Architectural Design and Artificial Intelligence Workshop/Competition

Design of the Center for Emerging Technologies at the University of Tehran



Dr. S. Yahya Islami
Dr. S. M. Ali Eslami
Dr. Morteza Rahbar
Dr. Ali Goharian
Dr. Hamed Mazaherian
Dr. Katayoun Taghizadeh

Instructor:
Eng. Farshad Shariatpour
Dr.S. Sedigheh Mirgozar Langaroudi

Moderator:
Eng. Shadan Masoud

Mentors:
Eng. Mahsa Zahedi
Eng. Fatemehzahra Zarifrad
Eng. Azin Pourseyedi
Eng. Fatemeh Malmir

2025

Workshop Topic: Architectural Design and Artificial Intelligence

Topic: Design of the Emerging Technologies Center, University of Tehran

Background & Objective:

The University of Tehran stands at the forefront of scientific excellence and innovative research in Iran. With the growing demand for interdisciplinary collaboration and advanced technological exploration, there is an urgent need for a dedicated space that fosters creativity, innovation, and progress. The proposed Emerging Technologies Center (ETC) aims to become a dynamic hub where students, researchers, and industry leaders converge to learn, develop, and implement cutting-edge technologies in areas such as Artificial Intelligence, Structural Systems, Nanotechnology, Mechatronics, and more. The challenge is to design a center that embodies the spirit of innovation and collaboration while being sensitive to the environmental, social, and architectural context of the University of Tehran. The center should act as a catalyst for interdisciplinary research, public engagement, and knowledge exchange between academia and industry.

Design Objectives:

-Align with the architectural identity of the University campus
-Integration of advanced and innovative technologies
-Implementation of sustainable architectural strategies
-Harmonious connection to the surrounding environment

Location:

Chitgar lake, District 22, Tehran, Iran

Submission Requirements:

One vertical poster (50 x 62.5 cm) including:
-Design process and graphic thinking (presentation layout)
-At least one or two exterior renderings, and one interior rendering
-A short narrative (maximum 500 words) describing the design concept and how -the challenges were addressed

Participating Teams

Team 1

Motahare Yazdekhasti
Anahita Moradi
Fataneh Shoghi

Team 2

Mehrana Matin
Golnar Safari
Mohammad Rostamzadeh

Team 3

Setayesh Zamani
Mina Najib
Maryam Sheikholeslam
Taravat Fardhosseini

Team 4

Afarinesh Hassanzadeh
Rozhina Tahami
Homa Heidarian

Team 5

Zahra asadi
Leila karami baghteyfoni
Faezeh najjari seresht

Team 6

Maryam Pakdel
Maedeh dadashpoor
Sana Kazei
Ghazal Mahdavi Naderi

Team 7

Maneli Sotoudeh
Farzaneh Shahmoradi
Niki Ghaderi
Arian Mahmodian

Team 8

Melika baniasadi
Mahmod Talebin
Keyvan Tayari

Team 9

Mina Vahabi
Ali Vaseghi

Team 10

Himan Saberi
Mahsa Zangeneh
Alireza ZarrinVafi

Team 11

Maede karimi Ghehi
Yasaman Setayesh
Zahra Sedaghat

Winners

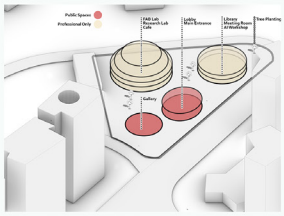
First Place:
Team 9: Mina Vahabi, Ali Vaseghi

Second Place (tie):
Team 10: Himan Saberi, Mahsa Zangeneh, Alireza Zarrin Vafi
Team 11: Maede Karimi Ghehi, Yasaman Setayesh, Zahra Sedaghat

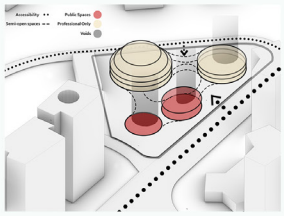
Techspire

Emerging technologies centre of University of Tehran

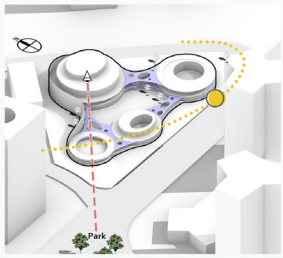
Artificial intelligence (AI) Aided Architectural Design 2025



.Seperating Spaces (by users) ▲



.Place Making ▲



.Shading & View ▲



.Sustainable Approach ▲

1.Interaction with the Environment and Socio-Economic Approach Neighborhood Interaction:
Design fosters university-community connection through shared public spaces (gallery, amphitheater, cafeteria), benefiting both students and District 22 residents.
Economic Aspect: Galleries and amphitheater can host events, generating income.

2.Architectural Concept:
Fusion of Iranian Architecture and Emerging Technology
Inspiration from Tehran University Architecture: Inspired by Tehran University's architecture, a spatial hierarchy is observed.
Semi-Open and Open Spaces: Semi-open spaces facilitate social interaction and environmental control.
Locally Sourced Materials: Local materials reduce energy consumption.

3. Spatial Organization and Functions:
Main spaces:
Library (accessible, natural light),
Amphitheater (multi-purpose, public)
Gallery (exhibition, interactive)
Classrooms and Workshops (flexible)
Cafeteria (connected to green space)
Main Entrance (accessible from street).

4. Sustainable Solutions and Energy Consumption Reduction:
Green Roof: Reduces heat island effect, improves air quality.
Solar Panels: Supply some energy needs.
Greywater Collection System: Uses rainwater and greywater for irrigation.
Canopies and Semi-Open Roofs: Control light and heat.
Building Orientation: Optimizes daylighting, reduces energy use.

