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OPTION 1

Designing for Research, Technology, and Community Integration: “Teknokent”

PROJECT DESCRIPTION

The Technopark Campus Project is envisioned as a building complex located in the city center, integrated with the urban fabric. Beyond being a research and development hub, the project aims to act as a leading **campus structure** that combines research, education, social spaces, and the potentials of urban context. As the capital city of Turkey, Ankara holds a unique position as a political, cultural, and economic hub, making it an ideal location for **fostering innovation and collaboration**. The establishment of a technopark in such a prominent setting underscores its importance in bridging academic research, industrial development, and urban integration.

Key Design Considerations

- Functional Diversity:** The campus will feature primary functions such as offices, laboratories, meeting rooms, along with modern spaces for social interaction and collaborative work. Secondary function like a daycare center will also be included, serving both campus residents and the local community. This multifunctional approach will establish the project as a social, educational, and economic hub.
- Urban Integration and Location:** The project will be situated at a strategic location in the city center, ensuring compatibility and synergy with the existing urban fabric. The design will prioritize pedestrian flow, public spaces, and connections to public transportation, creating a seamless interaction between the campus and its surroundings.
- Innovative and Sustainable Building Technologies:** The project will prioritize innovative building technologies and sustainable architectural practices. Smart building systems, energy efficiency, and the use of recyclable materials will serve as key principles, setting an example in both economic and environmental terms. Features like solar panels, rainwater harvesting systems, and green roofs will be integrated to ensure ecological responsibility.
- Spatial Organization and Interaction:** The campus will be designed to foster interaction through individual and group workspaces, dynamic collaboration areas, and versatile social spaces. The spatial layout will encourage user engagement and the exchange of creative ideas, supporting an innovative and interactive campus environment.
- Focus on Education and Research:** The campus units will facilitate academic and industrial collaboration, incorporating spaces that support internships and research activities. This will enable both students and professionals to collaborate on innovative projects, promoting knowledge sharing and mutual growth.

Project Objectives

- To create a **campus model** that is **integrated with the urban fabric** and supports social life.
- To design a pioneering building group featuring **innovative building technologies** and sustainable systems.
- To construct a **multifunctional center** that brings together education, commerce, and research activities.
- To develop **flexible and dynamic spaces** that encourage user interaction and creativity.

Project Program

1. Administrative and Management Spaces (5% - 1,250 m²)

Spaces for the management and day-to-day operations of the Teknokent.

- **Main Administration Offices (40% - 500 m²):**
Offices for HR, finance, legal, and general management teams as well as a small infirmary room. Includes private offices, small meeting rooms, and an open office space.
- **Security and Monitoring Center (20% - 250 m²):**
A control room for building-wide security, emergency management, and monitoring systems.
- **Facility Management Offices (20% - 250 m²):**
Workspaces for maintenance and technical staff, equipped with storage and documentation areas.
- **Public Relations and Marketing Offices (20% - 250 m²):**
Offices for PR and marketing teams responsible for tenant relations and external outreach, including a small PR video studio.

2. Offices and R&D Spaces (50% - 12,500 m²)

A combination of office spaces and advanced R&D labs for tenants of varying sizes and needs.

- **Offices for Startups and Small Businesses (28% - 3,500 m²):**
Dedicated office spaces with customizable layouts to accommodate small companies and startups.
- **Open Offices for SMEs and Larger Firms (20% - 2,500 m²):**
Open-plan workspaces designed for medium-sized and large organizations, including management offices and all the necessary amenities.
- **Shared Workspaces and Co-Working Areas (15% - 1,875 m²):**
Flexible hot desks, meeting pods, and workstations for freelancers and small teams.

- **High-Tech R&D Labs (25% - 3,125 m2):**
Labs for AI, robotics, and advanced materials, equipped with necessary technical infrastructure.
- **Biotechnology and Chemistry R&D Labs (10% - 1,250 m2):**
Wet labs with fume hoods and controlled environments for bio and chemical research.
- **Cleanroom and Testing Lab (2% - 250 m2):**
Controlled spaces for nanotechnology and precision product testing, including their specialized mechanical needs

3. Collaboration and Innovation Hub (10% - 2,500 m2)

Spaces designed to encourage creativity, interaction, and knowledge sharing.

- **Conference Hall (30% - 750 m2):**
A versatile hall for conferences, seminars, and product launches.
- **Workshop and Seminar Rooms (30% - 750 m2):**
Spaces for training sessions, hackathons, and collaborative workshops.
- **Innovation Gallery (20% - 500 m2):**
A showcase area for products, projects, and prototypes.
- **Breakout and Brainstorming Zones (20% - 500 m2):**
Informal spaces for discussions and brainstorming.

