

Landscape and the Sustainable Development Oxymoron?



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Oxymoron: a combination of contradictory or incongruous words

Culture, Identity & Society?

Assessment & Indicators?

Landscape Architecture?

Regional & Urban Planning?

Economy?

Ecological Planning?

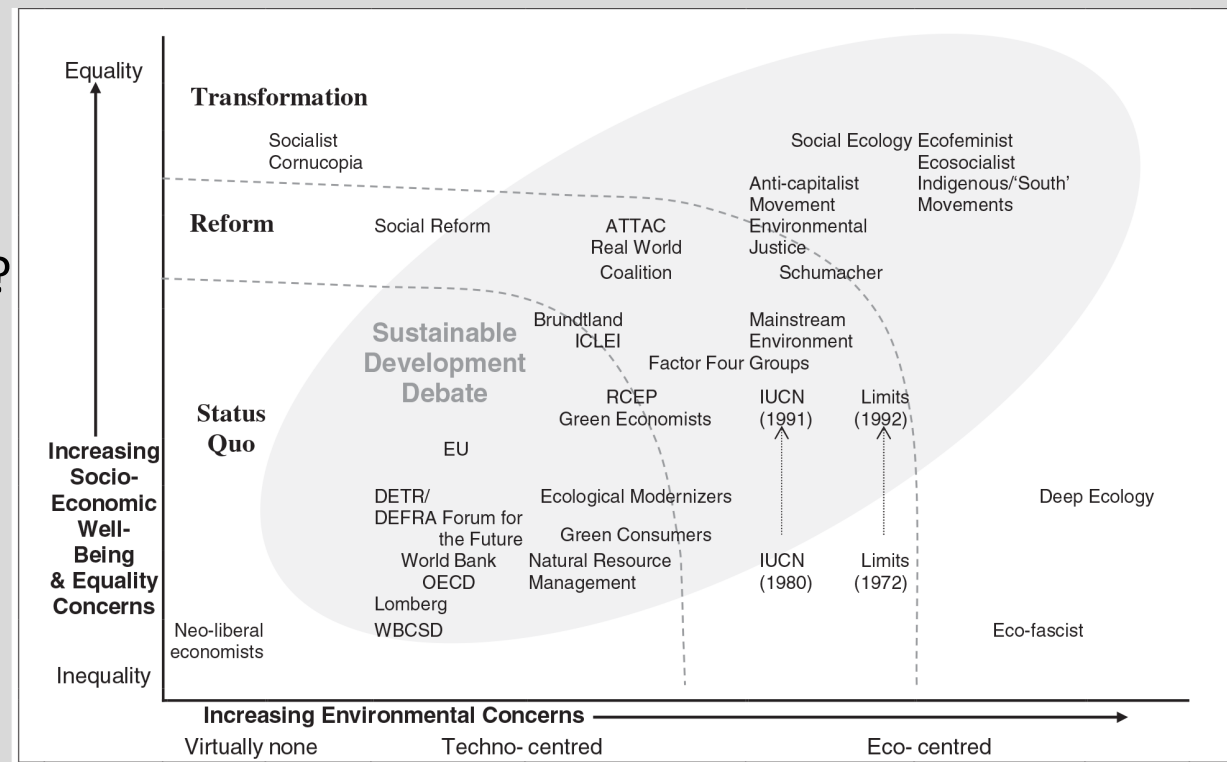
XXXXXXXXX?

Planning?

Architecture?