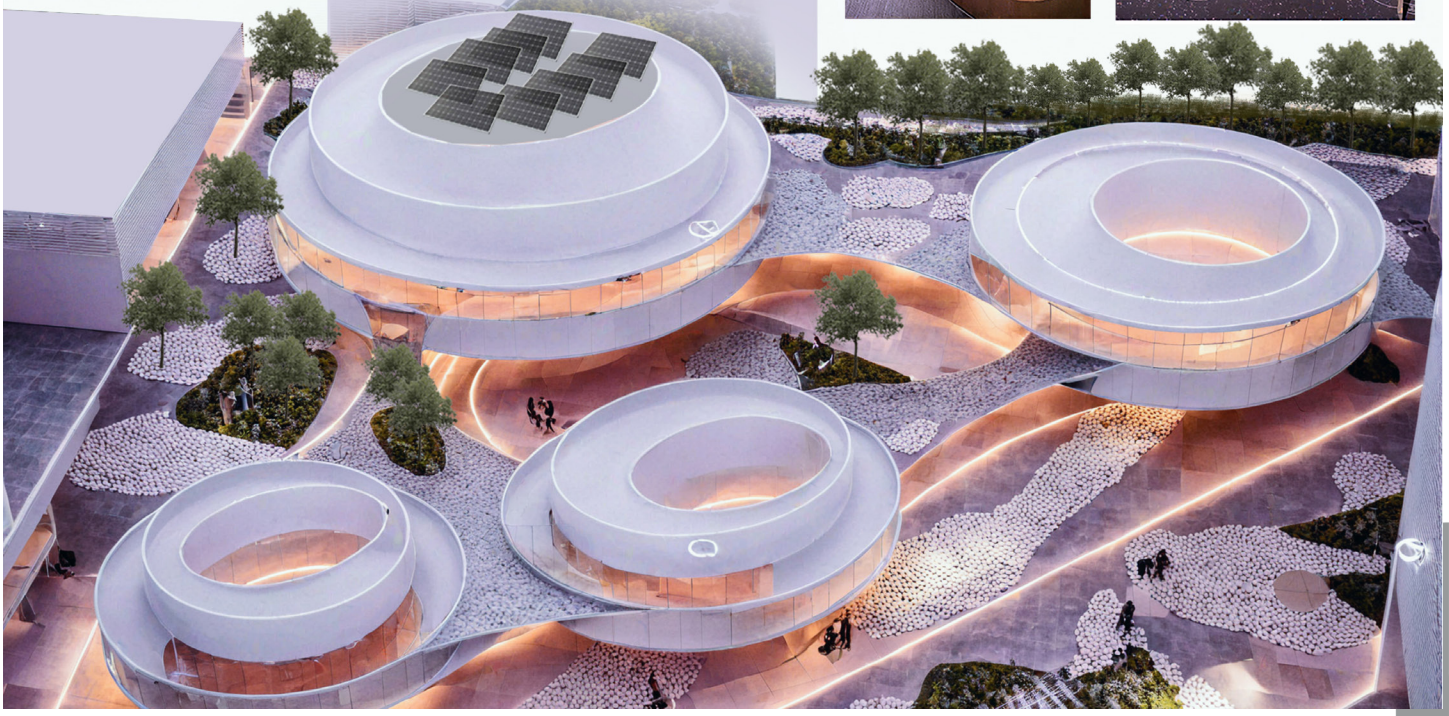
5. Access and Connection to the Site:
Access from the Main Street: Main entrance is easily accessible.
Separation of Public and Private Spaces: Circulation flows from public to private spaces.
Design Considering Site Form: Building harmonizes with the land's topography.











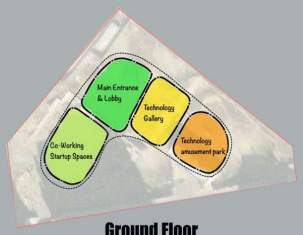
Team 1: Motahare Yazdekhasti, Anahita Moradi, Fataneh Shoghi

Mentor: Eng. Shadan Masoud

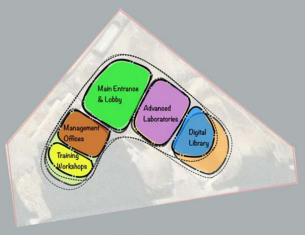
Green Nexus

Sustainable Ecosystem for Emerging Technologies at University of Tehran

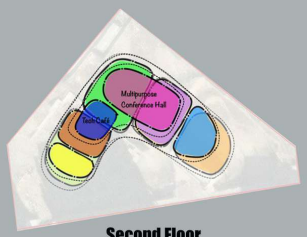
Funtional Layouts



Ground Floor

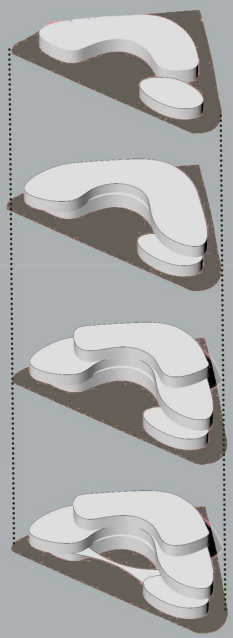


First Floor



Second Floor

Design Process



Concept Overview

The ETC is designed as a dynamic and adaptable platform for interdisciplinary innovation at the University of Tehran. The architectural form reflects flexibility, allowing the spaces to host education, research, and entrepreneurship under one roof.
Special attention was given to sustainability:

Environmental: Building orientation and placement respond to the shadow pattern of surrounding blocks, with the main entrance facing south to enhance natural lighting and ventilation.

Economic: Dedicated rentable zones for startups support the center's economy while providing opportunities for university alumni and external innovators.There are solar panels installed on the roof, which contribute to both economic and environmental sustainability.

Social: Public and recreational zones are located strategically to interact with the neighborhood, encouraging engagement beyond academic borders.

The architecture promotes seamless integration with its context, both visually and functionally. It's not just a research center—it's a community hub and a catalyst for future-forward collaboration.



Digital Library



Tech Café



Training Workshops



Technology amusement park



Design Process

The design process of the Emerging Technologies Center began with analyzing the site context, environmental conditions, and user needs.

Key steps included: Contextual Analysis Studying the university fabric and nearby urban connections.

Program Definition: Creating a flexible and modular program to accommodate research, education, startups, and community engagement.

Environmental Strategy: Orienting the building to optimize solar exposure and thermal comfort.

Form Development: Generating adaptable forms that respond to user interaction, future change, and sustainability goals.

Public Integration: Opening the site to allow urban flow and encouraging cross-boundary participation.

Team 2: Mehrana Matin, Golnar Safari, Mohammad Rostamzadeh

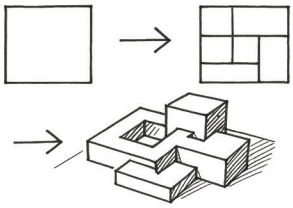
Mentor: Eng. Shadan Masoud

A Journey in Technology Connected to Nature

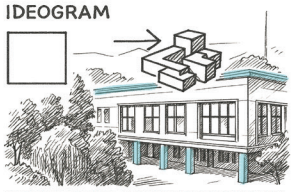
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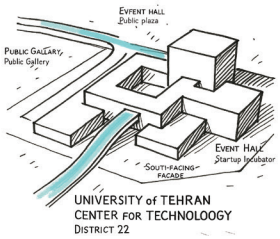
Design process



IDEOGRAM



FACULTY OF FINE ARTS UNIVERSITY OF TEHAN
FACADE DESIGN CONCEPT
Geometric patternmi

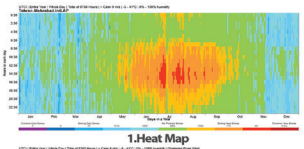


The Technologies Center of the University of Tehran, inspired by the Faculty of Fine Arts building of the University of Tehran, is a combination of modules placed on the intended site. This building features a nature-oriented bridge that connects pedestrians from the recreational areas in the south of the site, which is Chitgar Lake, to the northern park. This nature-oriented path that passes through our building provides views, landscape, and a technological experience for pedestrians.

