



**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**Syllabus for Diploma of Vocation (D.Voc.), 6<sup>th</sup> Semester**  
**Branch: Architectural Assistantship**  
**Subject Name: Heritage and Conservation**  
**Subject Code: 1260603**

**Type of course:** Core

**Prerequisite:** Understanding of History of Civilizations and sensitivity towards the values of Culture and Identity.

**Rationale:** The subject aims to inculcate awareness to build heritage and understand architectural conservation as an attitude to development.

**Teaching and Examination Scheme:**

| Teaching Scheme |   |   | Credits | Examination Marks |         |           |   | Total Marks |
|-----------------|---|---|---------|-------------------|---------|-----------|---|-------------|
| L               | T | P |         | Theory Marks      |         | Practical |   |             |
|                 |   |   | ESE (E) | PA(M)             | ESE (V) | PA (I)    |   |             |
| 3               | 0 | 0 | 3       | 50                | 0       | 0         | 0 | 50          |

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; C- Credit; ESE- End Semester Examination; PA- Progressive Assessment

**Content:**

| Sr. No. | Content                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Total Hrs. | Module % Weightage |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|
| 1       | <p><b>Understanding heritage types – cultural, natural, mixed</b></p> <ul style="list-style-type: none"> <li>Cultural Heritage: Two types of Cultural Heritage</li> <li>Tangible as Buildings, Monuments, landscapes, archives material, books, works of Arts and Artifacts.</li> </ul> <p>Intangible as folklore, traditions, language and knowledge and Natural Heritage including Culturally significant landscape and biodiversity.</p>                                                                                       | 6          | 10                 |
| 2       | <p><b>Values and significance of heritage conservations</b></p> <ul style="list-style-type: none"> <li>Sense of identity and continuity as aesthetic, historic, scientific, spiritual and social values held by past, present and future generations.</li> <li>Empowered communities: New heritage-led approaches demand for establishing community participation and collaboration.</li> </ul> <p>National and local economies: Heritage conservation is an effective catalyst for stimulating local and regional economies.</p> | 6          | 15                 |
| 3       | <p><b>National and international agencies and their roles in conservation</b></p> <ul style="list-style-type: none"> <li>ASI</li> <li>INTACH</li> <li>UNESCO</li> <li>ICCROM</li> </ul> <p>Heritage and conservation Act in India (2010): An Act to provide for conservation and preservation of heritage both tangible and intangible, including buildings, structures, monuments, precincts,</p>                                                                                                                                | 10         | 25                 |



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|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |     |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----|
|          | areas/sites, artifacts, sculptures, paintings, handicrafts, manuscripts etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |     |
| <b>4</b> | <p><b>Conservation methods</b><br/>           Introduction, importance of conservation methods, difference between the methods.</p> <ul style="list-style-type: none"> <li>• Reconstruction</li> <li>• Preservation</li> <li>• Deterioration prevention</li> <li>• Restoration and Rehabilitation</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 | 25  |
| <b>5</b> | <p><b>Heritage sites in India</b></p> <ul style="list-style-type: none"> <li>• Natural: Western Ghats India's 1,600-km-long Western Ghats, a mountain chain that has forests older than those in the Himalayan range, The Western Ghats Mountain chain is recognized as one of the world's eight "hottest hotspots" of biological diversity.</li> <li>• Built Heritage: Champaner: Champaner- Pavagadh Archaeological Park, located in the Panchmahal District of Gujarat State in north-western India, features a concentration of archaeological, historical, and living cultural heritage properties. It contains the remains of fortifications, palaces, religious buildings, residential precincts, and water-retaining installations, as well as the living village of Champaner.</li> <li>• Rani ki vav Rani-ki-Vav is an exceptional example of a distinctive form of subterranean water architecture of the Indian subcontinent, the stepwell, which is located on the banks of the Saraswati River in Patan.</li> <li>• Cultural Heritage: Historic city of Dholavira: Dholavira is the larger of the two most remarkable excavations of the Indus Valley Civilization or Harappan culture, dating back to 4500 years ago. Dholavira has one of the world's earliest water conservation systems ever excavated.</li> <li>• Ahmedabad: The city of Ahmedabad is endowed with a rich architectural heritage that is vital to the local identity and continuity of the place. Along with the foremost heritage Indo-Islamic monuments of the 15th to 17th centuries, there are potential heritage precincts in the form of the Pols, the traditional residential clusters of the medieval period, which makes Ahmedabad exceptional.</li> </ul> | 10 | 25  |
|          | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 42 | 100 |

**Reference Books:**

1. Feilden Bernard-Manual for Conservation
2. Feilden Bernard- Conservation of Historic Building



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3. Conserving Buildings: Guide to Techniques and Materials, Revised Edition by Martin E. Weaver
4. Architectural Conservation: Principles and Practice by Aylin Orbasli
5. Equity in Heritage conservation: Case of Ahmedabad India by Jigna Desai

**Suggested Specification table with Marks (Theory):**

| <b>Distribution of Theory Marks</b> |         |         |         |         |         |
|-------------------------------------|---------|---------|---------|---------|---------|
| R Level                             | U Level | A Level | N Level | E Level | C Level |
| 5                                   | 20      | 15      | 5       | 5       | -       |

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

**Course Outcomes:**

| Sr. No. | CO Statement                                                                            | Marks %<br>Weightage |
|---------|-----------------------------------------------------------------------------------------|----------------------|
| CO-1    | To understand heritage types, values and its importance.                                | 20                   |
| CO-2    | To understand roles and importance of different agencies for heritage and conservation. | 20                   |
| CO-3    | To study different conservation methods.                                                | 30                   |
| CO-4    | To get acquainted to heritage sites of India (regional)                                 | 30                   |

**Laboratory work:**

Visit to ASI office.

Study and documentation of UNESCO declared heritage sites through site visits (regional).

**List of Open-Source Software/learning website:**

Students must refer to the following sites to enhance their learning ability.

1. <https://asi.nic.in>
2. <https://www.intach.org>
3. <https://www.mohua.gov.in>