

International Undergraduate Program
Faculty of Engineering, Kasetsart University

Frist Semester

Course ID	Course Natme	Credit	Date / Time
01206221	Applied Prob. And Stat.	3	Wed 9-12

Course Description

Probability, expected value and common probability distributions, sampling distributions, statistical inference for one-and-two sample problems, regression analysis, analysis of variance and their applications to industrial systems.

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Course ID	Course Natme	Credit	Date / Time
01206311	Manufacturing Processes I	3	Wed 9-12

Course Description

Fundamental of manufacturing processes: foundry, forming, welding, powder metallurgy, hot and cold rofming, cutting, turning, shaping, drilling, milling, surface finishing, gear manufacturing, rapid prototyping. Measurement and inspection.

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Course ID	Course Natme	Credit	Date / Time
01206321	Operation research I	3	Mon 13–16

Course Description

Techniques for solving deterministic problems: mathematical modeling, linear programming and dual problems, network models, inventory models, transportation and transshipment problems, assignment problems. Techniques for solving non–deterministic problems: decision making under uncertainty and risk, Games theory, critical path method for project management.

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Course ID	Course Natme	Credit	Date / Time
01206371	Maintenance Engineering	3	Thu 9-12

Course Description

Maintenance concepts, failure statistics and causes analysis, preventive maintenance system, planning and control of maintenance activities, spare parts controls, human resources for maintenance works, maintenance performance measurement and system appraisal for improvement.

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Course ID	Course Natme	Credit	Date / Time
01206422	Industrial Quality Assurance	3	Mon 13-16

Course Description

Basic concepts of quality, quality cost, problem solving tools and QC Tools, strategic quality management, total quality management, quality improvement, control of quality, customer needs, quality assurance in designing, supplier relations, quality assurance in manufacturing industry, quality assurance in service industry, quality assurance in supporting activity and customer service, document in quality assurance, quality management system, quality management system auditing, Thailand quality award.

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Course ID	Course Natme	Credit	Date / Time
01206423	Advanced Experimental Design for Eng.	3	F 9-12

Course Description

Quality improvement techniques, relationship between factors in the industrial systems and their problems, statistical analysis and design of control in industrial work, advanced mathematical models, response surface methodology, and Taguchi method.

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Course ID	Course Natme	Credit	Date / Time
01206432	Management Information	3	F 13-16

Course Description

The role of the information system in the management and decision making process, detailed development of management information systems through planning, design and implementation, introduction to information theory, the value of information, the information system and changes in the organization, examples and applications.

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Course ID	Course Natme	Credit	Date / Time
01206443	Ergonomics	3	Thu 13–16

Course Description

Concepts of products and services designs, process design, injury prevention and workplace design; principles of anthropometry, human sensory, physiology and psychology of human being emphasis on customers and blue–and white–collar workers in organizations.

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Frist Semester

Course ID	Course Natme	Credit	Date / Time
01206452	Industrial Cost Analysis	3	Wed 9-12

Course Description

Accounting equation. Recording transactions in industry. Financial statements. Adjusting entries. Analyzing financial statements. Financial accounting programs in industry. Generally accepted accounting principles. Traditional and activity-based costing. Cost assessment. Job costing. Process costing. Cost allocation. Master budgeting. Capital budgeting in industry.