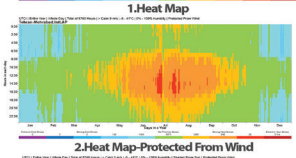
There is a central courtyard in the middle of the main module that functions as a plaza, a communal space, and an open-air gallery.

The double-skin façade has a climatic function and is inspired by traditional Iranian architecture.

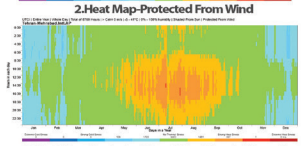
The corridors and green roofs create a dynamic and lively interactive space.



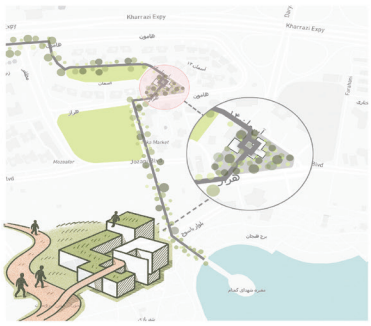
1.Heat Map



2.Heat Map-Protected From Wind



3.Heat Map-Protected From Wind-Shaded From Sun



Sustainable Solutions

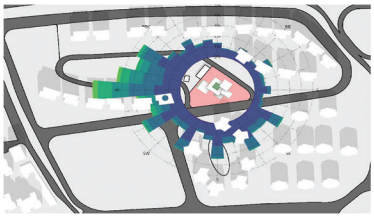
The building orientation and site placement control
the prevailing western winds and maximize natural light.

The selected form of the building minimizes spatial wastage and material usage.

Excavation materials from the site are being reused in the construction process.

The social concept is inspired by the design of Tehran University, fostering a connection with local architectural heritage.

Photovoltaic panels are installed to use renewable energy.



Wind Rose

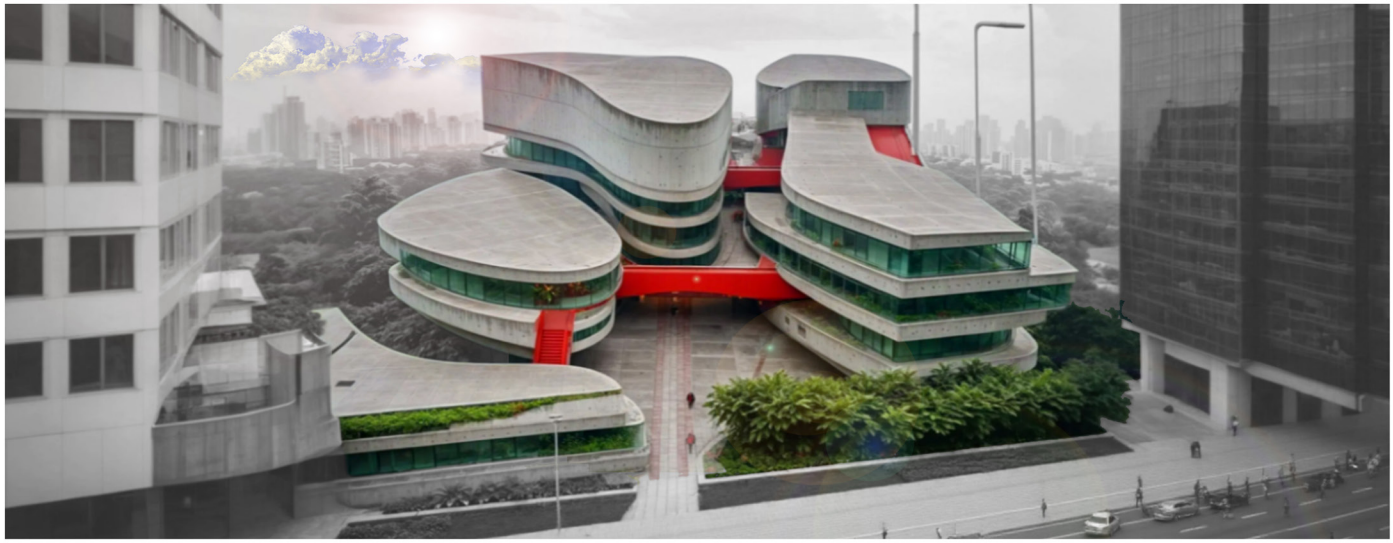






Interior Perspectives

Team 3: Setayesh Zamani, Mina Najib, Maryam Sheikholeslam, Taravat Fardhosseini **Mentor:** Eng. Fatemehzahra Zarifrad



PentaNova

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Emerging technologies centre of University of Tehran

Five Stars of Innovation

A fusion of "Penta" (five) and "Nova" (new/star), symbolizing five industrial revolutions through five distinct architectural forms.

Layered Architecture, Like the Growth of Science

The design reflects the evolution of human knowledge—from basic sciences to AI—through spatial layering.

5 Forms, 5 Revolutions

Each volume represents an industrial revolution, capturing the essence of its era: steam, machinery, robotics, algorithms, and AI.

The Line Connecting Eras

Opaque bridges between volumes symbolize the transitions across technological eras—linking past, present, and future.

The Creative Void

An open, unprogrammed space at the center fosters creativity, informal interaction, and idea exchange.

Singularity: Where Boundaries Blur

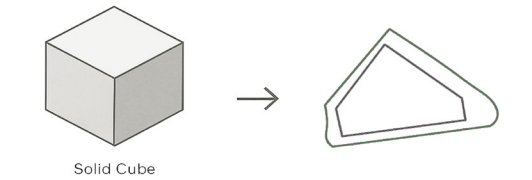
Bridges and the central void embody the convergence of human, machine, and nature—hinting at a shared future.

Break Tradition, Respectfully

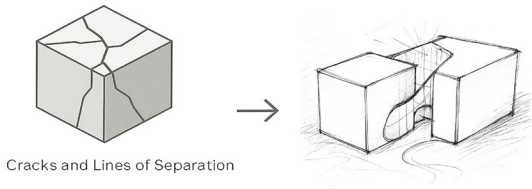
Starting from the University of Tehran's traditional grid, the design morphs into fluid, parametric forms—blending heritage and innovation.

You Don't Need to Be Tall to Be Seen

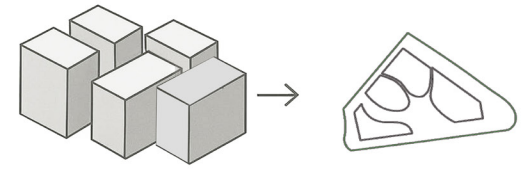
Low-rise forms with bold design and human-scale spaces stand out more meaningfully than high-rises in the urban fabric.



