



Hadera Stream Basin Planning Framework

Curriculum

Spring semester: 2024

Course name: Landscape Design Studio 50

Course number: 204064

Credit points: 6 points

Course language: English

Instructor Details

Name	E-mail	Reception Hours	Phone Number
Izabela Levy	izabela.levy@technion.ac.il	Sundays 12:30-13:30 By appointment only	052-7388301

Izabela Levy is a registered Landscape Architect in the State of New York. She received a Master of Landscape Architecture from Harvard Graduate School of Design and has an extensive background in fine arts and design including two master's degrees in fine arts. She worked for 10 years for Michael van Valkenburgh Associates in New York City. While working for [MVVA](#) she specialized in all phases of design development, including design studies, historic and material research, site analysis and visualization. She had significant contributions to numerous competitions, including the Obama Presidential Center, University of Toronto, One Vanderbilt, Etobicoke Civic Center, Waller Creek, and others. Currently, Izabela teaches landscape architecture design as a Visiting Assistant Professor at the Technion.

Oded Gal is an urban planner, 37 years old from Haifa. During his years in the profession, he was interested in various disciplines, including landscape planning and design. For about 5 years in REED Studio - Ram Eisenberg Environmental Design - he worked as a landscape planner and led a team of large-scale landscape architecture projects, including strategy and policy-making plans, urban and regional master plans, open-areas strategic plans etc. Currently, Oded works as a senior public transport planner and project manager at ADALYA - Consulting & Management.

Nimrod Amado is a landscape architect who graduated from the Technion in 1997. Upon graduation, I worked in Gideon Sarig's landscape architecture office and Tichnun-Nof Ltd. In 2006, I founded Amado Landscape Architecture Ltd with Inbar Amado.

I came to landscape architecture out of a search for a profession that combines knowledge of the land, extensive knowledge of flora and fauna and a love for design. I believe in planning that creates a dialogue between man and his environment, while emphasizing the preservation of nature and landscape values. Intelligent planning creates an environment that meets the living and leisure requirements of man in the 21st century, at the same time as preserving the landscape, nature and ecological values. Finding the balance between conservation and development is the key to creating



a quality, sustaining and healthy environment. Over the years I have worked on a wide variety of projects of various sizes, from the conceptual stage to the final execution.

General Information

Course format and scope: The course is based on studio meetings: 10 hours per week, which include lectures, presentations, discussions, submissions, a studio tour, desk critiques and independent work in the studio.

Prerequisite: Studio Nof 40

The requirements of the course: Attendance and participation in all studio meetings, passing of all assignments and taking part in all presentations. **Final Submission: 4.09.2024**

Workload: Completion of the multiple assignments and making continued progress on the project.

Time and place

Sundays 14:30-19:30 Mauerberger

Wednesdays 14:30-19:30 Mauerberger

Attendance Requirement

type	Details/Notes	Percentage of score
Presence	Mandatory attendance (for both in person and Zoom meetings)	A total of 10% for the three sections. If someone fails to comply with this requirement, the percentage for this section will be deducted from the student's final grade
Participation	Mandatory participation in each day of the studio	
Delays	No delays (in arriving to the studio or submitting the materials)	

Purpose of the Course

The focus of this studio is planning and design explorations in the **Hadera Stream Basin**. The students are expected to conceptualize and integrate complex environmental systems in diverse cultural settings. The studio will engage in critical thinking and the making of value-oriented decisions in design and planning processes. Comprehensive planning will include semi-urban, rural, and agricultural land uses within the Israeli context in relation to the global issues of today's landscape architecture profession. Each student project is expected to range from local to regional scales, from master planning to proposals for site specific interventions. The discussed issues will span from preservation and conservation to regeneration and development,

resulting in spatial solutions represented in pilot study designs, as well as planning recommendations for potential future transformations.

Course Abstract – Main Topics

The main topics of the studio ranges from strategizing and planning large-scale master plan to neighborhood planning, including open space design. The studio's emphasis will include the impact of socio-environmental issues, identity, community involvement, heritage, and the health of natural and human ecosystems. The topics of landscape change and urban growth will be explored and concluded in a planning and design proposal. The students will be asked to take a stand on diverse issues in the Hadera Stream Basin and develop their understanding of the scale of influence and the significance of their projects. Stress will be placed on planning skills, as well as communication and visualization of the projects.

