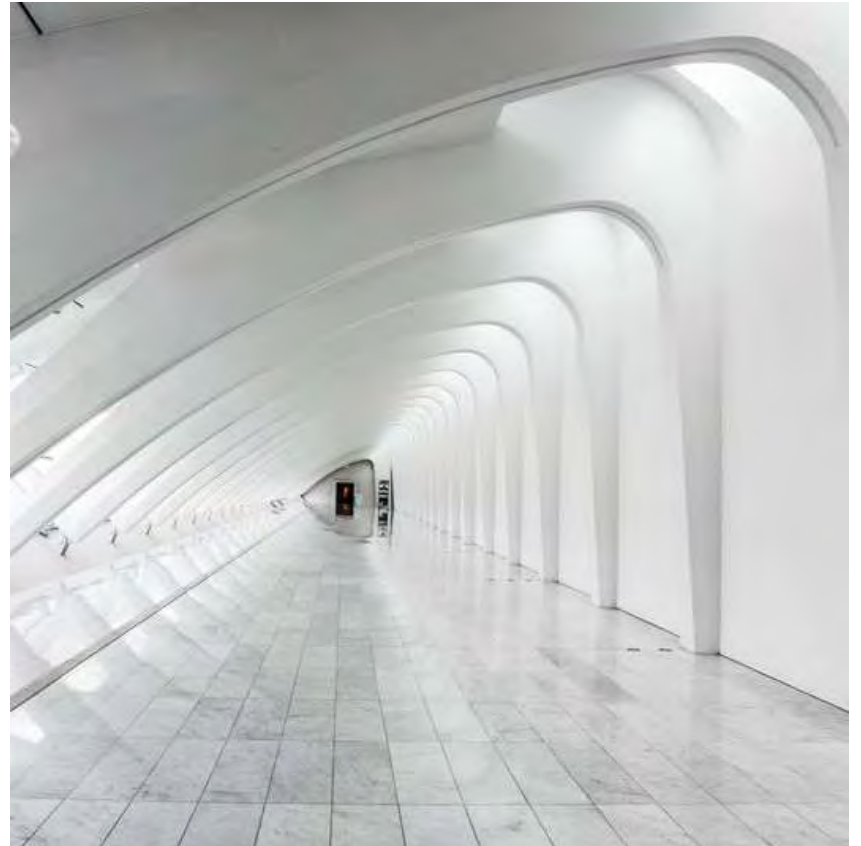


PORTFOLIO



”

Design is never a mere act of creation;
it is an intellectual responsibility toward space,
a promise made to the future,
and a continuous dialogue between heritage and innovation.



CONTENTS

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01. ABOUT ME



I have spent the last 25 years exploring how the architecture of our learning environments can keep pace with the architecture of our technology. As an Associate Professor and researcher, my journey has taken me from the traditional design studios of Montreal to leadership roles in the UAE and Tunisia, always focusing on the "human side" of the digital shift. My work is dedicated to the belief that emerging tools—from AI to BIM and Parametricism—should not replace human intuition, but act as sophisticated "assistants" that expand the reach of our imagination.

My Philosophy in Practice

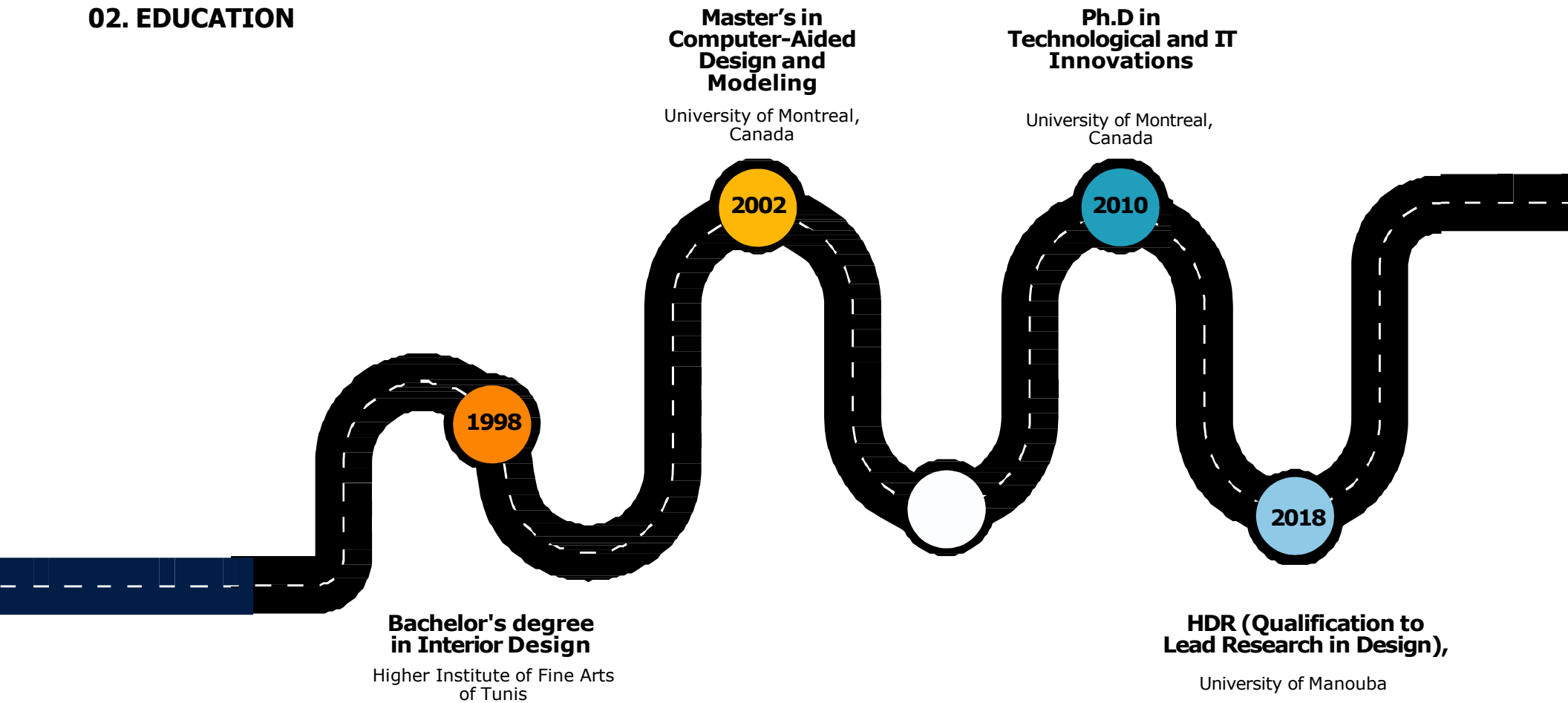
- The Augmented Designer:** I am passionate about integrating Generative AI, BIM, and Environmental Analysis into the design process as proactive collaborators. By teaching "Prompt Intelligence" and computational logic, I help students bridge the gap between abstract concept and technical reality.
- Institutional Leadership:** Beyond the studio, I have navigated the complexities of NAAB and CAA accreditations and led extensive curriculum development at the departmental level. I see accreditation not just as a standard, but as a roadmap for sustainable, technology-rich growth.
- Sustainability & Transition:** My research explores how we use digital twins and smart systems to move toward a circular economy. I advocate for a regenerative built environment where technology assists us in making net-positive impacts.
- Global Mentorship:** Having supervised diverse Ph.D. and Master's research, I am committed to a model of interdisciplinary collaboration. I believe true innovation happens when we mentor students to be technically fearless while remaining culturally and ethically grounded.

ACADEMIC JOURNEY

My academic journey reflects over twenty-five years of inquiry, exploration, and innovation at the intersection of design, technology, and cultural heritage. It is a path shaped by scholarship, mentorship, and a constant pursuit of excellence in redefining the future of Design education.

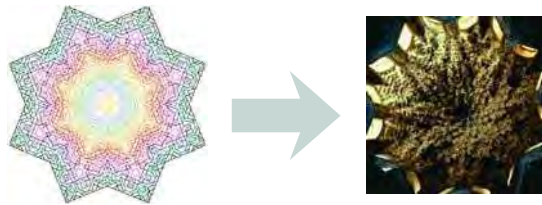


02. EDUCATION



Master Degree

Option: Computer Aided Design, Modeling and Manufacturing,
Faculty of Planning, Department of architecture, University of Montreal, Canada
October 2002



Research Objective: Automatic Generation of 3D Muqarnas Models

The goal of this research was to create a method for automatically generating 3D models of Muqarnas based on their 2D design patterns.

Overview

- The study begins with an exploration of the historical context, stylistic variations, and functional importance of Muqarnas in Arabo-Islamic architecture.
- It systematically investigates the core geometric principles that characterize these intricate ornamental structures, particularly focusing on Muqarnas domes.

Key Findings

- A thorough analysis reveals essential geometric rules that govern both the overall layout and the individual elements of Muqarnas.
- Building on these foundational principles, an algorithm and computational strategy are developed to convert flat Muqarnas designs into automatically generated 3D models.



Attendu que le Conseil de la Faculté atteste que

Anis Semlali

a terminé les études du programme de deuxième cycle en
aménagement
option conception, modélisation et fabrication assistées par ordinateur

Nous Recteur
par décision du Conseil de l'Université et en vertu de Notre autorité, lui conférons la

Maîtrise ès sciences appliquées (M.Sc.A.)

à compter du 4 juillet 2002 avec tous les droits, honneurs et privilèges qui s'y rattachent.

En foi de quoi Nous signons ce document muni du grand sceau de l'Université
ainsi que de la signature du secrétaire général et de celles du doyen et du secrétaire de la Faculté.

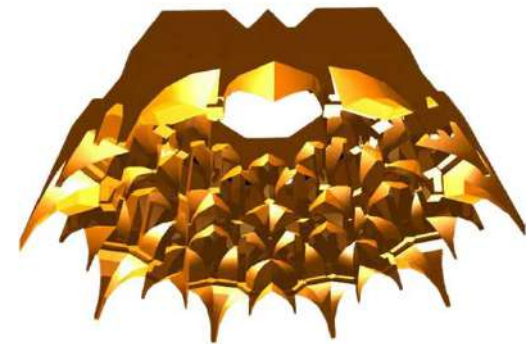
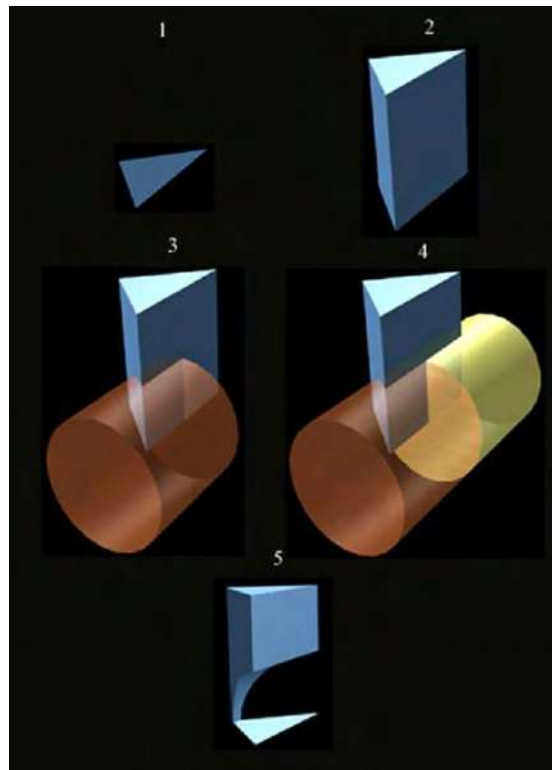
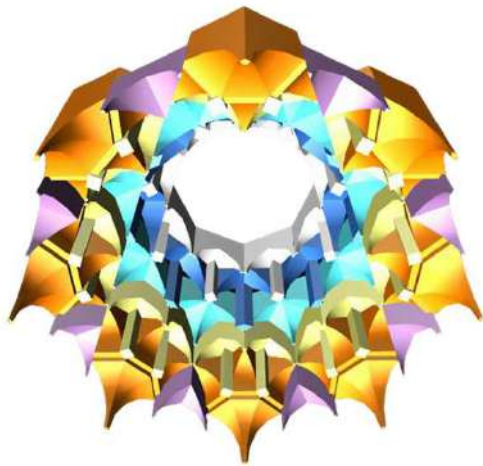
Fait à Montréal, le 17 septembre 2002

Le doyen
Louis Malin
Le secrétaire
Julie Bussières



Le recteur
Robert Haeghe
Le secrétaire général
Richard Lefebvre

Parametric Generation of Muqarnas Components





Attendu que le Conseil de la Faculté atteste que

Anis Semlali

a terminé les études du programme de doctorat en
aménagement

Nous, Recteurs,

par décision du Conseil de l'Université et en vertu de Notre autorité, lui conférons le grade de

Philosophiae doctor (Ph. D.)

à compter du 3 juin 2010 avec tous les droits, honneurs et privilèges qui s'y rattachent.

En foi de quoi Nous signons ce document muni du grand sceau de l'Université
ainsi que de la signature du secrétaire général et de celles du doyen et du secrétaire de la Faculté.
Fait à Montréal, le 31 août 2010

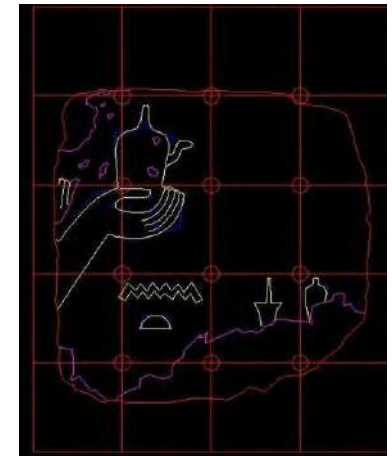
Le doyen

Le secrétaire



Le recteur

Le secrétaire général



PH.D

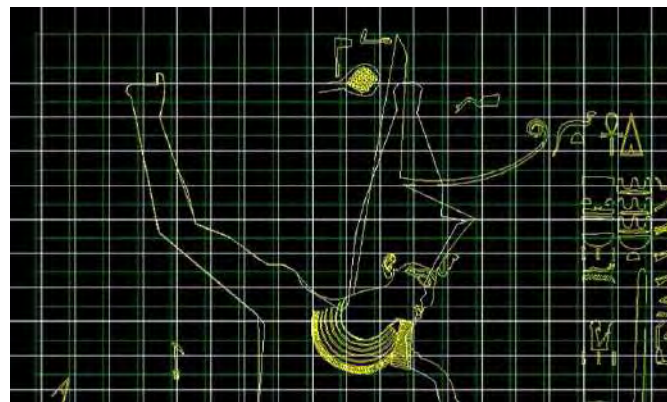
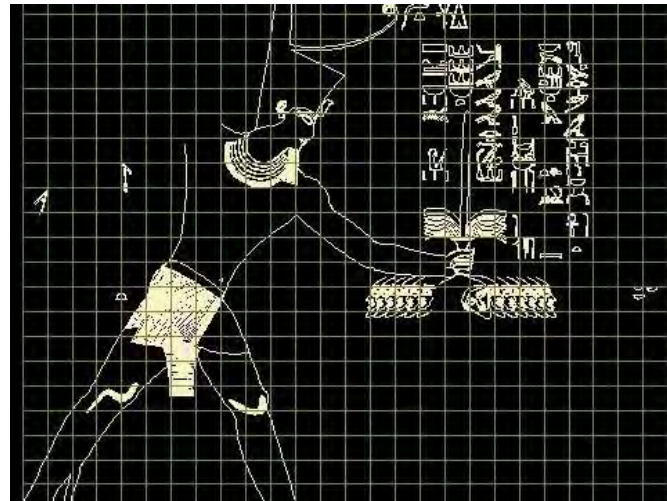
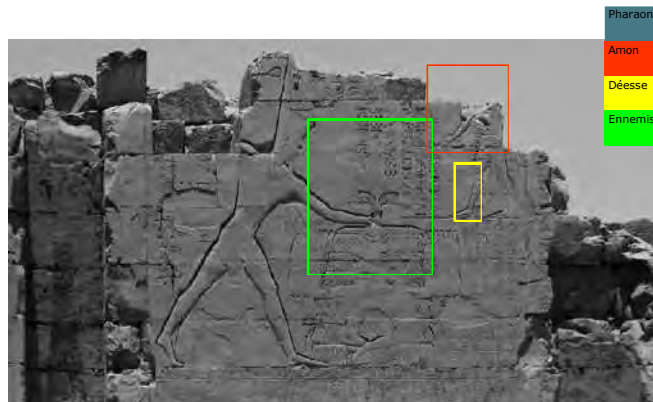
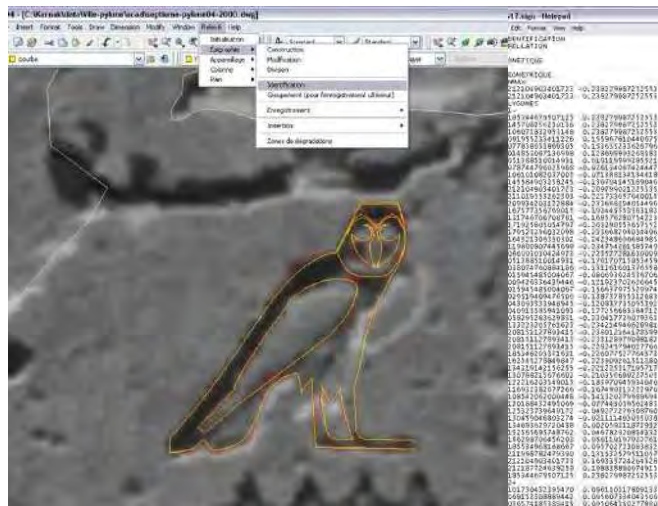
University of Montreal, Canada

March 2010. <https://hdl.handle.net/1866/3905>



This research explores the application of computerized tools in the archaeological reconstruction of monumental architecture. A computational model was developed and validated through a case study centered on the seventh pylon of the Karnak Temple in Egypt. The findings highlight the potential of reasoning modules as an assistive tool for archaeologists involved in reconstruction projects. The adaptability of these modules, which enable various action combinations, offers a significant advantage by accommodating diverse methodological approaches and analytical frameworks in archaeological reconstruction.

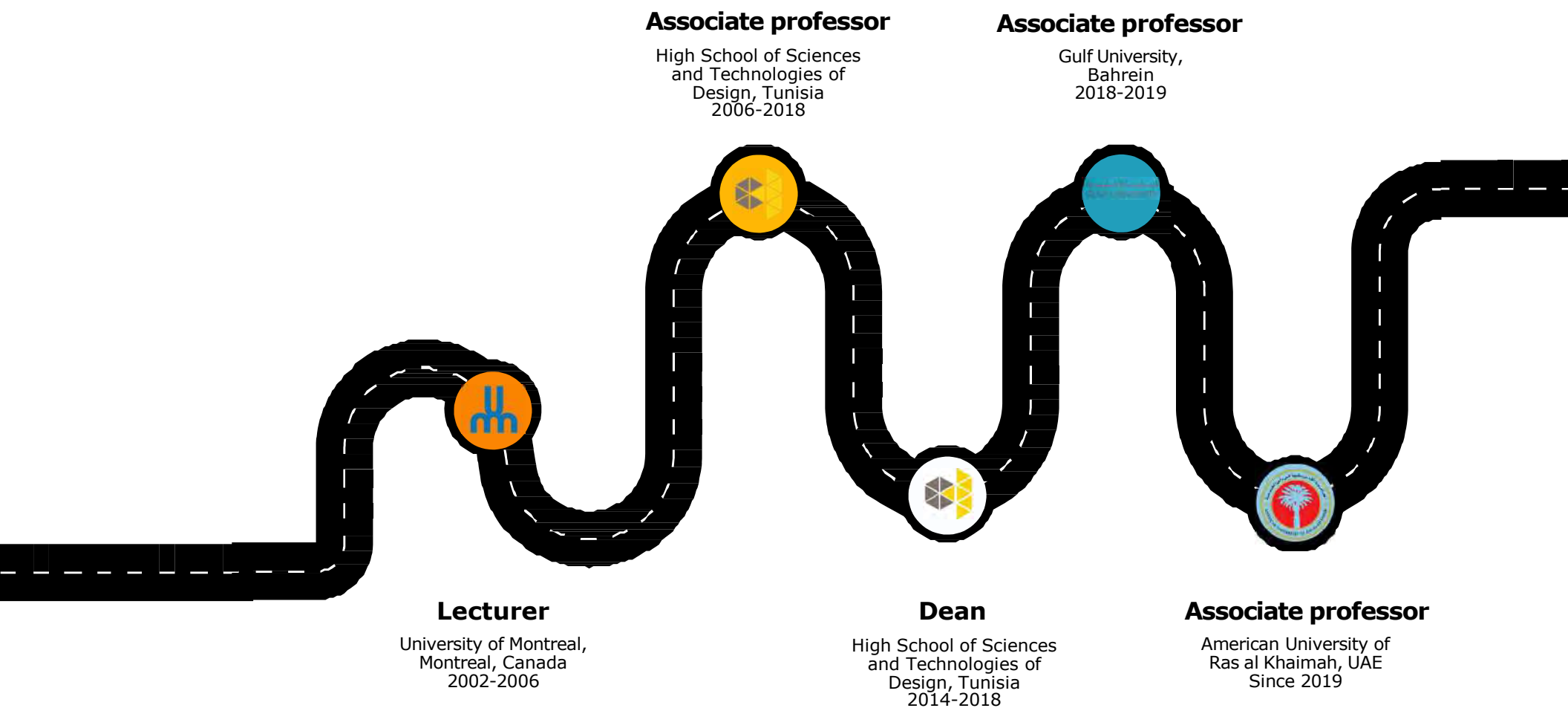
Computational reconstruction of archaeological reliefs



03. ACADEMIC EXPERIENCE

My academic experience spans multiple institutions and cultures, reflecting a career dedicated to advancing Design education through rigorous teaching, leadership, and innovation. Across these roles, I have sought to cultivate environments where creativity, research, and technological exploration can flourish.





Associate Professor (2019 – present)

American University of Ras al Khaimah, College of Engineering, Department of Architecture.

