

Subject Description Form

Subject Code	CSE40429
Subject Title	Construction Law and Safety Management
Credit Value	2
Level	4
Pre-requisite/ Co-requisite/ Exclusion	CSE40419 Engineers in Society
Objectives	The subject aims to provide students with appreciation and understanding of social, legal and ethical aspects of engineering solutions and role of engineers in society. The emphasis will be on application of the above to assess the socio-political and legal impacts of civil engineering projects and ways of enhancing project delivery process.
Intended Learning Outcomes	Upon completion of the subject, students will be able to: - Identify and analyze the socio-political and ethical aspects of engineering projects. - Understand the role of stakeholders' ways of better communication throughout the project delivery process. - Discuss wider problems which face the society and to diagnose the engineers' contribution to possible solutions. - Present ideas and arguments logically in formal presentations and informal discussions. - Understand the impact of engineering solutions in a global, economic and socio-political context. - Recognize the need for, and to engage in life-long learning.
Subject Synopsis/ Indicative Syllabus	<u>Hong Kong Political and Legal System</u> Public works, funding, procurement and implementation. Government hierarchy, Political system, legal framework and legislature. Overview of ordinances related to Civil, Structural and Environmental Engineering in Hong Kong. (4 Weeks) <u>Contract law and law of tort</u> Major parties in the construction industry. Formation of a contract and its essential elements. Excuses for non- performance (misrepresentation, illegality, frustration and impossibility <i>etc.</i>). Breach of contract and remedies. Standard forms of contract. Tort of negligence, duty of care, breach of duty and remedies. Professional negligence and development. Dispute resolution mechanisms. (5 Weeks)

	3. <u>Ethics for Construction Professionals</u> Ethical concepts. Ethical management. Standards of behaviour. Case studies of malpractices and ethical dilemmas by ICAC (1 Week) 4. <u>Seminars on Representative Engineering Projects</u> (3 Weeks)																																																						
Teaching/Learning Methodology	Teaching methodology includes lectures by subject lecturers; invited seminars by professionals with the relevant backgrounds (government engineers, consultants, contractors and ICAC) Learning outcomes will be assessed continuously by monitoring the in-class response, quizzes, case study reports and assignments.																																																						
Assessment Methods in Alignment with Intended Learning Outcomes	<table><tr><th rowspan="2">Specific assessment methods/tasks</th><th rowspan="2">% weighting</th><th colspan="6">Intended subject learning outcomes to be assessed</th></tr><tr><th>a</th><th>b</th><th>c</th><th>d</th><th>e</th><th>f</th></tr><tr><td>1. Two group assignments and class participation / discussion</td><td>20%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>2. Individual seminar report</td><td>10%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>3. Quiz</td><td>10%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>4. Examination</td><td>60%</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>Total</td><td>100%</td><td colspan="6"></td></tr></table> Students must pass the final examination and achieve a passing overall score / grade to pass the subject. Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes: 1. The intended learning outcomes are monitored through in-class response, continuous assessment, and are assessed by continuous assessment. 2. Assignments and discussions will be used in the continuous assessment. 3. To encourage group discussion and interaction/discussion between students, students will submit their two assignments in groups (one leader per group). 4. As guest lecturers and practitioners will be invited in lectures/seminars and presentation assessment, lectures/seminars may be conducted on Saturday mornings, and in evenings of weekdays.	Specific assessment methods/tasks	% weighting	Intended subject learning outcomes to be assessed						a	b	c	d	e	f	1. Two group assignments and class participation / discussion	20%	✓	✓	✓	✓	✓	✓	2. Individual seminar report	10%	✓	✓	✓	✓	✓	✓	3. Quiz	10%	✓	✓	✓	✓	✓	✓	4. Examination	60%	✓	✓	✓	✓	✓	✓	Total	100%						
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Student Study Effort Expected	Class contact:	
	▪ Lecture/seminar	26 Hrs.
	Other student study effort:	
	▪ Assignments	26 Hrs.
	▪ Self-study	26 Hrs.
	Total student study effort	78 Hrs.
Reading List and References	1. S. Furst, <i>Keating on Construction Contracts</i>, Sweet & Maxwell, 11th Edition, 2021. 2. G. Soo, <i>Construction Law and Practice in Hong Kong</i>, Sweet & Maxwell, 4th Edition, 2018. 3. J.T. Bockrath, <i>Contracts and the Legal Environment for Engineers & Architects</i>, 6th edition, McGraw Hill, 2000. 4. B. Patten and H. Saunders, Chapter 6, <i>Liability for Professional Negligence</i>, Professional Negligence in Construction, Informa Law, 2018. 5. R. Jackson, J. Powell and R. Stewart, <i>Jackson & Powell on Professional Liability</i>, Chapter 9 and 10, Sweet & Maxwell, 8th Edition, 2017. 6. B. Wasserman <i>et al</i>, <i>Ethics and the Practice of Architecture</i>, John Wiley & Sons, Inc., 2000. 7. For Environmental Laws - EPD, (2015), <i>A Concise Guide to the Air Pollution Control Ordinance</i>. - EPD, (2017), <i>A Concise Guide to the Noise Control Ordinance</i>. - EPD, (2003), <i>Training Manual for the EIA Mechanism</i>. - https://www.epd.gov.hk/epd/english/laws_regulations/envir_legislation/laws_overview.html 8. For Sustainable Development - HKSAR Government, (2005), <i>A First Sustainable Development Strategy for Hong Kong</i>. - Blewitt, John, <i>Understanding sustainable development</i>, Abingdon, Oxon: Routledge 2015 Second edition. - Planning Department, <i>The Study on Sustainable Development for the 21st Century in Hong Kong</i>. - United Nations, (2015), <i>The Paris Agreement</i>. 9. Halsbury's Laws of Hong Kong – Building & Construction. 10. Build on Integrity. Engineers in the Construction Industry: (https://hkbedc.icac.hk/construction-elearning/engine.html)	