

Annexe A: New/Revised Course Content in OBTL+ Format

Course Overview

Expected Implementation in Academic Year (New format)	AY2023-2024
Semester/Trimester/Others (specify approx. Start/End date)	Semester 2
Course Author * Faculty proposing/revising the course	Lee-Chua Lee Hong
Course Author Email	clhlee@ntu.edu.sg
Course Title	Urban Planning & Design
Course Code	SU2001
Academic Units	3
Contact Hours	39
Research Experience Components	Not Applicable

Course Requisites (if applicable)

Pre-requisites	
Co-requisites	
Pre-requisite to	
Mutually exclusive to	
Replacement course to	
Remarks (if any)	

Course Aims

This course aims to share with students the basic knowledge of urban planning and design in dealing with its sustainable urban built environment challenges - the rationale for, the process of, the emergence and growth of urban built environment from a natural environment to an urban setting. It enables you to have an understanding and appreciation of the physical, environmental, economic, political and social issues; and implications of how properties, buildings and infrastructure are planned and designed, developed and managed, given the constraints that each period of urbanization faced. Through this course, it is expected that you would have interests in developing alternative views on how the urban built environment can help a city to prosper, thrive and remain relevant in the region.

Course's Intended Learning Outcomes (ILOs)

Upon the successful completion of this course, you (student) would be able to:

ILO 1	Describe urban planning and design at an introductory level.
ILO 2	Apply basic analytical and planning and design skills to solve urban problems.
ILO 3	Explain the link between theory and practice of the urban planning and design concepts.

Course Content

S/N	Topic
1	Urban planning & design in the framework of sustainable city development
2	Urban planning & design from a sustainable city point of view as well as tools of providing a more liveable city

Reading and References (if applicable)

1. Carmona, M., Heath, T., Oc, T. & Tiesdell, S., "Public Places – Urban Spaces", 1st Ed. Routledge, 2003.
2. Hall, P., "Cities of Tomorrow: An Intellectual History of Urban Planning and Design", 4th Ed., Wiley, 2014.
3. Larice, M. & Macdonald, E., "The Urban Design Reader", Routledge Urban Reader Series, 2013.
4. Loew, S., "Urban Design Practice: An International Review", 2012.
5. Tiesdell, S. & Carmona, M., "Urban Design Reader", 1st Ed., Routledge, 2007.
6. Tan, E. K., "Future Cities", 1st Ed., Media One Publishing, August 2016.
7. Tan, E. K., "Sustainable Built Environment -The Singapore Experiences", 1st Ed., Pearson 2011.

Planned Schedule

Week or Session	Topics or Themes	ILO	Delivery Mode	Activities	Readings
1	Introduction to Urban Planning & Design	1, 2, 3		Lectures & Tutorial	
2	Fundamental evolution and principles of Urban Planning & Design. The evolution of urban planning - From Sir Howard "Garden City", to Kelvin Lynch "City Forms" to Louise Law Olmsted Jr. "Emerald Necklace" to the current "Ecocity"	1, 2, 3		Lectures & Tutorial	
3	Land use planning - zoning, land use, density, plot ratio, buffers, planning modes (concentric vs. linear)	1, 2, 3		Lectures & Tutorial	
4	Urban design and city form - Streetscape, focus, vista, districts.	1, 2, 3		Lectures & Tutorial	
5	Environmental planning - Ecology, landscape, heritage, environmental impacts, renewable energies, pollutions, preservation & conservation etc.	1, 2, 3		Lectures & Tutorial	

Week or Session	Topics or Themes	ILO	Delivery Mode	Activities	Readings
6	Infrastructure planning – Human essentials: water, drainage sewers, power & electricity, transportation etc.	1, 2, 3		Lectures & Tutorial	
7	Social-economics and Institutional planning – Facilities for urban living, housing, healthcare, education, religious, working and leisure.	1, 2, 3		Lectures & Tutorial	
8	Urban Management- Sustainability and revitalizing, changing demographics and population profile.	1, 2, 3		Lectures & Tutorial	
9	Planning for the future – urban trends and new technologies and needs.	1, 2, 3		Lectures & Tutorial	
10	Financing urban planning projects – Public funding, private funding, PPP funding.	1, 2, 3		Lectures & Tutorial	
11	Urban planning staging and deliverables	1, 2, 3		Lectures & Tutorial	
12	Best practices – Guidelines and examples	1, 2, 3		Lectures & Tutorial	