- Accreditation & Curriculum Leadership: Led and contributed to successful international accreditation processes (NAAB and CAA), ensuring compliance and quality control for curriculum development.
- Teaching Specialization: Taught advanced digital and generative courses, focusing on methodologies for sustainable systems, computational design (Parametric Design & Smart Architecture), and project-based learning.
- Supervision: Mentored undergraduate theses.



Associate Professor in Interior Design (2018 – 2019)

Gulf University, College of Engineering, Department of Interior Design Engineering

- Interior Design Studios, CAD & Parametric Design, and History of Interior Design.
- Supervised undergraduate thesis projects.
- Institutional accreditation process.
- Worked on Interior Design Engineering program accreditation process.
- Developed and implemented new curricula and interdisciplinary courses.



Associate Professor & Director (2006 – 2019)

High School of Sciences and Technologies of Design, University of Manouba, Tunis, Tunisia

- Director (2014–2017): curriculum and accreditation for three design departments, managing academic quality and resources.
- Research Leadership: Co-Directed EU-funded Tempus Program ("Design and sustainable development for local handicrafts"), gaining direct experience managing large-scale, international research projects focused on material management and sustainability.
- Curriculum Development: Designed and implemented advanced courses, including Interior Design and Research Methodology Seminar in Design and Digital Humanities, directly addressing cultural and comparative studies.



04. RESEARCH GRANTS & FUNDED PROJECTS

My research activities have been supported by diverse national and international grants, reflecting a sustained engagement with interdisciplinary inquiry and innovation. These funded projects have enabled the exploration of cultural heritage, sustainable design, and technological advancement through collaborative, high-impact research.



2024–2025

Team Member – Lighting conditions in work and study environments and their impact on users' performance and wellbeing (AURAK Seed Grant).

2023–2024

Leader – Electrical Self-Reliance and Architectural Harmony (AURAK Funded).

Focus : self-reliant systems aligned with the built environment; sustainability transitions.

2014–2017

Co-coordinator – European Union Tempus Program: Design and sustainable development for local handicrafts.

Partners: University of Florence, ESSTED, ISBAS, ISAMG, Polytechnic of Turin, University of Barcelona, Escola.

Funding: EU–Tempus Program.

2014–2016

Team Member (Innovation Lead) – Strategy design: experiment, innovate, optimize. Creation of a platform for the promotion of education and implementation of employability optimization schemes, funded by the Tunisian Ministry of Higher Education and Scientific Research.

2013–2014

Team Member – Architectural heritage in Tunisia – Preserving and enhancement, under the Tunisian-German Transformation Partnership, funded by the Goethe-Institute.

2005

Junior Researcher – Project Restitution: Contribution of computer resources to the validation of architectural restitution hypotheses in the field of built heritage, funded by the Canadian Council for Research in Human Sciences (CRSH).

2002–2004

Junior Researcher – Karnak Project: Archaeological and Computer Reconstruction Methods. Modeling Karnak Temples in Egypt, funded by the Canadian Council for Research in Human Sciences (CRSH).

2001–2003

Junior Researcher – Project Nouvelle-France: Computer modeling for understanding the know-how of builders in New France, funded by FCAR (Canada).

1999–2000

Junior Researcher – Project GI2000 – Parks Canada: Historical evolution of the site and the disinfection building at Grosse Île, funded by Parks Canada

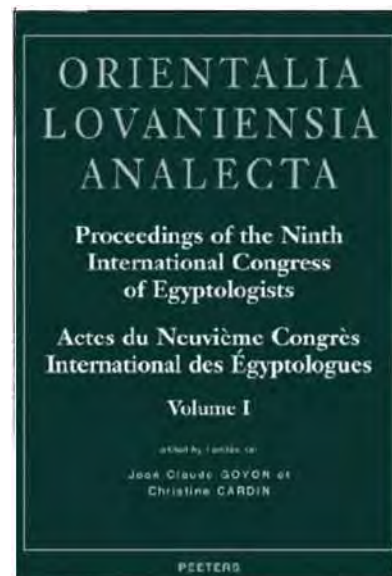
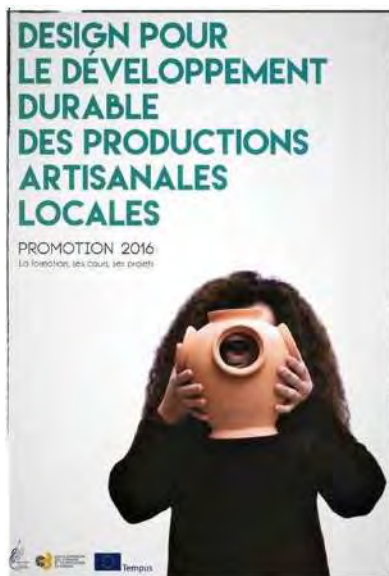
05. PUBLICATIONS

My publications reflect a sustained scholarly engagement with digital heritage, parametric and generative design, and sustainable design education. Through books, peer-reviewed articles, and international conference contributions, my work advances critical dialogues at the intersection of technology, culture, and the built environment.

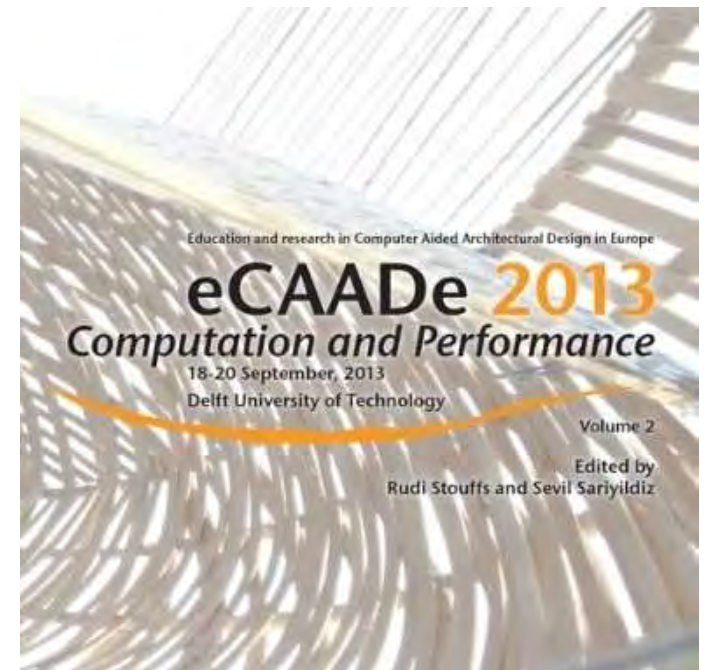
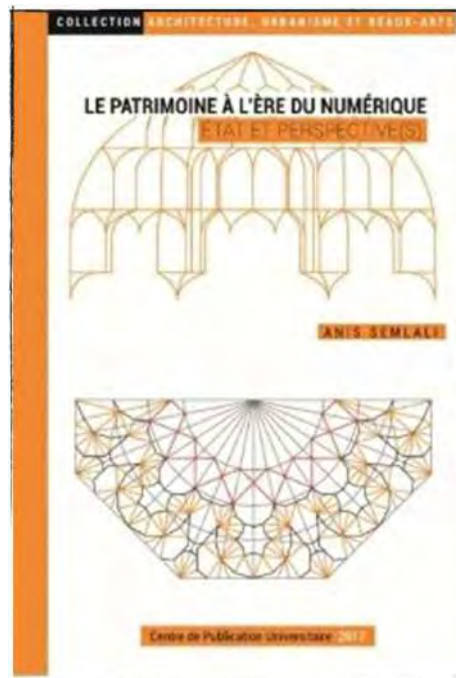


RESEARCH & PUBLICATIONS

My research is centered on the dynamic interplay of digital innovation, sustainable methodologies, and cultural heritage preservation within the realms of architecture and interior design. My academic contributions encompass several books, numerous peer-reviewed articles, and various conference presentations, collectively highlighting my consistent engagement with cutting-edge design approaches and pedagogical advancements.



BOOKS



1. Cazacova, L., & Semlali, A. (2025) «Building performance simulation as educational tool for energy efficient design», *Journal of Law and Sustainable Development*, 13(8), e4495. (DOI:10.55908/sdgs.v13i8.4495)
2. Semlali A., Tamzini S., Cazacova L. (2025) « Cultivating Sustainable Thinking: Integrating Biomimicry and Parametric Design into Architectural », *Proceedings of the conference « Environmental Design, Material Science, and Engineering Technologies (EDMSET) » - 2nd Edition* Proceeding to be published in ASTI series Q3 (Scopus)
3. Elmenghaw F., Cazacova L., Semlali A, (2024) « Circular Economy and Sustainable Materials in Campus Construction: Case Study of Campus Developments at American University of Ras Al Khaimah », *International conference on « Buisines management, Entrepreneurship and sustainable circular economy »*, IEREK, Scopus indexed.
4. GHRABI R. Semlali, A. (2024) "Study of the virtual restitution processes of Afro-Roman dwellings in Tunisia." *International Colloquium: Meeting El Jem 2024: Heritage Cities, Urban Landscape, Historical Development, and Local Development*.
5. Cazacova, L, Semlali A. (2023) "From Theory to Practice–Interior Design Education for More Sustainable Future", *From Theory to Practice–Interior Design Education for More Sustainable Future*, WSEAS Transactions on Environment and Development, vol. 19, pp. 1276-1283, 2023, DOI:10.37394/232015.2023.19.115
6. Semlali, Anis (2023), "From Restitution to Transmission: the place of digital technology", *Proceedings of the "4th Hyperheritage International Seminar"*, *Cultural Heritage Information International Seminar: Smart Heritage*, Arab American University - Jenin, Palestine, Published by EUROPIA productions pp: 51-70, ISBN 979-10-90094-69-7
7. Tamzini S. and Semlali A. (2023) « Design of cultural policies and local heritage practices in Tunisia », 3rd edition of the *Intersections of Design conference: Call 2022_Design in democracy*.
8. Cazacova, L, Semlali A (2023) "Pandemic reflections on interior design education pandemic reflections on interior design education" *9th International Conference on New Trends in Architecture and Interior Design - 9th ICNTAD'23*, · May 20, 2023
9. Semlali, A. and Abbes, N. (2022) "Architectural design studio learning outcomes at the age of Covid 19: Updating or redesigning" in the international symposium "Pedagogy in the international digital age: Obstacles and challenges", Djerba, Tunisia.
10. Semlali, A., Sediadi, E. and Abuhantash T. (2021) "Enhancing students' creativity using Biomimetic parametric design approach", in Atlantis press, *Advances in Social Science, Education and Humanities Research*, volume 671, pp:252-257, IWeDA 2021.
11. Sediadi, E. and Semlali, A. (2021) "Digital Architecture – The Best Practice in Student's Design Studio Works", ", in Atlantis press, *Advances in Social Science, Education and Humanities Research*, volume 671, pp:114-118, IWeDA 2021.
12. Semlali, A. (2020) "Integrating digital means into complex archeological reasoning", in *Conservation of Architectural Heritage (CAH) - 4th edition*.
13. Abbes N., Blibech O., Feki A. and Semlali A. (2019) *The digital design environment: essays on a new economy of the project document*. *Proceedings of the 21st International Symposium on the Digital Document (CIDE21)*, Europia production, pp: 69-8

Digital Heritage and Restitution

I have extensively explored the application of digital technologies in heritage preservation and restoration. My book, "Heritage in the Digital Age: State and Perspectives" (2017), offers a comprehensive overview of this vital field. I also co-authored "Cultural Heritage Information Design" (2018), which includes proceedings from the 3rd Hyperheritage International Seminar. My work explores the virtual restitution processes of historical structures, as evidenced by my 2024 co-authored study on Afro-Roman dwellings in Tunisia and my 2023 paper, "From Restitution to Transmission: the place of digital technology". Furthermore, I investigated integrating digital means into complex archaeological reasoning in a 2020 publication.

- Nasreddine B., Semlali A., Zreik K. and Ratrouf A. « Cultural Heritage Information Design», Proceedings of the 3rd Hyperheritage International Seminar, Les Éditions de l'ESSTED, April, 2018, 212 pages, ISBN : 978-9938-99-280-9
- Semlali A. « Le Patrimoine à l'ère du numérique : État et Perspectives », « Heritage in the Digital Age: State and Perspectives », French - Centre de Publications Universitaires, Dec, 2017, 227 pages, ISBN : 978-9973-37-039-9
- Collectifs, « Mc3maronNa - Le patrimoine architectural en Tunisie » « Architectural heritage in Tunisia – Preserving and enhancement », French-Arabic - CERES Editions, Mars 2015, 200 pages, ISBN : 978-9973-19-780-1
- GHIRABI R. Semlali, A. (2024) "Study of the virtual restitution processes of Afro-Roman dwellings in Tunisia," International Colloquium: Meeting El Jem 2024: Heritage, Cities, Urban Landscape, Historical Development, and Local Development.
- Semlali, Anis (2023), "From Restitution to Transmission: the place of digital technology", Proceedings of the "4th Hyperheritage International Seminar", Cultural Heritage Information International Seminar: Smart Heritage, Arab American University - Jenin, Palestine, Published by EUROPIA productions pp: 51-70, ISBN 979-10-90094-69-7
- Tamzini S. and Semlali A. (2023) « Design of cultural policies and local heritage practices in Tunisia », 3rd edition of the Intersections of Design conference: Call 2022_Design in democracy.
- Semlali, Anis, Temy Tidafi, and Claude Parisel 2013, "Action Based Approach to Archaeological Reconstruction Projects: Case of the Karnak Temple in Egypt." In Computation and Performance – Proceedings of the 31st eCAADe Conference, 325-332, Vol. 2, eCAADe: Conferences 2, Delft, The Netherlands: Delft University of Technology, 2013
- Semlali, Anis 2013 "Modeling Ancestral Knowledge as a Means to Improve the Design Process and the Designer's Creativity: The Case of Muqarnas Domes," in *Mobility & Design*, Collective Work edited by Nada El-Khoury & Giovanni De Paoli, Europa Productions
- Revez, J., Tidafi, T., Parisel, C., Meyer, É., Charbonneau, N., Semlali, A. (2007). "Computerized Methods for Archaeological Surveys and Reconstitution: The Case of the Temple of Amun at Karnak." In J.-Cl. Goyon and C. Cardin (eds.), *Proceedings of the IX International Congress of Egyptologists*, Grenoble, France. Louvain: Peeters, pp. 1595-1610, September 6-12, Grenoble, France.

Parametric and Generative Design

A significant portion of my research is dedicated to parametric and generative design. I am a co-author on a forthcoming 2025 publication examining "Cultivating Sustainable Thinking: Integrating Biomimicry and Parametric Design into Architectural". My work in 2021 explored "Enhancing students' creativity using Biomimetic parametric design approach". I have also presented on the parametric tool as a means of non-intentional ideation

- **Semlali A., Tamzini S., Cazacova L.** (2025) « Cultivating Sustainable Thinking: Integrating Biomimicry and Parametric Design into Architectural », Proceedings of the conference « Environmental Design, Material Science, and Engineering Technologies (EDMSET) » - 2nd Edition, proceeding to be published in ASTI series Q3 (Scopus)
- **Nasreddine B., Semlali A., Zreik K. and Rattrout A.** « Cultural Heritage Information Design », Proceedings of the 3rd Hyperheritage International Seminar, Les Editions de l'ESSTED, April. 2018, 212 pages, ISBN : 978-9938-99-280-9
- **Semlali A.** « *Le Patrimoine à l'ère du numérique : État et Perspectives* », « Heritage in the Digital Age: State and Perspectives », French - Centre de Publications Universitaires, Dec. 2017, 227 pages, ISBN : 978-9973-37-939-9
- **GHRABI R. Semlali, A.** (2024) "Study of the virtual restitution processes of Afro-Roman dwellings in Tunisia." International Colloquium: Meeting El Jem 2024: Heritage Cities, Urban Landscape, Historical Development, and Local Development
- **Semlali, Anis** (2023), "**From Restitution to Transmission: the place of digital technology**", Proceedings of the "4th Hyperheritage International Seminar", Cultural Heritage Information International Seminar: Smart Heritage, Arab American University - Jenin, Palestine. Published by EUROPIA productions pp: 51-70, ISBN 979-10-90094-69-7
- **Semlali, A., Sediadi, E. and Abuhantash T.** (2021) "**Enhancing students' creativity using Biomimetic parametric design approach**", in Atlantis press, *Advances in Social Science, Education and Humanities Research*, volume 671, pp:252-257, IWeDA 2021.
- **Sediadi, E. and Semlali, A.** (2021) "**Digital Architecture – The Best Practice in Student's Design Studio Works**", in Atlantis press, *Advances in Social Science, Education and Humanities Research*, volume 671, pp:114-118, IWeDA 2021.
- **Semlali, Anis, Temy Tidafi, and Claude Parisel** 2013. "Action Based Approach to Archaeological Reconstruction Projects: Case of the Karnak Temple in Egypt." In *Computation and Performance - Proceedings of the 31st eCAADe Conference*, 325-332. Vol. 2. eCAADe: Conferences 2. Delft, The Netherlands: Delft University of Technology, 2013.
- **Semlali, Anis** 2013 "Modeling Ancestral Knowledge as a Means to Improve the Design Process and the Designer's Creativity: The Case of Muqarnas Domes." In *Mobility & Design, Collective Work* edited by Nada El-Khouvy & Giovanni De Paoli. Europaia Productions.
- **Revez, J., Tidafi, T., Parisel, C., Meyer, É., Charbonneau, N., Semlali, A.** (2007). "Computerized Methods for Archaeological Surveys and Reconstitution: The Case of the Temple of Amun at Karnak." In J.-C. Goyon and C. Cardin (eds.), *Proceedings of the IX International Congress of Egyptologists*, Grenoble, France, Louvain: Peeters, pp. 1599-1610, September 6-12, Grenoble, France.

Sustainable Design and Education

My research extends to the integration of sustainable design principles within design education. I co-authored "From Theory to Practice-Interior Design Education for More Sustainable Future" in 2023. My communications include topics such as "Circular Economy and Sustainable Materials in Campus Construction" (2024).

I investigate also the impact of digital environments on design processes and pedagogical approaches. This includes my reflections on architectural design studio learning outcomes post-Covid-19 and an examination of the digital design environment's role in the economy of project documents. Another publication in 2023 explored "Pandemic reflections on interior design education"

- **Semlali A., Tamzini S., Cazacova L.** (2025) « Cultivating Sustainable Thinking: Integrating Biomimicry and Parametric Design into Architectural », *Proceedings of the conference « Environmental Design, Material Science, and Engineering Technologies (EDMSET) »* - 2nd Edition, proceeding to be published in ASTI series Q3 (Scopus)
- **Elmenghaw, Fathia, Cazacova, Ludmila and Semlali, Anis.** (2025). Circular Economy and Sustainable Materials in Campus Construction: Case Study of Campus Development at American University of Ras Al Khaimah. In Tunio, Muhammad, Sánchez, Angeles & Harrison, Christian (Eds) *Leadership, Innovation, and Responsibility in Global Business*, A Springer book series *Advances in Science, Technology, and Innovation*.
- **Cazacova L, Semlali A.** Learning to Design Better Energy Performing Buildings. Technology Based Learning for Enhanced Students Experience. *Journal of Law and Sustainable Development*, **Q2** (under review)
- **Cazacova, L., Semlali A.** (2023) "From Theory to Practice-Interior Design Education for More Sustainable Future", *From Theory to Practice-Interior Design Education for More Sustainable Future*, WSEAS Transactions on Environment and Development, vol. 19, pp. 1276-1283, 2023, DOI:10.37594/232015.2023.19.115
- **Cazacova, L., Semlali A.** (2023) "Pandemic reflections on interior design education pandemic reflections on interior design education" 9th International Conference on New Trends in Architecture and Interior Design - 9th ICNTAID'23, - May 20, 2023
- **Semlali, A. and Abbas N.** (2023) "Architectural design studio learning outcomes at the age of Covid 19: Updating or redesigning" in the international symposium "Pedagogy in the international digital age: Obstacles and challenges", Djerba, Tunisia.
- **Abbas N., Bliouch O., Feki A. and Semlali A.** (2019) **The digital design environment: essays on a new economy of the project document**, *Proceedings of the 21st International Symposium on the Digital Document (CIDE21)*, Europa production, pp.49/8

Ph. D supervision

Process of Reconstituting Afro-Roman Domestic Spaces
in Tunisia: The House of Laberii

Rania GHRABI

This research explores how **designers can effectively contribute to enhancing architectural heritage**, particularly through **3D modeling**. It identifies that designers have often been overlooked in the restitution of archaeological spaces, a practice stemming from a traditional reliance on archaeologists and architects. To clarify the designer's role, the study focused on the virtual restitution of the Afro-Roman House of Laberii in Oudhna, adopting an **action research methodology** by collaborating with a scholarly association. This approach allowed for the development of a model illustrating the designer's crucial involvement in virtually recreating archaeological remains in Tunisia, based on fieldwork and a co-determination loop between conceptualization and modeling.

The study's immersion in the field not only verified the designer's evolving roles during the virtual reconstruction of the Laberii "domus" but also led to the proposal of **optimized methods for the architectural restitution of Tunisian archaeological heritage**. These methods addressed various challenges encountered throughout the research. Ultimately, the work helped define the methodological limitations of the restitution process and clarified the extent of designer involvement needed to meet the public's needs and expectations for archaeological presentations.



Graduate Theses supervision

Aicha JAOUANI worked on **"Technological Innovation in Housing: Between the Search for Comfort and Sociocultural Stakes."** This topic addresses the integration of new technologies into housing. Through her work, the student successfully demonstrated that these new means (especially home automation) are a cultural phenomenon with inevitable sociocultural imprints on the society in which they are found. They change and modify how people view their surroundings, needs, and expectations. Their impacts are therefore significant on the evolution of society and culture. We believe this self-reflective approach fosters the autonomy of the future researcher and can give them greater self-confidence.