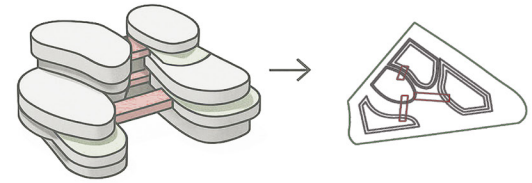
Solid Cube



Cracks and Lines of Separation



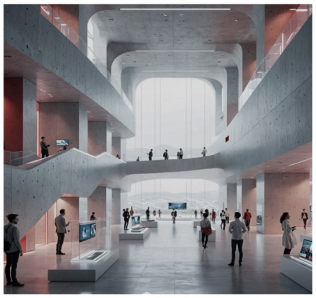
Protruding Volumes

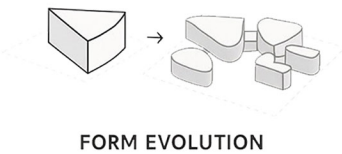


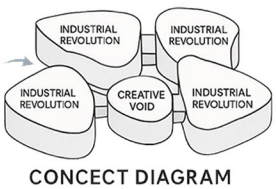
Bridges and Connections

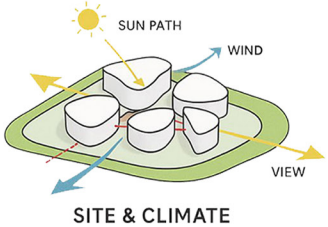


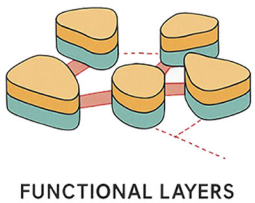












Team 4: Afarinesh Hassanzadeh, Rozhina Tahami, Homa Heidarian **Mentor:** Eng. Fatemehzahra Zarifrad

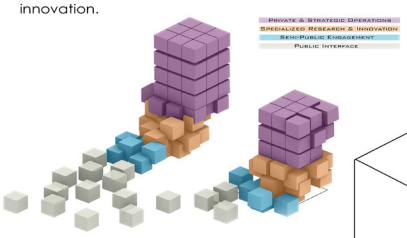
Emerging technologies centre of University of Tehran

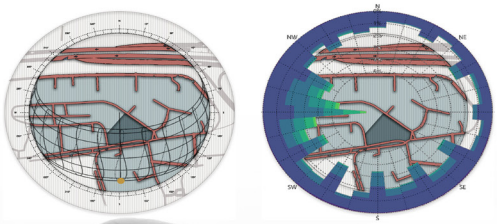
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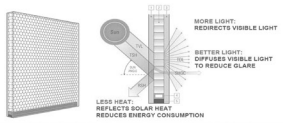


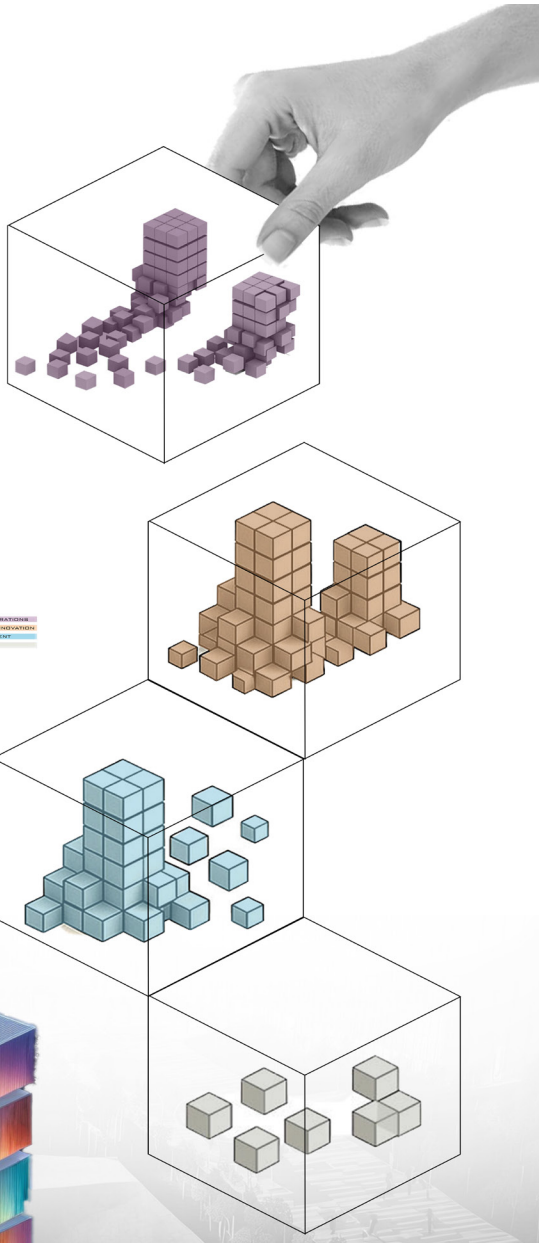


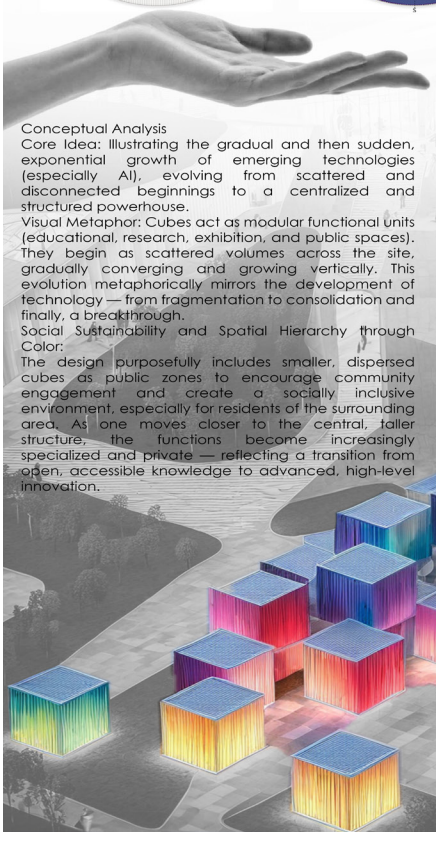
Functional Zoning (4-Part Breakdown):
1. Ground Zone – Public Interface
Open-access areas designed for interaction with the local community and broader public.
Includes plazas, open workshops, outdoor exhibitions, cafés, and public learning lounges.
Spaces are highly transparent and inviting, encouraging social sustainability.
2. Lower Levels – Semi-Public Engagement
Hosts multipurpose halls, educational classrooms, seminar rooms, and co-working spaces.
Functions as a bridge between public and research sectors — spaces are structured yet accessible.
3. Middle Levels – Specialized Research & Innovation
Dedicated to institutional functions, research labs, and
offices for tech startups.
Entry becomes more controlled; this zone supports deeper innovation, development, and interdisciplinary
collaboration.
4. Upper Levels – Private & Strategic Operations
Contains AI command hubs, data centers, executive planning rooms, and confidential R&D facilities.
Highly secure with restricted access — representing the peak of technological advancement and sensitive
innovation.









