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Fall 2019

CIMT 410-103: Senior Project

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COURSE NUMBER	CIM 410
COURSE DESCRIPTION	Senior Project
COURSE STRUCTURE	(3-0-3) (lecture hr/wk - lab hr/wk – course credits)
COURSE DESCRIPTION	Project management, business plan evaluation, proposal development, library research, and computer usage are stressed. Develop a business plan for a concrete batch plant, formal proposal, technical specifications, charts, cost estimate and design specifications for the senior project to be implemented. The project is appropriate to the student's concentration.
PREREQUISITE(S)	All required 300-level courses
COREQUISITE(S)	None
REQUIRED MATERIALS	WebNotes - downloadable
COMPUTER USAGE	Microsoft Word, Excel, PowerPoint
COURSE LEARNING OBJECTIVES	By the end of the course students are able to: <ol style="list-style-type: none"> 1. Develop, design, and evaluate a concrete industry business plan approved by the program director. 2. Apply their business, management, and financial knowledge gained from courses in the Business Minor to produce competent data and analysis. 3. Enhance critical thinking, research and communication skills. 4. Gain an appreciation for ethics, professionalism and life long learning.
CLASS TOPICS	Engineering Design Process, Brainstorming, Library research, Microsoft Project
STUDENT LEARNING OUTCOMES	The Course Learning Outcomes support the achievement of the following: <p>OUTCOME 5 - Understanding of project, quality, and safety management methods and the impact of their application on the financial and economic aspects of concrete materials, products and services. (Relates to CLO 1,2,3, and 4)</p> <p>OUTCOME 7 - Ability to communicate effectively ideas in oral, written, and graphical form. (Relates to CLO 3)</p> <p>OUTCOME 9- Appreciation and understanding of the legal and ethical implications of their work and an awareness of the impact of their actions and decisions-making on individuals, society, and the environment. (Relates to CLO 4)</p> <p>OUTCOME 10 - Understanding and ability to apply basic concepts in accounting, economics, finance, management, business law and marketing to real world situations. (Relates to CLO 1, and 2)</p>
GRADING POLICY	The grading policy is shown in the Webnotes manual, with point allocation for each assignment.
ACADEMIC INTEGRITY	NJIT has a zero-tolerance policy regarding cheating of any kind and student behavior that is disruptive to a learning environment. Any incidents will be immediately reported to the Dean of Students. In the cases the Honor Code violations are detected, the punishments range from a minimum of failure in the course plus disciplinary probation up to expulsion from NJIT with notations on students' permanent record. Avoid situations where honorable behavior could be

misinterpreted. For more information on the honor code, go to <http://www.njit.edu/academics/honorcode.php>

STUDENT BEHAVIOR

- No eating or drinking is allowed at the lectures, recitations, workshops, and laboratories.
- Cellular phones must be turned off during the class hours – if you are expecting an emergency call, leave it on vibrate.
- No headphones can be worn in class.
- Unless the professor allows the use during lecture, laptops should be closed during lecture.
- During laboratory, if you are finished earlier, you must show the professor your work before you leave class
- Class time should be participative. You should try to be part of a discussion

MODIFICATION TO COURSE

The Course Outline may be modified at the discretion of the instructor or in the event of extenuating circumstances. Students will be notified in class of any changes to the Course outline.

PREPARED BY

Dr. M. Mahgoub

COURSE COORDINATED BY

Dr. M. Mahgoub

CLASS HOURS

Friday

6:00 PM – 9:00 PM

CKB 126

OFFICE HOURS (GITC 2511)

By Apntmnt Only

(973) 596-6081 or mahgoub@njit.edu

COURSE OUTLINE

WK	Date	Activity	Document(s) Due
1	6-Sep	Course overview and introduction Discuss Concept Document Discuss the business plan project Discuss how to generate ideas	
2	13-Sep	Distribution of Sample Documents Visit to library for research seminar	Project Management Assignment One page description each (What, Why, and How)
3	20- Sep	Discussion on Project Mngement Softwares Brainstorming Session on Project Ideas Project Concept Discussion	Agenda for review meeting.
4	22- Sep	Review Meeting (I): Concept (Proposal) Document	First Draft of Concept (Proposal) Document
5	4-Oct	Final Discussions for Project Approval (Brief)	Select Seminar Topic
6	11-Oct	Seminar # 1 Seminar # 2	Concept Document, Resume Submission, Library Assignment, Progress Report 1
7	18-Oct	(Oral) Progress Reports 2 and Q&A Review Meeting (II): Follow up on progress of reports	Progress Report 2 Second Draft
8	25-Oct	Draft Presentation	PowerPoint Slides for Seminars 3 & 5. Preliminary Project Analysis
9	1-Nov	Seminar #3 and #5 (Oral) Progress Reports 3 and Q&A	Follow up with report progress Minutes of review meeting III. Progress Report 3
10	8-Nov	Progress Meeting	Follow up with report progress Answer any questions
11	15-Nov	Discussion of Deliverables Seminar #4	First Draft of Final Proposal
12	22-Nov	Progress Meeting	(Written) Progress Report
13	27-Nov	Progress Meeting	Answering Questions
14	6-Dec	Final Presentations	Final Proposal Final Presentation