instructor
Ihab Elzeyadi, Ph.D., FEIA
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meetings:
meets weekly
Tuesday, 1:00 - 4:20 PM
Location: LA 405

credits:
4cr. hr

grading:
P/N

prerequisites:
Ph.D. students, March Option I, Adv. March II & III students with instructors permission.

format:
interactive seminar with illustrated discussions and a colloquium of student research and reflections on the readings.

readings:
reading packet on Blackboard + text books

course objectives:
this seminar reviews the theory and history that frames the discourse of architecture and sustainable design. It will explore models and frameworks of sustainable design and substantive knowledge, including seminal milestone, on multiple scales and units of analyses.

assignments:
(1) An annotated and illustrated time line of a topic under study with respect to three fields of knowledge including sustainable design. (2) In-depth term-paper providing critical review of a focused topic or building type related to the student's research concentration with parallel ties to two other disciplines.

Theory and History of Sustainable Design: Science : Ethics : Aesthetics

Much is debated about sustainable buildings labelling and construction but less on the theory and science that guides the process of their conception. The objective of this seminar is to critically investigate the development of theories and frameworks that guide the field of sustainable design. Of equal importance is to review and analyze important milestones of the science and ethics related to the making of sustainable environments. From a triple bottom line approach of people, planet, and profit, the seminar will critically analyze the history and theories of sustainable design on three scales: (1) mini-scale of the indoor environment; (2) micro-scale of the building environment, and (3) macro/mega scale of the urban environment. The objective is to critically investigate the substantive knowledge that guides the field of sustainable design and identify paths for future contributions.