INDM 5020

International Technology Management

Course Syllabus

Three Credit Semester Hours

Internet Delivery Course

Virtual Chat - TBA

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I. Introductory Statement: Globalization and technological innovations are the most significant drivers of strategic change in the world today. Internationalism is, primarily, driven by global product demands, global markets, customers' changing needs, technological research activities, product development and manufacturing, and the availability of resources. As the global firms heavily rely on technological innovations, technology enables firms within an industry to capture economies of scale and scope by going global. Technology is thus both driven by, and a key driver of, globalization.

The purpose of the course International Technology Management is to provide students with the opportunity to become familiar with the practices of international management. When home-market conditions are no longer enough to achieve and sustain success, aggressive companies enter international market. Arab, Chinese, and European merchants are well known examples of international entrepreneurial activity. The world is shrinking and so are the distances between countries and transportation systems. This course will be an educational experience for the students to learn how industry becomes and remains internationally prominent. This course will deal with the actual experiences of firms of all sizes, from many countries, as they come to grips with an increasingly competitive global industrial/business environment.

II. Course Description: Develops an understanding of international technology management for graduate students in the international environment.

III**. Outcomes:**

University Outcomes

- UCM graduates will demonstrate a mastery of intellectual and practical skills.
- UCM graduates will demonstrate knowledge of the world in which we live.
- UCM graduates will demonstrate an understanding of individual and social responsibility.
- UCM graduates will demonstrate the ability to integrate and apply skills, knowledge, and responsibility.

Industrial Management Program Outcomes
Management Skills

Outcome #1 - Apply management skills and concepts to specific situations.

- The student will apply the principles and philosophy of management systems, cost accounting, and economics to industry, including the interpretation of contracts, and the value of team building.
- The student will execute industrial safety standards including the ability to interpret the OSHA industry standards, establish safety and health procedures on the project site, and perform hazardous material and process analysis.

Project Management

Outcome #2 - Plan and implement a project.

- The student will identify the appropriate management principles necessary to complete a business plan, evaluation supply chains, and produce project plans.
- The student will create change orders, organize contract agreements, interpret engineering drawings, operations schedules, and develop a return on investment analysis.
- The student will prepare a complete project schedule, develop a procurement timetable, and establish a control manual.
- The student will develop a plan showing the logical sequence of activities and time duration in order to monitor progress and update schedules.

Human Resources

Outcome #3 - Analyze and develop a human relations strategy.

- The student will identify the management code of ethics for organizations and management individuals.
- Students will investigate union operations and labor relations within the industrial enterprise.

Communications Skills

Outcome #4 - Demonstrate the ability to communicate effectively.

- The student will apply oral, written, graphic and listening skills as each enhances the behavioral principles or attitude and effective communications.
- The student graduating from the program will be a manufacturing service provider and marketer of management skills and knowledge.
- Students will demonstrate the skills necessary to incorporate the technological tools used in industry to effectively communicate and collaborate with other professionals at a distance.

Industrial Economy

Outcome #5 - Explain and apply the basic concepts of an Industrial Economy.

- The student will complete the estimating, cost accounting, and bidding sequence necessary for project job acquisition and completion.
- The student will prepare a complete cost control analysis including the ability to establish an enterprise budget, prepare cost reports, and forecast expenditures.

Technical Skills

Outcome #6 - Introduce and adapted technical expertise to a given process or product.

- The student will implement the various forms of technology necessary to complete the task of process management, utilizing the computer and electronic data processing.
- The student will create complete word-processing, database, spreadsheet, and presentation applications for delivery on the information highway.
- The student will understand the science of materials and methods of manufacturing.

Research Skills

Outcome #7 - Perform, interpret, and explain research.

- The student will apply scientific knowledge of the mathematical, physical, and management sciences to the economic utilization of materials and forces of nature affecting operations of the industrial enterprise.

Technology Skills

Outcome #8 – Understand, communicate, and assess technology.

- The student will understand the impacts and be able to assess technology
- The student will effectively communicate in this digital and information technology era
- Students will practice techniques for developing innovative concepts and adding value to product/process

Technology Program Outcomes

An Organizational Style

- Acquire advanced skills for managing complex projects including planning and implementation
- Apply organizational skills and concepts to effectively manage available resources
- Be adaptable and focused on fostering continuous growth and development
- Analyze current global systems, national interactions, and local business industry workflow

A Global Orientation

- Demonstrate the ability to communicate effectively and interact in the global environment
- Analyze and develop processes and workflows
- Demonstrate multi-cultural awareness in a global and technological society
- Understand the importance of global functional integration
- Explain the importance of contemporary, global and societal issues as they relate to careers

Quality Systems Knowledge

- Recognize the characteristics that define quality relative to a specific discipline
- Identify, develop, and implement quality strategies
- Implement appropriate software applications for optimum quality and productivity

Technology Management Skills

- Understand scientific principles and technology relative to specialty area
- Select and implement discipline specific technology
- Develop, evaluate, and integrate technological systems to meet strategic goals
- Understand legal issues affecting the use and implementation of evolving technology
- Explain the significance of life-long learning for the purpose of enhancing discipline specific technical competencies

Technological Ethics and Professionalism

- Develop advanced professional and personal competencies in technology
- Practice within the specific profession to meet the highest social and ethical standards
- Explain and apply the basic concepts of a supply and demand economy in an information based society
- Demonstrate knowledge of professional integrity and ethical standards