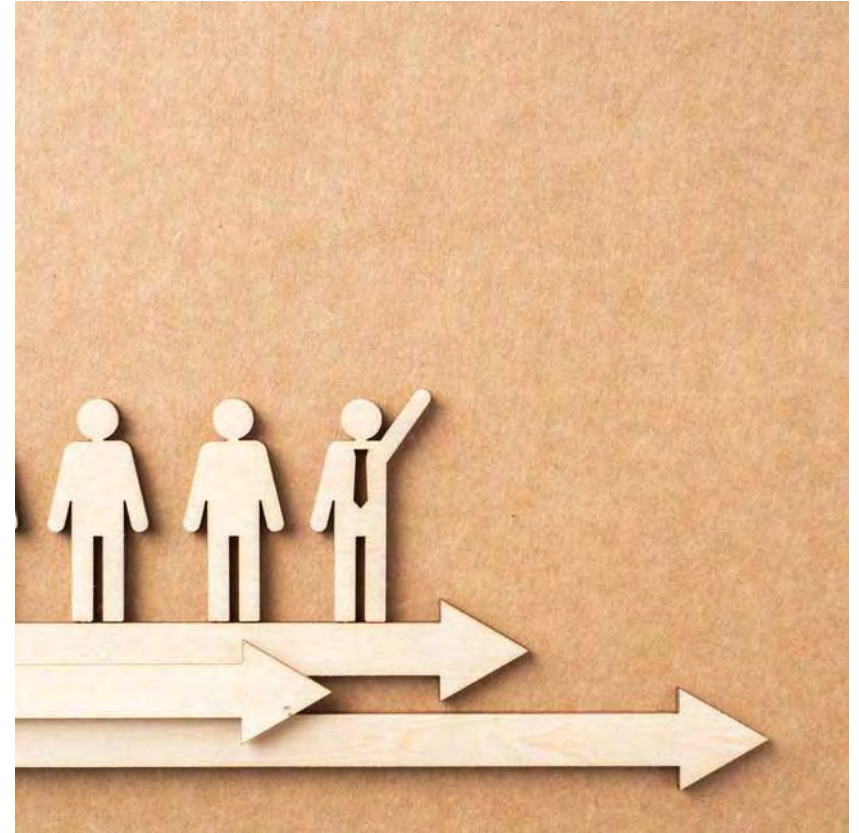
Fidaa CHAARI worked on **"Design Management and the Challenges of Workspace Organization."** The interest of this reflection is, on the one hand, to highlight the potential of design management as a new avenue of thought that can help interior architects approach the design of workspaces differently, and on the other hand, to demonstrate the direct impact of this new vision of thinking about the company (and thus this new form of organizing the workspace) on its social and economic efficiency.

Wiem SFAR **"The Treatment of the Psychological Dimension in the Design of a Museum Space: Towards an Optimization of the Experience."** Our objective is to study the different information and communication techniques used in spatial design to optimize the museum experience and ensure interaction between the visitor, the museum, and the exhibited object. Indeed, this thesis allowed us to address questions related to the structuring of museum space and exhibition communication through the study of appropriate staging that promotes a better perception of the works and a better interpretation of the message they reflect.

Inès CHERIF **"The Techno-Organic Approach to the Design Process: The Funicular Model."** This study focuses on rational and cognitive questions related to the design process in the digital age (new challenges, problem-solving systems, approaches, process models). It aims to see, through the case study of Gaudí's techno-organic approach, how new information and communication technologies can facilitate the simulation of conceptual intentions of stakeholders. The solution search system involved a multitude of mental operations—multiplication, division, crossing—which represent innovative approaches to adaptive solutions. These approaches involve cognitive processes that are closely linked to the mechanism of organizational learning as well as the effort to identify and restructure problems.

06. ACADEMIC LEADERSHIP AND COLLABORATION

My academic leadership merges cross-border collaboration with a rigorous commitment to institutional excellence. I have directed large-scale, multi-institutional initiatives, most notably co-coordinating the EU-funded Tempus Program and managing partnerships across Italy, Spain, Tunisia, and German-Tunisian frameworks. This global perspective complements my administrative expertise as a former Director at the High School of Sciences and Technologies of Design and Program Coordinator at AURAK, where I successfully steered taskforces for NAAB and CAA accreditation to ensure international curriculum compliance.







ATELIER 1 - SOUSSE 16



ATELIER 1 - SOUSSE 15



ATELIER 1 - SOUSSE 14



ATELIER 1 - SOUSSE 13



ATELIER 1 - SOUSSE 12



ATELIER 1 - SOUSSE 11



ATELIER 1 - SOUSSE 10



ATELIER 1 - SOUSSE 09



ATELIER 2 - KASSERINE 15



ATELIER 2 - KASSERINE 14



ATELIER 2 - KASSERINE 13



ATELIER 2 - KASSERINE 12



ATELIER 2 - KASSERINE 11



ATELIER 2 - KASSERINE 10



ATELIER 2 - KASSERINE 09



ATELIER 2 - KASSERINE 08



ATELIER 3 - TUNIS 11



ATELIER 3 - TUNIS 10



ATELIER 3 - TUNIS 09



ATELIER 3 - TUNIS 08



ATELIER 3 - TUNIS 07



ATELIER 3 - TUNIS 06



ATELIER 3 - TUNIS 05



ATELIER 3 - TUNIS 04

DESIGN POUR LE DÉVELOPPEMENT DURABLE DES PRODUCTIONS ARTISANALES LOCALES

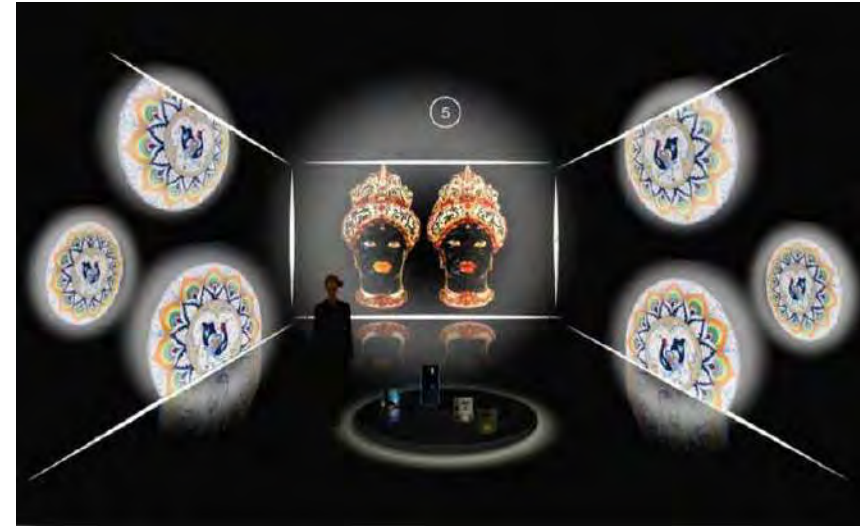
PROMOTION 2016
La formation, ses cours, ses projets



MINISTÈRE DE L'ENSEIGNEMENT
SUPERIEUR ET DE LA RECHERCHE
SCIENTIFIQUE



Tempus



07. HEALTHCARE DESIGN

The healthcare design projects I have supervised explore how spatial innovation, evidence-based design, and human-centered thinking can enhance wellbeing within therapeutic and clinical environments. These works reflect a commitment to shaping healthcare spaces that support healing, dignity, and the evolving needs of patients, caregivers, and communities.





INDS 411 Interior Design Studio 5: Clinic Design Papillon Oncology Clinic

- Concept statement
- Collage
- Color palette
- Mass mapping
- Diagrams

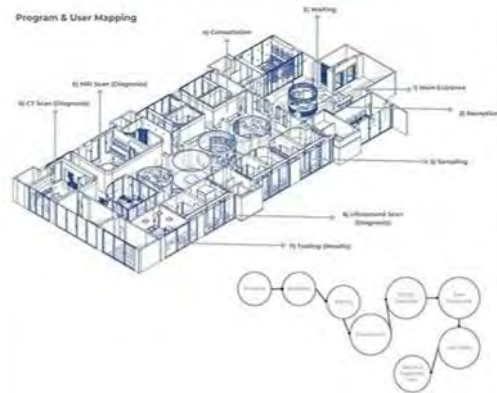
My concept is inspired by the butterfly, a symbol of transformation, growth, and new beginnings, reflecting the journey of cancer patients through treatment and healing. The design aims to create a space that is both functional and comforting, with a focus on natural light, greenery, and a calming color palette.



ONCOLOGY



Program & User Mapping



Space	Users
Reception	Patients, Visitors, Administrative Staff
Waiting Area	Patients, Visitors
Pharmacy	Patients, Technicians
IMC's	Patients, Visitors, Staff
Consultation Rooms	Patients, Doctors, Nurses
Sample Drop Point	Patients, Nurses
Laboratory	Technicians, Doctors
IMC CT Ultrasound	Patients, Technicians, Doctors
Staff Lounge	Doctors, Nurses, Technicians, Administrative Staff
IMC Area	Patients, Visitors
Waiting Room	Doctors, Nurses, Administrative Staff
Examining	Patients, Visitors



School of Engineering
Interior Design Department
Fall 2024

Studio 5 - Final Day
Instructor: Dr. Amy Smith
Instructor: Andrea NG

Name: Student: Student: Student:
ID: 202404210



INDS 411 Interior Design Studio 5: Clinic Design Papillon Oncology Clinic

- Concept Statement
- Zoning
- Mass
- Standard Plan
- Section



School of Engineering
Interior Design Department
Fall 2024

Studio 5 - Final Day
Instructor: Dr. Amy Smith
Instructor: Andrea NG

Name: Student: Student: Student:
ID: 202404210

Studio V: Healthcare Design materials consideration: WALLS

why we need specific material for health care design?

create a safer, more hygienic, and more comfortable environment.
They help in combating infections, ensuring durability, enhancing safety, and improving the overall patient experience, all of which are critical in a healthcare setting.

ISSUES:	SOLUTIONS:
In healthcare settings, walls are a critical barrier against spreading germs, reducing infection risk. Regular cleaning and disinfection are essential to maintain a safe environment.	Antimicrobial Coatings: These paints are formulated with antimicrobial agents that inhibit the growth of bacteria, fungi, and viruses on the general surface, helping to reduce the spread of infections.
Walls with a smooth, non-porous surface are easier to clean and maintain, reducing the risk of contamination. They also provide a clean, professional appearance.	Easy-to-clean Surfaces: These paints are formulated with smooth, non-porous finishes that are easy to clean and maintain, reducing the risk of contamination and providing a clean, professional appearance.
Walls with a smooth, non-porous surface are easier to clean and maintain, reducing the risk of contamination. They also provide a clean, professional appearance.	Easy-to-clean Surfaces: These paints are formulated with smooth, non-porous finishes that are easy to clean and maintain, reducing the risk of contamination and providing a clean, professional appearance.

Compliance with Codes

in Healthcare Wall Materials

- Key Codes:
- FDI
 - AIA
 - ABC
 - NFPA 101
 - HCAAP
 - DHA
 - LEED

- Healthcare wall materials must meet safety, hygiene, and sustainability standards.
- Infection Control:**
 - FDI & HCAAP: Require smooth, non-porous, and easy-to-clean surfaces for patient rooms and sterile areas.
 - HCAAP: The vinyl coverings, epoxy coatings, and seamless systems ensure infection control.
 - Fire Safety:**
 - ABC & NFPA 101: Wall materials in healthcare must meet fire safety standards, such as ASTM E84 for flame spread.
 - Fire-rated gypsum boards and ceramic tiles are common in high-risk areas.
 - Durability:**
 - AIA: Requires durable impact-resistant materials in high-traffic areas like corridors.
 - HCAAP: Like FDI, requires that wall materials must ensure durability and easy maintenance.
 - Sustainability:**
 - LEED: Supports the use of eco-friendly materials such as recycled ceramic tiles, stainless steel, and low-VOC paints contributing to healthier environments.
 - HCAAP & DHA: Enforce compliance with L&E standards for infection control, fire safety, and hygiene in healthcare settings.

Material	FDI	AIA	ABC	NFPA 101	HCAAP	DHA	LEED
Vinyl Wall Covering	✓	✓	✓	✓	✓	✓	✓
Epoxy Resin	✓	✓	✓	✓	✓	✓	✓
High Pressure Laminate	✓	✓	✓	✓	✓	✓	✓
Seamless Systems	✓	✓	✓	✓	✓	✓	✓
Stainless Steel Panels	✓	✓	✓	✓	✓	✓	✓
Ceramic Tiles	✓	✓	✓	✓	✓	✓	✓
High Pressure Laminate	✓	✓	✓	✓	✓	✓	✓
Seamless Systems	✓	✓	✓	✓	✓	✓	✓
Stainless Steel Panels	✓	✓	✓	✓	✓	✓	✓
Ceramic Tiles	✓	✓	✓	✓	✓	✓	✓

Studio V: Healthcare Design Verdant Haven mental health clinic Case studies, Program, Concept

Case studies Comparison

Study	Case Study 1 (London, UK)	Case Study 2 (Singapore, Singapore)	Case Study 3 (Singapore, Singapore)
Client Name	London Health	Singapore Health	Singapore Health
Design Concept	Biophilic design with indoor vertical gardens	Contemporary design with large glass facades	Contemporary design with large glass facades
Key Materials	Neutral light-colored wall coverings	Neutral light-colored wall coverings	Neutral light-colored wall coverings
Material Quality	High-quality, durable materials	High-quality, durable materials	High-quality, durable materials
Material Cost	High	High	High
Material Impact	Low	Low	Low
Material Maintenance	Low	Low	Low

DESIGN PROBLEM & SOLUTION

Individuals suffering from mental health problems are often treated differently making them feel like outcasts. Also, the society looks down upon people who seek for help from the professionals.

- creating a space that's welcoming and home-like, making them not feel like an outsider.
- mental health clinics are just as essential as any other health clinic. Hence, it is okay to seek help.

MAPPING & PROGRAMMING



Studio V: Healthcare Design Verdant Haven mental health clinic Concept Application, Process, Drafts

Concept Development



Concept application to plan



SANVA ARCHITECTURE
2020/01/01

STUDIO V:
HEALTHCARE DESIGN
CONCEPT APPLICATION

HEALTHCARE MATERIAL
CONSIDERATION
GROUP PROJECT

1



SANVA ARCHITECTURE
2020/01/01

STUDIO V:
HEALTHCARE DESIGN
CONCEPT APPLICATION

HEALTHCARE MATERIAL
CONSIDERATION
GROUP PROJECT

2



SANVA ARCHITECTURE
2020/01/01

STUDIO V:
HEALTHCARE DESIGN
CONCEPT APPLICATION

HEALTHCARE MATERIAL
CONSIDERATION
GROUP PROJECT

3



INDS 411 Interior Design Studio 5: Clinic Design Papillon Oncology Clinic

Lights used

Building / Room / Model	Luminaires layout plan
Building 1 / Studio 1 / Room 11	Luminaires layout plan
Building 1 / Studio 1 / Room 12	Luminaires layout plan
Building 1 / Studio 1 / Room 13	Luminaires layout plan
Building 1 / Studio 1 / Room 14	Luminaires layout plan
Building 1 / Studio 1 / Room 15	Luminaires layout plan
Building 1 / Studio 1 / Room 16	Luminaires layout plan
Building 1 / Studio 1 / Room 17	Luminaires layout plan
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Building 1 / Studio 1 / Room 95	Luminaires layout plan
Building 1 / Studio 1 / Room 96	Luminaires layout plan
Building 1 / Studio 1 / Room 97	Luminaires layout plan
Building 1 / Studio 1 / Room 98	Luminaires layout plan
Building 1 / Studio 1 / Room 99	Luminaires layout plan
Building 1 / Studio 1 / Room 100	Luminaires layout plan

Consultation Room



False Colors simulation



Sample Room



Lab



Ultrasound scan Room



Studio V: Healthcare Design

Verdant Haven mental health clinic

antiquated plan, sections, interior shots

Sensory Decompression Room

A calming space designed to reduce sensory overload, provide relaxation, and restore emotional balance. Equipped with tactile panels, soft lighting, soothing sounds, and comfortable seating for a recuperating experience.

Low Stimulus Environment: A dark, calming space with blue accent lights, soft blankets, and heart rate monitors, providing a peaceful, low-stimulation setting for relaxation and stress relief.

The light-filled calming space: A soothing area filled with natural light, providing relaxation, complemented by a full-body massage device for a sensory, therapeutic experience.



Key plan 1/300



Section AA 1/300



Section BB 1/300



Floor plan 1/300



Dialux lighting



Sensory decompression refers to a process or environment designed to reduce sensory overload by providing a calming, low-stimulation space. It aims to help individuals regain emotional balance and mental clarity, especially for those who are overwhelmed by excessive stimuli. This can involve:

- **Reducing noise:** Using soft sounds or silence to eliminate distractions.
- **Soft lighting:** Dimming lights or using warm tones to avoid harsh, bright stimuli.
- **Tactile elements:** Providing textures like soft pillows, mats, or fidget tools for tactile stimulation.
- **Minimal visual stimulation:** Neutral colors, calming visuals, and clutter-free spaces to avoid overwhelming the senses.

This space helps individuals relax and reset, especially those with sensory processing sensitivities or mental health challenges.





Daylight Simulation

Artificial Light Simulation



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- Choosing WELL Certification for the dermatology clinic aligns perfectly with its commitment to supporting patient well-being.
- With WELL, the clinic ensures:
 - Optimal indoor air quality, Abundant natural lighting & Biophilic design elements
 - These features foster comfort, reduce stress, and support overall health.
- This certification provides assurance to patients and staff that every design choice prioritizes their wellness.
- It reflects the clinic's dedication to sustainability and a healthier built environment.

1995-1996 Winter



noise-reducing partitions



ample walking space and efficient circulation pathways ensure smooth movement throughout the space.



Category: Seating



healthy, nutritious food



adjustable
thermostats



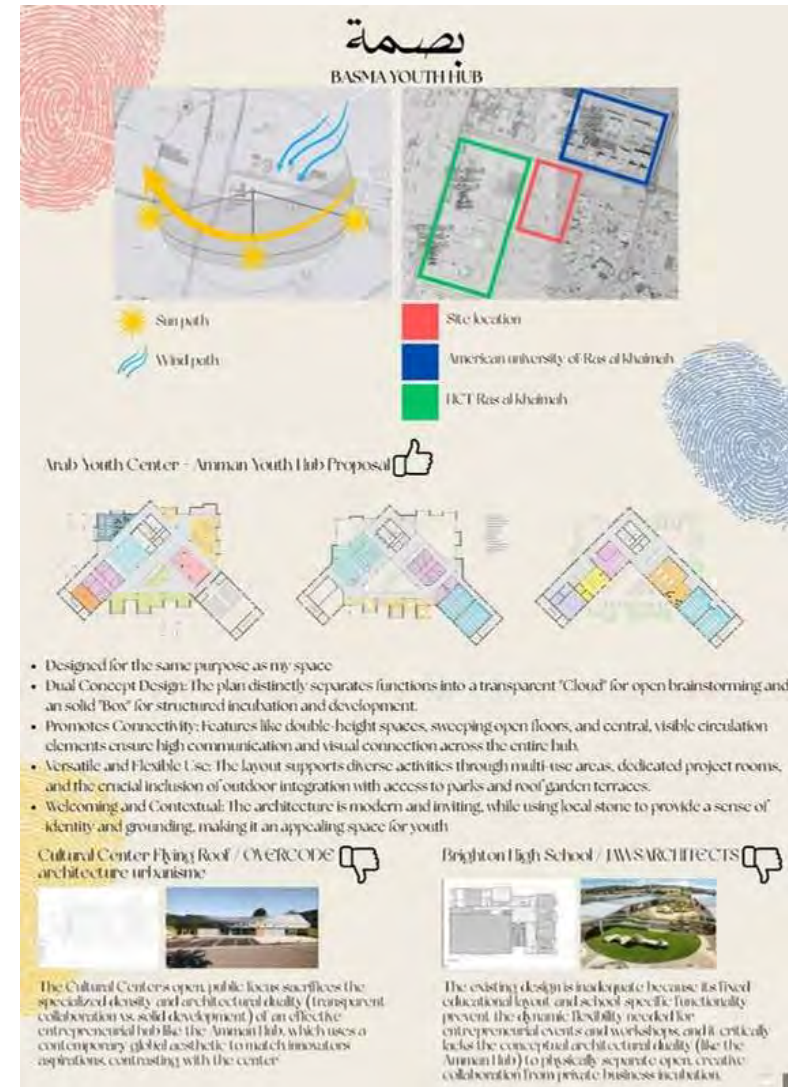
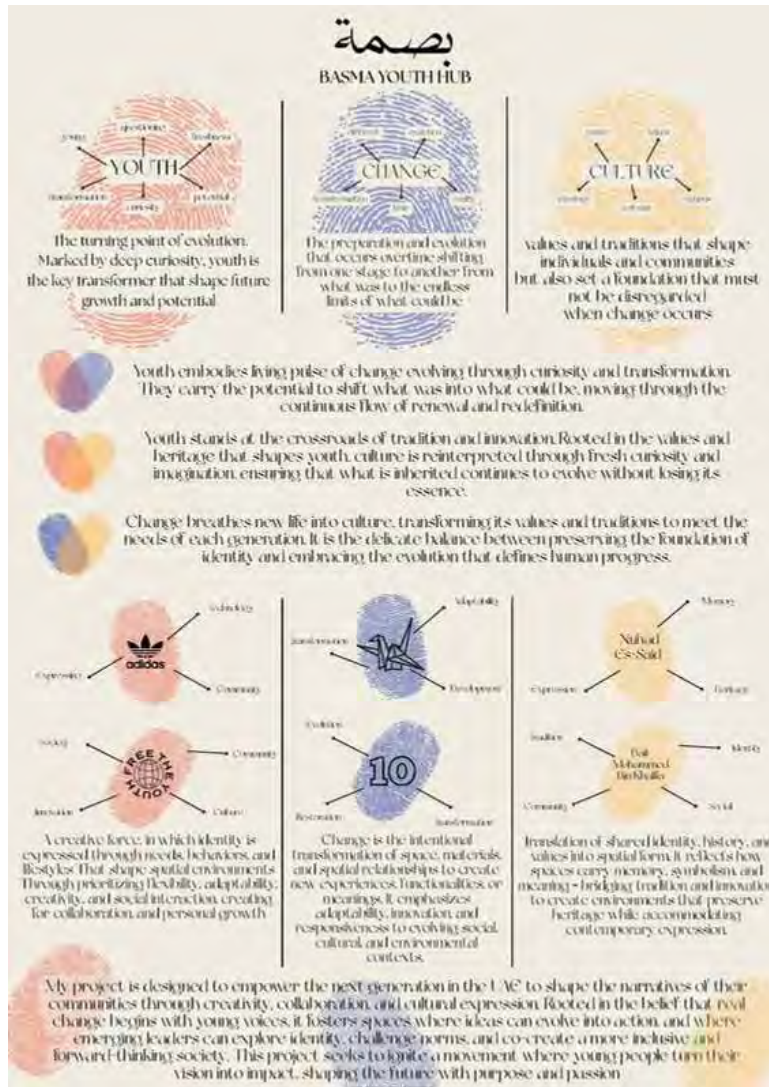
non-toxic, low-VOC materials



08. GRADUATION THESES

The graduate theses I have supervised reflect a diverse and intellectually rigorous exploration of design, technology, and cultural contexts. Through these research projects, I guide emerging scholars in developing original, critical, and human-centered insights that advance the future of Interior Design and architectural thinking





INDS 412: GRADUATION THESIS RESEARCH SAFE HAVEN

Unlocking Potential, Breaking Barriers: Empowering Women to End Gender-Based Violence

Research & statistics

Data from the 2017-2018 Jordan Demographic and Health Survey shows that 25.9% of Jordanian women experience domestic violence, with emotional 20.6%, physical 17.5%, and sexual 5.1% abuse reported. Factors like age, region, education, and economic status are closely associated with this violence.

