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

Course Overview

The sections shown on this interface are based on the templates UG OBTL+ or PG OBTL+

If you are revising/duplicating an existing course and do not see the pre-filled contents you expect in the subsequent sections e.g. Course Aims, Intended Learning Outcomes etc. please refer to Data Transformation Status for more information.

Expected Implementation in Academic Year	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	Leaders in Urban Systems and Policy
Course Code	SU4001
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 gathers a pool of leaders in the field of Urban Systems and Policy to share their experiences in the development of sustainable cities. Distinguished speakers shall be invited to share with you their vast experiences in providing urban planning strategies.

Course's Intended Learning Outcomes (ILOs)

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

ILO 1	identify the variety and complexity of urban systems
ILO 2	identify factors associated with urban transformation
ILO 3	examine the constraints and challenges in developing urban systems
ILO 4	discuss and reflect on how innovative planning and policy-making skills are applied to solve urban problems
ILO 5	make more informed decisions when evaluating a city for urban sustainability

Course Content

S/N	Topic
1	Overview of Urban Systems, Policy and Planning
2	Integrating Master Planning and Development in Urban Systems
3	Field studies on the developments of sustainable cities
4	Series of presentations by distinguished urban leaders on topics in urban systems & policy. Topics shall cover major issues in urban systems, such as housing, urban transportation, water supply, virtual Singapore, green buildings, port city, international maritime centre, energy supply, conservation & heritage, etc. Offered topics shall be varied from year to year to leverage on diversity of relevant issues as well as availability of speakers.
5	Future Challenges; Overseas Developments

Reading and References (if applicable)

General References: Centre for Liveable Cities (CLC) publications, available on-line at
https://www.clc.gov.sg/research-publications/publications/urban-systems-studies

Centre for Liveable Cities (CLC)'s Publications Resources:

- Urban System Studies series;

- Better Cities series;

- Urban Solutions series;

- Commentaries, Reports, and Contributions.

Supplementary reading materials are provided by instructors

Planned Schedule

Week or Session	Topics or Themes	ILO	Readings	Delivery Mode	Activities
1	Overview of Urban Systems, Policy and Planning	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr
2	Integrating Master Planning and Development in Urban Systems	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr
3	Visit to Singapore City Gallery	All (1, 2, 3, 4, 5 in above ILO section)			Field Study 3hr
4	Urban Transportation	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr
5	Port City	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr

Week or Session	Topics or Themes	ILO	Readings	Delivery Mode	Activities
6	Sustainable Development and Green Building	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr
7	Housing a Nation	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr
8	Solid Waste Management in Singapore	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr
9	Flood Resilience and Climate Change	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr
10	Supply / Recycling of Water Resources	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr

Week or Session	Topics or Themes	ILO	Readings	Delivery Mode	Activities
11	Visit LIVINGSPACE– HDB's Visitors' Gallery @ HDB Hub	All (1, 2, 3, 4, 5 in above ILO section)			Field Study 3hr
12	Virtual Singapore	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr
13	Future Challenges; Overseas Developments	All (1, 2, 3, 4, 5 in above ILO section)			Lecture 3hr

Learning and Teaching Approach

Approach	How does this approach support you in achieving the learning outcomes?
Lectures	Lecture sessions are conducted to whole class in lecture theatre. Instructors take questions during and at end of the lectures, and shall provide on-the-spot clarifications. Furthermore, you (students) can confer with instructors via emails or appointed face-to-face consultations. All these enhance the achievement of targeted learning outcomes.
Reports	You (students) shall write three individual reports namely, one term paper, and two reports on the two field studies. For the term paper, you shall scope the problem, collect and analyse the information/data, and write a report to be submitted by Week 10. For the field studies, you shall report on the field observations and your reflection about these field studies. These reports shall cover cases in real settings which strengthen the learning outcomes.

