



**Course Descriptor**  
**[CNMN3009 Construction Site Planning and Control]**

<b>Proposed Academic Year</b>	2018-2019	<b>Last Reviewed Academic Year</b>	2020-2021
<b>Course Code</b>	CNMN3009	<b>Course Title</b>	Construction Site Planning and Control
<b>Credit hours</b>	4	<b>Level of study</b>	Undergraduate
<b>College / Centre</b>	College of Engineering	<b>Department</b>	Civil & Environmental Engineering
<b>Co-requisites</b>		<b>Pre-requisites</b>	

**1. COURSE OUTLINE**

[This course prepares students with the knowledge and skills of site management techniques in construction so that they can be applied efficiently to safe construction operations.]

**2. AIMS**

[This course aims to equip the student to be able to: identify processes to implement a construction plan; to identify concepts and principles of site control, describe management decisions for a given site and conditions; and identify processes to manage the activities of subcontractors; identify potential construction hazards and risks; implement processes to deliver time, cost and quality objectives for a construction site; identify and review site procedures]

**3. LEARNING OUTCOMES (*Definitive*) and TEACHING, LEARNING and ASSESSMENT METHODS**

<b>Learning Outcomes (<i>Definitive</i>)</b>	<b>Teaching and Learning methods (<i>Indicative</i>)</b>	<b>Assessment (<i>Indicative</i>)</b>
Upon successful completion of this course, students will be able to:		
1. Demonstrate an understanding of the processes necessary for implementation of a construction plan	Lecture	Assignments + Exams
2. Evaluate the concepts and principles of site control	Lecture	Assignments + Exams
3. Analyze the processes for managing the activities of sub-contractors	Lecture	Assignments + Exams
4. Demonstrate an understanding of good record keeping for a site and ability to conduct site meetings.	Lecture	Assignments + Exams
5. Communicate complex ideas and information	Lecture	Assignments + Exams



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relating to a construction site.		
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**4. ASSESSMENT WEIGHTING**

Assessment	Percentage of final mark (%)
Assignment & Participation	20%
Quiz / Case Study	20%
Midterm	20%
Final Exam	40%
<b>TOTAL</b>	<b>100%</b>

**5. ACHIEVING A PASS**

Students will achieve 4 credit hour for this course by passing ALL of the course assessments (Assignments, Quiz, Midterm and Final examinations) and achieving a minimum overall score of 50.%

***NB \*Ensure that ALL learning outcomes are taken into account***

**6. Course Delivery Plan**

LECTURE TOPIC	TIME (HOURS)
The Project and Site Pre-Planning: The Project and Site Environment, Due diligence, Site Organization; and Layout.	12
Site and Field Engineering Issues: Building Layout, Soils and Drainage	8
Site Logistics: Site Logistical Procedure and Administration, Earth moving operations, Crane and Hoisting Equipment.	12
Leadership and Control: Leadership and Communication. Health and Safety, Environment and Security. Construction Cost Control. Project Planning, Construction Cost Control.	12
Site Meetings and Records: Agenda for Site meetings, Participants, Site Records. Progress Reporting and Control. Site Correspondence to convey complex information	8
Planning for Completion and Handover: Completion Certificates and Occupancy Permits. Final Accounts	8
<b>TOTAL HOURS</b>	<b>60</b>
Plus <b>RECOMMENDED INDEPENDENT STUDY HOURS</b>	<b>120</b>
<b>TOTAL COURSE HOURS</b>	<b>180</b>

**7. RECOMMENDED READING**

**Core text/s:**



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Sidney M Levy and Andrew Civitello (2014), Construction Operations Manual of Policies and Procedures, 5th Edition, McGraw-Hill Professional

Randy R Ramp and Bradley L Benhart (Editors) (2014), Construction Site Planning and Logistical Operations: Site Focused Management, Purdue University Press, West Lafayette, Indiana

**Library + online resources:**