Q Problems
1. Restrictive Legal and Social Barriers
2. High Prevalence of Domestic Violence
3. Economic Independence

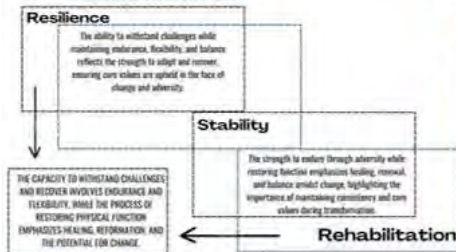


Q Proposed solutions
1. Legal reform
2. Public awareness campaigns
3. Economic dependence of women

Concept Development

Resilience	Stability	Rehabilitation
Definition: Resilience is the ability to withstand shocks without permanent deformation or rupture. In interior design: Resilient residence pertains to the durability and adaptability of spaces and materials in response to everyday use and unforeseen changes, as well as unexpected challenges. My own definition: Resilience is the capacity to withstand shocks and adapt to challenges, allowing for recovery without permanent damage, by maintaining endurance, flexibility, and the ability to bounce back from adversity while preserving core values and function.	Definition: The strength to stand or endure. In interior design: Stability relates to creating environments that evoke a sense of permanence and balance. It involves the selection of materials and structural elements that offer durability and reliability, ensuring that the space remains functional and aesthetically pleasing over time. My own definition: Stability is the strength to endure with consistency and balance, reflecting the ability to remain steady and uphold core values in the face of change.	Definition: Restoration especially by therapeutic means to an improved condition of physical function. In interior design: Rehabilitation involves restoring and enhancing the functionality and aesthetics of a space while preserving or reinterpreting its original character. My own definition: Rehabilitation is the process of restoring and renewing physical function through therapeutic means, focusing on healing and reformation while addressing themes of justice and human potential for change.

Interconnected



Design Concept Statement

MY DESIGN AIMS TO PROVIDE A SAFE, ADAPTABLE, AND SUPPORTIVE ENVIRONMENT FOR WOMEN. IT FOCUSES ON PROMOTING HEALING, GROWTH, AND RESILIENCE, WHILE HELPING WOMEN FIND EMOTIONAL BALANCE AND STRENGTH, EVEN DURING CHALLENGES. THE DESIGN STAYS TRUE TO ITS CORE VALUES OF SAFETY, EMPOWERMENT, AND SUPPORT.

Case Studies

Resilience & Rehabilitation	Stability & Resilience	Rehabilitation
POSITIVE ENERGY HOUSE HOUSE ON 8 STEPS	HOUSE ON 8 STEPS	HEARD IN STILLS



School of Engineering
Interior Design

INDS 412: Graduation Thesis research
INSTRUCTOR: ANIS SEMLAU

Rawan Abdeldayem
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1

INDS 412: GRADUATION THESIS RESEARCH SAFE HAVEN

Concept

Q SOLEIL
'Soleil' meaning 'sun' in French, can be conceptualized as a symbol of life, vitality, renewal, and hope. As a design concept, Soleil goes beyond just sunlight; it captures the essence of warmth, energy, and positivity. It's a representation of light as a source of growth, a beacon of clarity, and an uplifting force that brings comfort and resilience.

Project case studies

Psychosocial rehabilitation center	AASTYAM	WOMEN CRAFTS AND SKILL DEVELOPMENT CENTER
CONCEPT A psychosocial rehabilitation center designed to provide a safe and supportive environment for women, focusing on healing, growth, and resilience. MATERIAL 1. Concrete 2. Wood 3. Glass 4. Metal	CONCEPT A modern, sustainable living space designed to provide a safe and supportive environment for women, focusing on healing, growth, and resilience. MATERIAL 1. Concrete 2. Wood 3. Glass 4. Metal	CONCEPT A modern, sustainable living space designed to provide a safe and supportive environment for women, focusing on healing, growth, and resilience. MATERIAL 1. Concrete 2. Wood 3. Glass 4. Metal

Conceptual Case Studies

Brise Soleil House	Brise Soleil House	Amazon Spheres
CONCEPT The natural light, entering from both the east and west facades, creates the horizontal lines of the facade and creates a sense of openness and connection to the outdoors. The design is a response to the need for a safe and supportive environment for women, focusing on healing, growth, and resilience. MATERIAL The sustainable design uses concrete, wood, and glass on the exterior and wood on the interior, allowing for a complete opening up and use of horizontal space, resulting in the visual reflection of the past, which brings roots, living space, and balance, even during the winter months.	CONCEPT The house is a modern, sustainable building partially clad in an undulating wave-like facade which provides shading, privacy, and ventilation to the interior. The design is a response to the need for a safe and supportive environment for women, focusing on healing, growth, and resilience. MATERIAL 1. Concrete 2. Wood 3. Glass 4. Metal	CONCEPT The Amazon Spheres by MESA merge nature and workspace, creating a lush environment that fosters creativity and well-being. These glass spheres house over 40,000 plants, offering a unique retreat for collaboration and teamwork within an urban setting. MATERIAL 1. Glass Panels 2. Steel Structure 3. 1700 Plants 4. Concrete

Plan 1:500



School of Engineering
Interior Design

INDS 412: Graduation Thesis research
INSTRUCTOR: ANIS SEMLAU

Rawan Abdeldayem
2021004849

2

Animal Shelter & Rehabilitation Center



Concept Development



Concept Statement

My design envisions a welcoming and nurturing space where animals can experience care, compassion, and security, free from fear. It encourages community engagement, raising awareness of animal welfare challenges and promoting solutions, all while fostering an environment that supports the well-being of both animals and people. This space will serve as a sanctuary for recovery and transformation, giving animals a renewed chance at life and a supportive start to their new journeys.

3 Concepts Case Studies

Health

L'eduppeu

Concept: an open, bright, and airy space for animals to live and thrive.

It is a place where animals can feel safe and secure, and where they can receive the care and attention they need to thrive.

Well-being

Edin Project

Concept: a space where animals can experience care, compassion, and security, free from fear.

It is a place where animals can feel safe and secure, and where they can receive the care and attention they need to thrive.

Economics

Buildit Center

Concept: a space where animals can experience care, compassion, and security, free from fear.

It is a place where animals can feel safe and secure, and where they can receive the care and attention they need to thrive.

Project Case Studies



Project Name	Location	Project Description	Project Outcome
Project A	Location A	Project A description	Project A outcome
Project B	Location B	Project B description	Project B outcome
Project C	Location C	Project C description	Project C outcome
Project D	Location D	Project D description	Project D outcome
Project E	Location E	Project E description	Project E outcome
Project F	Location F	Project F description	Project F outcome
Project G	Location G	Project G description	Project G outcome
Project H	Location H	Project H description	Project H outcome
Project I	Location I	Project I description	Project I outcome
Project J	Location J	Project J description	Project J outcome

Design Concept: Triangulation Wireframe

I chose the concept of "Triangulation" because it embodies the essence of simplification and clarity in design. By reducing an object or mass to its most fundamental geometric form, it becomes easier to understand, manipulate, and reinterpret its essence. Triangles, as a base shape, symbolize stability, strength, and precision, which are foundational to creating both functional and visually striking designs. This concept allows for the exploration of abstract yet structural compositions, offering endless possibilities for creating innovative spaces or objects that balance form and function while maintaining a clear and cohesive aesthetic language.



Design Concept Case Studies



Plan & Site



09. GRADUATION PROJECTS

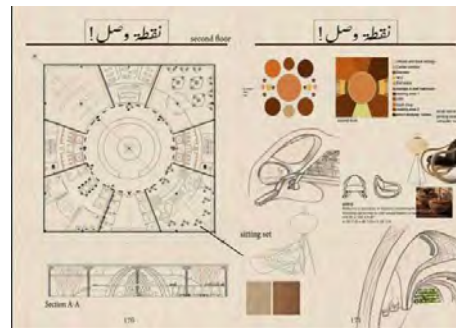
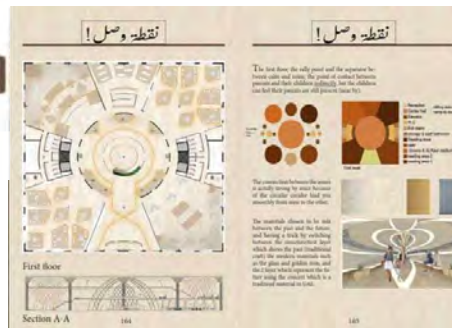
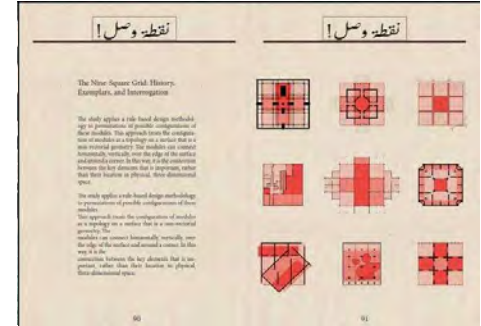
The graduation projects I have mentored embody a synthesis of creative inquiry, technical proficiency, and critical reflection. Through these capstone works, students translate conceptual ideas into mature design proposals that address real-world challenges and contribute meaningfully to the evolution of Interior Design practice.

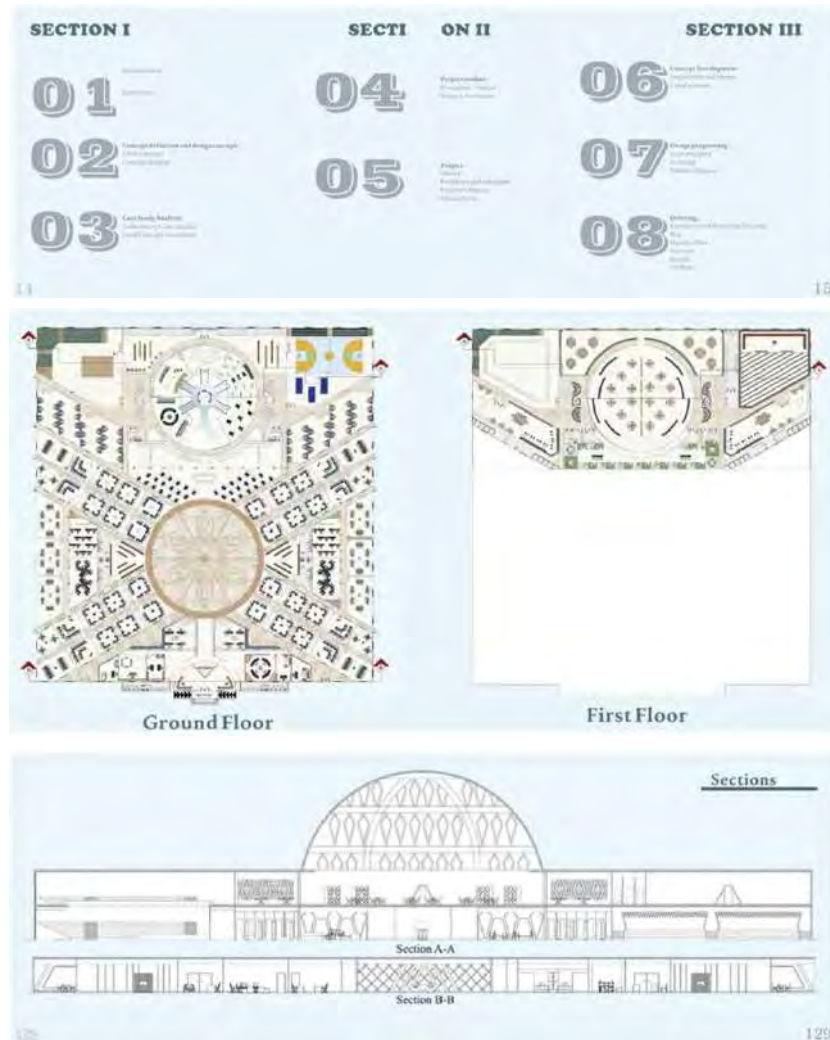




CREATE FIFTEEN DESIGNS THAT MOVE WITH AND INSPIRE PEOPLE - TO MAKE THEM FEEL AND THINK

نقطه وصل !		نقطه وصل !	
TABLE OF CONTENTS			
INTRODUCTION		PROJECT OUTLINE	
Library SARIR ALAM	P10	Client SARIR ALAM	P10
ELEMENTS		CONCEPT DEVELOPMENT	
What is a library?	P12	Concept SARIR ALAM	P12
What is a library building?	P13	Concept SARIR ALAM	P13
The concept SARIR ALAM	P14	Concept SARIR ALAM	P14
CONCEPT EXPLORATION		PROJECT OUTCOME	
Library SARIR ALAM	P15	Library SARIR ALAM	P15
Library SARIR ALAM	P16	Library SARIR ALAM	P16
Library SARIR ALAM	P17	Library SARIR ALAM	P17







Project startup2

keyword concept development

Experience
 One's experience is a collection of words, not a single statement.
 The experience is a collection of words, not a single statement.

Word etymology and origin
 The word 'experience' is derived from the Latin 'experiri', which means 'to test' or 'to try'. It is a verb that can be used in many different ways, such as 'I experienced a great day' or 'I experienced a lot of things'.

Concept approach according to views
 Experimental interior design concept
 Good Design Makes the Space More Accessible
 Good Design Makes the Space More Accessible

12

Project startup2

keyword concept development

Screening
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

Concept approach according to views
 Screen and content anchor design
 Screen and content anchor design

Screening in the design
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

11

Project startup2

keyword concept development

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

What is experience?
 Experience is a collection of words, not a single statement. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12

Project development3

Co-working space Case studies

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12

Schematic design4

Design programming

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12

Schematic design4

Furniture plan

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12

Interior space 5

Case

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12

Interior space 6

open working area

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12

Interior space 7

Business start-up office

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12

Interior space 8

Activities experience area

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12

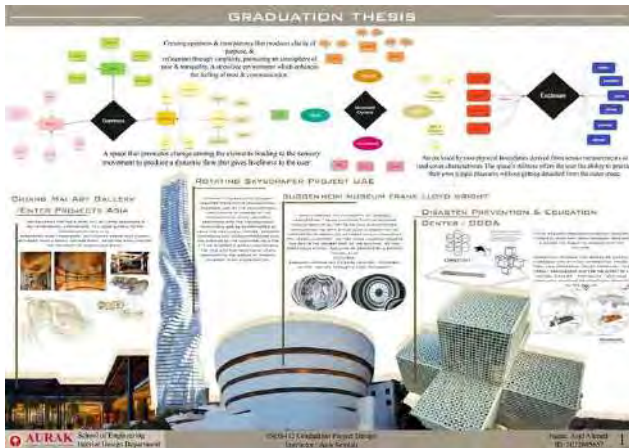
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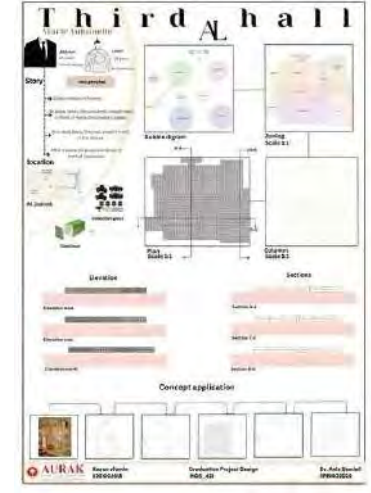
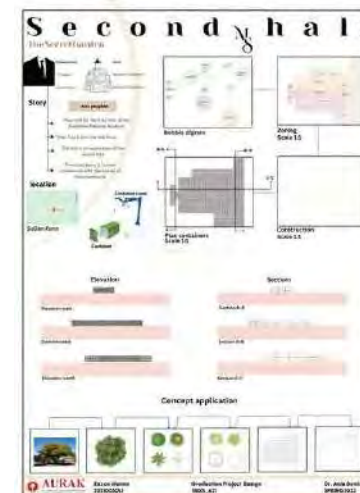
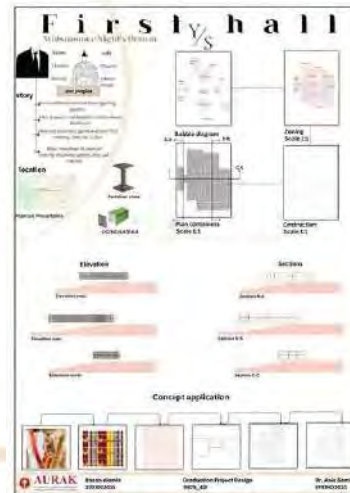
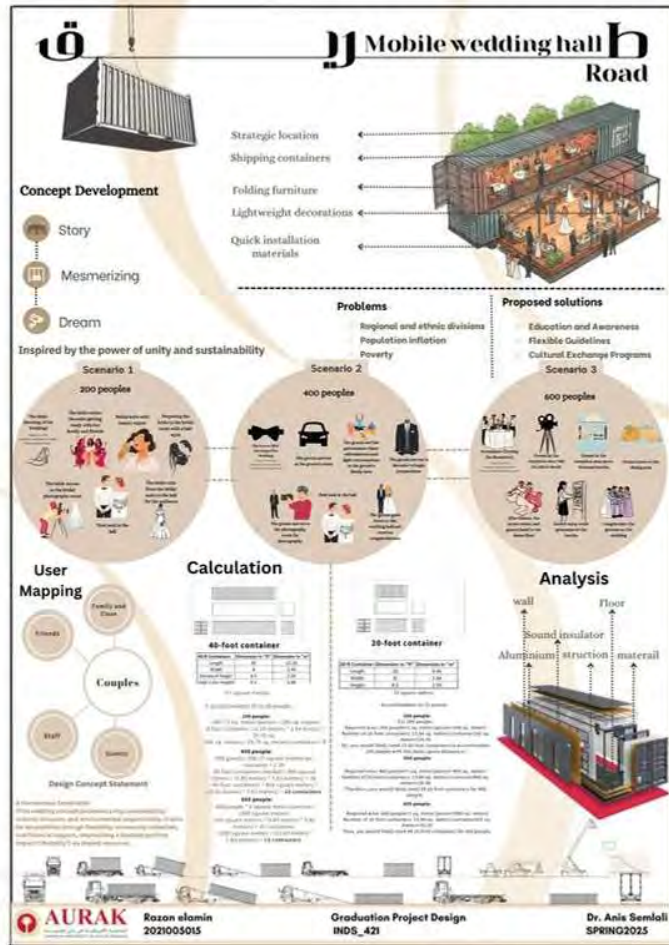
Activities experience area

1.0 INTRODUCTION
 The purpose of this project is to develop a concept for a new interior design project. The project is based on the keyword 'experience' and the concept 'Good Design Makes the Space More Accessible'.

1.1 EXPERIENCE & SCREENING
 The process of screening is a process of selecting the best candidates for a job or a project. It is a process that involves a series of steps, from identifying the needs of the organization to selecting the best candidate for the job.

