

**POSTGRADUATE MODULES - SEMESTER 1, AY2022/2023 (DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING)**

**Note:** Default for modules delivery is Face-to-Face. Await updates on LumiNUS / Canvas system for respective Lecturer/s' instructions.

**Note:** Default for Final Exam is Face-to-Face.

Timetable is updated 19 Jul 2022.

Sem 1 (4MC mods) = 08 Aug 22 – 03 Dec 22

Sem 1A = 08 Aug 22 – 01 Oct 22

Sem 1B = 03 Oct 22 – 03 Dec 22

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<i>Note: Level-6000 are PhD Modules</i>										
Module Code	MCS	Module Title	Pre-requisites	Prerequisite	Semester	Lecturer/s	Venue (Check before classes start)	Day	Start Time	
CE4221	4	DESIGN OF LAND TRANSPORT INFRASTRUCTURES	CE3121 Transportation Engineering, or equivalent	TCE4221	Sem 1	RAYMOND ONG, PRATEEK BANSAL	E1-06-08	Wed	18:00	Added in this list for the benefit of TUM Specialization
CE5010QA	2	FINITE ELEMENT CONCEPTS APPLICATIONS	-	CE4257 / TCE4257 / CE4257A / CE5010A	Sem1A	QUEK SER TONG	LT1	Wed	18:00	These modules were offered as a 4-MC CE4257
CE5010QB	2	FINITE ELEMENT ANALYSIS FOR CIVIL ENGINEERING	-	CE4257 / TCE4257 / CE4257B / CE5010B	Sem 1B	KOH CHAN GHEE	LT1	Wed	18:00	
CE5101	4	SEEPAGE CONSOLIDATION OF SOILS	-	-	Sem 1	TAN SIEW ANN	e-Learning (LT1)	Sat	9:30	
						GOH SIANG HUAT	LT4	Wed	18:00	
CE5104QA	2	TUNNELLING IN SOIL	Background in Soil Mechanics or equivalent	CE5104 & CE5104A	Sem1A	LEUNG CHUN FAI	LT2	Fri	18:00	
CE5104QB	2	TUNNELLING IN ROCKS	Background in geotechnical engineering or equivalent. Background in rock mechanics is useful but not essential.	CE5104 & CE5104B	Sem 1B	LEUNG CHUN FAI	LT2	Fri	18:00	
CE5108QA	2	KEY PRINCIPLES AND CONCEPTS OF EARTH RETENTION SYSTEMS	Background in soil mechanics or equivalent	CE5108 & CE5108A	Sem1A	GOH SIANG HUAT	LT7	Tue	18:00	
CE5108QB	2	DEEP EXCAVATIONS ANALYSIS AND MODELLING	CE5108QA	CE5108 & CE5108B	Sem 1B	TAN SIEW ANN	LT7	Tue	18:00	
CE5113QA	2	GEOTECHNICAL SITE INVESTIGATION	Background in soil mechanics or equivalent	CE5113 & CE5113A	Sem1A	CHEW SOON HOE	LT6	Thu	18:00	
CE5113QB	2	GEOPHYSICAL METHODS GEOTECHNICAL MONITORING	CE5113QA	CE5113 & CE5113B	Sem 1B	CHEW SOON HOE	LT6	Thu	18:00	
CE5205	4	TRANSPORTATION PLANNING	-	-	Sem 1	LIU YANG, PRATEEK BANSAL	EA-02-11	Tue	18:00	
CE5210	4	INTELLIGENT TRANSPORTATION SYSTEMS AND SIMULATION	-	TCE5025	Sem 1	YANG KAI DI	E1-06-07	Fri	18:00	
CE5312	4	OPEN-CHANNEL HYDRAULICS	CE3132 Water Resources Engineering or equivalent	-	Sem 1	LI YUZHU, PEARL, JIARUI, GARY LEI	EA-06-06	Mon	18:00	
CE5315	4	CLIMATE SCIENCE FOR ENGINEERS	CE3132 Water Resources Engineering or equivalent	-	Sem 1	SIMONE FATICHI	E3-06-04	Thu	18:00	
CE5316A	2	WATER RESOURCES FOR SMART AND LIVEABLE CITIES: INTRODUCTION	CE3132 Water Resources Engineering or equivalent	-	Sem1A	VLADAN BABOVIC	E3-06-01	Tue	18:00	
CE5316B	2	WATER RESOURCES MODELLING FOR URBAN CATCHMENTS	CE3132 Water Resources Engineering or equivalent	-	Sem 1B	OUI SENG KEAT	E3-06-01	Tue	18:00	
CE5509QA	2	ADVANCED STRUCTURAL STEEL DESIGN	Background in Structural Steel Design	CE5509 & CE5509A	Sem1A	PANG SZE DAI	LT7A	Mon	18:00	
CE5509QB	2	DESIGN OF COMPOSITE STEEL AND CONCRETE STRUCTURES	Background in Structural Steel Design	CE5509 & CE5509B	Sem 1B	LIEW JAT YUEN, RICHARD	LT7A	Mon	18:00	
CE5510QA	2	ADVANCED STRUCTURAL CONCRETE DESIGN	Background in Structural Mechanics and Analysis	CE5510 & CE5510A	Sem1A	KONG KIAN HAU	LT7A	Tue	18:00	
CE5510QB	2	RATIONAL DESIGN OF STRUCTURAL CONCRETE SYSTEMS	CE5510QA	CE5510 & CE5510B	Sem 1B	TAN KIANG HWEE	LT7A	Tue	18:00	
CE5610QA	2	SPECIAL TYPES OF CONCRETE AND CEMENTITIOUS MATERIAL (Rev. Jul 2022)	-	CE5610 & CE5610A	Sem1A	KONG KIAN HAU	LT3	Thu	18:00	
CE5610QB	2	CONCRETE REPAIR AND RETROFITTING OF STRUCTURAL CONCRETE (Rev. Jul 2022)	Background in Structural Concrete Design	CE5610 & CE5610B	Sem 1B	GENG GUOQING	LT3	Thu	18:00	
CE5720QA	2	OFFSHORE GEOMECHANICS	Background in Soil Mechanics and Foundation Engineering	CE5720A	Sem1A	OKKY AHMAD PURWANA	EA-06-07	Tue	18:00	
CE5720QB	2	OFFSHORE FOUNDATION SYSTEMS	Background in Soil Mechanics and Foundation Engineering	CE5720B	Sem 1B	OKKY AHMAD PURWANA	EA-06-07	Tue	18:00	
CE5721QA	2	OCEAN WAVES	CE3155A Structural Behaviour and CE3155B Structural Modelling, or equivalent	CE5307 / OT5201 / CE5307A / CE5721A	Sem1A	LOW YING MIN	EA-06-06	Thu	18:00	