4. Incubation Center (10% - 2,500 m2)

Facilities to support startups and entrepreneurial growth.

- **Startup Offices (50% - 1,250 m2):**
Affordable office spaces for early-stage companies.
- **Incubator Support Services (30% - 750 m2):**
Resources for legal, financial, and marketing consulting.
- **Pitch Deck and Demo Rooms (20% - 500 m2):**
Spaces for investor presentations and product demonstrations.

5. Technical and Utility Spaces (10% - 2,500 m2)

Operational and technical infrastructure.

- **Server Room and Data Center (40% - 1,000 m2):**
IT infrastructure for tenant and building operations.
- **Mechanical and Electrical Rooms (30% - 750 m2):**
Dedicated spaces for HVAC and electrical systems.

- **Waste Management & Recycling Center (20% - 500 m2):**
Facilities for sustainable waste disposal.
- **Backup Generator and Utility Rooms (10% - 250 m2):**
Backup systems for uninterrupted power supply.

6. Amenities and Support Areas (15% - 3,750 m2)

Spaces for tenant well-being and community building.

- **Cafeteria and Dining Area (52% - 1,950 m2):**
A spacious cafeteria and other diverse dining options for up to 500 people.
- **Fitness and Wellness Center (20% - 750 m2):**
A fully equipped gym with yoga and wellness facilities.
- **Coffee Shops (10% - 375 m2):**
Several small coffee shops for networking and relaxation.
- **Multipurpose shop (3% - 113 m2)**
A shop offering various daily products like stationery, retail goods or other mainstream goods
- **Childcare and Family Services (10% - 375 m2):**
On-site daycare and early education facilities.
- **Prayer Room (5% - 187 m2):**
Quiet spaces for prayers, personal use, and reflection.

7. Service Areas (as needed)

Necessary service spaces for the needs of the building's users.

- **Circulation spaces (as needed, ~%30 of the total indoor area)**
Entrance halls, hallways, staircases, elevators
- **Restrooms (as needed)**
Wherever needed according to the building's layout.
- **Tenant Carpark (as needed):**
Controlled indoor vehicle parking area, includes EV charging stations, motorcycle parking area, and handicapped parking area.
- **Unloading bay (as needed):**
For safe and convenient cargo handling and unloading of heavy goods.
- **Emergency shelter (as needed):**
To be used during emergency situations for gathering and sheltering.

Total 25000 m2 (excluding service areas)

OPTION 2

Redefining the Neighborhood: Blending into a Vibrant Urban Context

PROJECT DESCRIPTION

This project aims to reimagine the concept of a “mahalle” (neighborhood) within a highly dynamic and lively urban context in Ankara, surrounded by high-rise buildings. As the capital of Turkey, Ankara's role as a political, cultural, and economic hub provides a unique backdrop for exploring **innovative urban solutions**. The focus is on designing a contemporary urban neighborhood that balances the vibrancy of city life with the social and cultural values of community living. The project envisions a vibrant and inclusive urban neighborhood that emphasizes connectivity, social interaction, and sustainability while responding to the dense and vertical urban fabric surrounding it.

Key Design Considerations

1. **Dynamic and Functional Spaces:** The design will feature bustling public plazas, pedestrian-friendly streets, marketplaces, cultural hubs, and recreational spaces that reflect the vibrant context of the site. These spaces will cater to diverse user needs, fostering interaction and activity.
2. **Mixed-Use Development:** A balance of residential, commercial, cultural, and recreational functions will ensure a lively urban life. Housing typologies will include studio apartments for young professionals and family-oriented units, alongside coworking spaces, cafes, shops, and sports facilities.
3. **Integration with High-Rise Surroundings:** The design will create a gradual transition between the surrounding high-rise developments and the human-scale neighborhood. Open spaces, terraces, and a cohesive spatial layout will harmonize the dense verticality of the context with the low-rise character of the project.
4. **Sustainability and Innovation:** Energy-efficient systems, green roofs, urban water management solutions, and eco-friendly materials will ensure environmental responsibility. Social sustainability will be emphasized through spaces that encourage inclusivity and a sense of community.
5. **Social Cohesion and Shared Spaces:** Courtyards, urban gardens, community halls, and shared amenities will strengthen bonds among residents, fostering a sense of belonging and neighborhood identity.