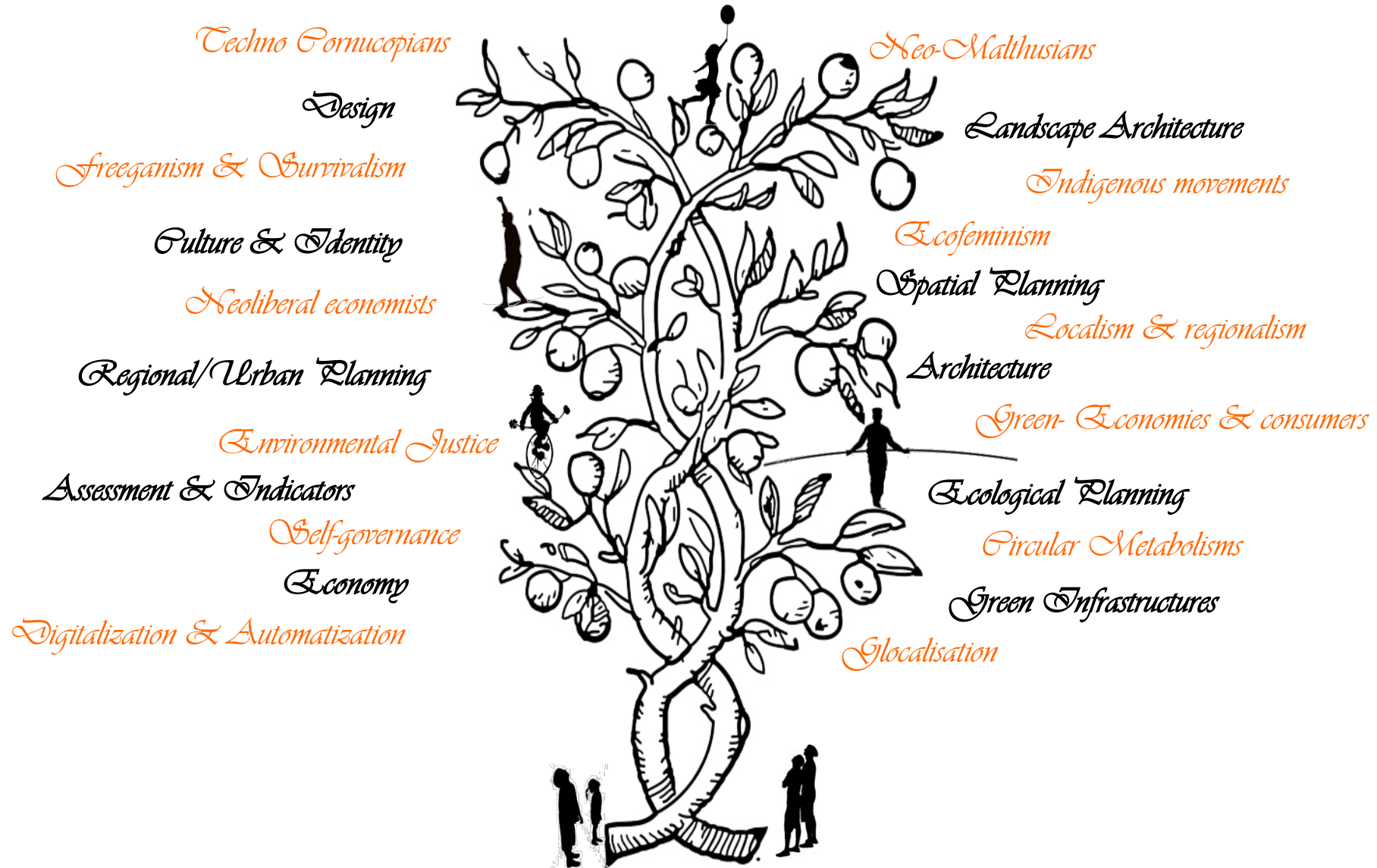
Design?

Green Infrastructures?



Source: Sustainable Development_mapping Different Approaches_Hopwood 2005

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GOAL: The course will facilitate a personal and collective investigation about the Sustainable Development concept; the multiple, complementary and sometimes contradictory approaches to it; and very specially, the way in which Sustainable Development can inform planning and design processes in landscape architecture, regional and urban planning, architecture and design.

DURATION: (III, IV and V periods), 8.1.2019-21.5.2019, Tuesdays 13.15-17.00

CREDITS: 3+3 credits

PLACE: R015/233a (Harald Herlin Learning Center)

RESPONSIBLE TEACHER: Juanjo Galan (Aalto University)

LEVEL OF THE COURSE: Master's degree level (Landscape Architecture, Architecture, Interior Architecture, Design, Creative Sustainability, Urban Studies & Planning, Doctoral Studies).

