New Jersey Institute of Technology Syllabus – CE 711

Improvement in Productivity in Construction

Fall 2017

Professor Alan Slaughter, P.E., P.P.

Course Administration and Email: moodle2.njit.edu

Text: "Productivity Improvement for Construction and Engineering"

Author: J.K. Yates, Ph.D.; Publisher: ASCE Press

ISBN: 978-0-7844-1346-3

Perquisite: CE 610 Construction Management

<u>Course Description:</u> Improved methods in construction; various techniques of work sampling and productivity measurement; and current innovations in the construction industry for increasing efficiency.

Course Outline

Week/Date	Topic	Chapter
1/ Sept. 5	Introduction to Productivity	1
2/ Sept.11	A Look at the Construction Industry	3
3/ Sept. 18	Analysis of Improvement Programs	2

4/ Sept. 25	Human Impact and Safety	4
5/ Oct. 2	Improvement Studies	5
6/ Oct. 9	Data Analysis Methods	6
7/ Oct. 16	Case Studies	7
8/ Oct. 20	Midterm	
9/ Oct. 23	Eng. and Const. Improvement	8
10/ Oct. 30	Computer Applications	9
11/ Nov. 6	Computer Models	10
12/ Nov. 13	Global Issues	11
Nov. 20	Thanksgiving Week	
13/ Nov.27	Sustainability in Engineering	12
14/ Dec. 4	Sustainable Construction Materials	13
15/Dec. 11	Stone-Panel Curtain-Wall	Appendix A
Dec. 16	Final	

Term Projects

A list of suggested topics will be provided. Students must select a project either from a list provided or some other source. On Week 4 or before, students will submit a one paragraph topic description on Moodle.

The project report will be **10** pages, including text, photos, drawings and the like. The report will be prepared in an organized and professional manner. *(Neatness counts)*

Important Notes:

- 1. The NJIT Honor Code will be upheld in this course. Any violations will be brought to the immediate attention of the Dean of Students.
- 2. Any modifications or deviations to the syllabus throughout the semester will be made through consultation and agreement with the class.

Grades

Homework 15%
Midterm 25%
Term Paper 30%
Final 30%
Total 100%

Home works are due the Monday following the week it was assigned. I reserve the right to reduce a grade if the assignment is late.