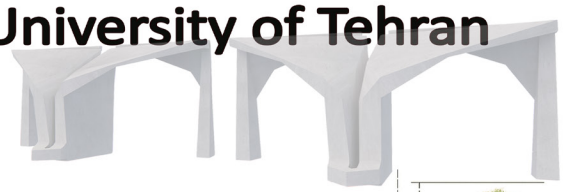


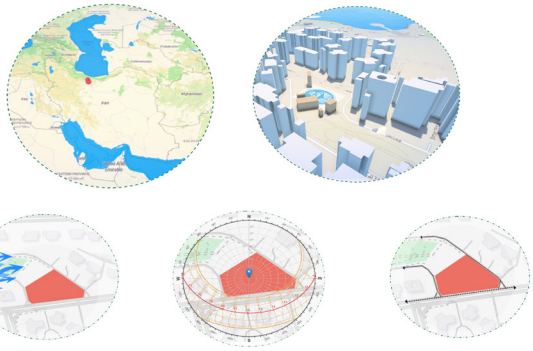
Conceptual Analysis
Core Idea: Illustrating the gradual and then sudden, exponential growth of emerging technologies (especially AI), evolving from scattered and disconnected beginnings to a centralized and structured powerhouse.
Visual Metaphor: Cubes act as modular functional units (educational, research, exhibition, and public spaces). They begin as scattered volumes across the site, gradually converging and growing vertically. This evolution metaphorically mirrors the development of technology — from fragmentation to consolidation and finally, a breakthrough.
Social Sustainability and Spatial Hierarchy through Color:
The design purposefully includes smaller, dispersed cubes as public zones to encourage community engagement and create a socially inclusive environment, especially for residents of the surrounding area. As one moves closer to the central, taller structure, the functions become increasingly specialized and private — reflecting a transition from open, accessible knowledge to advanced, high-level innovation.

Team 5: Zahra asadi, Leila karami baghteyfoni, Faezeh najjari seresht **Mentor:** Eng. Azin Pourseyedi

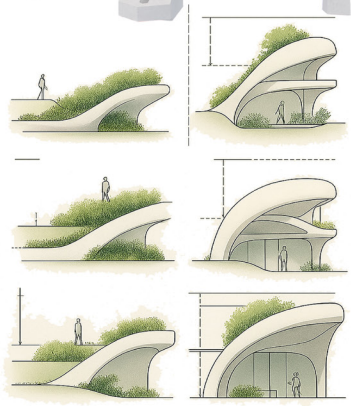
Emerging technologies centre of University of Tehran

Artificial intelligence (AI) Aided Architectural Design 2025

















The Emerging Technologies Center of the University of Tehran, located in District 22 of Tehran, is designed as an innovative, sustainable, and environmentally harmonious space. This complex features mid-rise buildings with horizontal expansion, interacting with the adjacent park to create visual and functional balance while establishing a unique identity for the project.

The project's form, inspired by the iconic gateway of the University of Tehran, symbolizes a connection between tradition and innovation. Emphasis on the interaction between the buildings, green spaces, and technological functionality has made this complex a model of coexistence between humanity, technology, and nature in Tehran's modern urban fabric. Beyond its scientific and research functions, the center offers a platform for experiencing sustainable and innovative .
Lorem Ipsum

Sustainability is a core principle of the center's design. Dynamic facades that generate energy, pedestrian paths capable of producing electricity, self-cleaning materials, and graywater recycling systems for irrigation are among the eco-friendly solutions incorporated. These measures not only reduce costs and conserve resources but also create a sustainable cycle of consumption and production.



Team 6: Maryam Pakdel, Maedeh dadashpoor, Sana Kazei, Ghazal Mahdavi Naderi

Mentor: Eng. Azin Pourseyedi

NEAT-NODE

EMERGING TECHNOLOGIES CENTRE OF UNIVERSITY DESIGN 2025

The main question and concern of the Neat Node team was how to organize and control architectural forms within nonlinear generative processes. Therefore, our goal was to structure and constrain this complexity through systematic tiling and rule-based limitations.
Initially, we analyzed the climatic, social, and functional aspects of the site and categorized the spatial conditions into open, semi-open, and closed types. These were then organized into a grid system.
Using the WFC algorithm and defining various types of connections between the tiles, we generated and evaluated multiple spatial scenarios. Ultimately, the resulting data was organized through tile-based logic, making the design process more readable, manageable, and expandable.

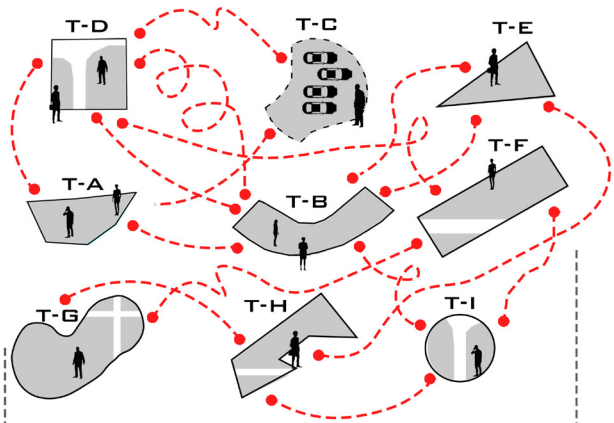
SITE ANALYSIS

Based on the analysis of the site plan of the University of Tehran, a series of two-dimensional forms were extracted. The faculties were organized around a central green axis, reflecting a spatial hierarchy and coherence. This concept was derived through AI-assisted analysis and has been integrated into the project's design strategy.

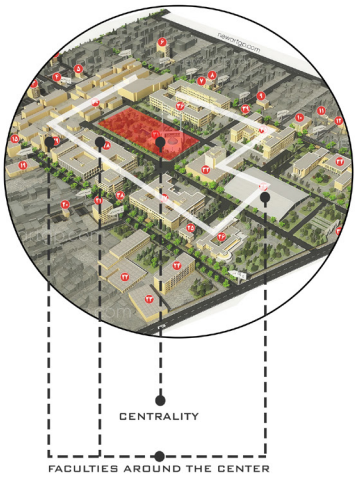


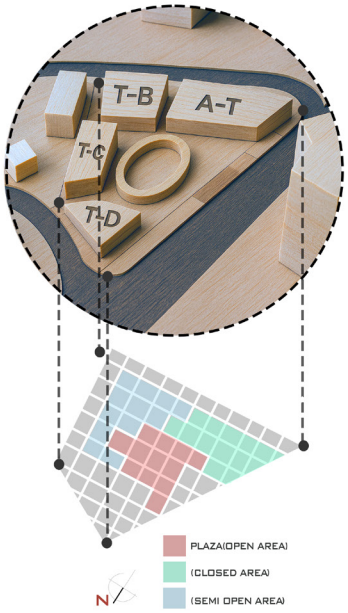
CONNECTION DIAGRAM

The tiles (open, semi-open, and closed spaces) were drawn in 2D and connected through various types of connections. Then, using the WFC algorithm, multiple alternative configurations were generated to analyze spatial scenarios.