12





10. DIGITAL AND COMPUTATIONAL DESIGN TOOLS

Un petit texte introductif



11. INTERIOR CONSTRUCTION COURSES

Un petit texte introductif



Interior construction Drawings

Maryam's Villa Project

CONSTRUCTION DRAWING AND INTERIOR DETAILING
B.A. INTERIOR DESIGN INDS 312 2022-2023 ARCH. DEPARTMENT



Drawing List	
Sheet Name	Sheet Number
Cover	A00
Ground Floor Plan	A001
Ground Furniture Plan	A002
Basement Floor	A003
First Floor	A004
Roof Floor	A005
Zoning	A006
Section 1-1	A007
Section 2-2	A008
Section 3-3 & 4-4	A009
Ground & First Ceiling Plan	A010
3D & 2D Details	A011
Schedules & Solar Study	A012
Calculation of the Surface of each interior space	A013
Ground Floor Power	E201
Ground Floor Lighting	E202
Basement Floor power	E203
Basement Floor Lighting	E204
First Floor Power	E205
First Floor lighting	E206
Roof Floor Power	E207
Roof Floor Lighting	E208
Ground AC & Outdoor Units	M301
Basement AC & Outdoor Units	M302
First AC & Outdoor Units	M303
Roof AC & Outdoor Units	M304
Structural Columns Plan	S101
Structural Slabs Section	S102
Structural Foundation plan	S103

A00

DRAWING TITLE: Cover

PROJECT NAME: Maryam's Villa

Presented by: Maryam Alhebsi
ID: 2020004670



Maryam's Villa Project

CONSTRUCTION DRAWING AND INTERIOR DETAILING
B.A. INTERIOR DESIGN INDS 312 2022-2023 ARCH. DEPARTMENT



Drawing List	
Sheet Name	Sheet Number
Cover	A00
Ground Floor Plan	A001
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Basement Floor Lighting	E204
First Floor Power	E205
First Floor lighting	E206
Roof Floor Power	E207
Roof Floor Lighting	E208
Ground AC & Outdoor Units	M301
Basement AC & Outdoor Units	M302
First AC & Outdoor Units	M303
Roof AC & Outdoor Units	M304
Structural Columns Plan	S101
Structural Slabs Section	S102
Structural Foundation plan	S103

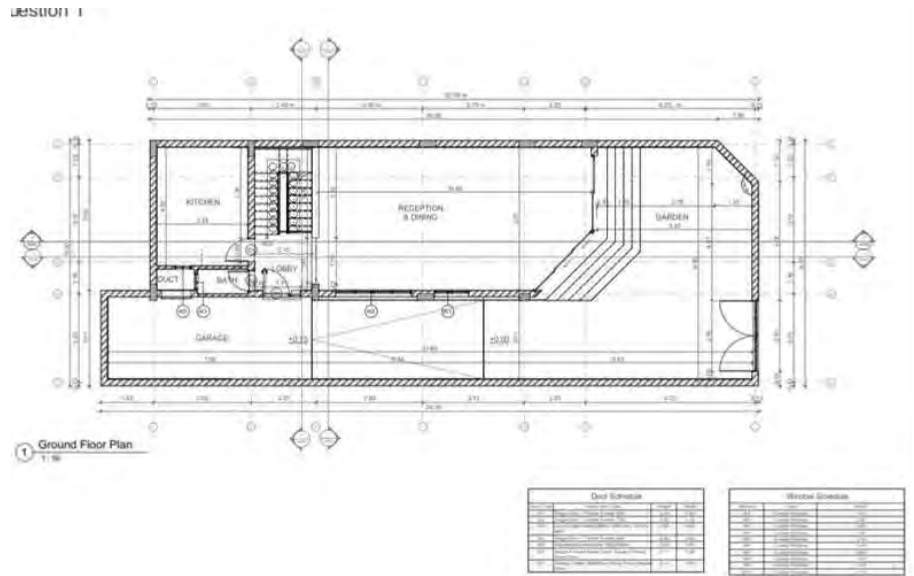
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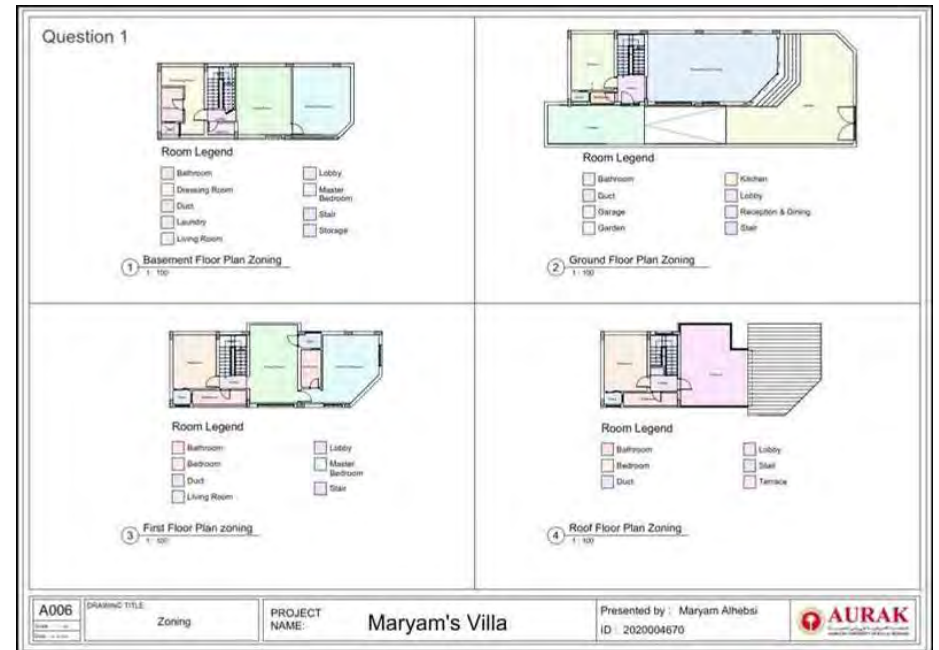
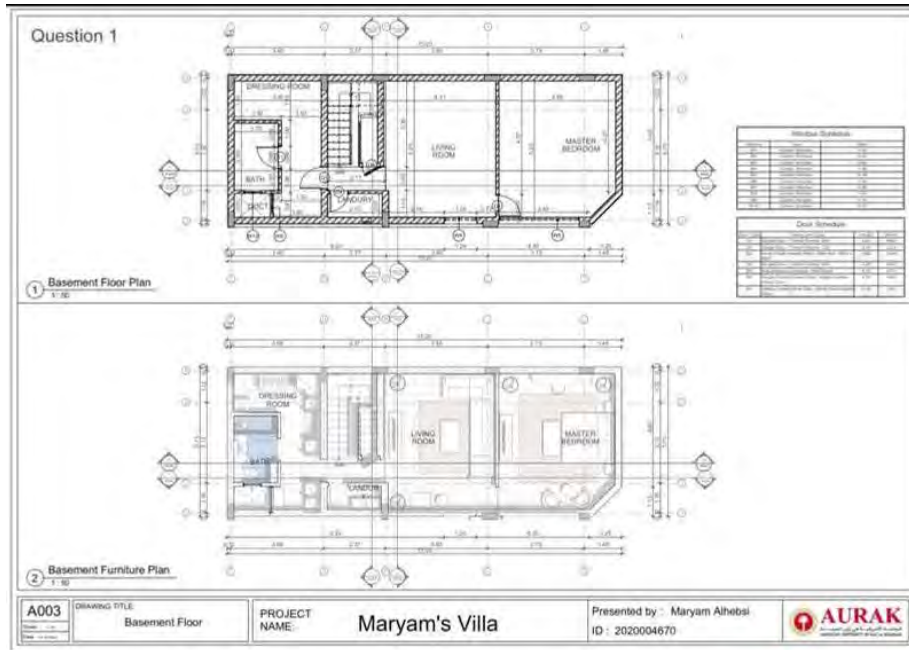
PROJECT NAME: Maryam's Villa

Presented by: Maryam Alhebsi
ID: 2020004670





Interior construction Drawings



Interior construction Drawings

Question 1

1 3D Exploded Model

2 3D Section 1

4 3D Ortho 1

5 Wall Section

Question 2

① Ground Power
1:50

SYMB.	DESCRIPTION	SYMB.	DESCRIPTION	SYMB.	DESCRIPTION	SYMB.	DESCRIPTION
	Distribution Board		One-Way Switch		Power Socket +2.40		20w Spot Light
	AC Split Unit		Two-Ways Switch		HV Power Socket		5w Spot Light
	Security Camera		Three-Ways Switch		Waterproof Power HV Socket		Shaft
	Ring Button		Deviator		Searchlight 150W		Heater
	Network Outlet		Power Socket +0.40		TV Outlet		Cameras DVR
	Telephone Outlet		Power Socket +1.20				Ceiling Chandelier

E201 DRAWING TITLE: Ground Floor Power

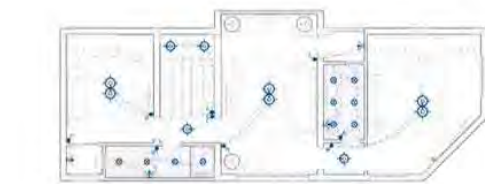
PROJECT NAME: Maryam's Villa

Presented by - Maryam Althebi
ID : 2020004670

AURAK
UNIVERSITY OF AL-QADISIYA

Interior construction Drawings

Question 2

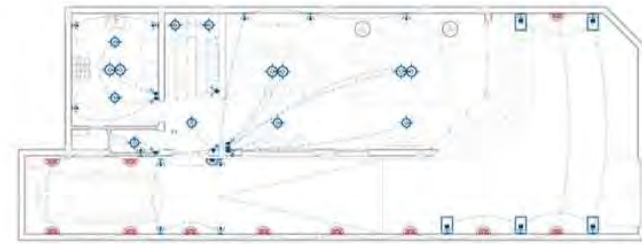


1 First Lighting
1:50

SYMB.	DESCRIPTION	SYMB.	DESCRIPTION	SYMB.	DESCRIPTION	SYMB.	DESCRIPTION
	Distribution Board		One-Way Switch		Power Socket +2.40		20w Spot Light
	AC Split Unit		Two-Ways Switch		HV Power Socket		5w Spot Light
	Security Camera		Three-Ways Switch		Waterproof Power HV Socket		Shaft
	Ring Button		Deviator		Searchlight 150w		Heater
	Network Outlet		Power Socket +0.40		TV Outlet		Cameras DVR
	Telephone Outlet		Power Socket +1.20		Ceiling Chandelier		

E206	DRAWING TITLE: First Floor lighting	PROJECT NAME: Maryam's Villa	Presented by : Maryam Alhebsi ID : 2020004670	
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Question 2



1 Ground Lighting
1:50

SYMB.	DESCRIPTION	SYMB.	DESCRIPTION	SYMB.	DESCRIPTION	SYMB.	DESCRIPTION
	Distribution Board		One-Way Switch		Power Socket +2.40		20w Spot Light
	AC Split Unit		Two-Ways Switch		HV Power Socket		5w Spot Light
	Security Camera		Three-Ways Switch		Waterproof Power HV Socket		Shaft
	Ring Button		Deviator		Searchlight 150w		Heater
	Network Outlet		Power Socket +0.40		TV Outlet		Cameras DVR
	Telephone Outlet		Power Socket +1.20		Ceiling Chandelier		

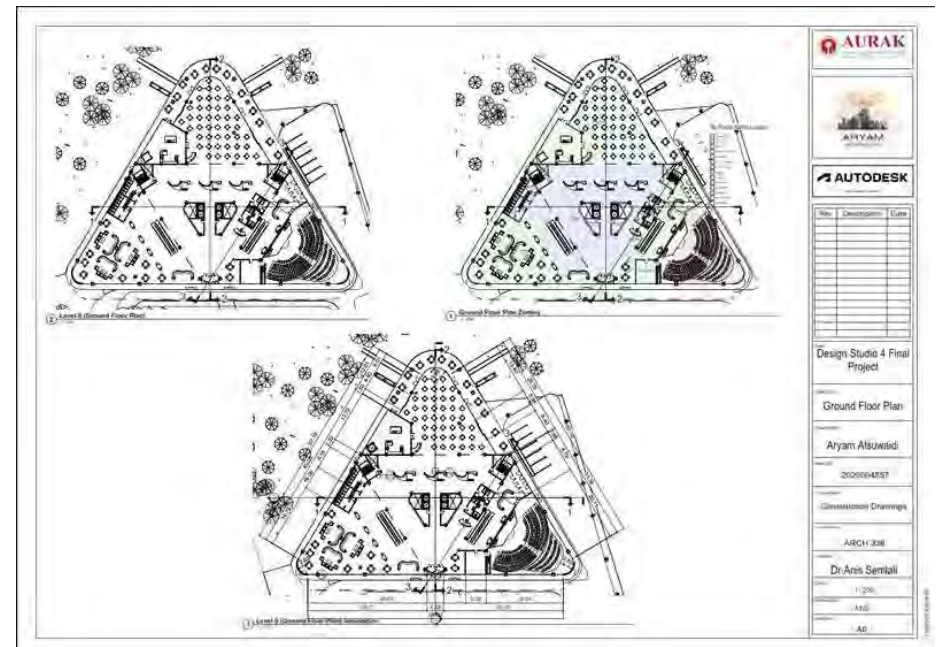
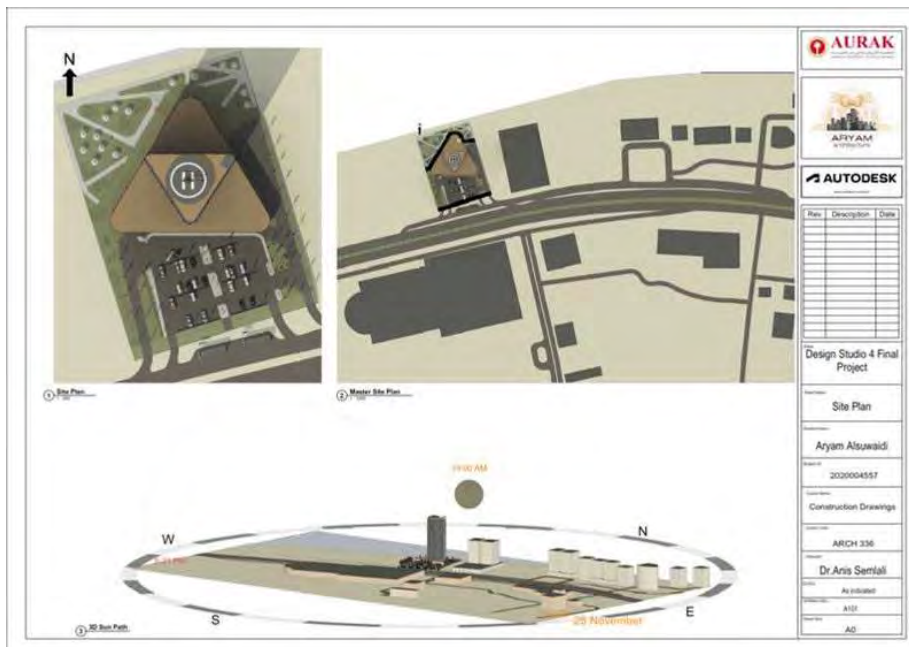
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12. ARCHITECTURE CONSTRUCTION COURSES

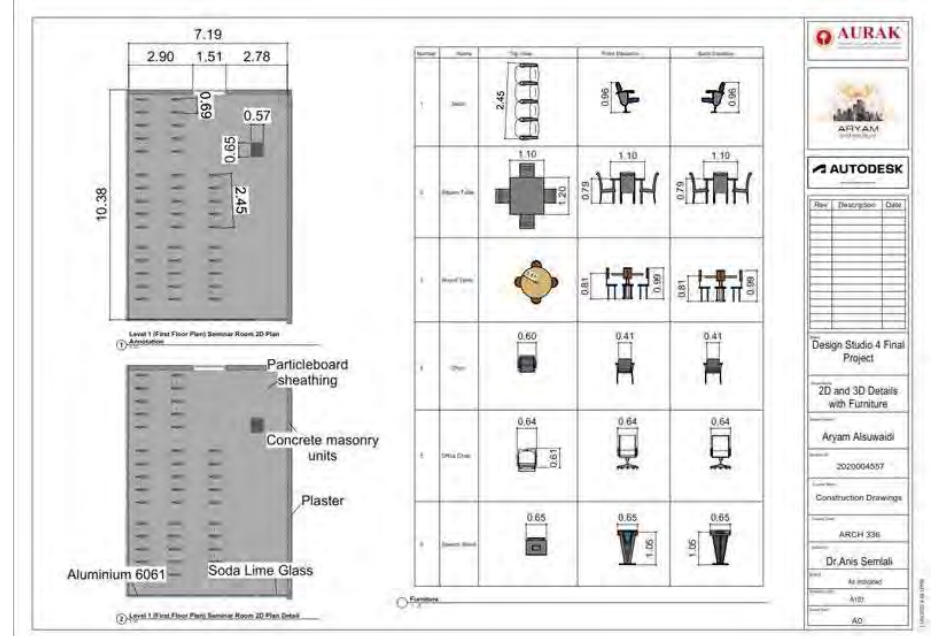
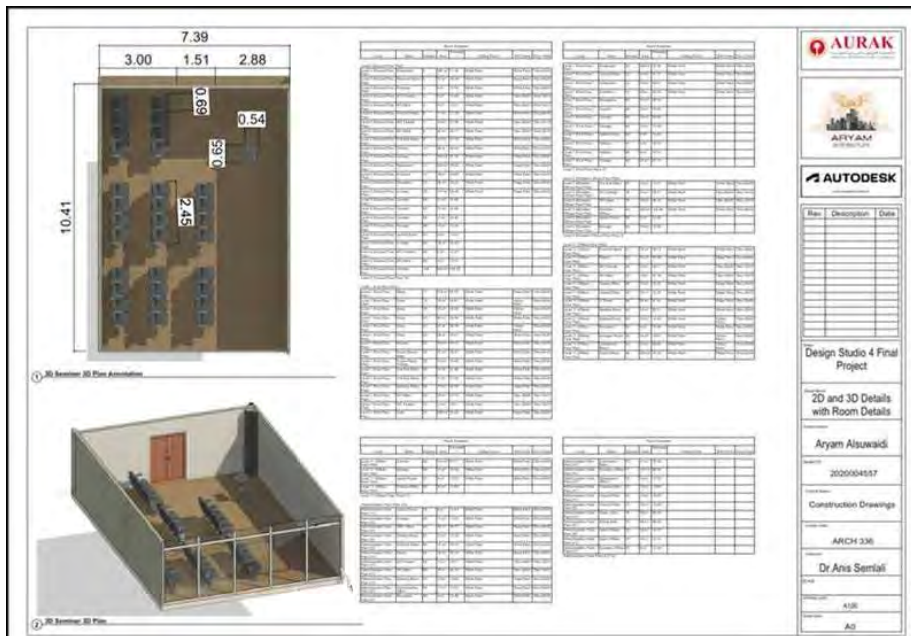
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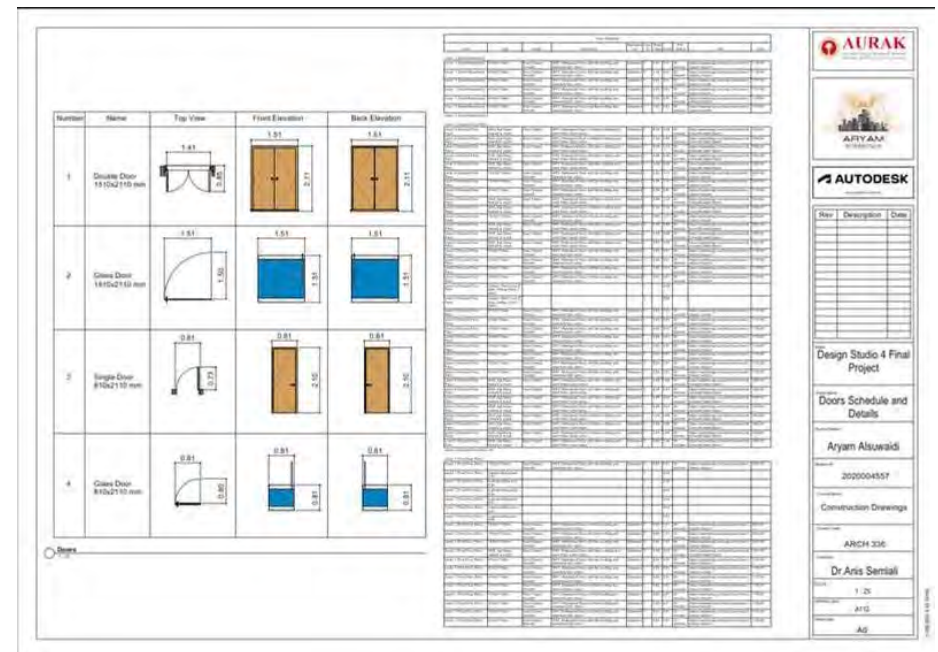
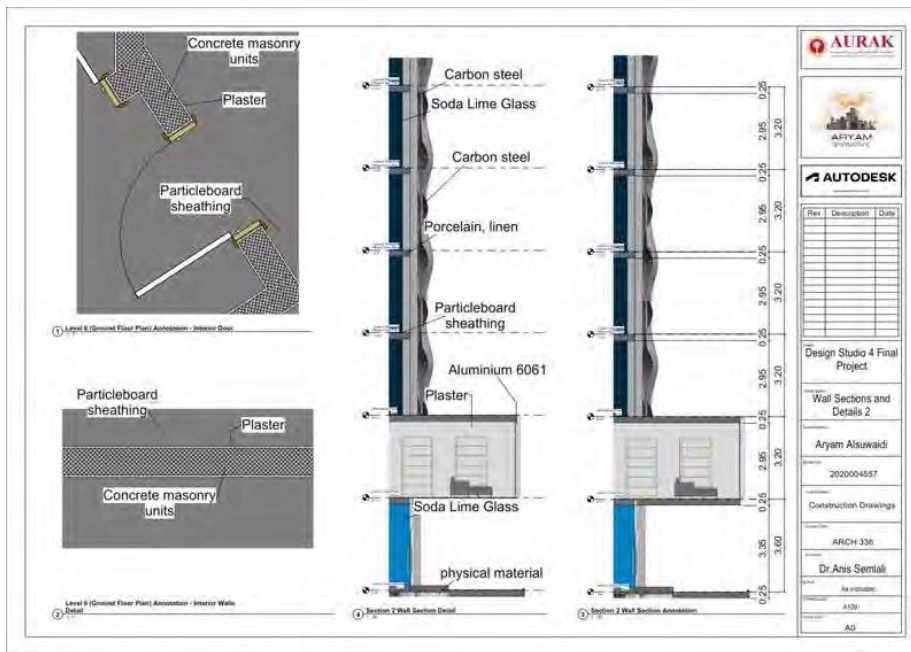
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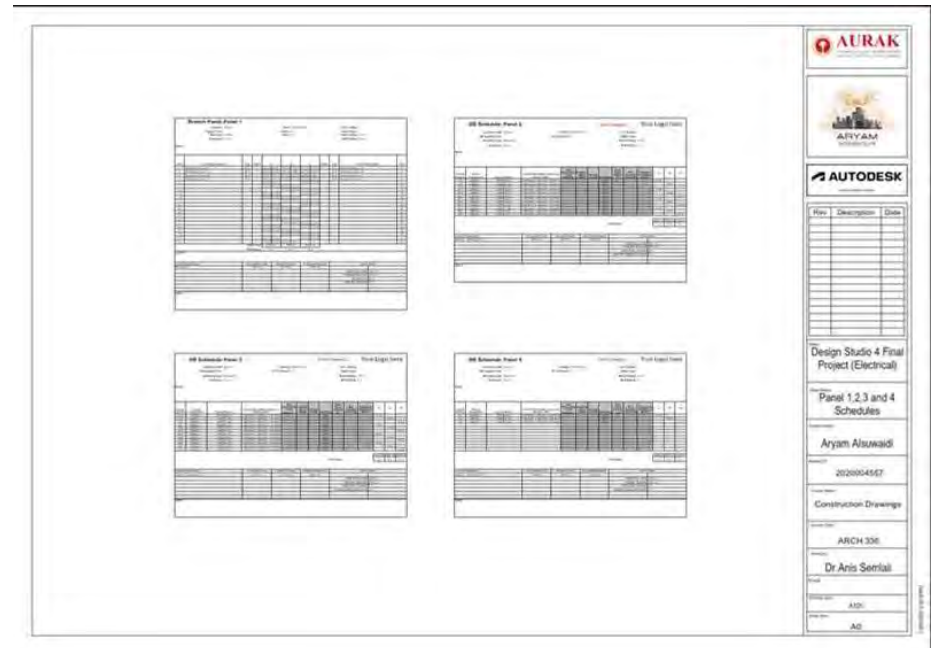
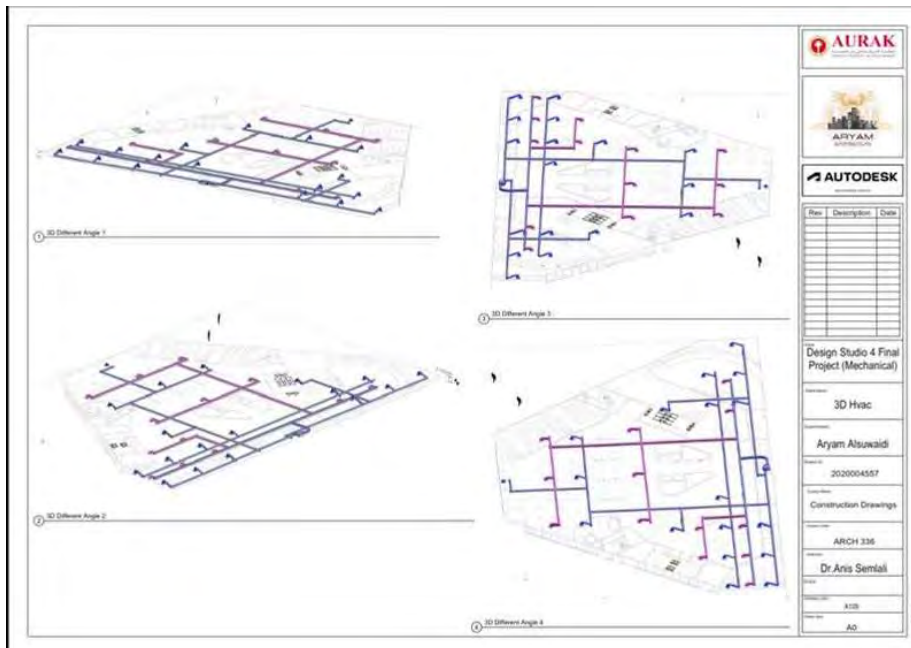
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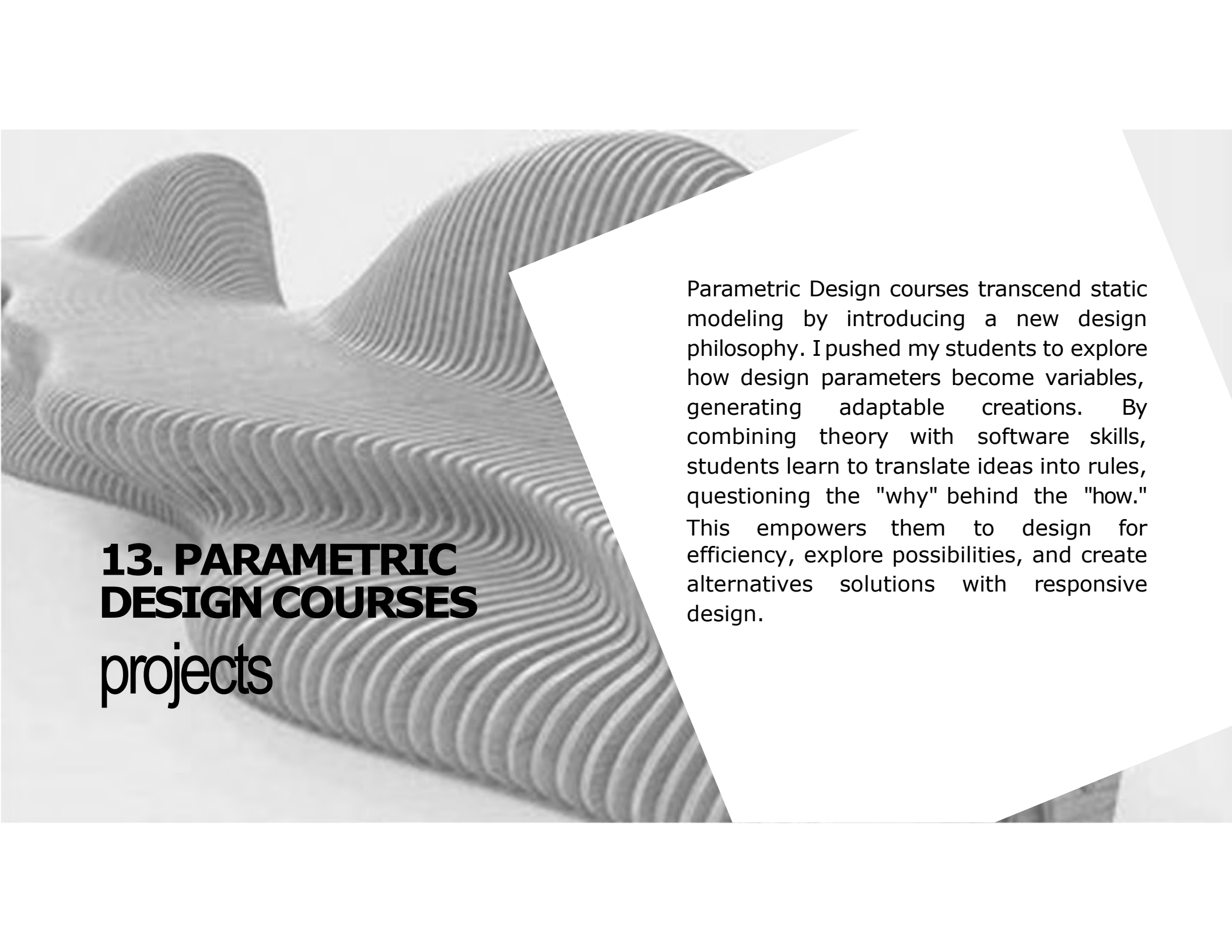