Assessment Structure

Assessment Components (includes both continuous and summative assessment)

No.	Component	ILO	Related PLO or Accreditation	Weightage	Team/Individual	Rubrics	Level of Understanding
1	Continuous Assessment (CA): Test/Quiz([quiz/test])	1, 2, 3 (in above ILO section)	CVE SLO (2018) : f, g, h	30	Individual	Analytic	Relational
2	Continuous Assessment (CA): Others([assignments (e.g. term paper, essay)] Term Paper)	All (in above ILO section)	CVE SLO (2018) : f, g, h, j	30	Individual	Analytic	Relational
3	Continuous Assessment (CA): Report/Case study([assignments (e.g. term paper, essay)] Visit Report 1)	All (in above ILO section)	CVE SLO (2018) : f, g, h, j	20	Individual	Analytic	Multistructural
4	Continuous Assessment (CA): Report/Case study([assignments (e.g. term paper, essay)] Visit Report 2)	All (in above ILO section)	CVE SLO (2018) : f, g, h, j	20	Individual	Analytic	Multistructural

Description of Assessment Components (if applicable)

Formative Feedback

Instructors take questions during and at end of lectures, and provide on-the-spot clarifications. You (students) can also confer with instructors at tutorials/discussions, at appointed consultations or via email.

You (students) are assessed on one 60-minute Quiz consisting of short questions/answers; feedbacks are given for the quiz in terms of summary quiz scores.

You (students) shall participate in field studies during whence there shall be questions-and-answers, as and when issues arise.

NTU Graduate Attributes/Competency Mapping

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

Attributes/Competency	Level
Care for Environment	Basic
Care for Society	Basic
Project Management	Intermediate
Systems Thinking	Intermediate

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)

As a student of the course, you are required to abide by both the University Code of Conduct and the Student Code of Conduct. The Codes provide information on the responsibilities of all NTU students, as well as examples of misconduct and details about how students can report suspected misconduct. The university also has the Student Mental Health Policy. The Policy states the University's commitment to providing a supportive environment for the holistic development of students, including the improvement of mental health and wellbeing. These policies and codes concerning students can be found in the following link.
http://www.ntu.edu.sg/SAO/Pages/Policies-concerning-students.aspx

Policy (Absenteeism)

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Policy (Others, if applicable)

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Last Updated Date: 21-11-2024 01:59:23

Last Updated By: Yang, En-Hua

Appendix 1: Assessment for Quiz (30%)

It is a 60-minute closed-book quiz (weightage: 30%) that covers ILO 1-3. Questions are short questions/answers format. Marks are indicated for each question. The quiz shall be conducted towards the end of the semester.

Appendix 2: Assessment for Individual Term Paper (30%)

It is a term paper based on a topic approved by course co-ordinator. The topics covers ILO 1-5. You (student) will write an individual report, to be submitted in Week 10 (weightage: 30%). The report shall be 2000-word length, supplemented by appendices containing supporting information/data. The assessment is covered by the following marking scheme.

Criteria	Good (8-10)	Ave (6-7)	Fair (4-5)	Poor (1-3)	Remarks
Report generated by Turnitin	Within acceptable degree of originality? (Yes/No)				Fresh report, in case of too many commonalities.
Background/ Objective/ Purpose (15%)					Accurate contextualisation of background and description. Well defined issues; clear objectives.
Methodology/ Information / Data Collection (25%)					Ability and independence in acquiring relevant information/data for the study. Good information/data visualisation, as provided in Appendices of report.
Results and Discussion (25%)					Well-presented results with discussion, showing ability to understand problem, interpret information obtained, and be cognisant of imitations.
Conclusions and Recommendations (20%)					Summarise report clearly and show ability to make appropriate and relevant conclusions, with clear and workable recommendations.
References and Report Format (15%)					Report is clear and concise; good grammar and spelling with appropriate tables/ graphs/ figures. Report is presented well with logical sequence.
TOTAL (100%)					

Appendix 3: Assessment of Field Study with Individual Report (20%)

It is a report to document your (student's) learning experience of each field study. You will write an individual report, to be submitted within two weeks after completion of each field study (weightage: 20%). The report shall be 1200-word length, supplemented by appendices containing supporting information. The assessment is covered by the following marking scheme.

Criteria	Good (8-10)	Ave (6-7)	Fair (4-5)	Poor (1-3)	Remarks
Report generated by Turnitin	Within acceptable degree of originality? (Yes/No)				Fresh report in case of too many commonalities.
Background/ Objective/ Purpose (20%)					Accurate contextualisation of field study. Well defined scope of visit; objectives clearly stated.
Information about visit site (20%)					Ability and independence in acquiring relevant information about the visit site.
Field observations (20%)					Well-presented descriptions showing ability to understand planning practices. Be cognisant of constraints.
Reflection of visit experience (20%)					Summarise key issues clearly, and show ability to highlight pertinent aspects of visit.
References and Report Format (20%)					Report is clear and concise; good grammar and spelling with appropriate photographs. Report is presented well with a logical sequence
TOTAL (100%)					