

LTT-MS Course Descriptions

IET 505 - Production and Inventory Control Systems. 3 hrs. Principles of production and inventory planning and control. Forecasting techniques, EOQ, MRP, production scheduling, line balancing, CPM/PERT.

IET 506 - Industrial Automation. 3 hrs. Automation and its implications to industrial processes, economics, and interpersonal relations.

IET 507 - Personnel in Technology. 3 hrs. The procurement, development, and utilization of technical personnel.

IET 508 - Innovations in Technology. 3 hrs. Introduction to factors involved in technological change within an industrial operation.

IET 509 - Plant Layout and Material Handling. 3 hrs. Effectiveness of plant layout to the production activity involving personnel, materials, tools, and equipment.

IET 510 - Motion and Time Study. 3 hrs. A study of the optimization of the relationship between technology and personnel.

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IET 513 - Lean Production Systems. 3 hrs. The strategic and tactical elements of lean production systems.

IET 514 - Engineering Project Management. 3 hrs. The strategic and tactical elements of engineering project management.

IET 520 - Design for Rapid Prototyping. 3 hrs. Survey of applications of rapid automated prototyping, stereo-lithography systems, parametric design, and reverse engineering.

IET 540 - Alternate Energy Systems. 3 hrs. Study of alternative sources of energy and power.

IET 541 - Industrial Energy Management. 3 hrs. Technical and economic aspects of industrial energy management, energy conservation techniques, and alternate energy sources.

IET 560 - Manufacturing Engineering Technology. 2 hrs. Principles and functions essential to the manufacture of tangible products. Materials, processes, quality, and other technical considerations.

IET 560L - Manufacturing Engineering Technology Laboratory. 1 hr.

IET 570 - Logistics Transportation Systems. 3 hrs. Analysis, design, and implementation of domestic and international transportation systems of people, processes, and technology.

IET 571 - Logistics Distribution Systems. 3 hrs. The analysis, design, and implementation of distribution systems of people, processes, and technology.

IET 580 - Industrial Simulation and Modeling. 3 hrs. Analysis of manufacturing and service operations encountered in industry using computer simulation techniques.

IET 592 - Special Problems. 1-3 hrs. Supervised study in selected areas of industrial engineering technology.

IET 615 - Advanced Supply Chain Management. 3 hrs. Principles of supply chain management (SCM) to include SCM concepts, strategies, and models.

IET 670 - Supply Chain Design and Management. 3 hrs. Designing and managing supply chain functions in a typical logistics environment.

IET 671 - Supply Chain Modeling and Analysis. 3 hrs. The design and operation of contemporary supply chains, with a special emphasis of modeling and analysis.

IET 672 - Global Supply Chain Management. 3 hrs. Relationships between supply chain entities and global issues which influence the management of those relationships.