Architecture construction Drawings



Architecture construction Drawings

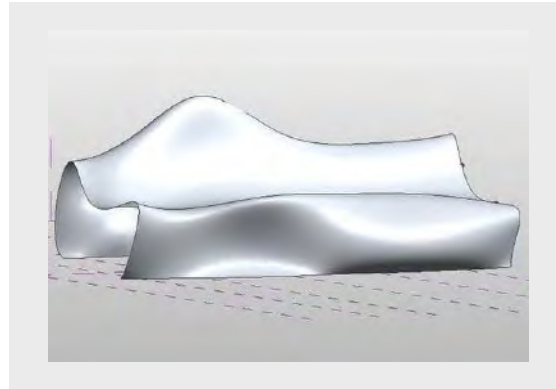
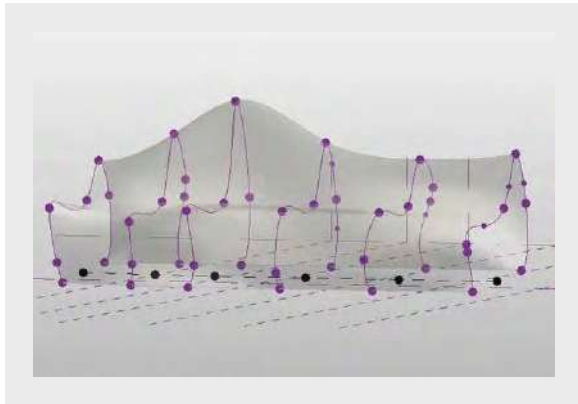
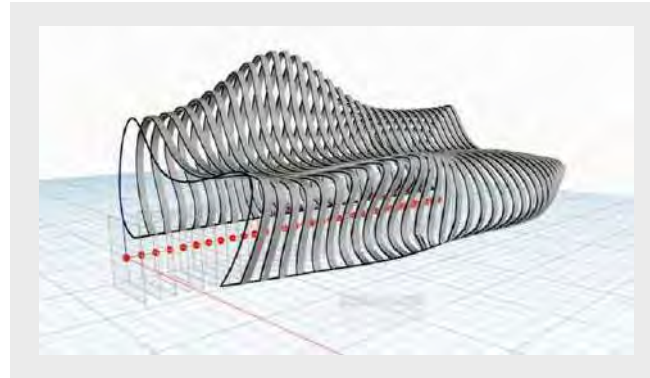
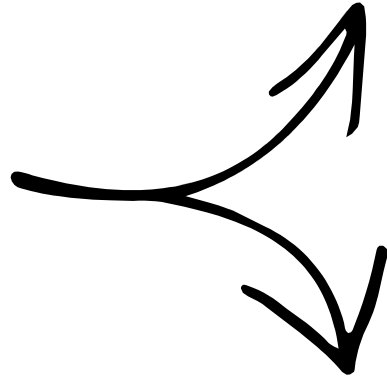


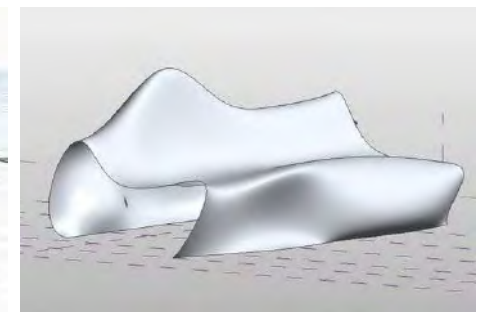
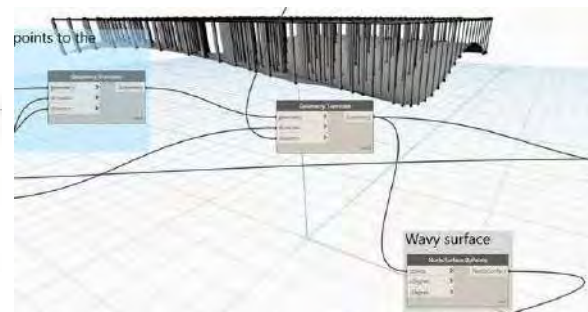
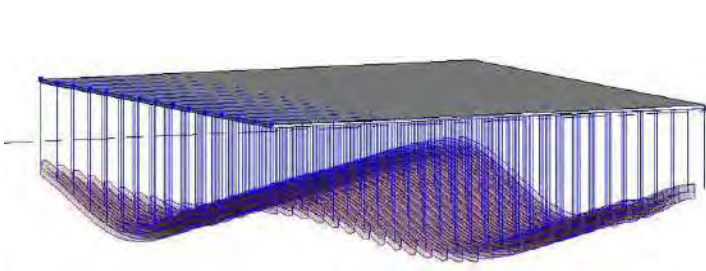
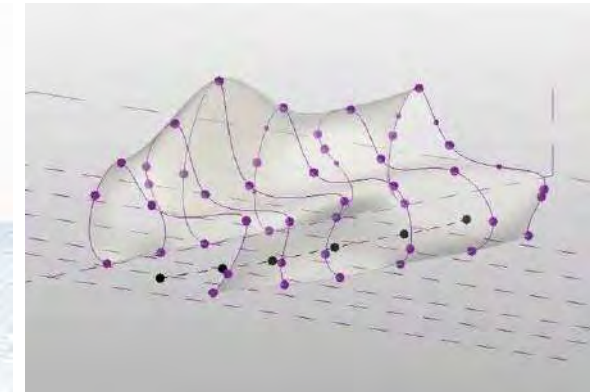
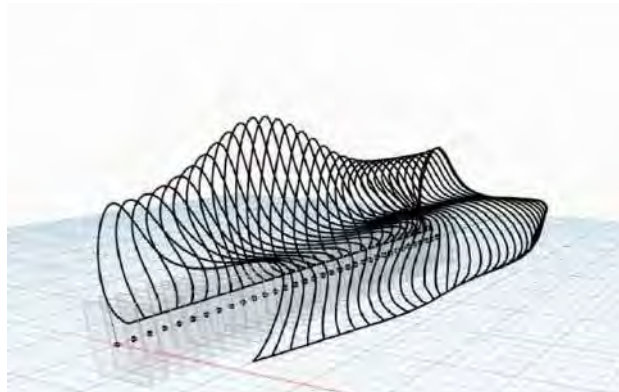
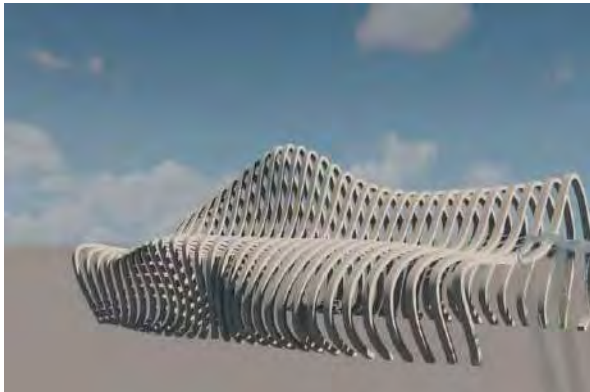


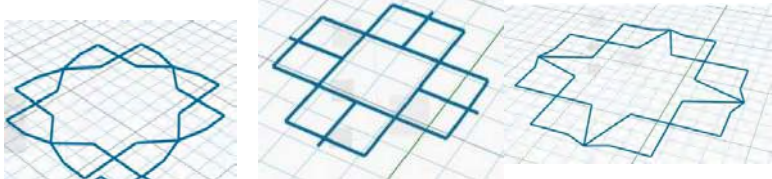
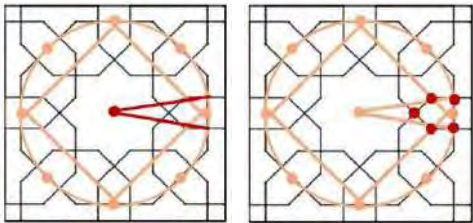
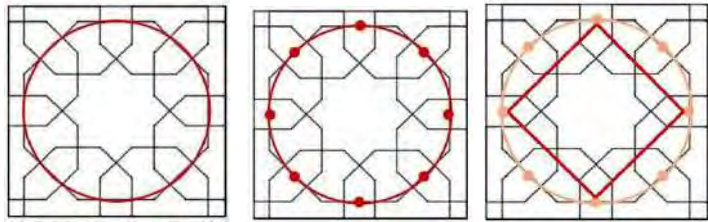
13. PARAMETRIC DESIGN COURSES

projects

Parametric Design courses transcend static modeling by introducing a new design philosophy. I pushed my students to explore how design parameters become variables, generating adaptable creations. By combining theory with software skills, students learn to translate ideas into rules, questioning the "why" behind the "how." This empowers them to design for efficiency, explore possibilities, and create alternative solutions with responsive design.



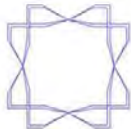




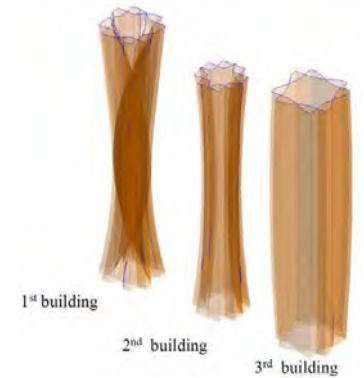
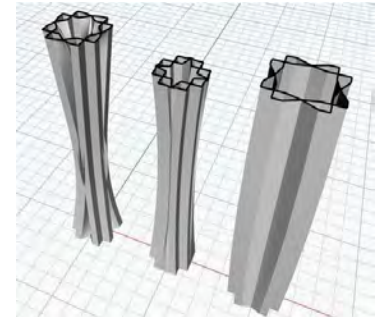
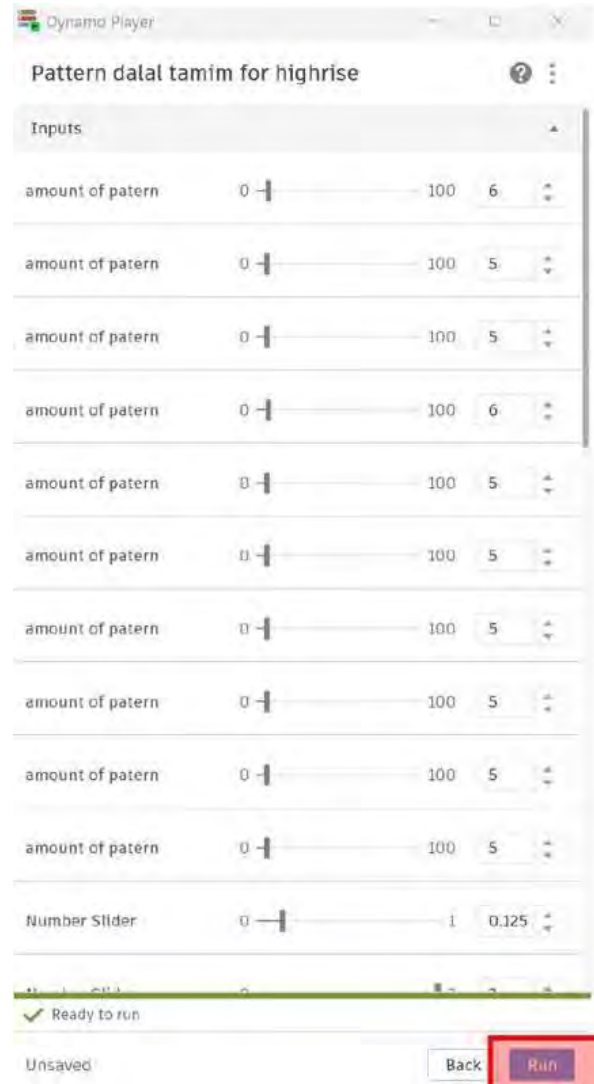
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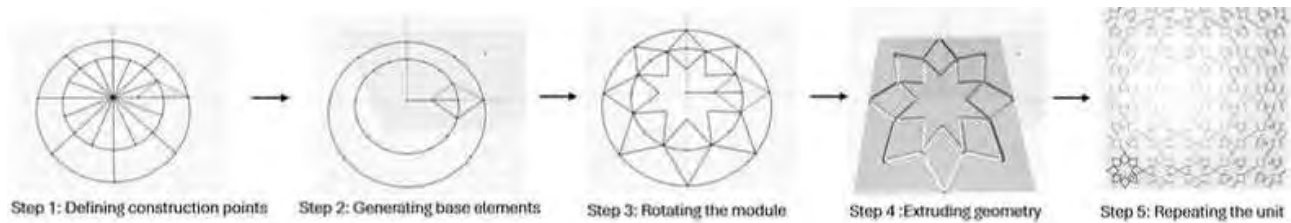
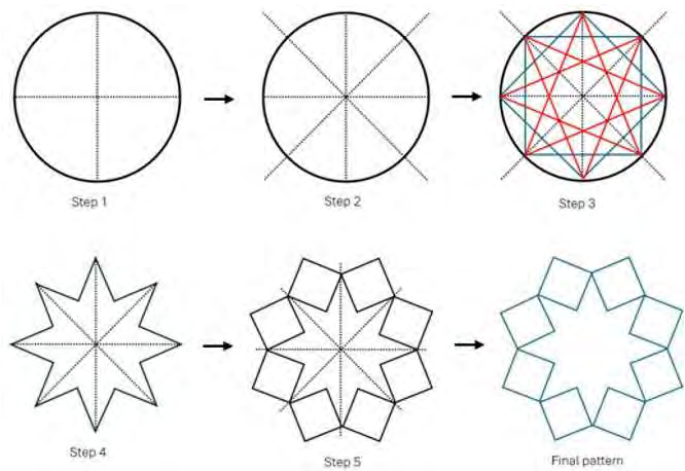
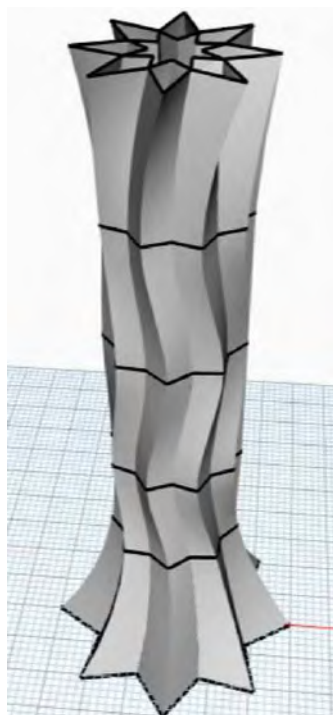
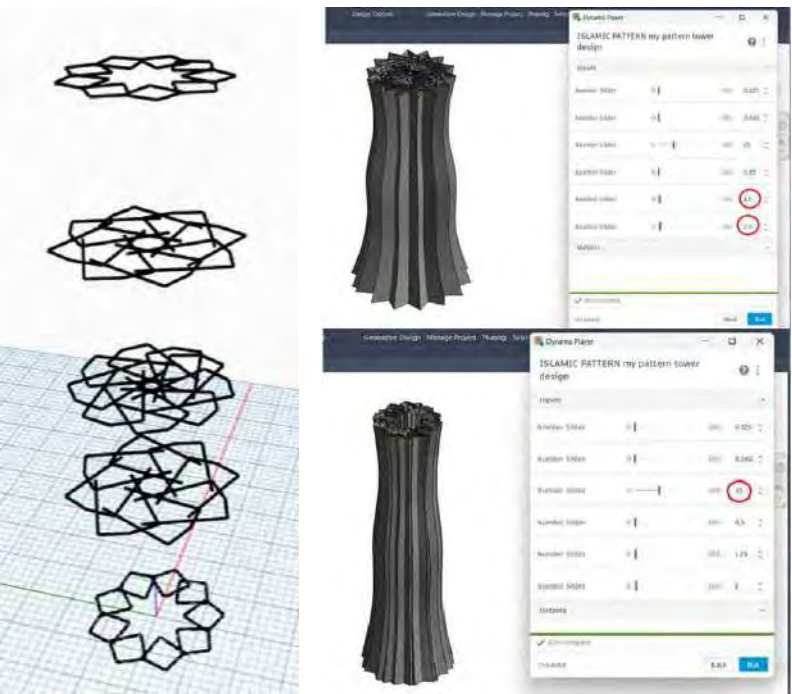


