FINAL INTERNATIONAL UNIVERSITY
FACULTY OF ARCHITECTURE AND FINE ARTS

Program	Interior Architecture (English)
Medium of Instruction	English

Category	Associate Degree	X	Undergraduate		Masters (Project Based)		Masters (Thesis)		PhD

CURRICULUM

ABBREVIATIONS

UC: University Core   **FC:** Faculty Core   **AC:** Area Core
UE: University Elective   **AE:** Area Elective

YEAR 1
FALL

Semester	Course Code	Course Name	Course Category	Credit			Pre-requisite	ECTS Credits
				Lecture	Practice	Total		
1	ARCH101	Graphic Communication I	AC	3	0	3	-	5
1	ARCH103	Basic Design Studio	AC	3	3	5	-	10
1	ARCH105	Mathematics and Geometry for Designers	AC	3	0	3	-	4
1	ARCH107	Introduction to Art and Design	AC	3	0	3	-	5
1	ENGL101	English I	UC	3	0	3	-	6
		Total Credit				**17**	-	**30**

SPRING

Semester	Course Code	Course Name	Course Category	Credit			Pre-requisite	ECTS Credits
				Lecture	Practice	Total		
2	ARCH102	Graphic Communication II	AC	3	0	3	ARCH101	5
2	ARCH104	Introductory Design Studio	AC	3	3	5	ARCH103	10
2	ARCH106	Architectural Presentation Techniques	AC	3	0	3	-	3
2	ARCH108	Introduction to Design and Technology	AC	3	0	3	-	4
2	ENGL102	English II	UC	3	0	3	-	6
2	TURK100 HIST100	Turkish as a Second Language / History of Turkish Republic	UC	2	0	2	-	2
		Total Credit				**19**	-	**30**

YEAR 2
FALL

Semester	Course Code	Course Name	Course Category	Credit			Pre-requisite	ECTS Credits
				Lecture	Practice	Total		
3	INAD201	Interior Architecture Studio I	IC	3	3	5	ARCH104	10
3	ARCH203	Ergonomics and Universal Design in Architecture	AC	3	0	3	-	3
3	ARCH205	Building Materials and Construction I	AC	3	0	3	-	5
3	ARCH207	History of Architecture I	AC	3	0	3	-	4
3	INAD100	Summer Practice I	AC	0	0	0	-	3
3	ARCH211	Computer Aided Design	AC	2	1	2	-	5
Total Credit						**16**	-	**30**

YEAR 2 *continued*								
SPRING								
Semester	**Course Code**	**Course Name**	**Course Category**	**Credit**			**Pre-requisite**	**ECTS Credits**
				Lecture	**Practice**	**Total**		
4	INAD 202	Interior Architecture Studio II	IC	3	3	5	INAD201	10
4	INAD203	Advanced Computer Aided Design	IC	2	2	3		5
4	INAD204	Human Goods Relations in Interior Architecture Design	IC	3	0	3		5
4	ARCH206	Building Materials and Construction II	AC	3	0	3	ARCH205	5
4	ARCH209	Ecological Issues and Building Design	AC	3	0	3	-	3
4	INAD205	Space Information	IC	3	0	3	-	4
Total Credit						**20**	**-**	**30**

YEAR 3								
FALL								
5	INAD301	Interior Architecture Studio III	IC	3	3	5	INAD 202	10
5	ARCH303	Principles and Approaches to Conservation and Restoration	AC	3	0	3	-	4
5	INAD305	Turkish Handicrafts	IC	3	0	3	-	4
5	INAD303	Detailing Studio	IC	3	0	3	-	4
5	INAD200	Summer Practice II - Construction Site	IC	0	0	0	INAD100	3
5	AE-01	Area Elective I	AE	3	0	3	-	4
Total Credit						**17**		**29**
SPRING								
6	INAD302	Interior Architecture Studio IV	AC	3	3	5	INAD301	10
6	INAD304	Furniture Design	IC	4	0	4	-	5
6	ARCH306	Sensory Architecture: Light and Sound	AC	3	0	3	-	4
6	INAD306	Interior Architecture Theory	IC	2	1	2	-	4
6	INAD307	Product Details	IC	3	0	3	-	4
6	AE-02	Area Elective II	AE	3	0	3	-	4
Total Credit						**20**	**-**	**31**