Project Objectives

- To design a **vibrant and human-centered neighborhood** that integrates seamlessly with the urban environment.
- To create **flexible and dynamic spaces** for living, working, and recreation, reflecting the needs of a diverse population.
- To establish a vision for a “**future-ready mahalle**” that adapts to the demands of urban transformation while preserving community values.
- To encourage students to explore innovative solutions for dense urban contexts surrounded by high-rise developments.

Project Program

1. Residential Areas (70% - 21,000 m²)

Spaces dedicated to housing, ensuring a variety of unit types to accommodate diverse populations, reflecting modern living needs and community diversity. (200 units in total, types can be adjusted according to the student's concept)

- **Studio Apartments (20% - 4,200 m²):** For individuals, these 40 units (30-35 m² each) offer efficient layouts that prioritize functionality and flexibility.
- **One-Bedroom Units (25% - 5,250 m²):** For individuals or couples, these 50 units (45-50 m² each) balance private living with communal opportunities.
- **Two-Bedroom Units (30% - 6,300 m²):** Family-oriented apartments, with 60 units (70-75 m² each), designed to provide comfortable living spaces for small families.
- **Three-Bedroom (or more) Units (15% - 3,150 m²):** Larger units for families, with 30 units (100-110 m² each), offering ample space for both private and shared living.
- **Special Apartments (5% - 1,050 m²):** Flexible open-plan layouts in 10 units (75-80 m² each).
- **Accessible Units (5% - 1,050 m²):** Barrier-free units designed for elderly or disabled residents, with 10 units (60-65 m² each) ensuring inclusivity and universal design.

2. Commercial and Social Functions (25% - 7,500 m²)

Facilities aimed at fostering a vibrant, interactive urban lifestyle and supporting the needs of residents and visitors.

- **Commercial Spaces (66% - 5,000 m²):** Commercial spaces, cafes, and coworking hubs designed to activate the streetscape and encourage economic activity.
- **Social and Cultural Amenities (34% - 2,500 m²):**
 - **Cultural Hub (1,000 m²):** A multifunctional space with a library and a gallery for exhibitions, workshops, and gatherings.
 - **Recreational Facilities (1,000 m²):** Fitness centers, a multipurpose hall promoting health and community interaction.
 - **Community Services (500 m²):** Includes a daycare, small medical clinic, and spaces for social support services.

3. Parking and Infrastructure (as needed, ~4,000 m²)

Servis areas for functionality and convenience.

- **Underground Parking (3,500 m²):** Space for around 250 vehicles, including electric vehicle charging stations, bicycle storage, and areas for motorcycle parking.

- **Utility Areas (500 m²):** Dedicated spaces for waste management, mechanical systems, and emergency shelters, ensuring sustainability and resilience.

4. Public and Shared Spaces (Flexible ~2,500 m²)

Shared spaces designed to promote interaction, relaxation, and a sense of community within the urban neighborhood, can include also open or semi open spaces.

- **Central Plaza (50% - 1,250 m²):** A vibrant gathering space for public events, informal markets, and daily community activities, acting as the neighborhood’s social hub.
- **Urban Gardens and Courtyards (30% - 750 m²):** Green spaces for relaxation, urban farming, and small group activities, providing residents with a connection to nature.
- **Playgrounds and Sports Facilities (20% - 500 m²):** Compact areas designed for children’s play and recreational sports, encouraging physical activity and interaction.

Total Project Area: 30,000 m²

METHOD OF LEARNING

ARCH 402 is an applied course in the form of a jury-based studio. The juries are the essential environment where students come together with the instructors to discuss and develop their term projects by panel critics. There will be a total of five juries. The fifth jury will be the final jury. The final deliverables will include comprehensive design documentation, including site analysis, conceptual work, site plans, detailed floor plans, sections, elevations, system detail sets and 3D models.

TIME PLAN

Date	Program
28/01/2025	Introduction & Site Visit
13-14/01/2025	First Jury
13-14/03/2025	Second Jury
03-04/04/2025	Third Jury
24-25/04/2025	Fourth Jury
08/09/05/2025	Final Jury

PROJECT SITE

Being the capital, Ankara plays a pivotal role in shaping the country’s political, economic and technological landscape fostering connections that span across the nation and the globe. Its centralized location and status make it an ideal environment for initiatives like academia, industry, and urban development. Ankara is also a pioneer in the urbanization of Turkey, setting an example for modern urban planning and development. As the heart of the newly established Republic of Turkey, Ankara has played a critical role in symbolizing the country’s transition into modernity.

