

**GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD, GUJARAT
COURSE CURRICULUM**

Course Title: History of Architecture (Indian)
(Code: 3325004)

Diploma Programme in which this course is offered	Semester in which offered
Architectural Assistantship	Second Semester

1. RATIONALE

This course is essential for students to appreciate and acquire knowledge regarding various architectural styles of ancient India and their historic evolution with respect to factors influencing them e.g. climate, geographical location, culture, construction technology, etc. This course plays a significant role of inspiring students to learn about and appreciate a well-designed architectural structure and also understand that such a building gets admired by all for centuries.

2. LIST OF COMPETENCIES

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

- i. Identify various periods of Indian Architectural history and factors affecting them.
- ii. Explain various characteristics of Architectural analogy in Indian Architecture

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				Total Marks
L	T	P		Theory Marks		Practical Marks		
L	T	P	C	ESE	PA	ESE	PA	100
3	0	0	3	70	30	00	00	

Legends: L-Lecture; T – Tutorial/Teacher Guided Theory Practice; P - Practical; C – Credit ESE - End Semester Examination; PA - Progressive Assessment.

Note: It is the responsibility of the institute heads that marks for **PA of theory & ESE and PA of practical** for each student are entered online into the GTU Portal at the end of each semester within the dates specified by GTU.

4. DETAILED COURSE CONTENT

Unit	Major Learning Outcomes	Topics and Sub-topics
Unit – 1 Ancient Indian Architecture	1.a Differentiate between history and history of Architecture. 1.b Explain the importance of history of architecture. 1.c Enlist various periods of Indian architecture 1.d Elaborate the factors affecting architectural history. 1.e Describe with help of neat sketches the planning, construction systems and use of materials during Indus valley civilization. 1.f Describe with the help of neat sketches the planning, construction systems and use of elements in a Vedic Village.	1.1 History & history of architecture <ul style="list-style-type: none"> • Difference • Importance • Periods • Factor Affecting Architecture 1.2 Indus Valley Civilization: Planning, construction systems and materials. e.g. Harappa and Mohen-jo-Daro 1.3 Vedic Village: Planning, Characteristics Forms & Construction of Hut, Railing & Gate
Unit– 2 Architecture of Buddhist Period	2.a Explain Elements of Buddhist Architecture with help of neat sketches. 2.b Explain the architectural features of <i>the given building or a structure</i> with neatly labelled sketches for e.g. <ul style="list-style-type: none"> • Stupa at Sanchi • Chaitya Hall at Karle 	2.1 Background of Buddhist Architecture 2.2 Stambha : Its character study of Ashoka Pillar, 2.3 Stupa : Architectural Character of Sanchi Stupa 2.4 Chaitya: Architectural Character of Karle Chaitya Hall 2.5 Vihara: Development of Vihara at Ajanta Caves
Unit – 3 Rock Cut Architecture	3.a Explain the architectural features of Kailash Temple with neatly labelled sketches. 3.b Describe The Rathas at Mahabalipuram with the help of neatly labelled sketches.	3.1 Kailash Temple at Ellora 3.2 Rathas of Mahabalipuram
Unit – 4 Temple Architecture	4.a Explain various parts of a typical temple with help of neat sketches. 4.b Explain, draw and label the specified building for, <ul style="list-style-type: none"> • Sun Temple, Modhera • Sun Temple, Konarak 	4.1 Typical temple : Architectural characteristics and planning 4.2 Aihole & Badami Temple-Durga and Ladkhan temple 4.3 Lingraj Temple - Bhubaneswar 4.4 Sun Temple Konark & Modhera 4.5 Kandaria Mahadev Temple
Unit – 5 Islamic Architecture	5.a Explain elements of Islamic Architecture with help of neat sketches. 5.b Explain various parts of a mosque with help of neat sketches. 5.c Describe <i>the given building or a structure</i> with a neatly labelled sketch.eg. Taj Mahal, Qutub Minar, etc. 5.d Explain the planning of Fatehpur Sikri with the help	5.1 Islamic period : Architectural Characteristics 5.2 Typical Mosque : Architectural characteristics and planning 5.3 Comparison of Mosque with temple

Unit	Major Learning Outcomes	Topics and Sub-topics
	of sketches.	5.4 Mosques : Jama Masjid Ahmedabad & Delhi 5.5 Tombs :Taj Mahal, Gol Gumbaz 5.6 Qutub Minar 5.7 Fatehpur Sikri: Planning of Fatehpur Sikri, Salim Chistie's Tomb, Buland Darwaja, Diwan –e –Aam, Diwan –e - Khas

5. SUGGESTED SPECIFICATION TABLE WITH HOURS & MARK (THEORY)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total Marks
1.	Ancient Indian Architecture	06	02	03	04	09
2.	Architecture Of Buddhist Period	08	02	06	06	14
3.	Characteristics Of Rock Cut Architecture	06	02	06	04	12
4.	Temple Architecture	08	02	06	06	14
5.	Islamic Architecture	14	04	07	10	21
	Total	42	12	28	30	70

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

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

6. SUGGESTED LIST OF EXERCISES/ASSIGNMENTS/PRACTICAL

The practical/exercises should be properly designed and implemented with an attempt to develop different types of skills so that students are able to acquire above mentioned competencies. More focus may be given on understanding of built form, proportions and architectural characteristics of a historical building with the help of neat sketches.

S. No.	Unit No.	Practical/Exercise/ Assignments
1	01	Prepare a report on periods of architecture and draw two sketches of Indus valley civilization
2	02	Draw Two sketches each of Sanchi Stupa , Chaitya Hall and Viharas of Buddhist Period
3	03	Draw Two sketches each of Kailash Temple and Rathas of Mahabalipuram of Rock Cut Period
4	04	Draw One sketch each of Aihole & Badami Temples, Lingaraj Temple, Sun Temples of Konark and Modhera and Kandaria Mahadev Temple
5	05	Draw Two sketches each of Parts of a Typical Mosque, Jama Masjids at Ahmedabad and Delhi, Taj Mahal, Gol Gumbaz, Qutub Minar, Fatehpur Sikri.

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

7.1 Proposed students activities: topic based seminars, internet based assignments, teacher guided self learning activities, etc. These could be either individual or group-based.

7.2 Related Study Project of a Temple and a Mosque

8. SUGGESTED LEARNING ACTIVITIES

A. List of Books

Sr. No.	Title of Book	Author	Publication
1.	Indian Architecture, Hindu & Buddhist	Percy Brown	Taraporewala Publications
2.	Indian Architecture - Islamic	Percy Brown	Taraporewala Publications
3.	Indian Architecture - Islamic	Grover Satish	Vikas Publishing House

B. List of Major Equipment/ Instrument

N.A

C. List of Software/Learning Websites

www.greatbuildings.com

9. COURSE CURRICULUM DEVELOPMENT COMMITTEE

Faculty Members from Polytechnics

- **Shri Bhaskar J. Iyer**, H.O.D Architecture, Govt. Polytechnic, Vadnagar
- **Smt. Poonam A. Trambadia**, Lecturer in Architecture, Govt. Girls Polytechnic, Ahmedabad
- **Shri Naresh M. Chhatwani**, Lecturer in Architecture, Govt. Girls Polytechnic, Ahmedabad.
- **Miss Rupal K. Prajapati**, Lecturer in Architecture, Govt. Girls Polytechnic, Ahmedabad

Coordinator and Faculty Members from NITTTR Bhopal

- **Prof. M.C.Paliwal**, Associate Professor Dept. of Civil and Environmental Engg.