Week or Session	Topics or Themes	ILO	Delivery Mode	Activities	Readings
13	Summary of integrates urban planning deliverables to achieve livable cities	1, 2, 3		Lectures & Tutorial	

Learning and Teaching Approach

Approach	How does this approach support you in achieving the learning outcomes?
Lectures	Weekly lectures to provide you with the specific knowledge and techniques to achieve the learning outcome stated above.
Tutorials	Weekly tutorials to enable you to apply the knowledge to solve structured problems. We encourage you to explore alternative approaches and techniques.

Assessment Structure

Assessment Components (includes both continuous and summative assessment)

No.	Component	ILO	Related PLO or Accreditation	Weightage	Description of Assessment Component	Team/Individual	Rubrics	Level of Understanding
1	Summative Assessment (EXAM): Final exam([final examination])	All	CVE SLOs (a), (b), (c), (g)	60		Individual	Holistic	Relational
2	Continuous Assessment (CA): Test/Quiz([quiz/test] Continuous Assessment 1: Quiz 1)	1, 2, 3	CVE SLOs (a), (b), (c), (g)	20		Individual	Analytic	Multistructural
3	Continuous Assessment (CA): Test/Quiz([quiz/test] Continuous Assessment 2: Quiz 2)	1, 2, 3	CVE SLOs (a), (b), (c), (g)	20		Individual	Analytic	Multistructural

Description of Assessment Components (if applicable)

Formative Feedback

Feedback will be through the dissemination of the student's performance in quizzes as well as review of the quiz questions in class.

We encourage you to initiate an Individual consultation sessions on your particular learning needs.

NTU Graduate Attributes/Competency Mapping

This course intends to develop the following graduate attributes and competencies (maximum 5 most relevant)

Attributes/Competency	Level
Critical Thinking	Advanced
Systems Thinking	Advanced

Course Policy

Policy (Academic Integrity)

Good academic work depends on honesty and ethical behaviour. The quality of your work as a student relies on adhering to the principles of academic integrity and to the NTU Honour Code, a set of values shared by the whole university community. Truth, Trust and Justice are at the core of NTU's shared values. As a student, it is important that you recognize your responsibilities in understanding and applying the principles of academic integrity in all the work you do at NTU. Not knowing what is involved in maintaining academic integrity does not excuse academic dishonesty. You need to actively equip yourself with strategies to avoid all forms of academic dishonesty, including plagiarism, academic fraud, collusion and cheating. If you are uncertain of the definitions of any of these terms, you should go to the academic integrity website for more information. On the use of technological tools (such as Generative AI tools), different courses / assignments have different intended learning outcomes. Students should refer to the specific assignment instructions on their use and requirements and/or consult your instructors on how you can use these tools to help your learning. Consult your instructor(s) if you need any clarification about the requirements of academic integrity in the course.

Policy (General)

Policy (Absenteeism)

Policy (Others, if applicable)

The standing university policy governing student responsibilities shall apply.
No special policy for this course.

This course will adopt NTU's policy on the use of AI for take-home assignments and reports, and project reports and presentation slides. More details could be found via the link
[https://entuedu.sharepoint.com/sites/Student/dept/ctlp/SitePages/Exploring-the-Impact-of-Generative-Artificial-Intelligence-\(GAI\)-Tools-on-Education.aspx#1-proper-citations-and-acknowledgements](https://entuedu.sharepoint.com/sites/Student/dept/ctlp/SitePages/Exploring-the-Impact-of-Generative-Artificial-Intelligence-(GAI)-Tools-on-Education.aspx#1-proper-citations-and-acknowledgements)

Last Updated Date: 08-05-2026 10:03:31

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