Çukurambar, located along Mevlana Boulevard, stands out as one of Ankara’s most vibrant and rapidly developing districts. Known for its modern high-rises, bustling business environment, and lively social scene, it has become a key destination for professionals, families, and businesses alike. Its strategic location on one of the city’s major arterial roads ensures excellent connectivity to the city center, key business districts, and public transportation networks. The area’s modern infrastructure,

with well-planned streets, green spaces, and pedestrian-friendly pathways, enhances its urban appeal and livability.

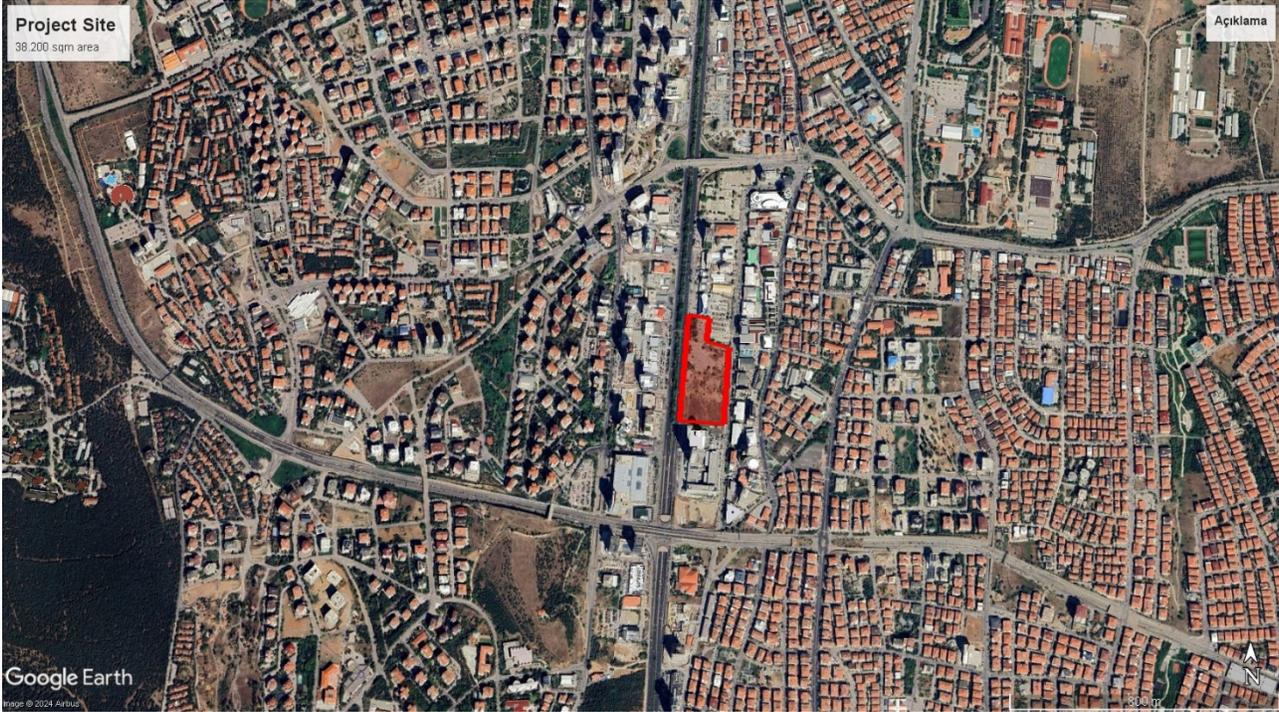
However, Çukurambar's rapid urbanization also presents several challenges. The high density of residential and commercial developments causes significant traffic congestion during peak hours, testing the area's infrastructure capacity. The prevalence of corporate aesthetics and high-rise structures risks creating a homogeneous urban fabric, potentially overshadowing local identity and architectural diversity. Additionally, as the district grows, maintaining a sense of community in this predominantly business-oriented environment becomes increasingly complex. Despite these challenges, Çukurambar remains a potential location for innovative urban design and architectural projects. Its mix of opportunities and constraints makes it an ideal ground for exploring solutions that balance vibrancy, functionality, and sustainability within Ankara's evolving urban landscape.

- 39.891062, 32.813897

Mevlana Blv. No:195,Ehlibeyt, 06520 Çankaya/Ankara

- 38.200 sqm area





Project Site

38.200 sqm area

Açıklama



Google Earth

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1.61 m