In the studio, we will try to answer the question: how can we design built environments that sustain both human and non-human actors?

As landscape architects, we are uniquely positioned to bridge disciplines such as architecture, ecology, engineering, soil sciences, botany, and more. We will invite professionals from these fields to discuss how to achieve our goals. This multidimensional and transdisciplinary approach will guide our site strategies and design solutions. We will critically evaluate how to integrate technological advances and scientific findings into our work. Additionally, we will explore case studies from both Israel and abroad, aiming to select the best design solutions that enhance the uniqueness of the Israeli landscape.

Details of main goals:

- To become familiar with and dive deeper into critical spatial issues of the time and our region.
- To practice connecting an issue with its spatial presence (including the use of mapping tools) and exploring how planning and design can have a positive impact.
- To propose the significance of landscape architecture in addressing spatial challenges.
- To develop planning and design projects within a multidimensional context, utilizing data and scenario-based approaches (drawing from planning and policy documents, studies, spatial representations, field trips, among others).



- To take a stand in relation to the world through the tools of landscape architecture.
- To demonstrate the ability to work across different scales simultaneously, while comprehending the connections and mutual influences.
- To utilize a wide array of investigation, planning, and landscape representation tools.
- To explore the boundaries of the discipline and its intersections with other fields.

Deliverables

The primary product of the studio will consist of conceptual and spatial master plan, supported with detailed principles and recommendations for future development, as well as suggestions for landscape transformations. Strategic planning on a large scale will be complemented by locally fitted and site-specific solutions, serving as pilot studies to present students' position on contemporary landscape architecture issues. The projects will present students' proficiency in navigating diverse scales and balancing conflicting demands from all the users and stakeholders.

Students will acquire skills in the following areas:

- Collecting and analyzing materials while summarizing and sharpening insights relevant to the project
- Understanding the complexities of master plans/projects
- Designing and conceptualizing projects on various scales
- Formulating planning ideas and planning principles, and translating them into multi-stage plans
- Clearly expressing ideas graphically and verbally
- Weighing and choosing between alternatives
- Engaging researchers and specialists from different fields and integrating their findings into projects.
- Translating ideas into instructions and planning guidelines
- Implementing principles of sustainability in planning and designing projects
- Giving and receiving criticism
- Achieving project objectives in final site-specific design interventions



Evaluation Policy - Criteria for Evaluating the Student's Work

Students are obligated to participate and be active in all studio meetings, including participation in instructions, lectures, discussions, tours, etc. Students must submit the assignments on time, including the assignments, intermediate submissions, and final submission.

* The exercises and assignments will be determined in advance but are subject to change according to teaching/learning constraints. Any changes to the requirements or the submission date will be updated in advance.

Conditions for granting a grade: Fulfilling all course assignments, attendance at meetings and active participation.

The evaluation of the students will be carried out continuously throughout all stages of the studio. Thus, each student will be required to work and invest during the entire studio and not just before submissions.

The assessment is personal, according to the student's ability to develop the project, its scope, teamwork (collecting, analyzing, and sharing the information according to the various tasks) and the quality of the products.

Project stages and components for evaluation with a grade:

Grade components:

1. Site Analysis + Concept: 25%
2. Planning Framework + Master Plan 40%
3. Individual project: 35%

Detailed Projects evaluation:

Based on:

- Originality and depth of ideas and thoroughness of research 20%
- Excellence in design and planning 20%.
- Comprehensive planning approach & addressing tangential planning interest. 20%
- Strong critical thinking abilities 10%
- Clarity in presentation & aesthetic qualities 10%
- Innovation in design and approach 10%
- Articulation of your perspective 10%

Note: To be eligible for a course grade, students must successfully fulfill all assignments according to the requirements provided during the semester.



