

## **AR 15402 HISTORY AND THEORY OF ARCHITECTURE-I (3-0-0-0) CR-03**

### **Module I**

Influence of industrial revolution on building materials, construction technology, evolution of new building types and increasing user requirements, Characteristic styles of modern architecture up to First World War, Steel structures, Arts and crafts movement, Art Nouveau, Vienna School, Chicago School, Monumentalism, expressionism and beginning of RCC, Theories of John Ruskin, William Morris, Henry Vandevelde, Otto Wagner, Peter Behrens and Louis Sullivan

### **Module II**

Contributions to Architecture and Theory made by pioneers-Le-Corbusier, Frank Lloyd Wright, Walter Gropius, Mies van der Rohe in the periods between the World Wars, Characteristics of modern architecture after the second world war, Study of Alvar Aalto, Eero Saarinen, Richard Neutra, Louis I Kahn, Philip Johnson etc.

### **Module III**

Design theories and contributions of Engineer-architects like Pier Luigi Nervi, Felix Candela, Buckminster Fuller and Frei Otto

### **Module IV**

Pre-independence architecture in India, Development of secular architecture from the end of the 18<sup>th</sup> Century to the middle of the 20<sup>th</sup> Century

### **Reference Books**

1. Benevolo Leonardo History of Modern Architecture: the tradition of modern architecture Vol 1 Routledge and Kegan Paul London 1971
2. Frampton Kenneth Modern Architecture A Critical History
3. London Thomas & Hudson 1980
4. Benevolo Leonardo History of Modern architecture, the modern movement Vol 2 Routledge and Kegan Paul London 1971
5. Curtis J.R. William Modern Architecture since 1900 Prentice Hall Inc New Jersey 2002
6. Giedion Sigfried Space, time and architecture, the growth of a new tradition 4<sup>th</sup> ed Harvard University Press, Cambridge 1962
7. Hilbersseimer L Contemporary Architecture: Its roots and trends, Paul Theobald, Chicago 1964
8. Pevsner Nicolaus Oersonem: Pioneers of Modern Design from William Morris to Walter Gropius
9. Sharp Dennis Twentieth Century Architecture A Visual History Facts on file, New York 1991
10. Norberg Schul C, Principles of modern Architecture, London Andreas Papadakes 2000.

# VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

Semester: 4<sup>th</sup>

## LESSON PLAN

Subject: HISTORY AND THEORY OF ARCHITECTURE-I

Session: Jan 2017 – May 2017

Theory / Sessional

Branch/Course: Architecture

Name of the Faculty Member: **Ar.Mitali Madhusmita**

| Period | Module/ Number | Topic to be covered  | Remarks/<br>Sign. of<br>Faculty<br>Member |
|--------|----------------|--|---|
| 01     | <b>1</b>       | Influence of industrial revolution on building materials,                        |   |
| 02     |                | construction technology,   |   |
| 03     |                | evolution of new building types and increasing user requirements,                |   |
| 04     |                | Characteristic styles of modern architecture up to First World War,              |   |
| 05     |                | Steel structures,  |   |
| 06     |                | Arts and crafts movement,  |   |
| 07     |                | Art Nouveau,   |   |
| 08     |                | Vienna School,   |   |
| 09     |                | Chicago School,  |   |
| 10     |                | Monumentalism  |   |
| 11     |                | expressionism and beginning of RCC,  |   |
| 12     |                | Theories of John Ruskin,   |   |
| 13     |                | William Morris,  |   |
| 14     |                | Henry Vandevelde,  |   |
| 15     |                | Otto Wagner,   |   |
| 16     |                | Peter Behrens and Louis Sullivan   |   |
| 17     | <b>2</b>       | Contributions to Architecture and Theory made by pioneers-Le-Corbusier,          |   |
| 18     |                | Frank Lloyd Wright,  |   |
| 19     |                | Walter Gropius,  |   |
| 20     |                | Mises van der Rohe in the periods between the Worlds Wars,                       |   |
| 21     |                | Characteristics of modern architecture after the second world war,               |   |
| 22     |                | Study of alvar Aalto,  |   |
| 23     |                | Ero Saarinen,  |   |
| 24     |                | Richard Neutra,  |   |
| 25     |                | Louis I Kahn,  |   |
| 26     |                | Philip Johnson etc.  |   |
| 27     | <b>3</b>       | Design theories and contributions of Engineer- architects like Pier Luigi Nervi, |   |
| 28     |                | Felix Candela,   |   |
| 29     |                | Buckminster Fuller and Frei Otto   |   |
| 30     | <b>4</b>       | Pre-independence architecture in India,  |   |
| 31     |                | Development of secular architecture from the end of the 18 <sup>th</sup>         |   |
| 32     |                | Century to the middle of the 20 <sup>th</sup> Century                            |   |

Signature of the Faculty Member :

Date:

Counter Signature of H.O.D.