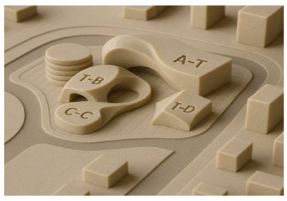


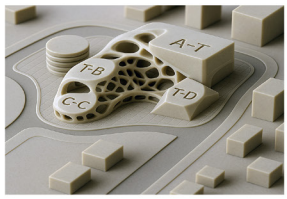
	T-D			
	Tile	Form	Function	Connection
1	T-D	Square	Research Centre	Short Connection T-P
2	T-C	Open Space	Parking	No Connection
3	T-B	Curved	Production Core	Connected T-A
4	T-A	Angular	Exhibition	Connected T-B-D

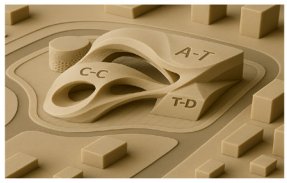












Node Study Diagram – Closed Node Alternatives

To explore spatial potentials within the "Closed Node" category, multiple alternatives were generated through AI using WFC-based tiling logic. Each configuration was then studied as a case model, examining its spatial efficiency, connectivity, and adaptability. The diagram showcases a comparative study of these generated nodes, offering insight into the system's flexibility and design intelligence.





Architecture in Motion

The concept is spatial adaptability through movable walls that follow patterned rail systems embedded in the ground, allowing dynamic reconfiguration of space. Some walls are covered with greenery, forming mobile vertical gardens that introduce flexible, nature-integrated environments.

Team 7: Maneli Sotoudeh, Farzaneh Shahmoradi, Niki Ghaderi, Arian Mahmodian **Mentor:** Eng. Mahsa Zahedi

NAVIDAN ECT



This project explores the integration of artificial intelligence (AI) and architecture in designing the Emerging Technologies Center at the University of Tehran. Moving beyond aesthetic experimentation, we employed AI as a strategic tool to enhance design thinking and bridge academic research with industrial applications. A key challenge was addressing overshadowing from adjacent structures, which we resolved through vertical micro-space distribution and integrated greenery, creating sustainable elevated landscapes.

The design adopts a defamiliarization approach, reimagining the university's spatial identity by establishing visual and conceptual connections between the central campus and the new facility.

Three functional zones—Knowledge, Industry, and Workshop/Laboratory—were defined to foster research, education, and workforce readiness. The process began with sectional studies, translating the campus's horizontal circulation (green spaces, corridors, and educational blocks) into a vertical reinterpretation, enhancing ecological and experiential quality.

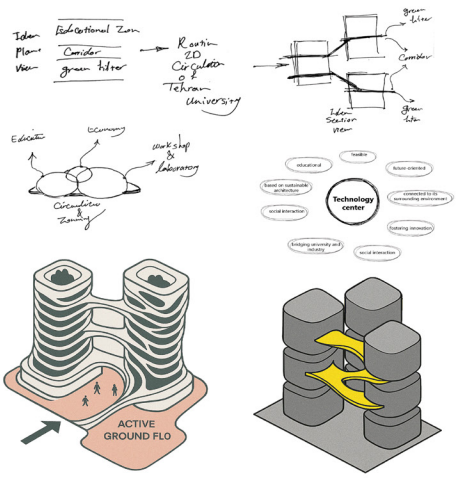
A contextual color palette (gray, blue, green) reinforced ties to the university's architectural heritage.

AI tools like ChatGPT, DeepSeek, and Copilot streamlined ideation, prompt refinement, and 3D visualization (via 3D.CSM), reducing reliance on manual modeling. Collaborative workflows involved individual AI-driven brainstorming, followed by team synthesis of prompts to develop the final design.

Innovations:

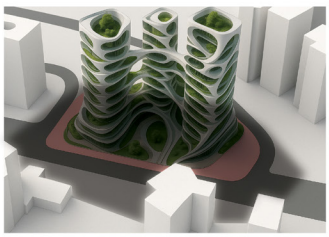
1.Defamiliarization as a spatial strategy.
2.AI-aided vertical zoning to mitigate urban density.
3.Ecological integration via elevated green spaces.

This project demonstrates AI's transformative potential in architectural practice, balancing technological innovation with contextual sensitivity.

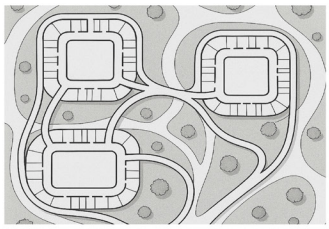


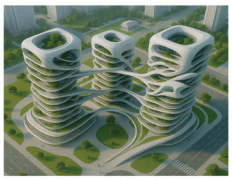
SHADAING

SKETCH DIAGRAM



CONNECTIVITY DIAGRAM



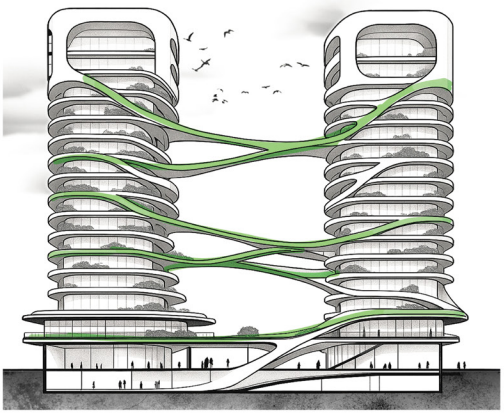




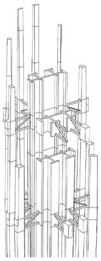


Emerging technologies centre of University of Tehran
Artificial intelligence (AI) Aided Architectural Design 2025
Team 9