YEAR 4								
FALL								
7	INAD401	Interior Architecture Studio V	IC	3	3	5	INAD 302	10
7	INAD403	Protection of Historical Interiors: History and Theory	IC	3	0	3	-	4
7	INAD405	Building Economics ın Interior Architecture	IC	3	0	3	-	4
7	ARCH405	Research Methods	AC	3	0	3	-	4
7	INAD300	Summer Practice III - Architectural Office	AC	0	0	0	INAD200	3
7	AE-03	Area Elective III	AE	3	0	3	-	4
Total Credit						**17**	**-**	**30**

YEAR 4								
SPRING								
Semester	Course Code	Course Name	Course Category	Credit			Pre-requisite	ECTS Credits
				Lecture	Practice	Total		
8	INAD402	Graduation Project	IC	3	3	5	INAD401	17
8	INAD404	Interior Architecture Design Professional Application	IC	3	0	3	-	5
8	AE-04	Area Elective VI	AE	3	0	3	-	4
8	AE-05	Area Elective VII	AE	3	0	3	-	4
Total Credit						**14**	**-**	**30**

AREA ELECTIVE COURSES

	Course Code	Course Name	Credit			ECTS Credits
			Lecture	Practice	Total	
1.	ARCH210	Art and Ideas in Landscape Architecture	3	0	**3**	4
2.	ARCH212	Reading Architectural Texts	3	0	**3**	4
3.	ARCH 213	Interior Design for Architects				
3.	ARCH309	Evolutionary Thinking and the Potentials of Environment	3	0	**3**	4
4.	ARCH310	Vernacular Architecture	3	0	**3**	4
5.	ARCH311	Cinematographic Perception and Architecture	3	0	**3**	4
6.	ARCH312	Tectonic Translations	3	0	**3**	4
7.	ARCH313	The Architectural Imagination	3	0	**3**	4
8.	ARCH406	Emerging Architecture	3	0	**3**	4
9.	ARCH408	Topics in Computation and Architecture	3	0	**3**	4
10.	ARCH409	Construction Project Management	3	0	**3**	4
11.	ARCH411	History of Urban Image	3	0	**3**	4
12.	ARCH412	Introduction to Smart Cities	3	0	**3**	4

COURSE BREAKDOWN

	Total		
	Number	**Credit**	**ECTS Credits**
All Courses	**48**	**140**	**250**
University Core Courses	3	8	**14**
Faculty Core Courses	18	54	**86**
Area Core Courses	19	63	**121**
Area Elective Courses	5	15	**20**
University Elective Courses	0	0	**0**
Summer Internship	3	0	**9**

Semester	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**Average**
Number of courses	5	6	6	6	6	6	6	4	5.625
Total credits	17	19	16	20	17	20	17	14	17.5
Total ECTS Credits	**30**	**30**	**30**	**30**	**29**	**31**	**30**	**30**	**30**

COURSE DESCRIPTIONS / SYNOPSES

1.	Course code: ARCH101	Course title: Graphic Communication I
	This course aims to develop basic skills in graphic expression. It looks both at tools of graphic communication and principles, underpinning orthographic, axonometric, and perspective drawing, and provides an introduction to a variety of different graphic presentation methods.	

2.	Course code: ARCH103	Course title: Basic Design Studio
	This course aims to furnish students with the creative and critical skills required in architectural design. Through a series of design exercises, students explore shapes, forms, figures, colors, textures, materials, scales, and space, and in this way develop their own visual vocabulary and an understanding of the value of both product and process in the design studio.	

3.	Course code: ARCH105	Course title: Mathematic and Geometry for Designers
	A solid understanding of geometry and mathematics is vital for accurate communication of design ideas. The main aim of this course is thus to explore the relationship of mathematics and geometry with architecture through study of size, shape, relative position of figures in space, and measurement.	

4.	Course code: ARCH107	Course title: Introduction to Art And Design
	This course aims to equip students with an understanding of the concepts and vocabulary of design in related disciplines. It explores definitions of design, its vocabulary, elements, principles, organizational aspects and design processes.	

5.	Course code: ENGL101	Course title: English I
	This is a first-semester EAP course for freshman students, and it focuses on developing both receptive and productive skills as well as the study skills required for university-level coursework.	