Research skills for Innovation

- Apply advanced quantitative problem solving and decision making techniques
- Develop the ability to conduct applied experimental research
- Demonstrate integration techniques for new technologies related to a field of study
- Foster entrepreneurs through innovation, collaboration and managed technological change
- Research foundational and developing systems and make predictions concerning emerging technologies

IV. Course Objectives: A student, upon completion of INDM 5020, will be able to:

a. Define technology management and assessment
b. List the benefits of new technology that contribute to the overseas market.
c. Define International Technology Management
d. Analyze and display an understanding of the present situation for international business/industry and what the future might hold.
e. Analyze and apply theoretical and methodological knowledge on industrial management in an international perspective
f. Synthesize and state the importance of international-based industry and U.S based corporations in the international marketplace.
g. Identify and state the problems of a manager in an international environment and be able to demonstrate how to overcome such problems.
h. Demonstrate the student's analytical, intellectual, and evaluation skills that can be used individually as well as a team.

V. Topical Content:

a. Technology Management and Assessment
b. Trends of Technological Development
c. The Internationalization Process
d. The Global Business Environment
e. The World of International Trade
f. Ethics and Social Responsibility
g. Global Sourcing Strategy: R&D, Manufacturing, Value Chain, and Marketing Interfaces
h. The Design and Management of International Joint Ventures
i. International Strategy Formulation
j. The Impact of Globalization on the Organization of Activities
k. The strategy for managing across cultures
l. Organizational culture and diversity
m. Global Leadership
n. Ethical Challenges of International Management
o. Managing the New Global Workforce

VI. Texts/References:

Suggested books for reading:

Luthans and Doh, International Management: Culture, strategy, and behavior, 8th edition
Sterry, L. F. and Hendricks, R. W. (1999). Exploring Technology. T & E Publications, Menomonie, WI.
Beamish, P,. Morrison, A., Inkpen, A., and Rosenzweig, P. (2003). International Management. New York, McGrawHill.
Kurzweil, Ray, The Age of Spiritual machines: When computers exceed human intelligence
Tapscott, Don, Digital Economy: Promise and Peril in the age of networked intelligence

VII. Assessment:

a. Class Preparation - It is a general expectation that the student contribute a minimum of two hours of preparation time for each one hour of virtual chat time. Time usually would be spent reading the assignment, writing reviews, class preparation, or other activities necessary to achieve the stated outcomes for the course.

b. Class Participation - Active participation is encouraged and sought in order to have an interesting learning experience. Students will be called upon to discuss the reading material in the virtual class lectures. Students will be expected to read ahead of the assigned materials.

c. Virtual Chats will be conducted throughout the semester. We will be discussing those chapters covered prior to a particular chat date. Date and time are indicated in the "Course Schedule," and it will take approximately one hour.

d. Homework/Case study Assignments/Book Review - Homework assigned for the course will be completed in accordance with the format required by the professional standards normally found acceptable in industry. Work is to be completed in a timely fashion and submitted to the instructor for evaluation. Work must be completed on time.

VIII. Graduate Term Paper – All graduate students are required to write an investigative report relating to a specific area of Industrial Management. The paper will be prepared using the Publication Manual of the American Psychological Association (APA) and the text must be at least 10 pages long and must include a "summary and conclusions" of at least one page. All topics must be approved by the instructor.

Your paper should have:
1 – Cover page
2 – Table of content
3 – At least 10 pages of text
4 – At least 1 page of summary or conclusion
5 – You should submit a power point presentation with no more than 20 slides.

For other specification, please follow the APA, 6th edition. (Please note that points will be deducted for the paper that does not follow the APA format)

Each graduate student needs to submit three (3) potential subjects for the paper before the Mid Term (usually 9th week). The instructor will then assign you the topic for you to write on from the three (3) subjects that you submitted.

IX. Instructional Methods
1) Virtual Chat / Video Conference
2) Threaded Discussion Forums
3) Homework Assignments
4) Laboratory/Research Exercises
5) Tests/Quizzes
6) Library Searches
7) Videos/Audio Multimedia

X. Assessment Rubric/Grading Scale
Possible Percentile

Assignments/Article Critiques---------- 30%
Midterm Exam---------- 20%
Final Exam---------- 20%
Scholarly Research Paper---------- 20%
Participation (Includes Chat attendance & Participation) ---------- 10%

Grade Distribution:
A 90 - 100%
B 80 - 89%
C 70 - 79%

D 60 - 69%
F 59 or below

XI. Course Organization Policies:

a. Statement of Academic Honesty (Plagiarism) - Any instance of plagiarism, cheating, or academic dishonesty will result in a grade of "F" or "Zero Points" for the assignment or test and could result in an "F" for the course. Also, see the UCM General Catalog of Student Handbook/Calendar for further details on academic dishonesty policies.

b. Plagiarism: Borrowing of ideas, opinions, examples, key words, phrases, sentences, paragraphs, or even structures from another person's work, including work written or produced by others without proper acknowledgment.

1.Document Sources When

2.A direct quotation is used

3.Copy a table, chart, or other diagram

4.Paraphrase a passage in your own words

5.Present specific examples, figures, or factual information taken from a specific source and used to explain or support our judgments.

For more information, please refer to the "Guidelines for Online Courses" folder in the course website.

XII. Grading Policy – Tests and quizzes will be administered periodically during the semester. The course content is divided into two sections, followed by a midterm and final comprehensive examination. Quizzes may be administered unannounced at the discretion of the instructor. Special short assignments or problems set are used when appropriate to explore pertinent topics. Grades will be recorded in the Online Gradebook