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The course will be structured in 2 phases:

PHASE1 (3 credits): The first one will include a multifaceted study of the Sustainable Development concept through a set of lectures, discussions and reading seminars that will finalize in each session with the collective definition of key Questions and potential Answers (Synthesis, Inquiry & Hypothesis).

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The course will be structured in 2 phases:

PHASE2 (3 credits): This phase will include the preparation of an individual work in the intersection between the Sustainable Development concept. and a specific topic chosen by each student. This final work might be used to advance in:

- The theoretical part of a Master Thesis (master students)
- The preparation of a Research Plan (doctoral applicants)
- The preparation of a Conference paper or Research Article (doctoral students).

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WORKLOAD (1 credit = 27 hours): 81-162 hours (3 or 6 credits).

- 1st part of the course (3 credits) = 81 hours (40% tutored (32 hours), 60 % independent (49 hours)).
- 2st part of the course (3 credits) = 81 hours (25% tutored (20 hours), 75 % independent (61 hours))

GENERAL LEARNING OUTCOMES: During the course, students develop their skills to carry out landscape architecture research and participate in the scientific debate in the discipline. They can formulate consistent research questions and answer them by identifying the adequate research methodologies and by proposing a coherent research plan.

SPECIFIC LEARNING OUTCOMES course 2019: During this specific course, the students undertaking the PART1 will familiarize with the main ontological, methodological, practical and disciplinary challenges related to the Sustainable Development concept.

In addition, the students undertaking also the PART2 of the course will be able to develop a coherent argumentation about the connections between the Sustainable Development concept and one specific topic of their own choice and interest. This argumentation will be structured around a Research Plan, the theoretical part of a Master Thesis or a Research paper.

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CONTENTS:

PART 1) Sustainable Development: the concept (lectures and discussions: Synthesis, Inquiry and Hypothesis):

- The Sustainable Development concept and Approaches
- Social Approaches and Activism
- Ecological Approaches and Quantitative methods
- Economics and Policies for Sustainable Development
- System thinking and Speculative Landscape Urbanism
- Assessing Sustainable Development
- Landscape and Sustainable Development
- Designing Sustainability Transitions

ASSIGNMENTS PART1:

- Reading Seminar 1
- Learning Diary
- Final Essay + Seminar 2

PART 2) Researching the connections between the Sustainable Development Concept and Landscape, Architecture, Planning and Design:

- Structure of a research plan/article + literature review
- Research Methods
- Research writing + publishing

ASSIGNMENTS PART 2: Intermediate and Final Documents for the production of a Doctoral Research Plan, the theoretical part of a Master Thesis or a Research paper.

- Rationale & Literature review
- Research Questions, Methods & Results
- Discussion
- Final Document

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ASSESSMENT: Grading Scale: 0-5

The final works will be assessed by the responsible teachers with the possible help of external experts. In order to pass the course, **all the assignments and contributions to the reading seminars will have to be presented and passed.**

- *Formative assessment: mid-reviews and open discussions with peers and teacher*
- *Summative review: Mainly in the final review*
- *Final assessment: by teacher with the possible collaboration of invited experts. The assessment will be based on the level of achievement of the intended learning outcomes, the level of understanding of the course contents and the capacity to generate consistent, innovative and well-presented proposals. In addition, the critical, effective and constructive participation in the discussions of the course will be positively valued.*
- *Emphasis on the final grade: The assessment considers the process during the course and the final review is mainly connected to the capacity to communicate and to incorporate the feedback received during the mid-reviews and discussions.*

The assignments will have the following weight in the final grade:

ASSIGNMENTS PART1:

Reading Seminar 1 (pass or fail)

Learning Diary (40% of final grade in part 1)

Final Essay + Seminar 2(60% of final grade in part 1)

ASSIGNMENTS PART 2: Intermediate and Final Documents for the production of a Doctoral Research Plan, the theoretical part of a Master Thesis or a Research paper.

