

**POSTGRADUATE COURSES - SEMESTER 2, AY2023/2024 (DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING)**

*Default mode of teaching: Face-to-Face. Await updates in Canvas system for respective Lecturers' instructions.*

*Timetable is updated 20 Dec 2023. Check for the most updated (if any) in NUSMODS's timetable.*

Sem 2 (4 units courses) = 15 Jan 24 – 11 May 24

Sem 2A = 15 Jan 24 – 09 Mar 24

Sem 2B = 11 Mar 24 – 11 May 24

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Those not enrolled in the said programs, please email to [evetay@nus.edu.sg](mailto:evetay@nus.edu.sg) (for Postgraduate students of other Departments) or [ceelccc@nus.edu.sg](mailto:ceelccc@nus.edu.sg) (for CEE Dept's BEng students).

Course Code	Course Title	Pre-requisites	Prerequisite	Semester	Lecturer	Venue (Verify venue closer to date)	Duration	Day	Start Time	Note
CE5106QA	Ground Improvement - Hydraulic, Vibratory & Chemical	Background in soil mechanics or equivalent	CE5106 & CE5106A	SEM 2A	CHEW SOON HOE	LT6	03:00	Wed	18:00	
CE5106QB	Ground Improvement - Dynamic, Geosynthetic & Inclusions	CE5106QA, or CE5106A (Grad Cert students)	CE5106, or CE5106B (Grad Cert students)	SEM 2B	CHEW SOON HOE	LT6	03:00	Wed	18:00	
CE5107QA	Pile Foundation Design	Background in soil mechanics and foundation engineering or equivalent	CE5107, or CE5107A (Grad Cert students)	SEM 2A	CHIAN SIAU CHEN	ENG-AUD	03:00	Mon	18:00	
CE5107QB	Advanced Topics in Pile Foundation Design	CE5107QA, or CE5107A (Grad Cert students)	CE5107, or CE5107B (Grad Cert students)	SEM 2B	GOH SIANG HUAT, ANAND SARMA	ENG-AUD	03:00	Mon	18:00	
CE5112	Structural Support Systems for Excavation	CE5108 (priority to students of MSc Geotechnical Eng and MSc Civil Eng with specialization in Geotechnical Eng)	-	SEM 2	TAN SEE CHEE, QIAN XUDONG	LT7A	03:00	Fri	18:00	
CE5203	Traffic Flow and Control	-	-	SEM 2	YANG KAIDI	ENG-AUD	03:00	Thu	18:00	
CE5208	Transport Infrastructure Asset Management	-	-	SEM 2	ONG GHIM PING, RAYMOND	LT3	03:00	Wed	18:00	
CE5214QA	Energy Demand Analysis for the Built Environment	-	-	SEM 2A	PRATEEK BANSAL	SDE3-LT424	03:00	Fri	18:00	
CE5214QB	Mobility, Climate Change, and Energy Market	-	-	SEM 2B	PRATEEK BANSAL	SDE3-LT424	03:00	Fri	18:00	
CE5308QA	Coastal Processes and Protection	-	-	SEM 2A	JJARUI, GARY LEI	EA-06-03	03:00	Fri	18:00	
CE5308QB	Sediment Transport and Coastal Protection	-	-	SEM 2B	LI YUZHU, PEARL	EA-06-03	03:00	Fri	18:00	
CE5310	Hydroinformatics	-	-	SEM 2	VLADAN BABOVIC	E3-06-07	03:00	Thu	18:00	
CE5317QA	Eco-hydrology	-	CE5316C	SEM 2A	SIMONE FATICHI	EA-06-02	03:00	Tue	18:00	
CE5317QB	Nature Based Solutions for Coastal Protection	-	-	SEM 2B	JJARUI, GARY LEI, SIMONE FATICHI	EA-06-02	03:00	Tue	18:00	
CE5513	Plastic analysis of structures	-	-	SEM 2	QIAN XUDONG	EA-06-02	03:00	Wed	18:00	
CE5515	Structural Health Monitoring	-	-	SEM 2	KUANG SZE CHIANG KEVIN	EA-02-11	3:00	Fri	18:00	
CE5516QA	Structural Stability Concepts & Applications	Background in structural matrix analysis	CE5516 / CE4258 / TCE4258 / CE5516A	SEM 2A	QUEK SER TONG	EA-06-03	03:00	Wed	18:00	
CE5516QB	Structural Dynamics Concepts & Applications	Background in structural matrix analysis	CE5516 / CE4258 / TCE4258 / CE5516B	SEM 2B	QUEK SER TONG	EA-06-03	03:00	Wed	18:00	
CE5604	Advanced Concrete Technology	-	TCE5604	SEM 2	KONG KIAN HAU, DU HONGJIAN	SDE3-LT425	03:00	Tue	18:00	
CE5611QA	Advanced Prestressed Concrete Design	-	CE5611 & CE5611A	SEM 2A	KONG KIAN HAU	LT52	03:00	Mon	18:00	
CE5611QB	Precast Structural Concrete Design	Background in Structural Concrete Design	CE5611 & CE5611B	SEM 2B	KONG KIAN HAU	LT52	03:00	Mon	18:00	
CE5716	Introduction to Ocean Infrastructure & Renewables	-	CE5716A	SEM 2A	PAUL ONG PANG AWN	E3-06-03	03:00	Mon	18:00	
CE5717	Mooring and Cables for Ocean Infrastructure	-	-	SEM 2B	LOW YING MIN	E3-06-03	03:00	Mon	18:00	
CE5805QA	Construction Productivity Analytics	-	CE5805 & CE5805A	SEM 2A	CHUA KIM HUAT, DAVID	U Town-AUD 1	03:00	Mon	18:00	
CE5805QB	Design for Manufacture and Assembly	-	CE5805 & CE5805B	SEM 2B	CHUA KIM HUAT, DAVID	U Town-AUD 1	03:00	Mon	18:00	
CE5806QA	Advanced Project Management	-	CE5806 & CE5806A	SEM 2A	YEOH KER-WEI	ENG-AUD	03:00	Tue	18:00	
CE5806QB	Lean Construction	-	CE5806 & CE5806B	SEM 2B	YEOH KER-WEI	ENG-AUD	03:00	Tue	18:00	
CE5809	Management and Economics of International Construction	-	-	SEM 2	CHAN WENG TAT, PAUL ONG PANG AWN	LT1	03:00	Thu	18:00	
CE6006	Advanced Finite Element Analysis	-	-	SEM 2	POH LEONG HIEN	EA-06-07	03:00	Thu	18:00	
CE6102	Geotechnical Analysis	-	-	SEM 2	GOH SIANG HUAT	E2-0307PC4 / E3-06-07	03:00	Tue	18:00	
CE6601	Characterization of Sustainable Building Materials	-	-	SEM 2	GENG GUOQING	E3-06-05	03:00	Fri	18:00	