6.	Course code: ARCH102	Course title: Graphic Communication II
	This course aims to further develop skills in graphic expression. In addition to more in-depth study of those aspects of design included in Graphic Communication I, the course will introduce advanced graphic communication techniques, D drawing, drawing conventions in different design branches, and presentation techniques.	

7.	Course code: ARCH104	Course title: Introductory Design Studio
	This second semester design studio course further develops the skills introduced in ARCH103. Compositions, compilations, arrangements and re-arrangements are explored with reference to both the human and spatial design process. Through three-dimensional physical model-making students develop an understanding of the role of surfaces, solids, and voids in making spaces. The course emphasizes the design process, three dimensional forms, space, function, material, structure, the role of context, the human dimension and scale and the transition from abstract to concrete.	

8.	Course code: ARCH106	Course title: Architectural Presentation Techniques
	Basic drawing techniques of various kinds essential for architectural studies and presentations. Concepts of scale, materials, and technique.	

9.	Course code: ARCH108	Course title: Introduction to Design and Technology
	This includes the history of design technology, structural logic, form, structure and material, sustainable and innovative aspects of design technology; the study of the relationship between structures and relevant basic technologies and related vocabulary. Topics include; design factors, effective loads and forces, materials and design technologies in history, structure and design technology, contemporary structures, definition of building and building elements, sustainability, innovative thinking. The course ultimately aims to help students turn their designs into reality through creative and imaginative activity.	

10.	Course code: ENGL102	Course title: English II
	This course is a continuation of ENGL101 – English I. It involves further development of students' EAP oral and written communication skills as well as further development of the study skills essential to success at this level.	

11a.	Course code: HIST100	Course title: History of Turkish Republic
	This course is designed to provide Turkish-speaking students enrolled in English-medium programs	

	with a brief historical account of the Republic of Turkey.	

11b.	**Course code: TURK100**	**Course title: Turkish as a Second Language**
	This course is designed to provide international students with the basic lexis and grammar of the Turkish language and to develop basic receptive and productive skills in Turkish.	

12.	**Course code: INAD201**	**Course title: Interior Architecture Studio I**
	User requirements, action, equipment, scale, space organization, indoor and outdoor relationship; solutions of uncomplicated design problems that students can easily comprehend in these subject areas.	
13.	**Course code: ARCH203**	**Course title: Ergonomics And Universal Design In Architecture**
	In this course, students will learn about human factors ergonomics (HFE) and its implications for the design process. Anthropometry and usage of this terminology in design is an important aspect of this course. Students will learn about the basic dimensions of body and the way these can be used in design, as well as about issues related to disability, universal design and human behaviors in space. Ergonomics is a multi-disciplinary science, and a diverse range of subjects will be explored.	
12.	**Course code: INAD201**	**Course title: Interior Architecture Studio I**
	User requirements, action, equipment, scale, space organization, indoor and outdoor relationship; solutions of uncomplicated design problems that students can easily comprehend in these subject areas.	
13.	**Course code: ARCH203**	**Course title: Ergonomics And Universal Design In Architecture**
	In this course, students will learn about human factors ergonomics (HFE) and its implications for the design process. Anthropometry and usage of this terminology in design is an important aspect of this course. Students will learn about the basic dimensions of body and the way these can be used in design, as well as about issues related to disability, universal design and human behaviors in space. Ergonomics is a multi-disciplinary science, and a diverse range of subjects will be explored.	
14.	**Course code: ARCH205**	**Course title: Building Materials and Construction I**
	This course is based on the tectonics of building and construction methods according to the systems approach (all types of masonry; brick, stone, timber with or without tie beams). It also serves as an introduction to basic types of skeletal structures, and includes a presentation of construction types and construction methods with examples considering building elements (wall, floor, roof, stairs, partitions) and building materials (metals, cement based, wood, natural stone, earth based, bitumen based, glass, polymers), and construction of possible cladding systems, to be used with these systems.	
15.	**Course code: ARCH207**	**Course title: History of Architecture I**
	This course explores the cultural and historical development of art and architecture f rom the era of early settlements and examples of monumental architecture in Mesopotamia, Egypt, Anatolia and the Mediterranean until the late Antique and Byzantine period. This will enable students to grasp the dynamics of architectural change as a part of other developments in the field of culture and society.	

