

Fall 2019

CE 711-851: Improvement in Productivity in Construction

Alan Slaughter

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New Jersey Institute of Technology
Syllabus – CE 711
Improvement in Productivity in Construction
Section: 851
Fall 2019

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

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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

Prerequisite: [CE 610](#). Improved methods in construction; various techniques of work sampling and productivity measurement; and current innovations in the construction industry for increasing efficiency.

“Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at:

<http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>.

Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. **Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university.** If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at dos@njit.edu

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/ Sept. 3	Introduction to Productivity	1
2/ Sept. 9	A Look at the Construction Industry	3
3/ Sept. 16	Analysis of Improvement Programs	2
4/ Sept. 23	Human Impact and Safety	4
5/ Sept. 30	Improvement Studies	5
6/ Oct. 7	Data Analysis Methods	6
7/ Oct. 14	Case Studies	7
8/ Oct. 20	<i>Midterm</i>	
9/ Oct. 21	Eng. and Const. Improvement	8
10/ Oct.28	Computer Applications	9
11/ Nov.4	Computer Models	10
12/ Nov.11	Global Issues	11
13/ Nov. 18	Sustainability in Engineering	12
14/ Nov. 25	Sustainable Construction Materials	13
Nov. 28 to Dec. 1 Thanksgiving Holiday		
15/ Dec. 9	Appendix A Term Paper Due Dec.9	
16/ Dec. 15	<i>Final</i>	

Term Projects

A list of suggested topics will be provided. Students must select a project either from a list provided or some other source.

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.