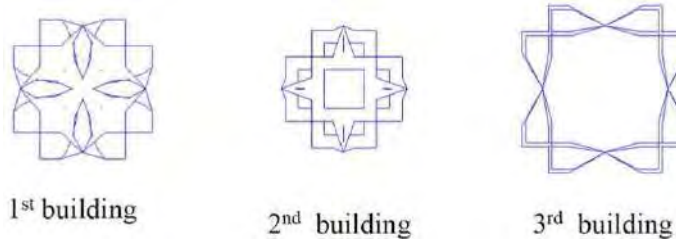
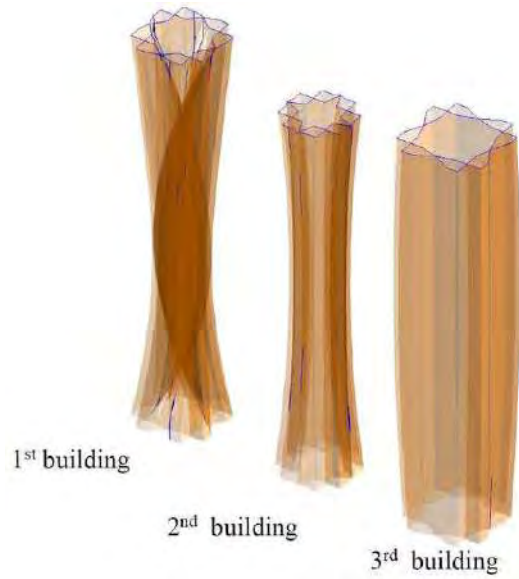
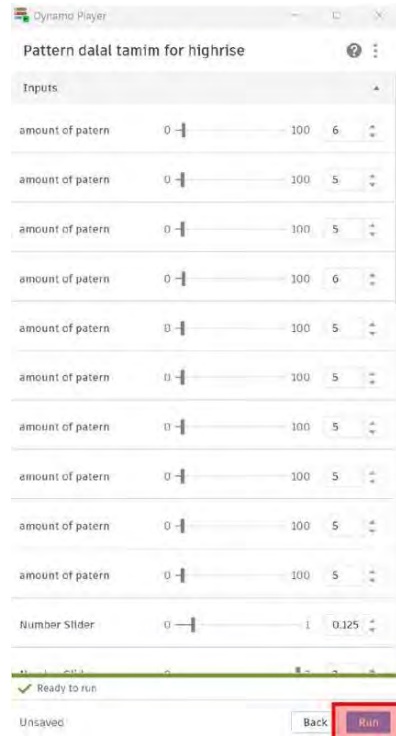
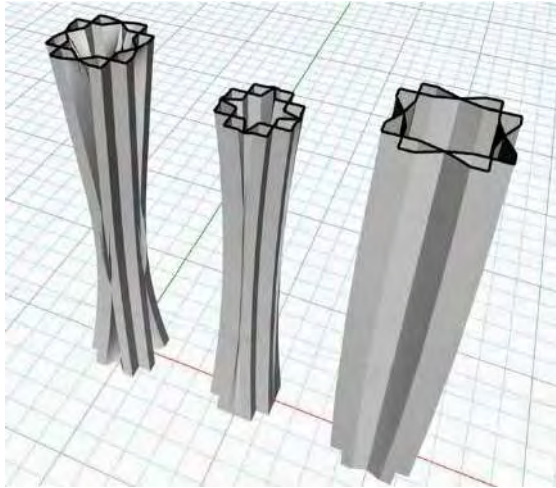
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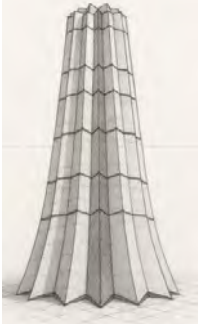
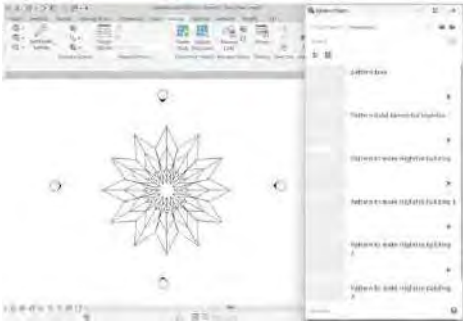


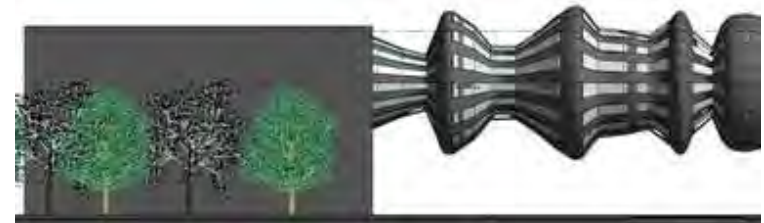
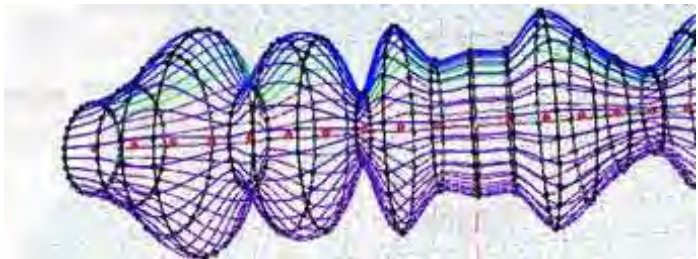
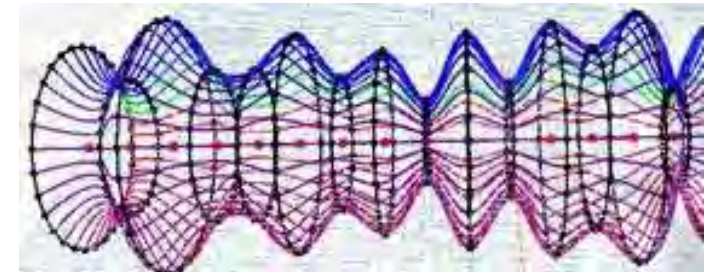
3rd building



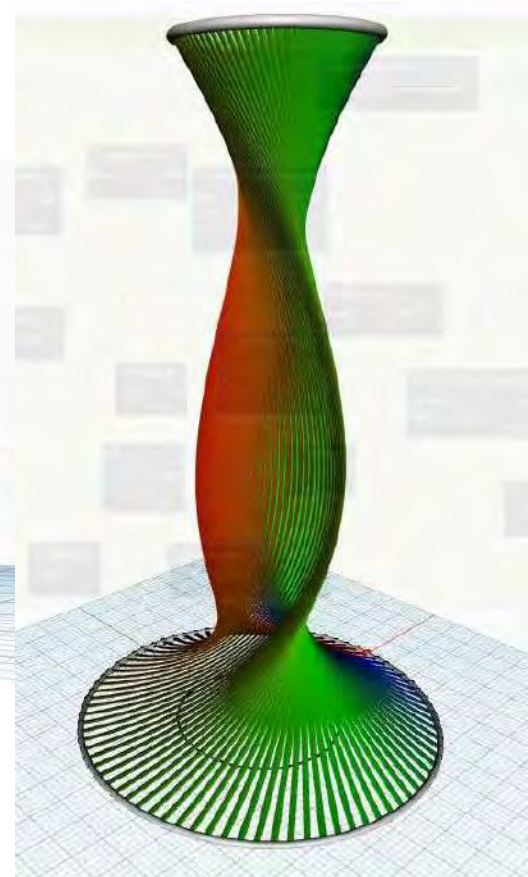
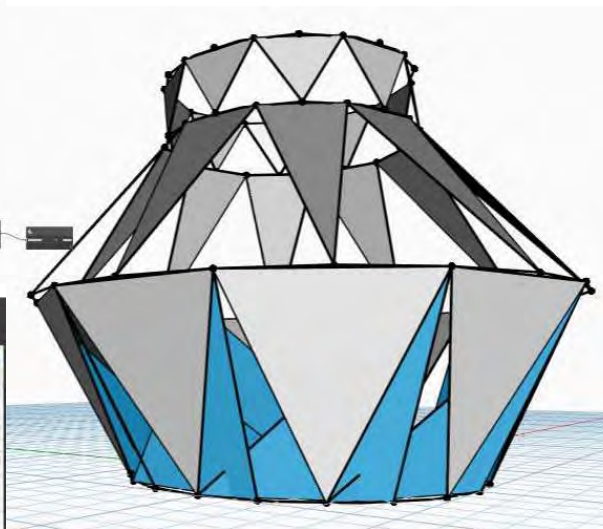
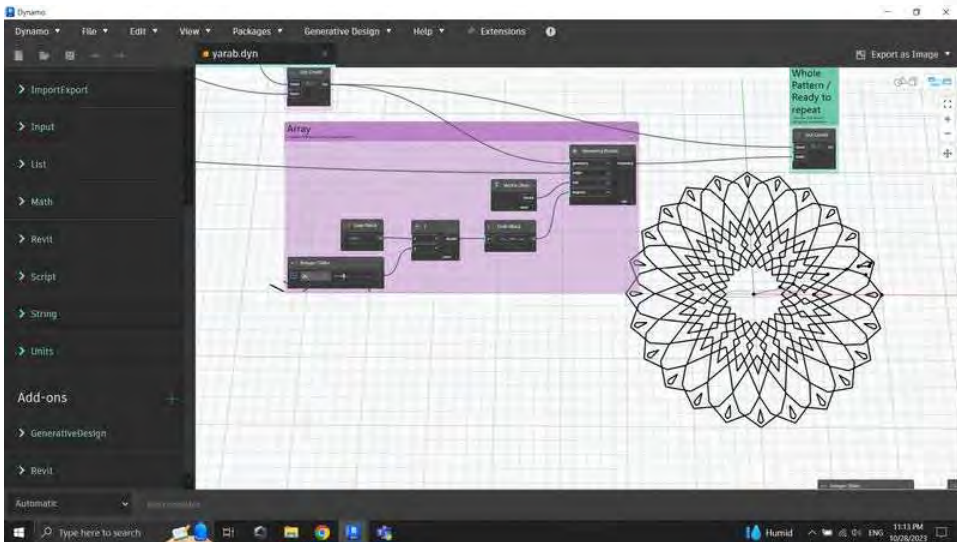
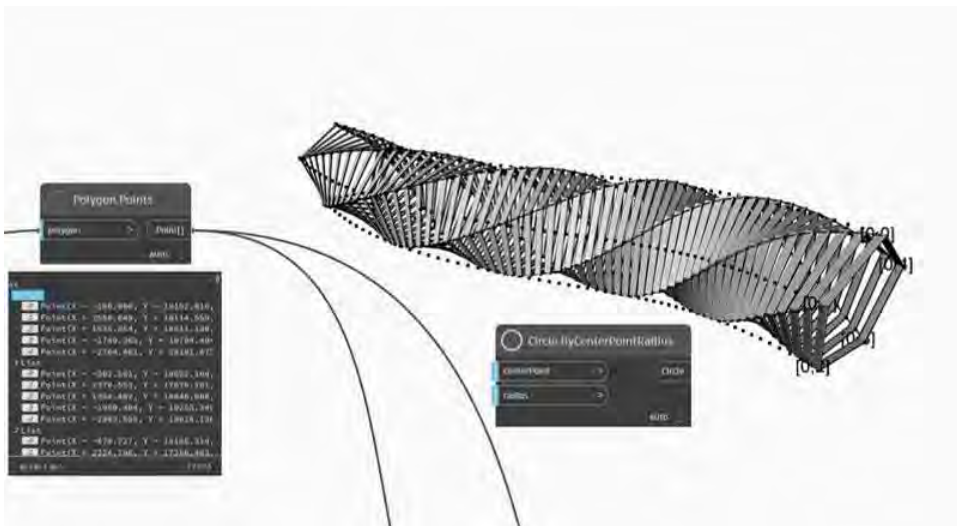


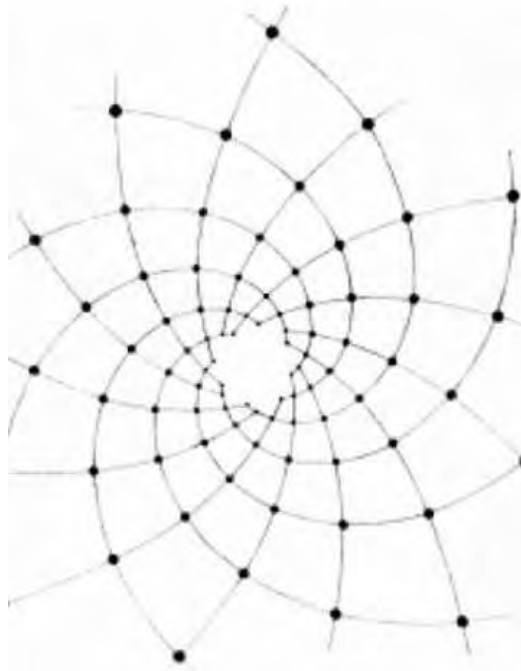
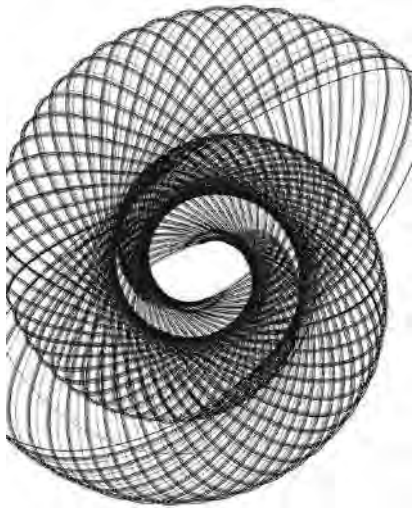
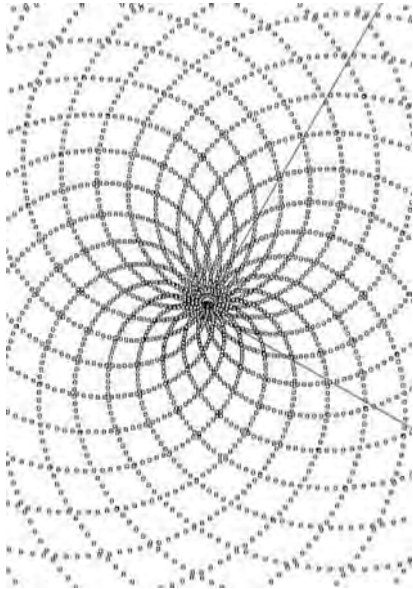




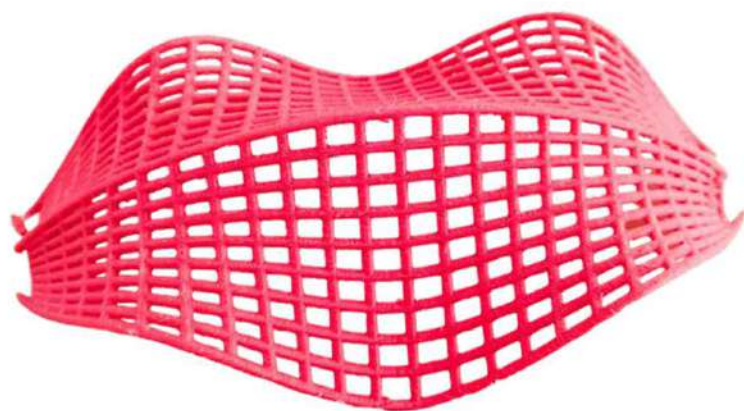


PROJECTS

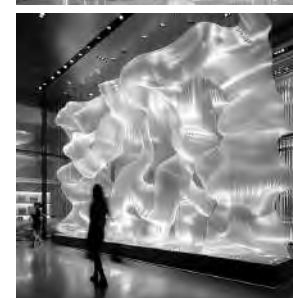
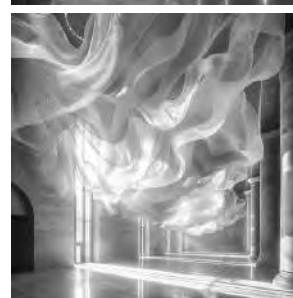












15. ARCHITECTURE DESIGN STUDIO 5

projects

Un petit texte introductif

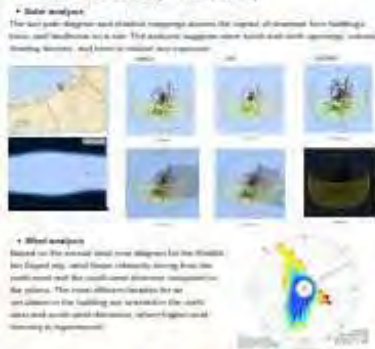


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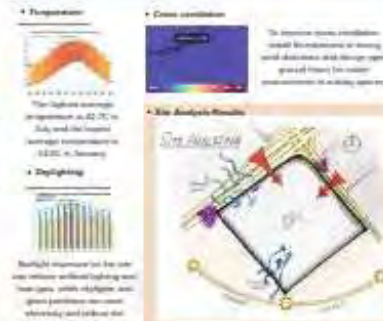
Micro Site Analysis - SWOT Analysis



Site Planning Strategies (analysis results)



Site Response



Environmental & Technological Strategies

Sustainability Concepts and Resources



Materials & Building Technique Considerations



Morphological Study

Based on the first design alternative (from 5.2.3), a series of space arrangements are suggested progressively to test how these elements can relate in the most suitable manner based on the sun orientation in design in the north direction, good wind direction providing visual connection and social integration.

Concepts

Concept 1

A form that provides a central area for promoting activities.



Concept 2

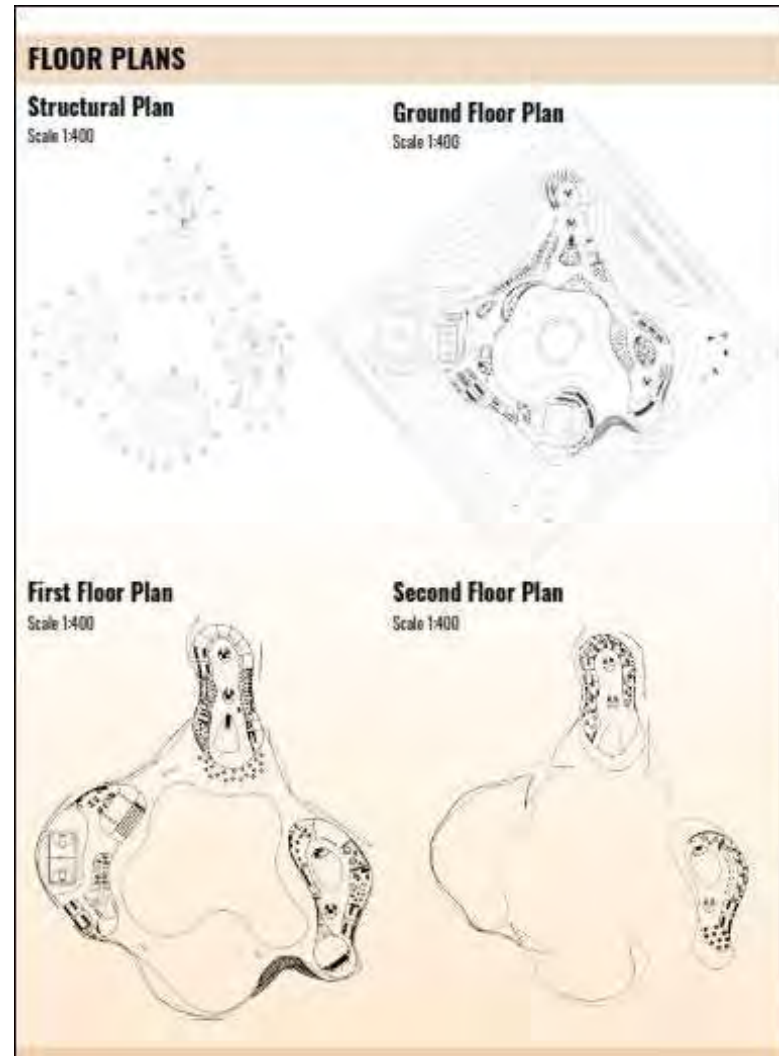
Design that attracts attention by emphasis.



Concept 3

Design that integrates into the surroundings.





DESIGN INTEGRATION

Environment Impact

Permeable pavement



Low E glass

The low-E glass coating minimizes infrared heat transfer, reducing energy consumption for air conditioning.

Economic Impact

On-site energy generation

Modular elements

(Tower vehicles and modular furniture)

Construction cost and time reduced

Green roof

Roofs are of high reflectance with acrylic coating reflecting more sunlight than conventional roofs. Vegetated roofs.

Open space percentage

Green space: 25% (on-site open space) + 10% (on-site open space) + 10% (on-site open space) = 45% (on-site open space)

Social Impact

Improved Community benefits

Opportunities for on-site users to learn, grow, and connect through coexisting spaces also organizes community events such as community events, workshops, seminars, and social events.

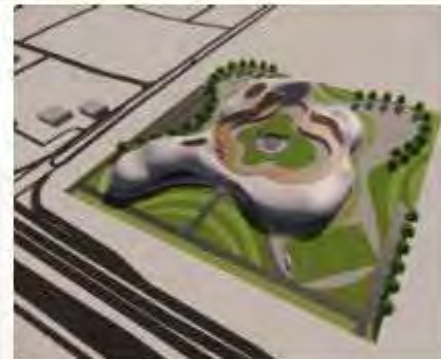
Enhanced Users Wellbeing and Experience

- Controlable environment through Exterior visual transparency (Traffic noise is reduced by planting trees and vegetation acting as noise buffers) and Interior noise transparency (Soundproof walls with insulation panels to prevent any unwanted noise transmission into the interior environment from the outdoors).
- Visual Pleasant views of the landscape reduce and label jobs in the north for all indoor spaces.