Assignment 1: Research Topic, Initial Research Questions and list for the Literature Review (0% of final grade in part 2)

Assignment 2: Rationale & Literature review (10% of final grade in part 2)

Assignment 3: Research Questions, Methods & Potential Results (10% of final grade in part 2)

Assignment 4: Results & Discussion (10% of final grade in part 2)

FINAL Assignment: Final Research Output (70% of final grade in part 2)

PART1: SUSTAINABLE DEVELOPMENT: THE CONCEPT

SESSION 8.1.2019: Opening and Introduction to the course (Galan)

- Presentation of the course
- Personal backgrounds + Interests

SESSION 15.1.2019: Ontological approaches to the Sustainable Development Concept (Galan)

- 13:15- 14:00 Lecture 1 (lecturer: Juanjo Galan): *“The Sustainable Development concept, approaches to the apparent oxymoron”*
- 14:00-15:00 Debate (facilitator: Juanjo Galan): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 1: synthesis, inquiry and hypothesis)
- 15:00- 15:15 Break
- SEMINAR_1 (reading seminar): Sustainable Development: the Concept. Choose one text about the Sustainable Development concept and your own field of studies (landscape architecture, architecture, planning, design, etc.) and present a summary of your text in a Powerpoint (5 minutes)
- Group Discussion: Research Questions and Potential Answers and Research Methods (joint Synthesis, Inquiry and Hypothesis)
- JUANJO GALAN: <https://www.eca.ed.ac.uk/profile/dr-simon-bell>
- Next steps: Learning Diary + Reading(s) for the next session

SESSION 22.1.2019: Landscape and Sustainable Development (Moore/Garduño, Bell)

- 13:15-14:00 Lecture 1 (lecturer: Kathryn Moore): “XXXXXXXXXX”: Suggestions for the lecture: Landscape practice and Sustainable Development (on the base of the IFLA experience)?, Landscape & sustainability Overcoming the Visual (this lecture and discussion might be changed by the one given by Claudia Garduño)
- 14:00-15:00 Debate (facilitator: XXXXXX): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 1: synthesis, inquiry and hypothesis)
- 15:00- 15:15 Break
- 15:15-16:00 Lecture 2 (lecturer: Simon Bell): *“What do we mean by a sustainable landscape?”*
- 16:00-17:00 Debate (facilitator: Simon Bell): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 2: synthesis, inquiry and hypothesis)
- KATHRYN MOORE: <https://www.bcu.ac.uk/research/our-people/j-m/kathryn-moore>
- SIMON BELL: <https://www.eca.ed.ac.uk/profile/dr-simon-bell>
- Next steps: Learning Diary + Reading(s) for the next session

SESSION 29.1.2019: Social approaches to Sustainable Development (Berglund, Garduño/Moore)

NOTE: This session might be switched with the one scheduled on February the 19th if that fits the agenda of all the involved lecturers

- 13:15-14:00 Lecture 2 (lecturer: Claudia Garduño): “XXXXXXXXXX”: Suggestions for the lecture: Anthropological insights into Sustainable Development?, Cultural diversity and Sustainable Development. (this lecture and discussion might be changed by the one given by Kathryn Moore)
- 14:00-15:00 Debate (facilitator: Claudia Garduño): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 2: synthesis, inquiry and hypothesis)
- 15:00- 15:15 Break
- 15:15- 16:00 Lecture 1 (lecturer: Eeva Berglund): **“Grassroots Urbanism and Environmental Social Movements”**
- 16:00-17:00 Debate (facilitator: Eeva Berglund): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 1: synthesis, inquiry and hypothesis)
- EEVA BERGLUND: <https://people.aalto.fi/eeva.berglund>
- CLAUDIA GARDUÑO: <https://research.aalto.fi/portal/claudia.gardunogarcia.html>
- Next steps: Learning Diary + Reading(s) for the next session

SESSION 5.2.2019: System Thinking and Speculative Landscape Urbanism (Kotnik, Fricker)

- 13:15- 16:00 Reading seminar + Discussion: **“System thinking and Speculative Landscape Urbanism”**
- TONI KOTNIK: <https://people.aalto.fi/toni.kotnik#cv>
- PIA FRICKER: <https://people.aalto.fi/pia.fricker>
- Next steps: Learning Diary + Reading(s) for the next session

