Summer 2019

CE 711-851: Improvement in Productivity in Construction

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New Jersey Institute of Technology

Syllabus – CE 711

Improvement in Productivity in Construction Section: 851

Summer 2019

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

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Course Administration and Email: moodle.njit.edu

<u>Text</u>: <u>"Productivity Improvement for Construction and Engineering"</u>
Author: J.K. Yates, Ph.D.; Publisher: ASCE Press
ISBN: 978-0-7844-1346-3

<u>Perquisite:</u> 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/ May 20	Introduction to Productivity	1
2/ May 28	A Look at the Construction Industry	3
3/ June 3	Analysis of Improvement Programs	2
4/ June 10	Human Impact and Safety	4

5/ June 17	Improvement Studies	5
6/ June 24	*Midterm*	
7/ July 1	Eng. and Const. Improvement	8
8/ July 8	Sustainability	12, 13
9/ July 15	Global Issues	11
10/ July 22	Computer Applications **Term Paper Due**	9
11/ July 29	Computer Models	10
12/ August 4	*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 **8** 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.

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