



**DEPARTMENT OF ARCHITECTURE
UNIVERSITY OF THE PUNJAB, LAHORE.**

**BACHELORS OF ARCHITECTURE (B. ARCH)
5 YEARS PROGRAM**

COURSE OUTLINE

Course Title	Theory of Architecture I
Course Code	ARCH-324
Credit Hours	2
Semester	Fall
Prerequisites	NA
Tutor	As per Timetable
Student Advising	As per Timetable
Contact	-

Teacher Signature

Chairman Signature

Course introduction

Graphical and critical analysis of architecture to develop theoretical understanding. It involves examination of architecture to recognize, and study thought processes and theoretical discourses in order to understand the theoretical framework of any architecture. This will further set the basis for understanding of design processes, pertinent to systematically create a building, in limited and architecture in a broader context.

The model used for this, is the city which has proved to be an enduring archetype throughout history.

Learning Objective:

This course will introduce students to the key elements of architectural theory. Upon completion of the course students will be required to demonstrate a comprehensive understanding of the main streams of theory together with how they impact upon architectural practice.

Outcome

Outcome of the course is

1. The inculcation of the ability in students to understand and challenge the current perceptions and norms in architecture by scrutinizing the historical and contemporary architectural treatises considering the historical, social, esthetic and cultural stimuli.
2. Skill of Critical and Graphical analysis of Architecture

Understanding of architectural theories and practices over the course of time

Learning Methodology:

- Lectures as provided in the schedule of the semester activities
- Study of Archival Material and recommended books
- Guest Lectures as per requirement
- Presentation on allocated topics

Grade Evaluation Criteria

Following, is the criteria for the distribution of marks to evaluate final grade in a semester.

Marks Evaluation	Marks in percentage
Sessional (Assignments, Quizzes, Presentations)	30
Mid Term	30
Final examination	40
Total	100

Course Title:	Theory of Architecture
Code Number:	Arch 223
Credit Hours:	2
Pre-requisites:	None
Course Instructor:	Sadia Saif ur Rehman Naru
Course Introduction	<p>Graphical and critical analysis of architecture to develop theoretical understanding. It involves examination of architecture to recognize, and study thought processes and theoretical discourses in order to understand the theoretical framework of any architecture. This will further set the basis for understanding of design processes, pertinent to systematically create a building, in limited and architecture in a broader context.</p> <p>The model used for this, is the city which has proved to be an enduring archetype throughout history.</p>
Objectives	<p>To develop in students:</p> <ul style="list-style-type: none"> • Theoretical foundation/framework to create/design a building/architecture, • skill of critical thinking and analysis (investigation, examination and asking questions about design decisions/processes)
Outcome	<p>Outcome of the course is</p> <p>3. The inculcation of the ability in students to understand and challenge the current perceptions and norms in architecture by scrutinizing the historical and contemporary architectural</p>

	<p>treatises considering the historical, social, esthetic and cultural stimuli.</p> <p>4. Skill of Critical and Graphical analysis of Architecture</p> <p>5. Understanding of architectural theories and practices over the course of time</p>
Methodology	Teaching Methodology is based on class lectures, documentaries and open discussions.
Content	
Unit 1	<p>1.1 The Beginning- human thinking and cognition</p> <p>1.1.1 Introduction to epistemology, rationalism and empiricism.</p> <p>1.1.2 Importance of Critical thinking in architecture</p> <p>1.1.3 Introduction to concepts such as tangible/intangible, Intellectual/practical, symbolical.</p> <p>1.1.4 Embodied cognition</p> <p>1.1.5 Introduction to Manifestation of ideas and Architecture as a mode of Communication</p> <p>1.1.6 Paradigms- to explain the idea of Architecture as a mode of communication (Case study: Daniel Libeskind’s Jewish Museum, Berlin)</p> <p>1.1.7 What is theory? Difference between Architectural theory and Design theory</p> <p>1.1.8 Architecture as a didactic theory</p> <p>1.1.9 Tradition of “Main Architects” in Architectural theory</p>
Unit 2	2.1 Vitruvius- Nature of Knowledge through doing