PUBLIC INTERFACE / PODIUM DESIGN



STRSUCTURE





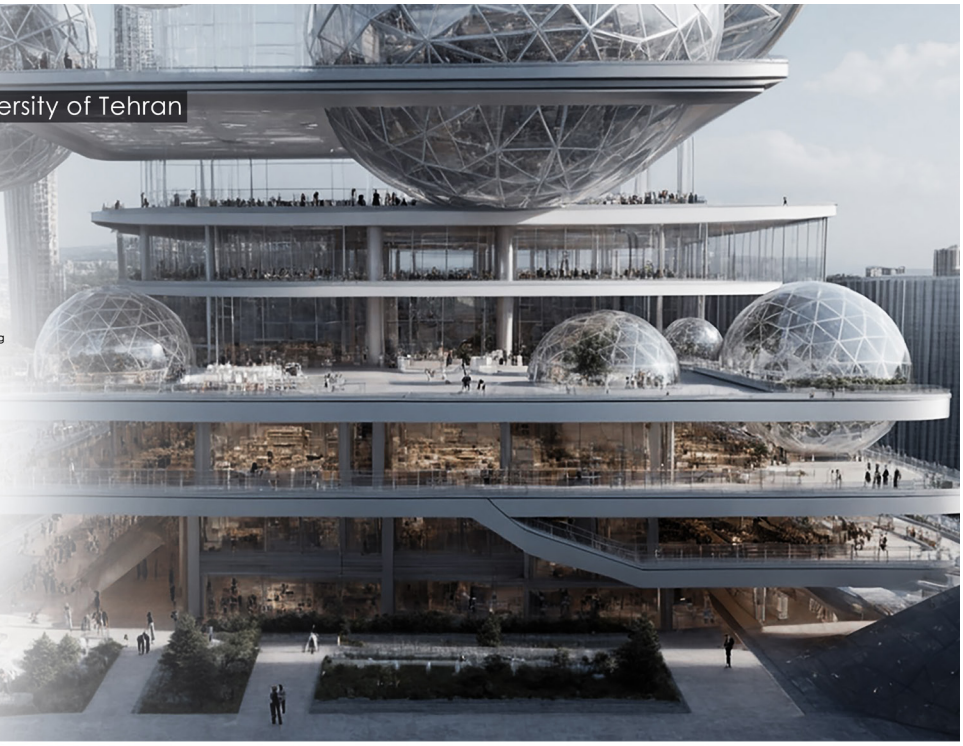
Team 8: Melika baniasadi, Mahmod Talebin, Keyvan Tayari

Mentor: Eng. Mahsa Zahedi

Tehran Visionarium

Emerging technologies center of University of Tehran

2025 Artificial intelligence (AI) Aided Architectural Design



The initial concept for this project was inspired by the cylindrical lattice structures found throughout the University of Tehran campus. These cylindrical elements serve as vascular connectors in the design, creating not only a stable structure but also functioning as vertical and horizontal circulation hubs that facilitate movement and interaction. Drawing inspiration from natural systems, this network symbolizes interdisciplinary connections in emerging technology research.

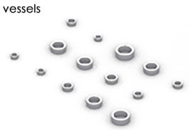
Transparency in this project extends beyond the use of glass materials. it reflects an approach to dissolve boundaries between interior and exterior. Maximizing natural light and modulating it through vertical greenery and smart planters enhances this concept. The geodesic domes and transparent spheres house advanced laboratories for developing technologies, while exterior spaces serve as public galleries for engagement with academic and industrial communities.

Combining cutting-edge technology with sustainable principles, this center fosters interdisciplinary collaboration. Through transparency,flexibility, and environmental interaction, it transcends being just a building. it becomes a symbol of scientific progress for the University of Tehran.

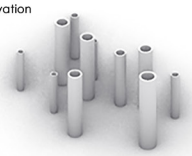
Cylindrical lattice pannels in Tehran Univercity



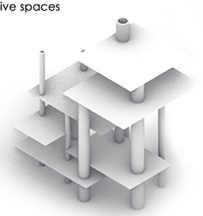
Cylinders as structural & connective vessels



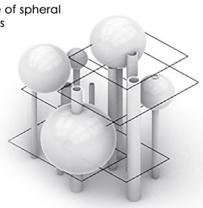
Organic elevation



Horizontal plates fo collaborative spaces



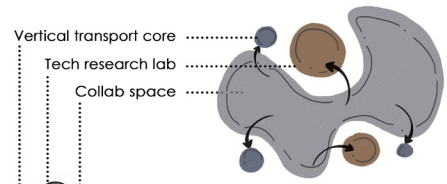
Emergance of spheral floating labs

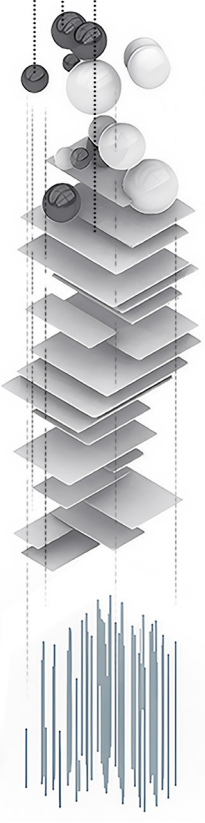


Form crystallizes through spatial synergy



Architectural zoning





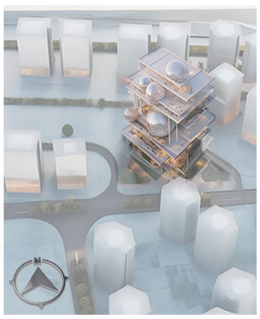
The building responds to human scale while harmonizing with surrounding communal spaces. vertical vessels transform circulation into a fluid experience.

Varied elevation levels (height codes) introduce diversity in user experience and enhance movement dynamics.

Located in Zone 22 of Tehran city, the project deliberately creates a contrast with its surroundings. Rather than blending in, its bold, dynamic forms represent futuristic vision.

The design maximize views toward the adjacent park while maintaining an interior focused on interaction and concentration. This duality creates flexible, multi-functional spaces that maintain visual connectivity with the environment.

Oriented along the east-west axis, the buildingmaximizes daylight penetration while framing optimal views toward the adjacent park.Pedestrian access is defined from the south, enhancing approachability, while vehicular entry is discreetly placed on the northern service road to mitigate traffic impact.









Team 9: Mina Vahabi, Ali Vaseghi

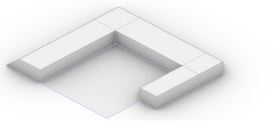
Mentor: Eng. Mahsa Zahedi

Shadows of Truth

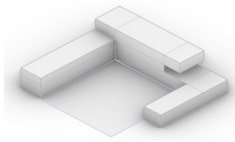


The Emerging Technologies Center (ETC) at the University of Tehran, conceptualized as the "Ferazgah-e Sayeha" (Pinnacle of Shadows), embodies a philosophical and architectural journey from limited perception to profound truth. Drawing inspiration from Plato's Allegory of the Cave and Heidegger's techno-philosophy, the design merges the neoclassical heritage of the University of Tehran with fluid, topological forms, advanced technologies, and multi-layered sustainability. The concept, "Shadows of Truth," symbolizes a spatial narrative where architecture facilitates the transition from illusion to enlightenment, tradition to innovation, and isolation to interdisciplinary collaboration. The ETC is envisioned as a dynamic hub for research, public engagement, and technological advancement, harmoniously integrated with its urban and cultural context in Tehran's District 22.

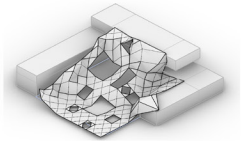
Central Idea and Concept: "A Shadow of the Future"
"We do not see the truth, but rather a reflection of it." – We intertwine Plato's Allegory of the Cave with today's technology. A building that both displays a shadow of the future and strives to transcend this shadow to reach the truth.



