distribution executives in assessing the financial performance of distribution operations. Concepts and techniques in using financial statements and industrial distribution industry studies to manage cash flow, debt, working capital risk, capital budgeting, credit, receivables, inventory, personnel and profitability.  
Prerequisite: IDIS 624.
IDIS 674 Industrial Distribution Enterprise
Credits 3. 3 Lecture Hours.
Explore changing environment of industrial distribution from globalization effects, environmental conditions, industrial distribution culture and organizational factors; focus on building, achieving and sustaining a competitive advantage.
Prerequisite: IDIS 664.

IDIS 685 Directed Studies
Credits 1 to 6. 1 to 6 Other Hours.
Individual and group problems dealing with application of industrial distribution theory and practice; foreign and domestic projects of special interest. May be repeated for credit.
Prerequisites: Enrollment in the MID program and approval of program director.

IDIS 689 Special Topics in...
Credits 1 to 4. 1 to 4 Other Hours.
Selected topics in an identified area of industrial distribution. May be repeated for credit.
Prerequisite: Approval of MID program director.

IDIS 693 Professional Study
Credits 1 to 6. 1 to 6 Other Hours.
Approved professional study project in industrial distribution; preparation of a record of study summarizing the rationale, procedure and results of the completed study.
Prerequisite: Approval of MID program director.

TCMT 610 Engineering Personal Leadership
Credits 3. 3 Lecture Hours.
Development of cognitive, emotional, behavioral capabilities; identification and exploration of Emotional Intelligence (EQ) competencies; focuses on both the art and science of emotional EQ.
Prerequisite: Admission to the Master of Engineering Technical Management program.

TCMT 611 Financial Decision Making
Credits 3. 3 Lecture Hours.
Addresses financial concepts in engineering decision making; exploration of analysis of labor and material expenses, accounting methods and forecasting; combines scenario discussions, reflections, group exercises, and practical application learning.
Prerequisite: Admission to the Master of Engineering Technical Management program.

TCMT 612 Technical Management Decision Making
Credits 3. 3 Lecture Hours.
Key business concepts, practical processes and analytical tools to make value-driven decisions; focuses on lineage between managerial decisions and the performance of business enterprises; introduction to business strategy, financial principles, organization processes and people skills managers must weigh when making executable judgement calls; analytical tools to evaluate decisions and communicate desired outcomes with different professionals; use of business cases and real-world projects to help master practical knowledge and apply immediately.
Prerequisite: Admission to the Master of Engineering Technical Management program.

TCMT 621 Technical Project Management
Credits 3. 3 Lecture Hours.
Introduction to project management; emphasis on technical skills needed to manage complex projects and soft skills needed to communicate and manage the project team within a corporate structure.
Prerequisite: Admission to the Master of Engineering Technical Management program.

TCMT 622 Value Chain Management
Credits 3. 3 Lecture Hours.
Selected topics for the quantitative management an optimal operation of a supply-chain; emphasis on the interdependencies among supply-chain processes, integration of engineering, operational and financial metrics, supply-chain capability and asset management.
Prerequisite: Admission to the Master of Engineering Technical Management program.

TCMT 631 Capstone I
Credits 3. 3 Lecture Hours.
Addresses managing individual or collaborative engineering programs in complex dynamic business environments; provides tools and techniques to execute projects, programs and product enhancement initiatives that yield desired business results; learn through deductive, inductive and abductive analytical methods how to document and manage engineering program activities.
Prerequisite: Admission to the Master of Engineering Technical Management program.

TCMT 632 Developing New Products
Credits 3. 3 Lecture Hours.
Addresses managing individual or collaborative engineering programs in complex dynamic business environments; provides tools and techniques to execute projects, programs and product enhancement initiatives that yield desired business results; learn through deductive, inductive and abductive analytical methods how to document and manage engineering program activities.
Prerequisite: Admission to the Master of Engineering Technical Management program.

TCMT 633 Contract and Risk Management
Credits 3. 3 Lecture Hours.
Basic legal issues and terms commonly encountered by engineering businesses of all sizes; greater overall understanding of the company itself and allow technical professionals to more knowledgeably, efficiently and effectively lead their business; overview of relevant legal aspects of managing an engineering company with emphasis on contracts and intellectual property management; understanding of contract terms and clauses; identification and mitigation of areas of potential legal liability through contract negotiation; how to manage and commercialize intellectual property.
Prerequisite: Admission to the Master of Engineering Technical Management program.

TCMT 641 Capstone II
Credits 3. 3 Lecture Hours.
Research project for firm or the Global Supply Chain Laboratory under the guidance of the instructor, other faculty and researchers in the lab; development of a problem statement, proposal, mid-term update, final report, and presentation for management.
Prerequisite: Admission to the Master of Engineering Technical Management program.
TCMT 642 Managing Technical Teams
Credits 3. 3 Lecture Hours.
Offers background, tools and basic understanding into the skills, traits, expectations and interactions of a manager or leader of a technical or professional team; compilation of tacit knowledge; focuses on eight key elements central and fundamental to successful technical leadership and management; introduction to a series of case examples or scenarios and appropriate readings and discussions to support concepts.
Prerequisite: Admission to the Master of Engineering Technical Management program.