SESSION 12.2.2019: Assessing Sustainable Development (Kuittinen, Lahteenoja)

- 13:15- 14:00 Lecture 1 (lecturer: Matti Kuittinen): **“Carbon footprints and handprints as indicators for design”**
- 14:00-15:00 Debate (facilitator: Matti Kuittinen): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 1: synthesis, inquiry and hypothesis)
- 15:00- 15:15 Break
- 15:15-16:00 Lecture 2 (lecturer: Satu Lahteenoja): “XXXXXXXX”: Ways of living in the assessment/promotion of Sustainability (e.g. Using the Ecological Footprint and the Biocapacity concepts) or in the development of policies supporting SDGs?
- 16:00-17:00 Debate (facilitator: Satu Lahteenoja): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 2: synthesis, inquiry and hypothesis)
- MATTI KUITTINEN: <https://people.aalto.fi/matti.kuittinen>
- SATU LAHTENOJA: <https://www.demoshelsinki.fi/en/ihmiset/satu-lahteenoja>
- Next steps: Learning Diary + Reading(s) for the next session

SESSION 19.2.2019: Ecological approaches to Sustainable Development (Raymond, Kotze)

NOTE: This session might be switched with the one scheduled on January the 29th if that fits the agenda of all the involved lecturers

- 13:15- 14:00 Lecture 1 (lecturer: Christopher Raymond): *“Nexus between urban green infrastructure, sustainable development and the digital age”*
- 14:00-15:00 Debate (facilitator: Christopher Raymond): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 1: synthesis, inquiry and hypothesis)
- 15:00- 15:15 Break
- 15:15-16:00 Lecture 2 (lecturer: Johan Kotze): *“Study questions and data analysis in urban ecological studies: The links between quantitative ecological research in the city and sustainable development”*
- 16:00-17:00 Debate (facilitator: Johan Kotze): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 2: synthesis, inquiry and hypothesis)
- CRISTOPHER RAYMOND: <https://www.helsinki.fi/en/helsinki-institute-of-sustainability-science/people/helsus-professors>
- JOHAN KOTZE: <https://www.helsinki.fi/en/programmes/master/urban-studies-planning/johan-kotze>
- Next steps: Learning Diary + Reading(s) for the next session

SESSION 26.2.2019: Economics and Policies for Sustainable Development (Hartikainen, Nagatsu)

- 13:15- 14:00 Lecture 1 (lecturer: Ernesto Hartikainen): *“The transition to a carbon-neutral circular economy”*
- 14:00-15:00 Debate (facilitator: Ernesto Hartikainen): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 1: synthesis, inquiry and hypothesis)
- 15:00- 15:15 Break
- 15:15-16:00 Lecture 2 (lecturer: Michiru Nagatsu): *“Ecological vs. Environmental Economics”*
- 16:00-17:00 Debate (facilitator: Michiru Nagatsu): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 2: synthesis, inquiry and hypothesis)
- ERNESTO HARTIKAINEN: <https://www.sitra.fi/en/people/ernesto-hartikainen/>
- MICHIRU NAGATSU: <https://www.helsinki.fi/en/helsinki-institute-of-sustainability-science/people/helsus-professors>
- Next steps: Learning Diary + Reading(s) for the next session

SESSION 5.3.2019: Designing Sustainable Transitions (Jalas, Candy)

- 13:15- 14:00 Lecture 1 (lecturer: Mikko Jalas): *“Form-giving and back-casting: how to support alternative futures”*
- 14:00-15:00 Debate (facilitator: Mikko Jalas): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 1: synthesis, inquiry and hypothesis)
- 15:00- 15:15 Break
- 15:15-16:00 Lecture 2 (lecturer: Seona Candy): *“XXXXXXXXX”*: Designing Food & Urban Systems?
- 16:00-17:00 Debate (facilitator: Seona Candy): teamwork (defining Research Questions and exploring potential solutions for the topic presented in lecture 2: synthesis, inquiry and hypothesis)
- MIKKO JALAS: <https://people.aalto.fi/mikko.jalas>
- SEONA CANDY: <https://www.helsinki.fi/en/helsinki-institute-of-sustainability-science/people/helsus-visitors>
- Next steps: Learning Diary + Reading(s) for the next session

SESSION 12.3.2019: Wrap up (Galan, Thoren?, Breier?)