16.	Course code: ARCH211	Course title: Computer Aided Design
	This course is an introduction to using Computer Aided Design (CAD) to design residential and commercial buildings. AutoCAD software, which is being used by architects for 2D drafting will be used in this course. Students will start with step-by-step instructions to solve a variety of drafting/design problems and progress to a point where they can choose their own projects and solutions. Students will be taught basic CAD commands, tools, multi-view drawing, and dimensioning techniques. Introduction to computer, basic computer training, Microsoft Office (word, power point, excel, etc.) programs, AutoCAD drawing program to teach respectively.	
17.	Course code: INAD204	Human Goods Relations in Interior Architecture Design
	Starting from the human-environment relationship, the physical environment-human relationship, human and human dimensions, parts of the dwelling and examining the spaces depending on these parts.	
18.	Course code: INAD202	Course title: Interior Architecture Design Studio II
	The subjects that will enable the human to work, by focusing on the physical, social and psychological needs of practical problems. In this period, basic concepts and design methods for residential interiors and structures are studied. Individual and group needs are determined by associating with personal family and institutional experiences.	
19.	Course code: NAD203	Course title: Advanced Computer Aided Design
	Preparing computer modeling, obtaining 3-D real images of prepared drawings, preparing animations, teaching presentation techniques and preparing presentations.	
20.	Course code: ARCH206	Course title: Building Materials And Construction II
	This course provides students with the knowledge and skills required for wide span roof structures (folded plate, space frame, membranes, dome, truss systems etc.) in macro scale and staircases, windows, doors with their own detailing in micro scale. All kinds of possible construction methods with special finishing details will be examined. The integration of building elements through practices such as external wall systems, window and door systems, floor systems (ground, intermediate and exposed-soffit floors, suspended ceilings, raised floors), vertical circulation systems (ramps and stairs), roof systems (flat and sloped roofs) and partition systems (fixed and moveable partitions), will also be discussed. Also examined are; the design of building element systems within the framework of constructional design requirements, the integration of building element systems in line with the holistic approach and the performance of building materials in buildings	
21.	Course code: ARCH209	Course title: Ecological Issues and Building Design
	This course is an introduction to the theory and practice of ecological approaches to architectural design. Historical and theoretical frameworks for ecological design thinking are presented with a focus on basic ecological design principles and concepts in micro and macro scale, which is going to focus on the small scale (buildings) and the larger scale (urban patterns). The course also aims to raise the environmental issues of major significance today, specifically in relation to land, water, air, and energy and material resources.	
22.	Course code: INAD205	Course title: Space Information
	Space: Definition of Space, Concept of Space in Interior Architecture, Elements of Formation of Space, Principles of Organization in Space: Definition of Design, Design Elements, Design Methods: Perception: Definition of Perception, Perception Process, Perception Psychology, Design Laws, Perception of Space in Interior Architecture: Analysis: Analysis Definition, Purpose of Analysis, Methods of Analysis, Space Analysis, Physical and Psychological Analysis of Space.	
23.	Course code: INAD301	Course title: Interior Architecture Design Studio III
	The effects of human needs, culture and perception issues on designing problems are discussed through interior arrangements for use in offices, shops.	
24.	Course code: ARCH303	Course title: Principles and Approaches Of Conservation And Restoration
	The course offers students awareness of different approaches to conservation and restoration of cultural heritage over time, and how these have led to the modern theory of conservation and the international conservation doctrine. Topics include cultural heritage, measured drawing techniques; concepts of conservation, preservation, revitalization, restoration; restoration techniques.	
25.	Course code: INAD303	Course title: Detailing Studio
	This is a studio work to use and evaluate building and material knowledge to obtain conceptual and detail solutions to interior architecture problems.	
26.	Course code: INAD305	Course title: Turkish Handicrafts
	To make drawing sketches of natural or mechanical objects to improve drawing techniques. The	