ZOOM link to all lectures: <https://technion.zoom.us/j/91750000744>

Detailed Studio Meetings Schedule

Phase	Week	Date Day	Time	Content/Lectures	Comments/Intro to the Assignments	
Site Analysis	1	29.05.24 Wed	14:30 -19:30	Studio Introduction Conversation: What is a master plan?	(Oded, Nimrod, Izabela) <i>Assignment 1 Site Analysis</i>	
	2	2.06.24 Sun	14:30 -15:30	Roy Jaijel's Lecture	<i>Dr. Roy Jaijel. Scientific Director at Agma – Watershed and River Center PhD, Marine Geosciences Department</i>	
		4.06.24		Hadera Stream Field Trip	(Oded, Nimrod, Izabela)	
		5.06.24 Wed	14:30 -19:30	Class canceled.		
	3	9.06.24 Sun	14:30 -9:30	Studio Conversations + Desk Crits	(Oded, Izabela) Lecture TBD.	
		12.06.24 Wed	14:30 -19:30	NO CLASS	Shavuot	
	4	16.06.24 Sun	14:30 -19:30	SITE ANALYSIS PRESENTATIONS	(Oded, Nimrod, Izabela) <i>Assignment 2 Planning Framework</i>	
	Framework		19.06.24 Wed	14:30 -19:30	Studio Conversations + Desk Crits	(Nimrod, Izabela) Lecture TBD.
		5	23.06.24 Sun	14:30 -19:30	Studio Conversations + Desk Crits	(Oded, Izabela) Lecture TBD.
			26.06.24 Wed	14:30 -19:30	Studio Conversations + Desk Crits	(Nimrod, Izabela)
6		30.06.24 Sun	14:30 -19:30	REVIEW: PLANNING FRAMEWORK Informal	(Oded, Nimrod, Izabela)	



	3.07.24 Wed	14:30 -19:30	Studio Conversations + Desk Crits	(Nimrod, Izabela) <i>Assignment 3 Pilot Study</i>
7	7.07.24 Sun	14:30 -19:30	Studio Conversations + Desk Crits	(Oded, Izabela) Lecture TBD.
	10.07.24 Wed	14:30 -19:30	Studio Conversations + Desk Crits	(Nimrod, Izabela) Photoshop Workshop (1 hour)
8	14.07.24 Sun	14:30 -19:30	Studio Conversations + Desk Crits	(Oded, Izabela)
	17.07.24 Wed	14:30 -19:30	Review of pilot study proposals (formal)	(Oded, Nimrod, Izabela)
9	21.07.24 Sun	14:30 -19:30	Studio Conversations + Desk Crits	(Oded, Izabela) Portfolio Workshop (1 hour) <i>Assignment 4 Master Plan</i>
	24.07.24 Wed	14:30 -19:30	Studio Conversations + Desk Crits	(Nimrod, Izabela) Lecture TBD.
10	28.07.24 Sun	14:30 -19:30	Studio Conversations + Desk Crits	(Oded, Izabela)
	31.07.24 Wed	14:30 -19:30	Studio Conversations + Desk Crits	(Nimrod, Izabela)
11	4.08.24 Sun	14:30 -19:30	Studio Conversations + Desk Crits	(Oded, Izabela)
	7.08.24 Wed	14:30 -19:30	Presentations master plan (informal)	(Oded, Nimrod, Izabela) <i>Final Review Guidelines</i>
12	11.08.24 Sun	14:30 -19:30	Studio Conversations + Desk Crits	(Oded, Izabela, Nimrod)
	14.08.24 Wed	14:30 -19:30	Studio Conversations + Desk Crits	(Nimrod, Izabela)



		21.08.24 Sun	14:30 -19:30	Rehearsal (all final plans, master plans, sections)	(Oded, Nimrod, Izabela) End of Semester
		04.09.24		Final Review	(Oded, Nimrod, Izabela)

Resources for the course (books, articles)