Improved Community Health

Encourage walking and outdoor entertainment

3D shots



ELEVATIONS



East Elevation



North Elevation

SECTIONS



Section 1



Section 2

CONSTRUCTION DETAILS



Exterior

Plant

Concrete

Al

Interior finish

Interior



Exterior

Concrete

Interior finish

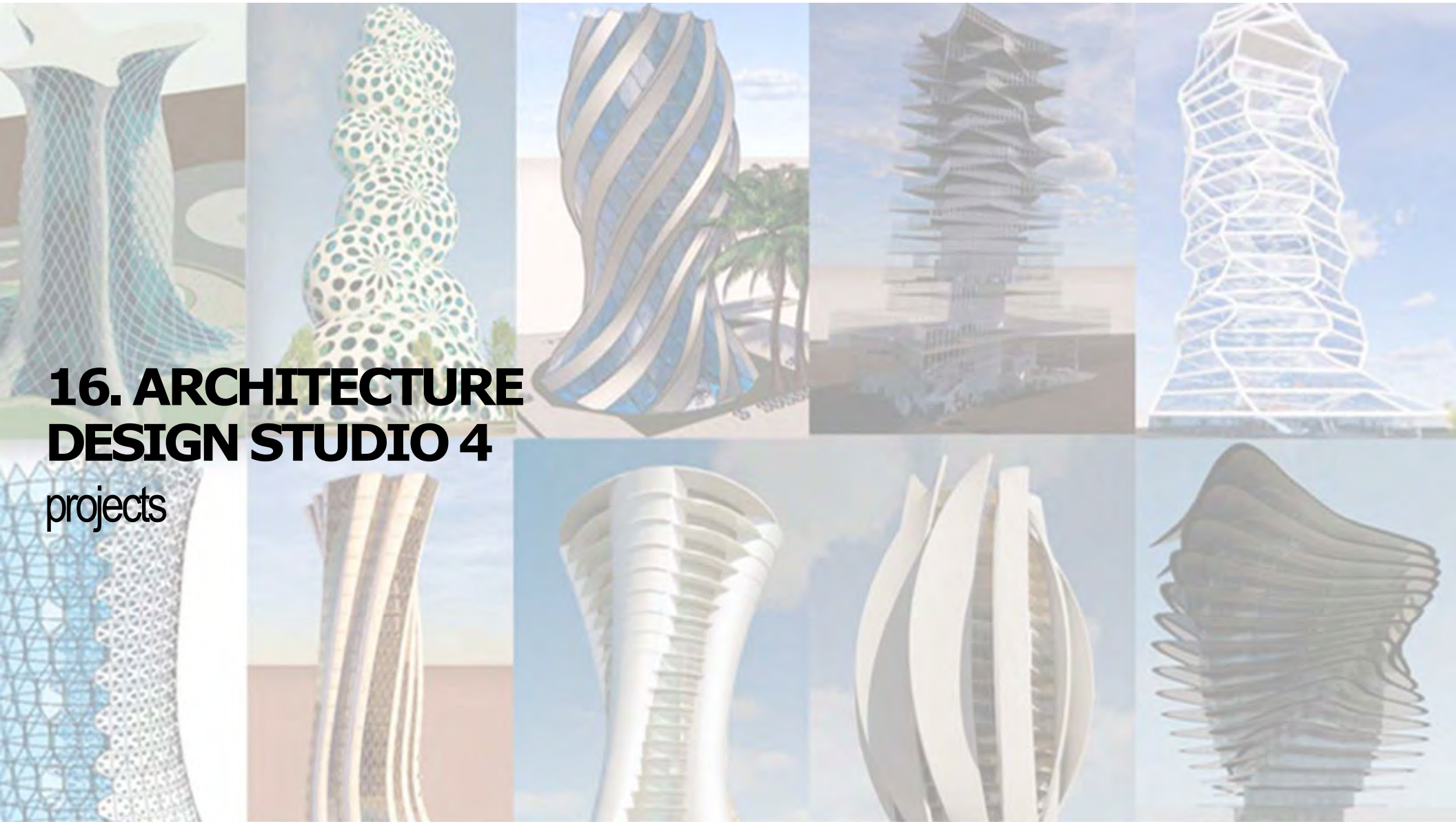
Interior

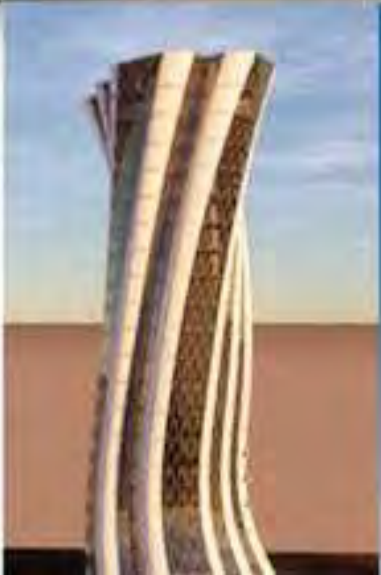
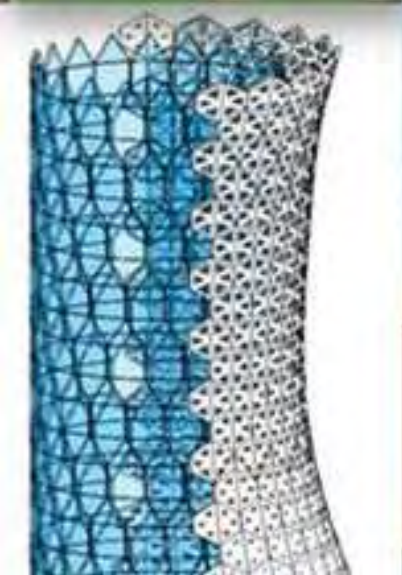
Plan Details									
Room	Area	Level	Code	Material	Finish	Notes	Notes	Notes	Notes
Room 1	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 2	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 3	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 4	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 5	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 6	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 7	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 8	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 9	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000
Room 10	1000	1st	100	Concrete	Smooth	1000	1000	1000	1000

Scale 1:10

16. ARCHITECTURE DESIGN STUDIO 4

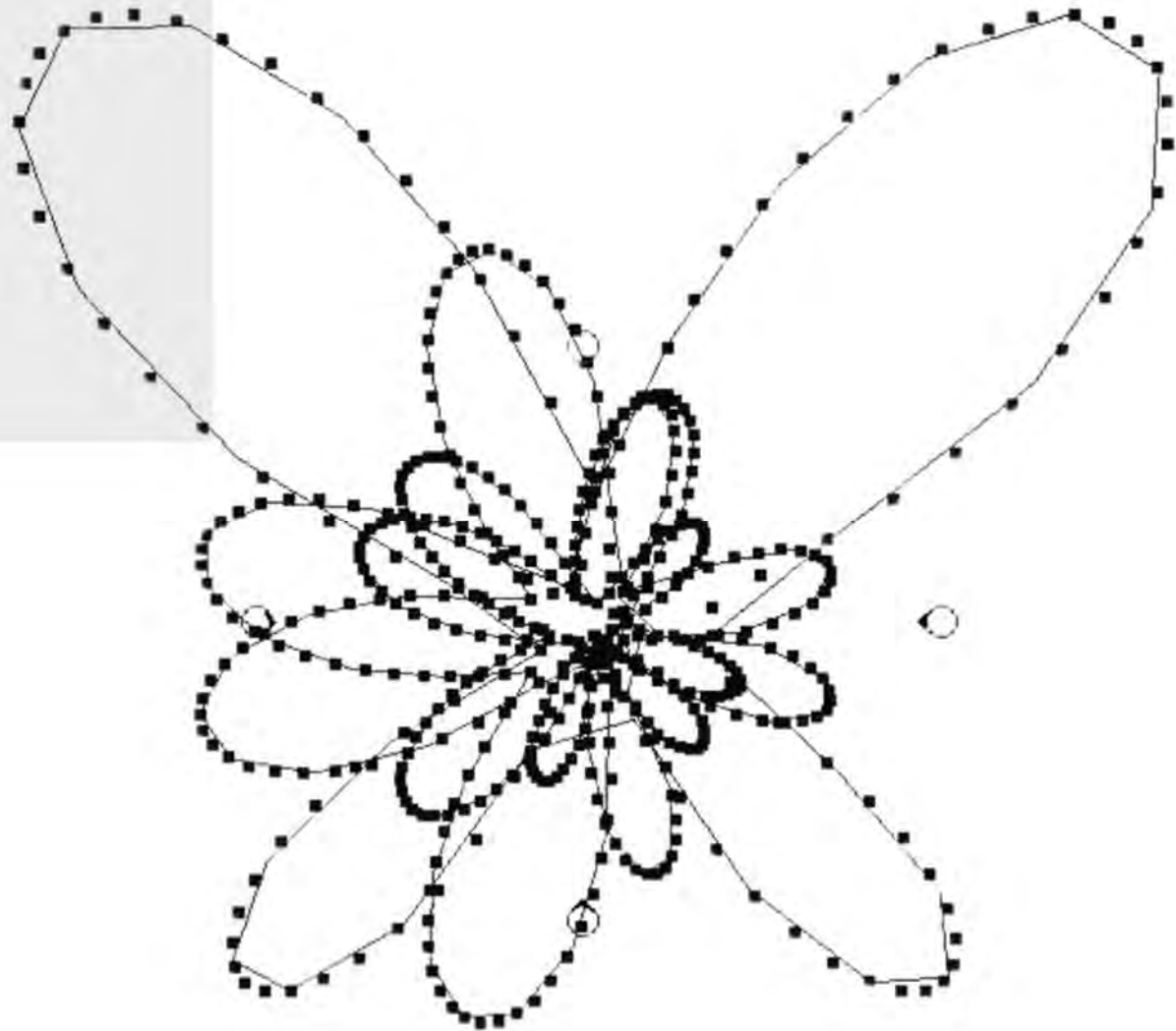
projects



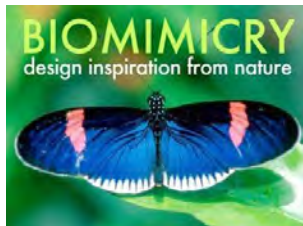


PROJECT 01

Arch. studio 4
Exploring Biomimetic in Highrise Architecture:
The butterfly as inspiration
Revit & Dynamo



1. Introduction to Biomimetic Design



2. Phase1-Understand

- Understand
- Analyze
- Design attributes and parameters



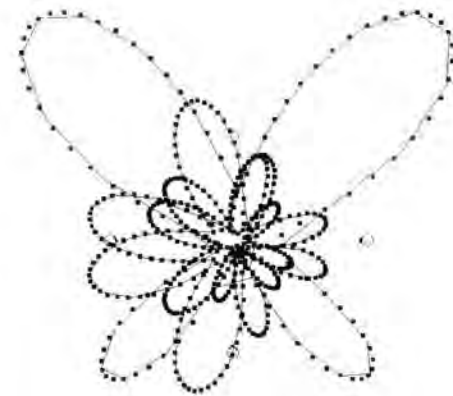
3. Phase2 : Implement

- Build parametric model
- Enable multiple design responses
- Anticipate different types of variations to explore

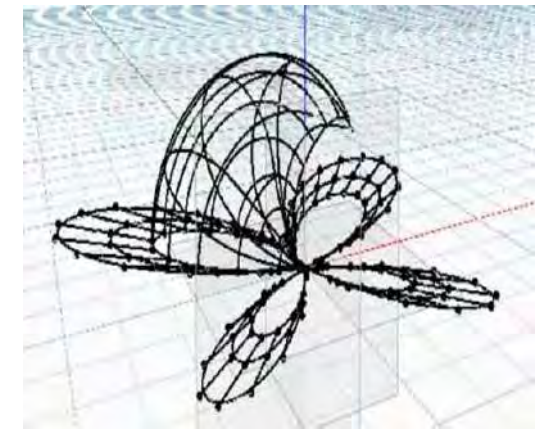
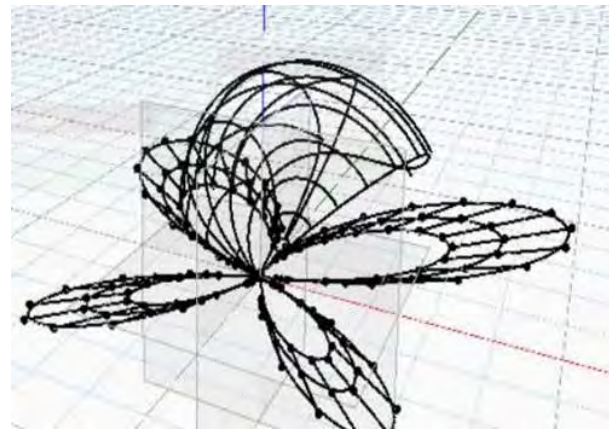
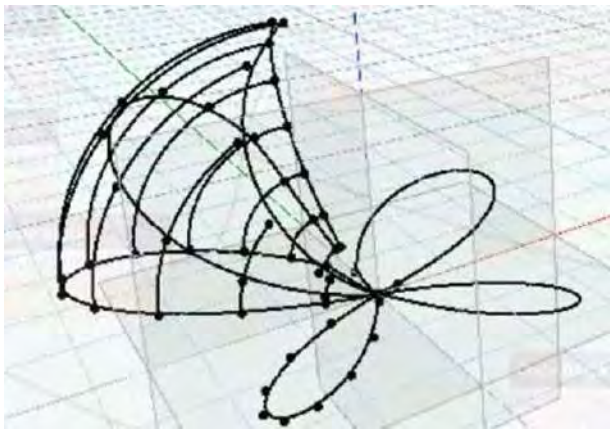
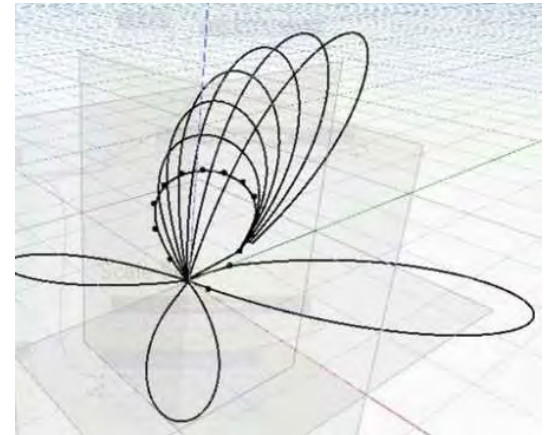
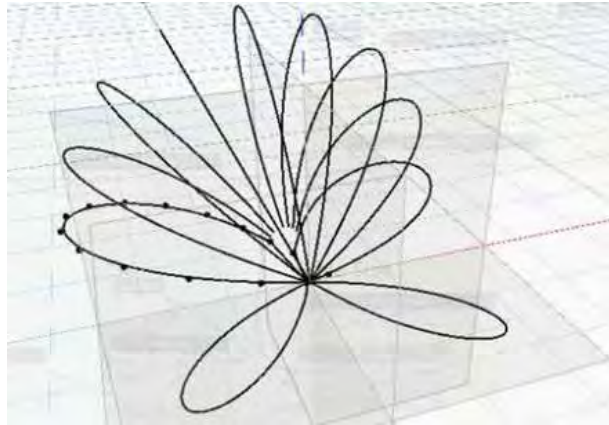
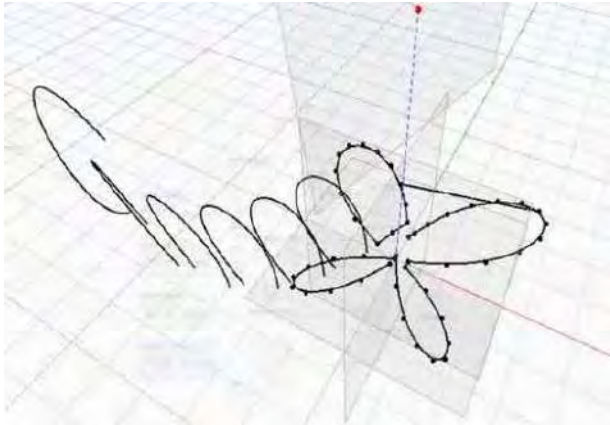


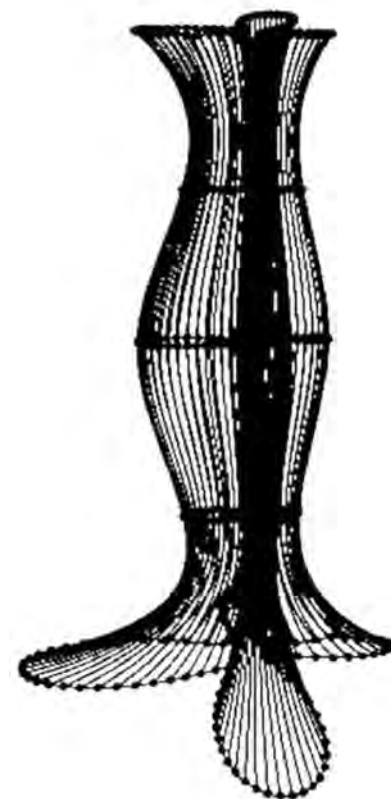
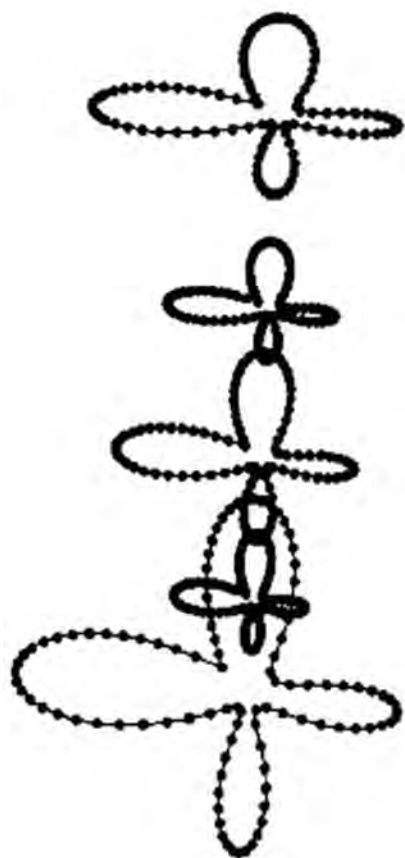
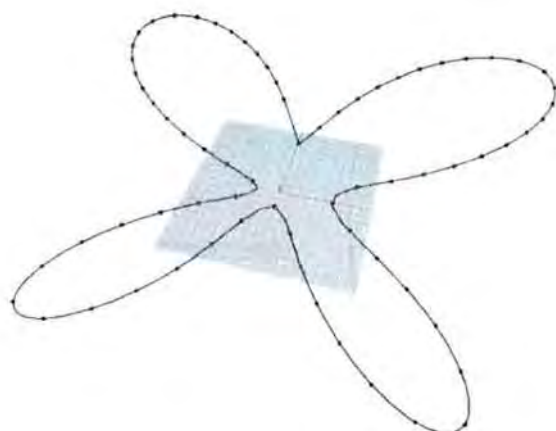
4. Phase3: Simulate

- Define data
- State the parameters, factors and constraints
- evaluate and compare the results

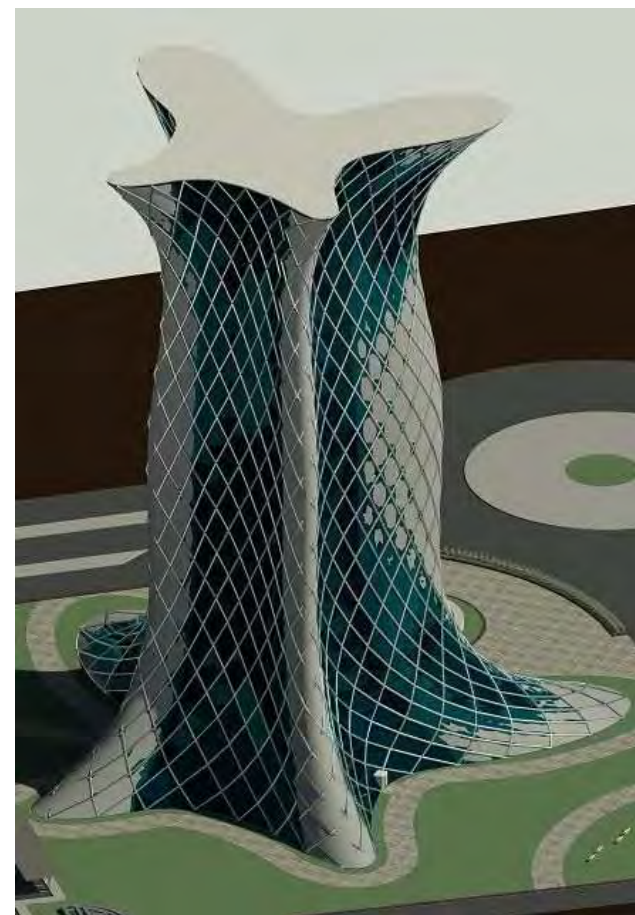
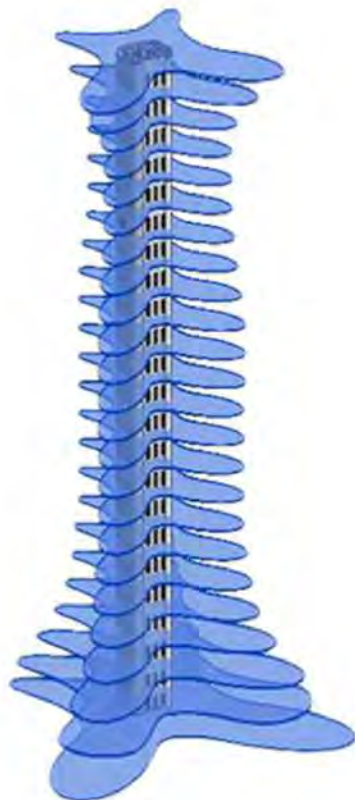
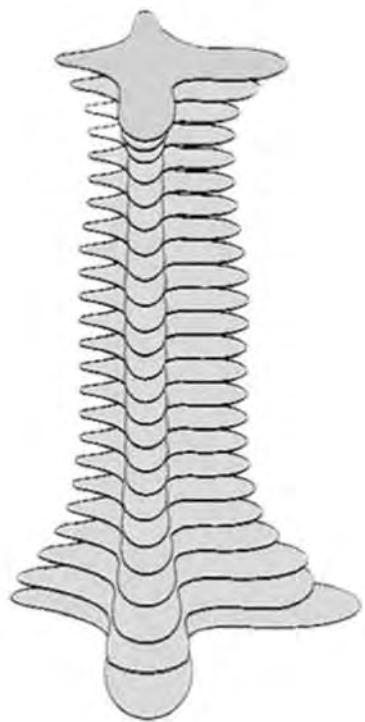


5. Discussion









THANK YOU

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