Fall 2019

CIMT 410-103: Senior Project

Mohamed Mahgoub

Follow this and additional works at: https://digitalcommons.njit.edu/saet-syllabi

Recommended Citation

This Syllabus is brought to you for free and open access by the NJIT Syllabi at Digital Commons @ NJIT. It has been accepted for inclusion in School of Applied Engineering and Technology Syllabi by an authorized administrator of Digital Commons @ NJIT. For more information, please contact digitalcommons@njit.edu.
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

OBJECTIVES  
By the end of the course students are able to:
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 competitive data and analysis.
3. Enhance critical thinking, research and communication skills.

CLASS TOPICS  
Engineering Design Process, Brainstorming, Library research, Microsoft Project

STUDENT LEARNING OUTCOMES  
The Course Learning Outcomes support the achievement of the following:

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)

OUTCOME 7 - Ability to communicate effectively ideas in oral, written, and graphical form. (Relates to CLO 3)

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)

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)

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

<table>
<thead>
<tr>
<th>Wk</th>
<th>Date</th>
<th>Activity</th>
<th>Document(s) Due</th>
</tr>
</thead>
</table>
| 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 Mnagement Softwares**  
Brainstorming Session on Project Ideas  
Project Concept Discussion | Agenda for review meeting.                                                     |
| 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                                                             |