Recommended reading

1. **How to Study Public Life.** Jan Gehl, Birgitte Svarre. Jan Gehl and Birgitte Svarre, 2013
2. **Walkable City** (Tenth Anniversary Edition): How Downtown Can Save America, One Step at a Time. Jeff Speck, 2022
3. **Suburban Nation: The Rise of Sprawl and the Decline of the American Dream.** Andres Duany, Elizabeth Plater-Zyberk, Jeff Speck, 2010
4. **Green Metropolis. Why Living Smaller, Living Closer, and Driving Less Are the Keys to Sustainability.** David Owen, 2010
5. **Landscape architecture and environmental sustainability creating positive change through design.** Zeunert, Joshua. London: Fairchild, 2017.
6. **Site planning and design handbook.** Russ, Thomas H. New York: McGraw-Hill 2009.
7. **The Sustainable Sites Handbook: A Complete Guide to the Principles, Strategies, and Best Practices for Sustainable Landscapes.** Calkins, Meg. Wiley, 2012.
8. **The Image of the City.** Kevin Lynch. MIT Press Ltd, 1960.
9. **The Death and Life of Great American Cities.** Jane Jacobs, Random House, NYC, 1961.
10. **Design With Nature,** Ian McHarg, Natural History Press, 1969
11. **Working Water.** Reinventing the Storm Drain. Wenk, William E. Oro Group, 2021
12. **Time-Saver Standards for Landscape Architecture.** Harris, Charles and Nicholas Dines. McGraw Hill, 1997
13. **European Landscape Architecture: Best Practice Detailing.** Ed. Editors: Jens Balsby Nielsen, Torben Dam, Ian Thompson, Taylor & Francis, 2007.

Online Resources:

1. **Center for The Living City** <https://centerforthelivingcity.org/>
2. LAF Landscape Architecture Foundation <https://www.lafoundation.org/>
3. LAND Updates from ASLA www.asla.org/land
4. ASLA American Society of Landscape Architects www.asla.org
5. The DIRT (ASLA blog) www.dirt.asla.org
6. SITES Sustainable Sites Initiative www.sustainablesites.org
7. Landezine www.landezine.com



8. World Landscape Architecture www.worldlandscapearchitect.com
9. The Cultural Landscape Foundation <https://www.tclf.org>
10. IFLA International Federation of Landscape Architects www.iflaworld.com
11. International Building Future Institute www.living-future.org
12. Living Community Challenge <https://living-future.org/lcc/>

Israel:

1. AGMA - The Center for drainage basins, runoff and streams <https://agma.org.il/>
2. [Planting and protecting trees in the urban space](#) marks the policy of the Tel Aviv District. Planning Administration (2015)
3. [A national guide to shading trees in the built-up area](#). Planning Administration and Ministry of Agriculture 2020
4. Drainage Master Plan - [Runoff Management Appendix](#)
5. Policy document on urban runoff https://www.gov.il/he/departments/general/upper_runoff
6. [Neighborhood360 - The Israeli Green Building Council - Indices for planning and development of the residential environment](#)
7. [Neighborhood360 - The Israeli Green Building Council - Indices for planning and development of the residential environment](#)
8. The Rivers of Israel Policy and Planning Principles https://www.gov.il/he/pages/the_rivers_in_israel

Online Lectures:

- **The Landscape Architecture of Richard Weller, 2023** [Link here.](#)
- **Why geodesign?** - Carl Steinitz, 2014, [Link here](#)
- **Jeff Speck.** Essential reflections, learnings, and 100 pages of bonus material in the new Walkable City book. [Podcast here.](#)
- **Jane Jacobs Lecture, Janette Sadik-Khan** [Lecture here.](#)
- **Soils as an Essential Resource.** ASLA, New York, 2022 [Link here.](#)
- **Jane Jacobs Lecture, Janette Sadik-Khan, 2022** [Lecture here.](#) She served as New York City's transportation commissioner from 2007 to 2013 under Mayor Michael Bloomberg, overseeing historic changes to the city's streets.

Tour

Tour theme	Hadera Stream Basin
Purpose of the tour	Visiting the Basin area will allow us to get the understanding of the area extent, as well as its spacio-physical and phenomenological qualities, and its socio-environmental aspects.
Tour date	June 4 th 2024
commentary	The trip will take a whole day 8:00-16:30



1. [Procedures and Useful Information for Students in the Faculty of Architecture and Urban Planning, October 2020 \(Hebrew\)](#)
2. [Research in the Faculty of Architecture and Urban Planning at the Technion - Procedures and Useful Information for the Research Community in the Faculty \(Hebrew\)](#)