

GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD, GUJARAT

Course Curriculum

History of Architecture (World) (Code: 3335004)

Diploma Programme in which this course is offered	Semester in which offered
Architectural Assistantship	3rd Semester

1. RATIONALE

This course is necessary for students to realize and expand their knowledge regarding various architectural styles of the world and their historic evolution. Students become aware of factors like climate, geographical location, culture, construction technology; etc and how these influence architectural styles around the world. Students may also feel stimulated from this course by learning that a good architectural structure is admired by all for centuries.

2. COMPETENCY (Programme Outcome according to NBA Terminology):

The course content should be taught and implemented with the aim to develop different types of skills so that students are able to acquire following competencies:

- **Explain various characteristics of architecture of different civilizations and different periods of world history and factors influencing them.**

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				
				Theory Marks		Practical Marks		Total Marks
L	S/T	P	C	ESE	PA	ESE	PA	
3	0	0	3	70	30	0	0	

Legends: L-Lecture; S/T- Tutorial/Teacher guided theory Practice – Studio; P - Practical; C – Credit; ESE - End Semester Examination; PA - Progressive Assessment

4. DETAILED COURSE CONTENT

Unit	Major Learning Outcomes (Course Outcomes in Cognitive Domain according to NBA terminology)	Topics and Sub-topics
Unit – 1 Egyptian Architecture	1a. State the important characters of Egyptian architecture 1b. Explain construction systems and materials used for tomb architecture 1c. Illustrate with sketches the temple architecture of Egypt 1d. Explain the great Sphinx of Chephren with sketches.	1.1 Architectural Character 1.2 Tomb architecture <ul style="list-style-type: none"> • Mastabas • Stepped Pyramid - (Step Pyramid of Zaser) • Pyramid (Great Pyramid of Cheops at Gizeh) 1.3 Temple architecture <ul style="list-style-type: none"> • Temple at Karnak 1.4 Great Sphinx of Chephren
Unit– 2 Greek Architecture	2a. Explain various elements of Greek Architecture. 2b. Discuss the features of the classical orders 2c. Describe with the help of neat sketches the tical corrections followed in Greek Architecture 2d. Illustrate with sketches the planning of ropolis at Athens 2e. Describe ‘Parthenon’ with the help of neat sketches	2.1 Introduction 2.2 Classical orders- <ul style="list-style-type: none"> • Doric • Ionic • Corinthian 2.3 Optical Corrections 2.4 Acropolis at Athens 2.5 Parthenon
Unit – 3 Roman Architecture	3a. Explain elements of Roman Architecture with help of sketches. 3b. Describe with the help of neat sketches construction techniques of Roman architecture 3c. Give details about <ul style="list-style-type: none"> - Pantheon - Collosseum 	3.1 Architectural Character 3.2 Construction techniques 3.3 Temples & amphitheaters <ul style="list-style-type: none"> • Pantheon • Collosseum
Unit – 4 Byzantine & Romanesque Architecture	4a. Identify the architectural features of Byzantine architecture 4b. Describe the planning of Hagia Sophia 4c. Explain elements Romanesque architecture with help of neat sketches. 4d. Describe Pisa cathedral with heat sketches.	4.1. Architectural Character 4.2. Study of features of Hagia Sophia, Istanbul (Constantinople) 4.3. Introduction to Romanesque Architecture and Study of Pisa Cathedral, Campanile, Pisa(Italy)
Unit – 5 Gothic Architecture	5a. Explain elements and characteristics of Gothic architecture with help of neat sketches 5b. Describe with heat sketches- Notre Dame Paris	5.1 Architectural Character 5.2 Study of all features a typical Gothic cathedral 5.3 Study of Notre Dame Paris
Unit – 6 Renaissance Architecture	6a. Enlist the features of Renaissance buildings 6b. Describe with heat sketches- St. Peter’s Rome	6.1. Features of Renaissance buildings 6.2. Study of St. Peter’s Rome

5. SUGGESTED SPECIFICATION TABLE WITH HOURS (Theory)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
1.	Egyptian Architecture	12	02	07	06	15
2.	Greek Architecture	12	02	07	06	15
3.	Roman Architecture	10	02	07	04	13
4.	Byzantine & Romanesque Architecture	06	02	03	04	09
5.	Gothic Architecture	06	02	03	04	09
6.	Renaissance Architecture	06	02	03	04	09
	Total	42	12	30	28	70

Legends: R = Remember; U = Understand; A = Apply and above levels (Bloom's revised taxonomy)

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

6. SUGGESTED LIST OF EXERCISES/PRACTICAL

The practical/exercises should be properly designed and implemented with an attempt to develop different types of practical skills (**Course Outcomes in psychomotor and affective domain**) so that students are able to acquire the competencies (Programme Outcomes). Following is the list of practical exercises for guidance.

Note: Here only Course Outcomes in psychomotor domain are listed as practical/exercises. However, if these practical/exercises are completed appropriately, they would also lead to development of **Programme Outcomes/Course Outcomes in affective domain** as given in a common list at the beginning of curriculum document for this programme. Faculty should refer to that common list and should ensure that students also acquire those Programme Outcomes/Course Outcomes related to affective domain.

S. No.	Unit No.	Practical/ Exercises (Course Outcomes in Psychomotor Domain according to NBA Terminology)
1	01	Make 2 sketches each of pyramid and temples of Egyptian architecture
2	02	Make 2 sketches each of classical orders and acropolis at Athens
3	03	Make 2 sketches of Colosseum and Pantheon
4	04	Make 2 sketches of Hagia Sophia and Pisa Cathedral
5	05	Make 4 sketches of Notre Dame Paris and features of Gothic architecture
6	06	Make 2 sketches of St Peters Rome

Note: Exclusive time for these exercises is not allotted in time table. Students have to take out time for sketching at home during weekend or holidays.

7. SUGGESTED LIST OF STUDENT ACTIVITIES

Students will carry out activities like: presentation on architecture around the world, gather information on different periods of architecture and great examples of architecture throughout history by way of library based/internet based mini projects, etc. These could be individual or in a group.

8. SPECIAL INSTRUCTIONAL STRATEGIES (If Any)

Documentaries on different civilizations belonging to different parts and periods of the world history should be shown to students. These documentaries should have focus on relevant architecture with corresponding culture and factors influencing the architecture.

9. SUGGESTED LEARNING RESOURCES

A. List of Books

Sr. No.	Title of Book/Journals	Author	Publication
1.	History Of Architecture	Sir Banister Fletcher	CBS publications, Delhi
2.	Living Architecture Series	Masuda	Tomoya
3.	Meaning in Western Architecture	Christian Norberg Schulz	Rizzoli

B. List of Major Equipment/ Instrument

C. List of Software/Learning Websites

10. COURSE CURRICULUM DEVELOPMENT COMMITTEE

Faculty Members from Polytechnics

- **Prof. Bhaskar J. Iyer**, H.O.D Architecture, Govt. Polytechnic, Vadnagar
- **Prof. Vishal K. Mashruwala**, Lecturer in Architecture, Govt. Polytechnic for Girls, Surat
- **Prof. N. M. Chhatwani**, Lecturer in Architecture, Govt. Girls Polytechnic, Ahmedabad

Coordinator and Faculty Members from NITTTR Bhopal

- **Prof. J.P. Tegar**, Professor and Head Department of Civil and Environmental Engineering
- **Dr. V. H. Radhakrishnan** Professor Civil and Environmental Engineering