

Spring 2019

CE 711-852: Improvement in Productivity in Construction

Alan Slaughter

Follow this and additional works at: <https://digitalcommons.njit.edu/ce-syllabi>

Recommended Citation

Slaughter, Alan, "CE 711-852: Improvement in Productivity in Construction" (2019). *Civil and Environmental Engineering Syllabi*. 108.
<https://digitalcommons.njit.edu/ce-syllabi/108>

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 Civil and Environmental Engineering Syllabi by an authorized administrator of Digital Commons @ NJIT. For more information, please contact digitalcommons@njit.edu.

New Jersey Institute of Technology

Syllabus – CE 711

Section: 852

Improvement in Productivity in Construction

Spring 2019

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

Contact: slaughte@njit.edu

Course Administration and Email: moodle.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

Course Description: 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/ Jan. 22	Introduction to Productivity	1

2/ Jan.28	A Look at the Construction Industry	3
3/ Feb. 4	Analysis of Improvement Programs	2
4/ Feb.11	Human Impact and Safety	4
5/ Feb. 19	Improvement Studies	5
6/ Feb. 25	Data Analysis Methods	6
7/ Mar. 4	Case Studies	7
8/ Mar. 10	Midterm	
Mar. 17 to Mar. 24 Spring Break		
9/ Mar. 25	Eng. and Const. Improvement	8
10/ April 1	Computer Applications	9
11/ Apr. 8	Computer Models	10
12/ Apr. 15	Global Issues	11
13/ Apr. 22	Sustainability in Engineering	12
14/ Apr. 29	Sustainable Construction Materials	13
15/ May 10	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	<u>30%</u>
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.

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.