POSTGRADUATE COURSES - SEMESTER 1, AY2026/2027 (DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING)

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

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

Timetable is updated 10 Jul 2026.

Sem 1 (4 units courses) = 10 Aug 26 – 05 Dec 26

Sem 1A = 10 Aug 26 – 03 Oct 26

Sem 1B = 05 Oct 26 – 05 Dec 26

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Note: Level-6000 are PhD Courses

Course Code	Units	Course Title	Pre-requisites	Preclusion	Semester	Lecturer/s	Venue (Check before classes start)	Day	Start Time	
CE5010QA	2	FINITE ELEMENT CONCEPTS & APPLICATIONS	-	CE4257 / TCE4257 / CE4257A / CE5010A	Sem1A	QUEK SER TONG	E1-06-04	Wed	18:00	
CE5010QB	2	FINITE ELEMENT ANALYSIS FOR CIVIL ENGINEERING	CE5010QA (Co-requisite)	CE4257 / TCE4257 / CE4257B / CE5010B	Sem 1B	CUI YUE	E1-06-04	Wed	18:00	
CE5101	4	SEEPAGE & CONSOLIDATION OF SOILS	UG: CE2112 Soil Mechanics; CVE3 or CVE4 standing or higher	-	Sem 1	GOH SIANG HUAT, ZHANG PIN	LT3	Tue	18:00	
CE5104QA	2	TUNNELLING IN SOILS	Background in Soil Mechanics or equivalent	CE5104 / CE5104A	Sem1A	LEUNG CHUN FAI	LT6	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	LT6	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	LT3	Thu	18:00	
CE5108QB	**2**	**DEEP EXCAVATIONS ANALYSIS AND MODELLING**	CE5108QA (Co-requisite)	CE5108 / CE5108B	Sem 1B	GOH SIANG HUAT	LT3	Thu	18:00	
CE5113	**4**	**GEOTECHNICAL INVESTIGATION & MONITORING**	UG: CE2112 Soil Mechanics; CE3116 Foundation Engineering Background in soil mechanics or equivalent	CE5113AB / CE5113A / CE5113B / CE5113QA / CE5113QB / TCE5113	Sem 1	CHEW SOON HOE	ENG-AUD	Wed	18:00	This course was previously offered as two 2-unit courses: CE5113QA and CE5113QB. Students who have completed CE5113QA and/or CE5113QB are not permitted to enrol in this course. The same restriction applies to students who have completed CE5113A and/or CE5113B.
CE5205	4	TRANSPORTATION PLANNING	UG: CE3121 Urban Transportation Engineering, or equivalent	-	Sem 1	LIU YANG, PRATEEK BANSAL	LT2	Tue	18:00	
CE5209	4	TRANSPORTATION DATA ANALYTICS AND MODELING	UG: CE3121 Urban Transportation Engineering, or equivalent; CVE4 standing or higher	-	Sem 1	LIU YANG	ENG-AUD	Thu	18:00	
CE5221[NEW]	4	DESIGN OF LAND TRANSPORT INFRASTRUCTURES	-	CE4221 / TCE4221	Sem 1	ONG GHIM PING, RAYMOND, PRATEEK BANSAL	LT7A	Wed	18:00	This course was previously offered as a 4-unit course CE4221 to MSc students. Students who have completed CE4221 are not permitted to enrol in this course.
CE5312	4	OPEN CHANNEL AND COASTAL HYDRAULICS	UG: CE3132 Hydrology and Free Surface Flows or equivalent	CE5312AB	Sem 1	LI YUZHU, PEARL, ADRIAN LAW WING KEUNG	SDE3-LT426	Mon	18:00	
CE5316QA	2	WATER RESOURCES FOR SMART AND LIVEABLE CITIES: INTRODUCTION	UG: CE3132 Hydrology and Free Surface Flows or equivalent	CE5316A	Sem1A	VLADAN BABOVIC, JOOST BUURMAN	LT1	Tue	18:00	
CE5316QB	2	WATER RESOURCES MODELLING FOR URBAN CATCHMENTS	UG: CE3132 Hydrology and Free Surface Flows or equivalent	CE5316B	Sem 1B	OOI SENG KEAT	LT1	Tue	18:00	
CE5318	**4**	**DECISION-MAKING FOR CLIMATE ADAPTATION**	-	CE5318AB	Sem 1	VLADAN BABOVIC, JOOST BUURMAN	E1-06-09	Wed	18:00	
CE5319	**4**	**CIRCULAR ECONOMY FOR SUSTAINABLE DEVELOPMENT**	-	-	Sem 1	GENG GUOQING, IRIS YU, YANG YI, DU HONGJIAN, PANG SZE DAI, PAN WEIYI	UT-AUD 3	Fri	18:00	
CE5509QA	**2**	**ADVANCED STRUCTURAL STEEL DESIGN**	Background in Structural Steel Design	CE5509 / CE5509A	Sem1A	PANG SZE DAI, MENG XIN	LT6	Mon	18:00	Students may choose to register for this course in Semester 2A (if offered) or take other courses within the same specialisation in Semester 2, if required.
CE5509QB	**2**	**DESIGN OF COMPOSITE STEEL AND CONCRETE STRUCTURES**	CE5509QA; Background in Structural Steel Design	CE5509 / CE5509B	Sem 1B	LIEW JAT YUEN, RICHARD	LT6	Mon	18:00	Students may choose to register for this course in Semester 2B (if offered) or take other courses within the same specialisation in Semester 2, if required.
CE5510QA	2	ADVANCED STRUCTURAL CONCRETE DESIGN	Background in Structural Mechanics and Analysis	CE5510 / CE5510A	Sem1A	KONG KIAN HAU	LT4	Tue	18:00	
CE5510QB	2	RATIONAL DESIGN OF STRUCTURAL CONCRETE SYSTEMS	CE5510QA (Co-requisite)	CE5510 / CE5510B	Sem 1B	TAN KIANG HWEE	LT4	Tue	18:00	
CE5610QA	2	CONCRETE AND CEMENTITIOUS COMPOSITES	-	CE5610 / CE5610A	Sem1A	GENG GUOQING	UT-AUD 1	Fri	18:00	
CE5610QB	2	REPAIR AND RETROFIT OF CONCRETE STRUCTURES	Background in Structural Concrete Design	CE5610 / CE5610B	Sem 1B	KONG KIAN HAU	UT-AUD 1	Fri	18:00	