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CE5721QB	2	HYDRODYNAMIC LOADS ON OFFSHORE STRUCTURES	Knowledge in water wave mechanics or equivalent	CE5307 / OT5201 / CE5307B / CE5721B	Sem 1B	PAUL ONG PANG AWN	EA-06-06	Thu	18:00	
CE5807QA	2	DIGITAL TECHNOLOGIES FOR CONSTRUCTION	-	CE5807 & CE5807A	Sem1A	CHUA KIM HUAT, DAVID	LT6	Wed	18:00	
CE5807QB	2	INTEGRATED CONSTRUCTION LOGISTICS	-	CE5807 & CE5807B	Sem 1B	CHUA KIM HUAT, DAVID	LT6	Wed	18:00	
CE5808QA	2	VIRTUAL DESIGN IN BIM	-	CE5808 & CE5808A	Sem1A	YEOH KER-WEI	LT1	Mon	18:00	CE5806QA will be offered in Sem-2.
CE5808QB	2	ADVANCED DIGITAL CONSTRUCTION	-	CE5808 & CE5808B	Sem 1B	YEOH KER-WEI	LT1	Mon	18:00	CE5806QB will be offered in Sem-2.
CE5881	4	TOPICS IN GEOTECHNICAL ENGINEERING: SOIL DYNAMICS	-	-	Sem 1	ANAND SARMA	EA-06-07	Mon	18:00	
CE6002	4	ANALYSIS OF CIVIL ENGINEERING EXPERIMENTS	-	-	Sem 1	RAYMOND ONG, PEARL LI, GARY LEI	E1-06-03	Thu	18:00	
CE6077A	2	NUMERICAL METHODS IN CIVIL ENGINEERING	CE2407 Engineering & Uncertainty Analyses, or equivalent	CE5311 / CE5377/6077 / CE6003 / CE6077QA	Sem1A	OOI SENG KEAT, POH LEONG HIEN	E4-04-02	Fri	18:00	
CE6077B	2	NUMERICAL METHODS FOR ENVIRONMENTAL FLOWS	CE2134 Fluid Mechanics, or equivalent	CE5311, CE5377/CE6077, CE6003	Sem 1B	OOI SENG KEAT	E1-06-16	Fri	18:00	
CE6077C	2	NUMERICAL METHODS AND APPLICATIONS TO CIVIL ENGINEERING MECHANICS	CE2407 Engineering & Uncertainty Analyses, or equivalent	CE5311, CE5377/CE6077, CE6003	Sem 1B	POH LEONG HIEN	E4-04-02	Fri	18:00	
CE6101	4	GEOTECHNICAL CONSTITUTIVE MODELING	Graduate Standing	-	Sem 1	LEE FOOK HOU	E1-06-06	Mon	18:00	

Next page for modules in Environmental Engineering and ModReg schedule please.