	<p>2.1.1 Importance of Vitruvian Principles in Architectural theory</p> <p>2.1.2 Vitruvian theories, <i>Vitruvian triad</i>,</p> <p>2.1.3 Evolution of the Greek order and usage in Roman Architecture</p> <p>2.1.4 Ten books on Architecture</p>
Unit 3	<p>3.1. Developments in Architectural Theory 16th and 17th century</p> <p>3.1.1 Theories of Art and architecture in Middle ages, causes of shift to renaissance and evolution of Architecture as a result</p> <p>3.1.2 Introduction to Renaissance, Leon Battista Alberti's <i>De Re Aedificatoria</i> (1485)</p> <p>3.1.3 Theoretical Developments throughout and as a result of Renaissance, exemplified in the works of various Theorists and Architects</p> <p>3.1.4 Advent of Enlightenment, Baroque, Roccoco- theoretical framework, historical and social catalysts and impact on the architectural development in society</p>
Unit 4	<p>4.1 Developments in Architectural Theory 18th and 19th century</p> <p>4.1.1 Understanding the evolution of thought processes in design and architecture, in the 18th and 19th century with examination of social constructs that acted as stimuli</p> <p>4.1.2 Studying the various movements of Architecture with the emphasis on finding identity and originality. (Romanticism, Impressionism, Gothic revival by Ruskin, Art deco and Art nuovo etc.),</p> <p>4.1.3 Revivalist architecture on a global scale as a result of colonialism</p> <p>4.1.4 Exploring the theoretical Link between Arts and Architecture</p> <p>4.1.5 Theories as pre-cursors to Modernism</p>

<p>Unit 5</p>	<p>5.1 Developments in Modernism</p> <p>5.1.1 Delving into the theoretical background of Modernism</p> <p>5.1.2 Early Modernism- Architects, Frank Lloyd Wright and his works- prairie style etc.</p> <p>5.1.3 Examining the works of Masters: Louis Sullivan “form follows Function”</p> <p>5.1.4 Eliel Saarinen</p> <p>5.1.5 The idea of Utopia and utopian theories in Architecture of Modernism</p> <p>5.1.6 City Beautiful Movement</p> <p>5.1.7 Garden city concept</p> <p>5.1.8 Architecture of exclusion, less is More</p> <p>5.1.9 Uniformity and Globalism in Modern Architecture</p>
<p>Unit 6</p>	<p>6.1 Developments in Modernism</p> <p>6.1.1 Le Corbusier- towards a new architecture</p> <p>6.1.2 Adolf Loos</p> <p>6.1.3 Mies Van Der Rohe- less is more</p> <p>6.1.4 Philip Johnson</p> <p>6.1.5 The Bauhaus School of Thought</p> <p>6.1.6 The international Style</p> <p>6.1.7 Brutalism</p> <p>6.1.8 Various Modernist Movements and transitions</p>

Unit 7	7.1 Decline of Modernism 7.1.1 Causes 7.1.2 Impacts 7.1.3 Counter theories 7.1.4 The Case of Pruitt Igoe
Unit 8	8.1 Early theories enroute to Post Modernism (1960s-1970s) 8.1.1 Re-establishing connections with nature, man and architecture 8.1.2 Reactionary theories to Modernism 8.1.3 Criticism on Modernism- technicalities 8.1.4 Architecture of the changed times 8.1.5 Archigram 8.1.6 Peter Cook- walking city 8.1.7 The marine city 8.1.8 Spatial city, 8.1.9 ekistics, 8.1.10 Metabolists, 8.1.11 structuralism, 8.1.12 semiotics, 8.1.13 Neo-Rationalism
Unit 9	9.1. Robert Venturi- Complexity and Contradiction 9.1.1 Less is a bore 9.1.2 Learning from Las Vegas 9.1.3 Ducks Vs Sheds 9.1.4 Case study- Guild house, Vanna Venturi house
Unit 10	10.1 High Tech Architecture 10.1.1 Manifesting the spirit of Age 10.1.2 Architecture of Inclusion Vs Architecture of Exclusion 10.1.3 Interdisciplinary References in Architecture 10.1.4 Theoretical Constructs 10.1.5 Theoretical framework and architecture of famous Architects exhibiting the style: i) Richard Rogers ii) Renzo Piano iii) Norman Foster iv) Michael Hopkins v) Jean Nouvel
Unit 11	11.1 Post Modernism- Explained 11.1.1 Development 11.1.2 Characteristics 11.1.3 Theoretical Constructs 11.1.4 Inclusion Vs Exclusion 11.1.5 Significant Postmodern Theories (Deconstructivism)
Unit 12	12.1 Organic Architecture 12.1.1 Theoretical Constructs 12.1.2 Charles Jencks 12.1.3 Frank Lloyd Wright