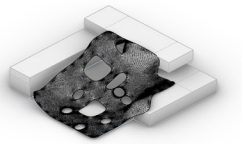
1.Creation of volume based on the site's location, context, and background



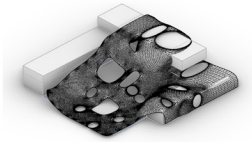
2.Expansion of the volume in alignment with the neoclassical form of the site's context and the University of Tehran, while maintaining the integrity of the existing structure



3.Integration of fluid form and envelope based on topological forms



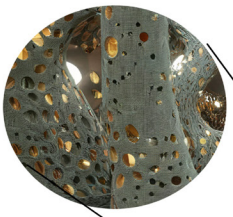
4.Creation of an interactive form and topological space, ensuring the interaction between the neoclassical volumes and the topological form



5.Creation of an interactive and topological form, incorporating a flexible structure in accordance with the site's sustainability and the project's concept

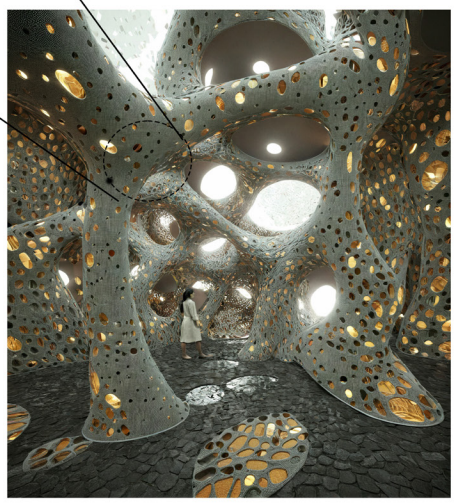
perforated surface

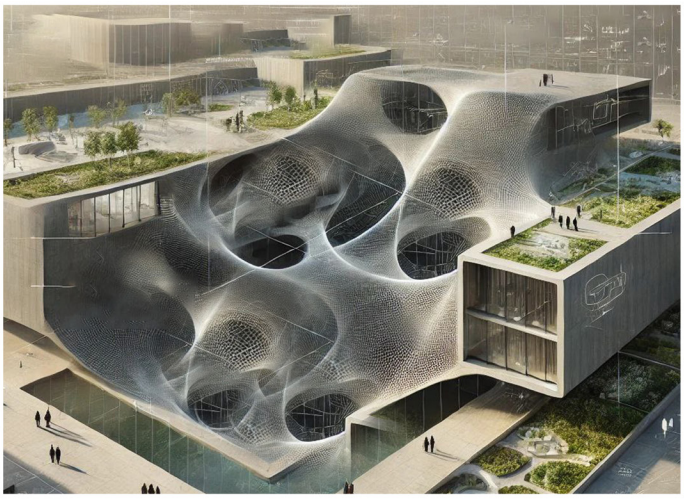
The porous walls of this space serve as both a structural and aesthetic feature, creating an intriguing interplay between light and shadow. These permeable surfaces allow natural light to filter through, gently diffusing it across the room, and establishing a soft, luminous atmosphere. The porous design not only enhances the sense of openness and connection between the indoor environments but also facilitates a seamless transition between spaces, evoking a sense of lightness and fluidity.











Team 10: Himan Saberi, Mahsa Zangeneh, Alireza ZarrinVafi

Mentor: Eng. Fatemeh Malmir

Emerging Technologies Center of University of Tehran

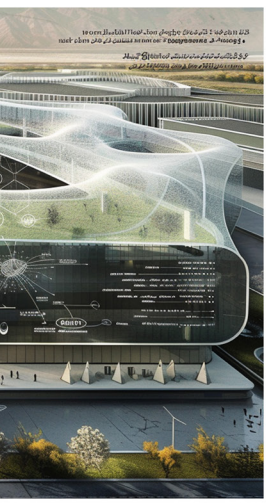
Artificial intelligence (AI) Aided Architectural Design 2025

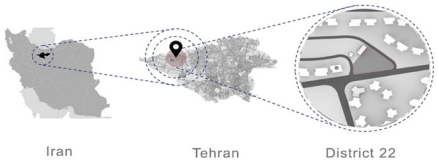
The diagrammatic composition of Tehran universities often features detached buildings organized around a series of masses and voids, forming dynamic public plazas and transitional spaces. This spatial logic—where built volumes and open areas interact—served as a foundational inspiration for our project.

We are currently in a transformative era of technological advancement, marked by rapid developments in artificial intelligence and robotics. These emerging platforms remain largely independent and fragmented; however, they are progressively moving toward integration into a singular, cohesive system. Our project reflects this anticipated evolution

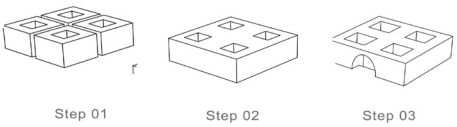
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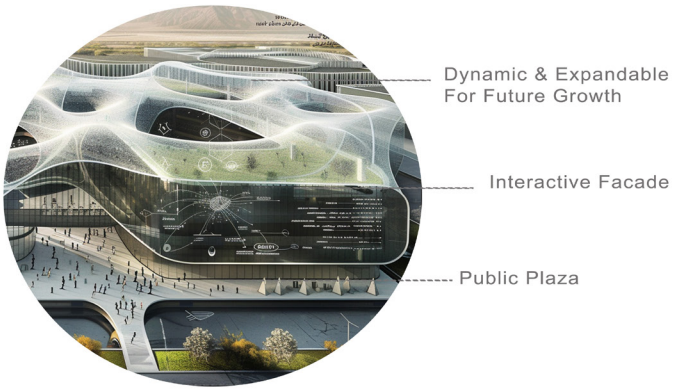
To embody this concept, we introduced a unified base volume representing the convergence of these technologies into one integrated platform. Onto this volume, we mapped a reinterpretation of the traditional mass and void arrangement found in Tehran university campuses. In our design, the mass and void diagram is inverted: what was once solid becomes open, and what was void becomes mass—symbolizing not only a conceptual shift but also a forward-looking architectural response to a changing technological landscape.











We are on the brink of entering a completely new world that offers numerous opportunities for individuals from various fields. In fact, the gateway where the general public stands at the entrance to this building symbolizes this concept and idea by creating openness at the entrance and elevating the structure, indicating the creation of opportunities and inviting and encouraging people to engage with emerging technologies. Additionally, it creates a plaza that interacts with the city, providing opportunities for social sustainability.

KREA AI

PromeAI

lookX.ai











Team 11: Maede karimi Ghehi, Yasaman Setayesh, Zahra Sedaghat **Mentor:** Eng. Fatemeh Malmir

A Glimpse into the Workshop










2025