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ESE5001	Environmental Engineering Principles	-	ESE5001AB, ESE5901A & ESE5901B, NUS BEng in Env Eng.	SEM 2	LEFEBVRE OLIVIER PATRICK, BALASUBRAMANIAN, RAJASEKHAR, HU JIANGYONG, HE JIANZHONG, YU LIYA, CHEN JIAPING, GIN YEW-HOONG, KARINA	E1-06-03	03:00	Mon	18:00	NUS BEng EVE graduates are exempted
ESE5203	Aerosol Science and Technology	-	-	SEM 2	YU LIYA	SDE3-LT426	03:00	Fri	18:00	
ESE5401	Water Quality Management			SEM 2	GIN YEW-HOONG, KARINA	SDE3-LT421	03:00	Tue	18:00	
ESE5405	Water Treatment Process			SEM 2	HU JIANGYONG	SDE3-LT426	03:00	Thu	18:00	
ESE5607	Green Catalysis			SEM 2	IRIS YU	LT7	03:00	Mon	18:00	
ESE5880C	Topics in Env. Eng. - Environ Sys Planning & Analysis	-	-	SEM 2	ONG SAY LEONG	LT3	03:00	Wed	18:00	

The following CAPSTONE courses will be offered in Semester-2 for students of MSc Civil Engineering (Aug 2022 cohorts onwards).

Day and venue will be confirmed at a later date.

Capstone is a project course. Class meetings will be conducted for the purpose of briefings, instructions, and other activities which will be determined by Capstone Course Coordinator/s.

Course Code	Course Title	Pre-requisites	Capstone Course Coordinator	Tentative Day	Start Time	Note
CE5002A (4 Units)	Capstone for Structural Engineering	All: CE5509QA, CE5509QB, CE5510QA, CE5510QB	Dr Kong Kian Hau & Du Hongjian	Thursday	to be confirmed	Students who have completed the following courses during Grad Cert candidature may register: CE5509A, CE5509B, CE5510A, CE5510B.
CE5002B (4 Units)	Capstone for Geotechnical Engineering	All: CE5108QA, CE5108QB, CE5113QA, CE5113QB	A/Prof Goh Siang Huat	Thursday	to be confirmed	Students who have completed the following courses during Grad Cert candidature may register: CE5108A, CE5108B, CE5113A, CE5113B.
CE5002D (4 Units)	Capstone for Transportation Engineering	At least 2 courses: CE4221, CE5203, CE5205, CE5209, CE5210.	Dr. Liu Yang & Dr. Prateek Bansal	Tuesday	to be confirmed	-
CE5002E (4 Units)	Capstone for Infrastr Digitalization & Mgt	All: CE5805QA, CE5806QA, CE5808QA, CE5808QB	Prof David Chua & Dr Paul Ong	Wednesday	to be confirmed	Students who will be taking CE5805QA and CE5806QA in Sem-2 (beginning Jan 2024) may register.

The following project course is available for registration.

Please approach a Professor whose project you are keen to work on.

Ms Sally Ng (for MSc Environmental Eng) or Ms Sangeetha (for MSc Civil Eng) will share more information in January 2024.

Course Code	Course Title	Pre-requisites	Project Course Coordinator	Day	Start Time	Note
ESE5004 (8 Units)	Research Project	MSc Environmental Engineering	Prof He Jianzhong	Independent Study		A project proposal and project registration form required.
CE5001 (8 Units)	Research Project	MSc Civil Engineering	Dr Du Hongjian	Independent Study		