	<p>12.1.4 Contemporary Architects practicing organic architecture:</p> <ul style="list-style-type: none"> i. Javier Senosiain ii. Kendrick Bangs Kellogg. iii. Eric Corey Freed. iv. Shirish Beri v. James Wines. vi. Bart Prince vii. Robert Harvey Oshatz
Unit 13	<p>13.1 Critical Regionalism</p> <ul style="list-style-type: none"> 13.1.1 The need and significance of critical regionalism 13.1.2 Kenneth Frampton and other theorists 13.1.3 Difference between critical regionalism and regionalism 13.1.4 Creating a harmony with nature 13.1.5 Prominent Architects: 13.1.6 Geofferey Bawa 13.1.7 Raj Rewal 13.1.8 Alvaro Siza 13.1.9 Charles correa 13.1.10 Rafael Moneo 13.1.11 Cristopher Beninger <p>13.2 Architecture of the Senses</p> <ul style="list-style-type: none"> 13.2.1 Hapticity- Juhanni Pallasma, 13.2.2 Phenomenology- Genius Loci- Steven Holl 13.2.3 Revisiting Tangible and Intangibles in Architecture- Tadao Ando 13.2.4 Poetics of Architecture- Anthony C Antoniades <p>13.3 Examples of Critical Regionalism in Asia</p>
Unit 14	<p>14.1. Theoretical Developments in East comparison with the west</p> <ul style="list-style-type: none"> 14.1.1 Culture, history, economy 14.1.2 Understanding the development of Architectural theory in East 14.1.3 Comparison between the development of architectural theory in East and West 14.1.4 Relationship of Variety in Architectural theories and development social change 14.1.5 How thoughts processes changed in the west and how were they influenced in the East- sociocultural aspects 14.1.6 Effects of Governance and leading authority-Autocracy/ Democracy, Religion/Secularism on Architectural thought processes 14.1.7 Silk route effect- theoretical explorations and thought processes 14.1.8 The Khanqah Architecture 14.1.9 The Madrassah Architecture 14.1.10 Case Studies 14.1.11 Course overview 14.1.12 Conclusion

Recommended Books/References	<ol style="list-style-type: none"> 1. Rahim. Contemporay Techniques in Architecture. 2. Burden. Visionary Architecture. 3. Kulin. Architecture Programming 4. Fancett. Architecture Design Notebook. 5. Steale. An architecture for People. 6. Schestyen. New Architecture and Technology 7. Geleanter. Sources of Architectural forms 8. Fil Hearn. Ideas that shaped buildings 9. Vale. Architecture, Power and National Identity 10. Bloomer. Body, Memory and Architecture. 11. Schultz. Genius Loci 12. Watkin. A history of Western architecture. 13. Harbison. Travels in the history of architecture 14. Singh. Encyclopedia of "World Art and Architecture" Vol 1, Vol2, Vol 3. 15. Ching. Architecture: Form, Space, and Order, 4th ed. Hoboken, NJ: John Wiley & Sons, 2015. 16. Clark & Pause. Precedents in Architecture: Analytic Diagrams, Formative Ideas, and Partis 17. Moneo. Theoretical Anxiety and Design Strategies in the Work of Eight Contemporary Architects 18. Ching, Jarzombek and Prakash. A Global History of Architecture 3rd Edition 19. Pallasma. The eyes of the skin 20. Tzonis A. and Lian L. Critical Regionalism: Architecture and Identity in a Globalized World 21. Ching. graphic analysis of building complex/ lecture in sketchbooks 22. Ching. Graphic analysis of city/ urban district lecture in sketchbook 23. Kevin Lynch. Image of a city 24. Vitruvius. Ten books on architecture 25. Wittkower. Architecture Principle in the age of humanism- Renaissance 26. Le- Corbusier. Towards a new architecture 27. Venturi. Complexity and Contradiction 28. Edward Bacon. Design of cities 29. Aldo Rossi. The Architecture of the city 30. Rob Krier. Urban Space 31. Jane Jacobs. The death and life of great American cities 32. Modernity in Architecture, Kamil Khan Mumtaz 33. Gideon. Architecture, you and Me 34. Malgrave. Architectural Theory Vol. 1 and Vol. 2 35. Rykwert, Leach, Tavernor. Leon Batista Alberti- on the Art of Building in Ten Books
-------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------