	transfer of any region selected in interior and exterior spaces to paper with different techniques, detailing and presentation with photographic works in order to improve the perception of space. Sketching studies and finalize the details of the space by using different materials such as collage technique and clay. Teaching Methods and Techniques Used in the Course :(Presentation, Discussion, Lecture, Project Work, Laboratory Work, etc.). The different stages and techniques are taught to the students with special projects. These techniques, drawing techniques, painting techniques, the application of color in painting, (watercolor, oil painting, pastel, dry pencil, acrylic, liquid painting techniques) printing, photography, clay works, relief technique (relief), collage (bonding technique), stone carving, balance work with stones, fabric printing, sculpture, paper arts and so on. Covers.	
27.	**Course code: INAD302**	**Course title: Interior Architectural Design Studio Iv**
	The effects of human needs, culture and perception on creating design problems are discussed through interior arrangements for use in offices and shops.	
28.	**Course code: INAD304**	**Course title: Furniture Design**
	All kinds of materials (wood-metal-plastic-fabric-glass, etc.) to provide the necessary training to be able to design.	
30.	**Course code: INAD306**	**Course title: Interior Architecture Theory**
	Interior design space, aesthetics, design principles and process, color concept and applications, lighting principles, visual communication, perception, design trends	
31.	**Course code: INAD307**	**Course title: Product Details**
	All kinds of materials (wood-metal-plastic-fabric-glass, etc.), the structure of the designed product to provide the necessary training in terms of appropriate detailing methods.	
32.	**Course code: ARCH306**	**Course title: Sensory Architecture: Light and Sound**
	The main principles of artificial lighting system design (light sources, luminaires, control mechanism) will be introduced. Definitions and related standards on visual comfort will be analyzed. Energy efficiency and lighting energy performance of buildings will be analyzed. Architectural acoustics will be introduced. Fundamental acoustics terminology will be taught. Noise control, sound isolation, volume acoustics, sound amplification will be discussed.	
33.	**Course code: INAD401**	**Course title: Interior Architecture Design Studio V**
	Presentation of the project with application details of the analysis of the interior arrangements of the functional requirements of the existing spaces with wide openings.	
34.	**Course code: INAD402**	**Course title: Graduation Project**
	To relieve the built volume or based on architectural projects in design, define the volume, specify environmental data, and provide information from these analyses to help design that can be responsive.	
35.	**Course code: INAD403**	**Course title: Protection of Historical Interiors: History and Theory**
	General concepts related to the subject, the history of surveying protectionism, values to be protected and protection criteria, evaluation of immovable cultural properties, factors, damage to buildings caused by people, application study.	
36.	**Course code: INAD404**	**Course title: Interior Architecture Design Professional Application**
	Preliminary project drawing, wage calculations, application project and detail drawing, general and special technical specifications and preparation of special administrative specifications, contract, preparation of tender dossier and progress report preparation.	
	Course code: ARCH405	**Course title: Research Methods**
	This course aims to prepare students for graduation projects by analyzing the site locations, topics and other factors, which affect their final design projects. It surveys architectural research methods that use primary and secondary sources and materials to study historical and contemporary issues involved in the built environment. Academic integrity and ethical issues in academia and research.	
37.	**Course code: INAD405**	**Course Title: Building Economics in Interior Architecture**
	Field of view of economic institution, price system, theories about consumer property, theoretical approaches with production cost pair; income distribution. Overview of measurement techniques; advanced cost and design analysis in price systems, quantity, calculation methods related to discovery.	