- SEMINAR_2 (Wrap-up PART1): Summary of the Final Essays of the part 1 (10 minutes per student + 10 minutes for peer feedback)
- Group Discussion: Final Wrap-up of the part1 of the course
- The deliverables for the Wrap-up of the PARTY1 should include:
 - 1) FINAL ESSAY of the PHASE 1 (lecture series). This essay should be an overall reflection of the "lecture series" and of their connections with your own field of studies or interest. You can use your learning diary but remember that the Essay should be more synthetic, propositive and explorative since it should explain how you want to deal with the "Sustainability Development" concept in your own field of practice or research.... (self-made theories and ideas will be a plus!!). 5-10 pages (diagrams and schemes are welcome!)
 - 2) A POWERPOINT with a summary of your final essay (please consider that you will have 10 minutes for your presentation)
- HENRIK THOREN: <https://www.helsinki.fi/en/helsinki-institute-of-sustainability-science/people/helsus-fellows>
- DOROTHEA BREIER: [https://tuhat.helsinki.fi/portal/en/persons/dorothea-breier\(d6a6e803-5167-44d1-84b9-b782f8aef207\).html](https://tuhat.helsinki.fi/portal/en/persons/dorothea-breier(d6a6e803-5167-44d1-84b9-b782f8aef207).html)

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8-1.2019: Kick-off session

13:15-15:00 Juanjo Galan

15.1.2019: Ontological approaches to the Sustainable Development Concept

13:15-15:00 Juanjo Galan

"The Sustainable Development concept, approaches to the apparent oxymoron"

15:15-17:00 READING SEMINAR1

22.1.2019 Landscape and Sustainable Development

13:15-15:00 Kathryn Moore / Claudia Garduño (tbc)

" Sustainable Development and the professional practice in Landscape architecture"

15:15-17:00 Simon Bell

"What do we mean by a sustainable landscape?"

29.1.2019 Social approaches to Sustainable Development

13:15-15:00 Kathryn Moore / Claudia Garduño

"Anthropological insights into Sustainable Development: Cultural diversity?"

15:15-17:00 Eeva Berglund

"Grassroots Urbanism and Environmental Social Movements"

5.2.2019 System thinking and Speculative Landscape Urbanism

15:15-16:00 Toni Kotnik + Pia Fricker

"System thinking and Speculative Landscape Urbanism"

12.2.2019 Assessing Sustainable Development

13:15-15:00 Matti Kuittinen

"Carbon footprints and handprints as indicators for design"

15:15-17:00 Satu Lahteenoja

" Ways of living in the assessment/promotion of Sustainability"

19.2.2019 Ecological approaches to Sustainable Development

13:15-15:00 Christopher Raymond

"Nexus between urban green infrastructure, sustainable development and the digital age"

15:15-17:00 Johan Kotze

"Study questions and data analysis in urban ecological studies: The links between quantitative ecological research in the city and sustainable development"

26.2.2019 Economics and Policies for Sustainable Development

13:15-15:00 Ernesto Hartikainen

"The transition to a carbon-neutral circular economy"

15:15-17:00 Michiru Nagatsu

"Ecological vs. Environmental Economics"

5.3.2019 Designing Sustainable Transitions

13:15-15:00 Mikko Jalas

"Form-giving and back-casting: how to support alternative futures"

15:15-17:00 Seona Candy

"Designing Food & Urban Systems"

12.3.2019 Wrap-up session

13:15-15:00 SEMINAR2

PART2: RESEARCHING CONNECTIONS BETWEEN SUSTAINABLE DEVELOPMENT AND LANDSCAPE, ARCHITECTURE AND DESIGN

SESSION 12.3.2019 (1-2 hours)