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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	NG HSIAO PIAU	LT6	Wed	18:00	
CE5808QA	2	VIRTUAL DESIGN IN BIM	-	CE5808 / CE5808A	Sem1A	YEOH KER-WEI	LT7A (Mon) OR SDE3-LT421 (Thu)	Mon OR Thu	18:00	Please register for only one lecture session (Mon or Thu). CE5806QA will be offered in Sem 2A.
CE5808QB	2	ADVANCED DIGITAL CONSTRUCTION	-	CE5808 / CE5808B	Sem 1B	WAWAN SOLIHIN	LT7A (Mon) ONLY	Mon	18:00	There is only one lecture session on Mon. Please register for this session. CE5806QB will be offered in Sem 2B.
CE6002	4	ANALYSIS OF CIVIL ENGINEERING EXPERIMENTS	-	-	Sem 1	LOW YING MIN, YANG KAIDI	EA-06-05	Fri	18:00	
CE6077QA	2	NUMERICAL METHODS IN CIVIL ENGINEERING	-	CE5311 / CE5377 / CE6077 / CE6077A / CE6003	Sem1A	POH LEONG HIEN	SDE3-LT423	Thu	18:00	
CE6077QB	2	NUMERICAL METHODS FOR ENVIRONMENTAL FLOWS	UG: CE3132 Hydrology and Free Surface Flows CE6077QA (Co-requisite)	CE5311 / CE5377 / CE6077 / CE6077A / CE6003	Sem 1B	OOI SENG KEAT	SDE3-LT423	Thu	18:00	
CEE5901QA NEW	2	MACHINE LEARNING FOUNDATIONS FOR CEE	-	-	Sem1A	CUI YUE	LT7A	Thu	18:00	This course will be offered in Sem 2A as well.
CEE5901QB NEW	2	ADVANCED AI METHODS FOR CEE	CEE5901QA	-	Sem 1B	PRATEEK BANSAL	LT7A	Thu	18:00	This course will be offered in Sem 2B as well.

