General MSE Engineering Project Management Area

Suggested Courses

ME 597/ECE 595- Engineering Project Management

ME 597/ECE595- Advanced Engineering Economics

ME 597/ECE595- Statistical Concepts in Engineering

IE 530*- Quality Control (Prerequisite: basic statistics)

IE 545*-Engineering Economic Analysis

IE 546*- Economic Decisions in Engineering (Prerequisite: basic probability)

IE 533*- Industrial Application of Statistics

IE 590R*- Manufacturing Economics

*denotes distance courses by Purdue University- Engineering Professional Education

Faculty: Dr. Masoud Mojtahed **, Dr. Yeow Siow

Automatic Control Graduate Area

Suggested Courses

ECE 569- Introduction to Robotics

ECE 595- Estimation, Identification, and Control

ECE 595- MATLAB

ECE 595- Neural Network

ME 578*-Digital Control

ME 575*-Theory and Design of Control

ECE 600*- Random Variables and Signals

ECE 602*-Lumped System Theory (W. Lafayette campus core)

Math Courses

MA 511* or MA 554-Linear Algebra with Applications

ME 597-Numerical Methods

*denotes distance courses by Purdue University- Engineering Professional Education

Faculty: Dr. Nasser Houshangi**, Dr. Donald Gray

Combustion Graduate Area

Suggested Courses

ME 525- Combustion

ME 597-Numerical Heat & Mass Transfer

ME 597- Combustion Fluid Dynamics

ME 510*- Gas Dynamics

ME 500*-Advanced Thermodynamics

ME 505*-Intermediate Heat Transfer

ME 509*-Intermediate Fluid Mechanics

Math Courses

ME 597-Numerical Methods in Engineering

*denotes distance courses by Purdue University- Engineering Professional Education

Faculty: Dr. Chenn Zhou**, Dr. Yeow Siow, Dr. Xiuling Wang

Design Graduate Area

Suggested Courses

ME 597- Fatigue Analysis

ME 597-Material Selection in Design

ME 597-Finite Element Analysis

ECE 569-Intoduction to Robotics

ME 553*-Product and Process Design

ME 557*- Design for Manufacturability

ME 571*- Reliability Based Design

Math Courses

ME 597-Numerical Methods for Engineers

STAT 514*-Design of Experiments

*denotes distance courses by Purdue University- Engineering Professional Education

Faculty: Dr. Bipin Pai**, Dr. Yulian Kin, Dr. Harvey Abramowitz

Environmental Control Graduate Area

Suggested Courses

ME 597- HVAC

ME 597-Air Quality Modeling

ME 597- Solid Waste Management

ME 597- Water Quality

ME 597- Watershed Management

ME 597- Air Pollution Control

ME 513*-Engineering Acoustics

ME 560*-Mechanical Vibrations

ME 640*-Structural Acoustics

Math Courses

ME 597-Numerical Methods

*denotes distance courses by Purdue University- Engineering Professional Education

Faculty: Dr. George Nnanna, Dr. Xiuling Wang, Dr. Chenn Zhou, Dr. Harvey Abramowitz**

Thermal Fluids Graduate Area

Suggested Courses

ME 597- Computational Fluid Dynamics or ME 614*-Computational Fluid Dynamics

ME 597- Heat Transfer in Electronics

ME 597- Micro-scale Heat Transfer

ME 597-Numerical Heat & Mass Transfer

ME 500*- Advanced Thermodynamics

ME 505*-Intermediate Heat Transfer

ME 509*-Intermediate Fluid Mechanics

ME 597*-Spray Theory and Applications

Math Courses

ME 597-Numerical Methods for Engineers

*denotes distance courses by Purdue University- Engineering Professional Education

Faculty: Dr. George Nnanna**, Dr. Xiuling Wang, Dr. Chenn Zhou, Dr. Harvey Abramowitz, Dr. Yeow Siow

Theoretical and Applied Mechanics Graduate Area

Suggested Courses

ME 597-Finite Element Analysis

Me 597- Fatigue Analysis

ME 559*-Micromechanics of Materials

ME 560*-Kinematics

ME 577*-Human Motion Kinetics

Math Courses

ME 597-Numerical Methods for Engineers

*denotes distance courses by Purdue University- Engineering Professional Education

Faculty: Dr. Bipin Pai**, Dr. Masoud Mojtahed, Dr. Yulian Kin