- Lecture (by XXXXX): Approaches to Research: Typical Structures of a Research Plan/ Research Output + Topic, Rationale, Research Questions and Background Information (literature review) (30 minutes)
- REVIEW OF ASSIGNMENT_1: Research topic, objectives, initial research questions, list of basic readings for Literature review (5 minutes per student). (NOTE: include DIAGRAMS, FLOW CHARTS, etc.)
- Next steps: Advance in the Assignment 2 (literature review)

SESSION 19.3.2019

- Free tutoring

SESSION 26.3.2019 (4 hours)

- REVIEW OF ASSIGNMENT_2: Main findings from the literature review and with new Research Questions. (NOTE: include DIAGRAMS, FLOW CHARTS, etc. Try to combine all the literature review in a unified system)
- Group Discussion: Informing your Research with existing information: potentials and challenges
- Next steps: Advance in the Assignment 3 (profiling Research Questions and Exploring Methods for answering them).

SESSION 2.4.2019 (2 hours)

- Lecture (by XXXXX): Research Methods in Landscape Architecture, Architecture and design (45-60 minutes)
- SEMINAR_5: Tentative Methods proposed by each student to advance in his/her research (10 minutes per student)
- Next steps: Advance in the Assignment 3 (profiling Research Questions and Exploring Methods for answering them).

SESSION 9.4.2019

- Free tutoring

COURSE MAR-1006 LANDSCAPE ARCHITECTURE & RESEARCH_ 2019

SESSION 16.4.2019 (4 hours)

- REVIEW OF ASSIGNMENT_3: Research Questions, Research Methods and Potential Results (15 minutes per student approx. + 10 minutes for peer feedback) (NOTE: include DIAGRAMS, FLOW CHARTS, etc.)
- Group Discussion: Research Methods and production of results: Challenges and potential solutions
- Next steps: Advance in the Assignment 4 (Results and in the Discussion. NOTE: students working in a Doctoral Research Plan might concentrate in other issues such as Schedule and Publishing Plan).

SESSION 23.4.2019

- Free tutoring

SESSION 30.4.2019 (4 hours)

- REVIEW OF ASSIGNMENT_4: Results and Discussion (15 minutes per student approx. + 10 minutes for peer feedback)
- Group Discussion: What makes a consistent Discussion chapter?
- Next steps: Prepare a draft version of your Final Assignment.

SESSION 7.5.2019 (2 hours)

- Lecture (by XXXXX): Writing and Publishing in Research
- SEMINAR_6: Peer and expert feedback about the draft version of your Final Assignment
- Next steps: Advance towards the final assignment.

SESSION 14.5.2019

- Free tutoring

SESSION 21.5.2019 (4 hours)

- FINAL ASSIGNMENT: Submission and Presentation of your final Research Output (15 minutes per person + 15 minutes for peer feedback). The final assignment will include:
 - 1) PDF with the Final Research Output (text, research plan or paper including a coherent and improved version of the Assignments 1+2+3+4 and some final CONCLUSIONS)
 - 2) Powerpoint with a summary of the Final Research Output (15 minutes)
- Group DISCUSSION

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	JANUARY 2019				FEBRUARY 2019				MARCH 2019				APRIL 2019				MAY 2019			
PART	8.1.19	15.1.19	22.1.19	29.1.19	5.2.19	12.2.19	19.2.19	26.2.19	5.3.19	12.3.19	19.3.19	26.3.19	2.4.19	9.4.19	16.4.19	23.4.19	30.4.19	7.5.19	14.5.19	21.5.19
1	INTRO	LECTURE + SEMINAR	LECTURES + group DISCUSS	LECTURES + group DISCUSS	LECTURES + group DISCUSS	LECTURES + group DISCUSS	LECTURES + group DISCUSS	LECTURES + group DISCUSS	LECTURES + group DISCUSS	SEMINAR + group DISCUSS										
2										LECTURE + REVIEW ASSIGN_1	FREE TUTORING	REVIEW ASSIGN_2 + group DISCUSS	LECTURE + SEMINAR	FREE TUTORING	REVIEW ASSIGN_3 + group DISCUSS	FREE TUTORING	REVIEW ASSIGN_4 + group DISCUSS	LECTURE + SEMINAR	FREE TUTORING	FINAL REVIEW