Next page for courses in Environmental Engineering and CourseReg 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, IRIS YU, YU LIYA, HE JIANZHONG	LT7	Mon	18:00	
ESE5003	4	ENVIRONMENTAL CHEMICAL PROCESS ANALYSIS	-	ESE6003	**Sem 1**	PAUL CHEN	SDE3-LT421	Fri	18:00	For MSc students; Research students please select ESE6003.
ESE5301	4	ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY	UG: ESE4 standing or higher	ESE6301	**Sem 1**	HE JIANZHONG	LT51	Wed	18:00	For MSc students; Research students please select ESE6301.
ESE5404	4	BIOLOGICAL TREATMENT PROCESSES	UG: ESE4 standing or higher	-	**Sem 1**	ONG SAY LEONG	SDE3-LT424	Tue	18:00	
ESE5880A	4	TOPICS IN ENVIRONMENTAL ENGINEERING: CHEM. LAB SAFETY	UG: ESE3 or ESE4 standing or higher	-	**Sem 1**	WAN NIANFENG	LT6	Thu	18:00	
ESE5880D[NEW]	4	NUCLEAR WASTE MANAGEMENT AND ENVIRONMENTAL REMEDIATION	Knowledge of General Chemistry and Introductory Environmental Engineering	-	**Sem 1**	PAN WEIYI	LT2	Mon	13:00	Please kindly note that this is an afternoon class and not an evening class.
ESE6003	4	ADVANCED ENVIRONMENTAL CHEMICAL PROCESS ANALYSIS	Graduate Standing in Environmental Engineering	ESE5003	**Sem 1**	PAUL CHEN	SDE3-LT421	Fri	18:00	For Research students; MSc students please select ESE5003.
ESE6301	4	ADVANCED ENVIRONMENTAL MICROBIOLOGY AND BIOTECHNOLOGY	Graduate Standing in Environmental Engineering	ESE5301	**Sem 1**	HE JIANZHONG	LT51	Wed	18:00	For Research students; MSc students please select ESE5301.

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Useful Links
CourseReg Website
GD CourseReg Schedule
GD Appeal Schedule
CourseReg Student User Guide
Academic Calendar AY2026/2027

Drop Penalty Period

	W' grade takes effect from	'F' grade takes effect from
Semester 1	0000hrs, 24 Aug 26 to 2359hrs, 27 Sep 26	0000hrs, 28 Sep 26
Mini Sem 1A	0000hrs, 24 Aug 26 to 2359hrs, 30 Aug 26	0000hrs, 31 Aug 26
Mini Sem 1B	0000hrs, 19 Oct 26 to 2359hrs, 25 Oct 26	0000hrs, 26 Oct 26

Note: The function to drop courses via CourseReg@EduRec is disabled during the 'F' grade effective period. To assist in dropping of the course, 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 – please submit your enquiries via the FAQ portal (under Ask A Question).

Mini Sem 1A and Sem 1B refer to MSc courses with only 2 units.
Please refer to Programme Requirements before selecting your courses.

ACADEMIC CALENDAR
AY2026/2027

SEMESTER 1

Regular Semester	Mini Semester		Week	Dates			Public Holidays
Regular Semester: 18 weeks	Orientation		0	*Mon, 3 Aug 2026*	~	*Sat, 8 Aug 2026*	The following dates will be observed as University holidays during the academic year: (a) National Day 9 Aug 2026 (Sun)* (b) NUS Well-Being Day 9 Oct 2026 (Fri) (c) Deepavali 8 Nov 2026 (Sun)* (d) Christmas Day 25 Dec 2026 (Fri) (e) New Year's Day 1 Jan 2027 (Fri) (f) Chinese New Year (to be confirmed) (g) Good Friday (to be confirmed)
	Instructional Period (6 weeks)	Mini Sem 1A: 8 weeks *Instructional Period (6 weeks)*	1	Mon, 10 Aug 2026	~	Fri, 14 Aug 2026	
			2	Mon, 17 Aug 2026	~	Fri, 21 Aug 2026	
			3	Mon, 24 Aug 2026	~	Fri, 28 Aug 2026	
			4	Mon, 31 Aug 2026	~	Fri, 4 Sep 2026	
			5	Mon, 7 Sep 2026	~	Fri, 11 Sep 2026	
			6	Mon, 14 Sep 2026	~	Fri, 18 Sep 2026	
	Recess	*Reading*		*Sat, 19 Sep 2026*	~	*Sun, 27 Sep 2026*	
	Instructional Period (7 weeks)	*Examination*	7	Mon, 28 Sep 2026	~	Sat, 3 Oct 2026	
		Mini Sem 1B: 9 weeks *Instructional Period (6 weeks)*	8	Mon, 5 Oct 2026	~	Fri, 9 Oct 2026	
			9	Mon, 12 Oct 2026	~	Fri, 16 Oct 2026	
			10	Mon, 19 Oct 2026	~	Fri, 23 Oct 2026	
			11	Mon, 26 Oct 2026	~	Fri, 30 Oct 2026	
			12	Mon, 2 Nov 2026	~	Fri, 6 Nov 2026	
			13	Mon, 9 Nov 2026	~	Fri, 13 Nov 2026	
	Reading	*Reading*		*Sat, 14 Nov 2026*	~	*Fri, 20 Nov 2026*	
	Examination	*Examination (2 weeks)*		*Sat, 21 Nov 2026*	~	*Sat, 5 Dec 2026*	
	Vacation: 5 weeks			*Sun, 6 Dec 2026*	~	*Sun, 10 Jan 2027*	