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ESE5001	4	ENVIRONMENTAL ENGINEERING PRINCIPLES	-	ESE5001AB / ESE5901 / ESE5901A / ESE5901B	Sem 1	HU JIANGYONG, KARINA GIN YEW-HOONG, LEFEBVRE OLIVIER PATRICK, BAE SUNG WOO, YU LIYA, PAUL CHEN	LT2	Mon	18:00	
ESE5204	4	TOXIC AND HAZARDOUS WASTE MANAGEMENT	ESE4 standing or higher	ESE5204A / ESE5204B	Sem 1	HE JIANZHONG, LIM MONG HOO	LT1	Thu	18:00	
ESE5301	4	ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY	-	ESE6301	Sem 1	HE JIANZHONG	LT7A	Wed	18:00	For MSc students; Research students please select ESE6301.
ESE5404	4	BIOLOGICAL TREATMENT PROCESSES	ESE4 standing or higher	-	Sem 1	ONG SAY LEONG	LT1	Tue	18:00	
ESE5880A	4	TOPICS IN ENVIRONMENTAL ENGINEERING: CHEM. LAB SAFETY	-	-	Sem 1	WAN NIANFENG	LT7A	Fri	18:00	
ESE6301	4	ADVANCED ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY	Graduate Standing in Environmental Engineering	ESE5301	Sem 1	HE JIANZHONG	LT7A	Wed	18:00	For Research students; MSc students please select ESE5301.

**Note:**

CE5718QA & CE5718QB will be offered in AY2023/24

[ModReg Timeline](#)

[ModReg Website](#)

**Drop Penalty Period**

	W' grade takes effect from	F' grade takes effect from
<b>Semester 1</b>	0000hrs, 22 Aug 22 to 2359hrs, 25 Sep 22	0000hrs, 26 Sep 22
<b>Mini Sem 1A</b>	0000hrs, 22 Aug 22 to 2359hrs, 28 Aug 22	0000hrs, 29 Aug 22
<b>Mini Sem 1B</b>	0000hrs, 17 Oct 22 to 2359hrs, 23 Oct 22	0000hrs, 24 Oct 22

Note: The function to drop modules via ModReg@EduRec is disabled during the 'F' grade effective period. To assist in dropping of the module, please contact the following while using your NUS email account, quoting your full name and Student ID Number:

- For Undergraduates, Graduates, Continuing & Professional Education Students – contact home faculty
- For Non-graduating Students – write to [nghelp@nus.edu.sg](mailto:nghelp@nus.edu.sg)

Mini Sem 1A and Sem 1B refer to MSc modules with only 2 modular credits (MCS). Please consult Program Requirements before selecting your modules.

**ACADEMIC CALENDAR AY2022/2023**

		SEMESTER 1				
Regular Semester	Mini Semester	Week	Dates		Public Holidays	
Regular Semester: 18 weeks	Instructional Period (6 weeks)	0	Mon, 1 Aug 2022	~ Sat, 6 Aug 2022	The following dates will be observed as University holidays during the academic year: (a) Hari Raya Haji 9 Jul 2022 (Sat) (b) National Day 9 Aug 2022 (Tue) (c) Deepavali 24 Oct 2022 (Mon) (d) Christmas Day 25 Dec 2022 (Sun)* (e) New Year's Day 1 Jan 2023 (Sun)* (f) Chinese New Year 22 Jan 2023 (Sun)* 23 Jan 2023 (Mon)	
		1	Mon, 8 Aug 2022	~ Fri, 12 Aug 2022		
		2	Mon, 15 Aug 2022	~ Fri, 19 Aug 2022		
		3	Mon, 22 Aug 2022	~ Fri, 26 Aug 2022		
		4	Mon, 29 Aug 2022	~ Fri, 2 Sep 2022		
		5	Mon, 5 Sep 2022	~ Fri, 9 Sep 2022		
	Recess	Mini Sem 1A: 8 weeks	6	Mon, 12 Sep 2022		~ Fri, 16 Sep 2022
			7	Sat, 17 Sep 2022		~ Sun, 25 Sep 2022
	Instructional Period (7 weeks)	Mini Sem 1B: 8 weeks	8	Mon, 26 Sep 2022		~ Sat, 1 Oct 2022
			9	Mon, 3 Oct 2022		~ Fri, 7 Oct 2022
			10	Mon, 10 Oct 2022		~ Fri, 14 Oct 2022
			11	Mon, 17 Oct 2022		~ Fri, 21 Oct 2022
			12	Mon, 24 Oct 2022		~ Fri, 28 Oct 2022
13			Mon, 31 Oct 2022	~ Fri, 4 Nov 2022		
14			Mon, 7 Nov 2022	~ Fri, 11 Nov 2022		
Reading	Mini Sem 1B: 8 weeks	15	Sat, 12 Nov 2022	~ Fri, 18 Nov 2022		
Examination	Mini Sem 1B: 8 weeks	16	Sat, 19 Nov 2022	~ Sat, 3 Dec 2022		
Vacation: 5 weeks		17	Sun, 4 Dec 2022	~ Sun, 8 Jan 2023		