1.	**Course code: ARCH210**	**Course title: Art and Ideas in Landscape Architecture**
	The purpose of this introductory course is to instill an understanding of the profession of landscape architecture, a profession defined as an art and science of planning or designing on the land, arranging and creating spaces and objects in a landscape for human use.	
2.	**Course code: ARCH213**	**Course title: Interior Design for Architects**
	This course is the introduction to the basics of interior design, to create basic understanding how interior design deals with. The details about the form, scale, proportion, light color, texture, materials and furniture's will be investigated. Perception of space will be important according to factors of style, aesthetics, safety and re-use will be dealt with this course.	
3.	**Course code: ARCH309**	**Course title: Evolutionary Thinking and the Potentials of Environment**
	The main concepts of the evolutionary thinking and potentials of environment to give a basic information of evolution such as evolutionary thinking, evolution of architecture. Beside this it also goes in to deeper understanding about environment and relations to human and a built environment. Analyzing the environment, can give solutions to find out more sustainable life qualities either on socio economic, socio cultural and socio physical topics**.**	
4.	**Course code: ARCH310**	**Course title: Vernacular Architecture**
	Theories and principles of vernacular architecture – influence of climate, geographical features, occurrences of disasters and social cultural setup – vernacular architecture in different regions of – vernacular style of Anatolia, Asia, India, Iran, etc. evolution of form, construction materials and techniques of regional architecture.	
5.	**Course code: ARCH311**	**Course title: Cinematographic Perception and Architecture**
	Cinema's holistic approach provides and unrevealed form of spatial and urban modelling of the real world, encompassing weather, comfort, aspirations, dreams, nightmares, social spatial and cultural conditions. As Patrick KIELLER mentioned 'In film, one can explore the space of past in order to better anticipate the space of future.	
6.	**Course code: ARCH411**	**Course title: History of Urban Image**
	This course provides an overview of the development of urban image, explores how the way we think about urban areas has evolved over time, and reflects on how both continue to inform the modern profession of urban planning. The course will examine the origins and evolution of the urban world as well as human attempts to intervene and manipulate it. The perceptual characteristics of the urban environment, stressing the ways that individuals mentally organize their own sensory experience of cities. Increasingly, however, city imaging is supplemented and constructed by exposure to visual media, rather than by direct sense experience of urban realms. City images are not static, but subject to constant revision and manipulation by a variety of media-savvy individuals and institutions. In recent years, urban designers (and others) have used the idea of city image proactively-- seeking innovative ways to alter perceptions of urban, suburban, and regional areas. City imaging, in this sense, is the process of constructing visually based narratives about the potential of places. This media-enriched image-building process involves not only place-based and form-based visions but also strategies for economic opportunity and environmental stewardship. Place promotion transcends economics-grounded efforts to attract new investment; it is also a strategy for reinforcing (or reconstructing) city image. As such, it always matters who builds these images, for which reasons, and for whom. Image-building efforts encompass not only changes to the built environment but also encode broad conceptual orientations; image-making is about finding new ways (and new technologies) to represent and promote cleaner environments, better communities, and socio-economic progress, yet images may also serve to mask or perpetuate existing inequalities. Images may be promoted in service of some broad "public good," but they are also subject to extreme manipulation by market forces that resist any such wider efforts to plan.	
7.	**Course code: ARCH313**	**Course title: The Architecture Imagination**
	The concept of space and its components defines the architectural space use. The traditional and contemporary approaches make the space work. Space organizations and spatial changes defines architectural space. Knowing different building typologies and basic principles of design are fundamental sources of architectural imaginations. Space analysis and techniques, classification of spaces and building types are alphabet of the architectural space. Space analysis based on form and morphology is helping to understand the space. The exploration and experience of analysis techniques referred to different scale of spaces with experimental learning. The aim of the course is to lend	

	students analytical vision in understanding the behavior of structural components and formative ideas of buildings that is in physical environments. Non-destructive analysis techniques are also introduced. The domain of design ideas lies within the formal and spatial realm of architecture, and thus it is this course that is explored. To communicate the analysis of buildings and formative ideas in this course, a set of diagrams is utilized. The diagrams are drawing that, as abstractions, are intended to convey essential characteristics and relationships in a building. Students are expected to analyses different buildings to understand the architectural imagination of designers during the semester.
8.	**Course code: ARCH406** **Course title: Emerging Architecture**
	Architecture is a practice that covers many fields of art and science and has a role to response, divert and propose possible spatial solutions for not only human being but every living creature in every social and physical condition. This design based course is aiming to question possibilities and develop alternative architectural concept proposals in extraordinary situations and extreme conditions. For example, possible scenarios of the life in earth in the future, considering global warming or the next ice age. Considering the life in another planet. Questioning various types of natural disasters and proposing emergent architectural solutions. Analyzing human/animal behaviors and developing an abstract architectural proposal for the case. Thinking of surreal scenarios and living conditions and developing a proposal for that situation and etc.
9.	**Course code: ARCH412** **Course title: Introduction to Smart Cities**
	This elective course aims to providing an international, interdisciplinary perspective on how to integrate nature and technology in order to create smart cities. Firstly, smart buildings and smart technologies will be discussed in order to understand how they make building operations more efficient, and how we can take advantage of the outside world of the building by integrating smart technologies. Secondly, how nature can be integrated in the building, how we can use natural resources in more sustainable ways, and what influence the occupant's behavior has on the functioning of the implemented technology will be discussed. Thirdly, why we have to understand the building as a part of a larger urban system will be discussed.