

IV B.Tech I Semester

**15ACE56-ARCHITECTURE AND TOWN PLANNING
(CBCC (DEPARTMENTSPECIFIC))**

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Objective:-

To know the western architecture and Indian architecture and also to gain knowledge on the principles of architectural design and historical background of town planning.

A) ARCHITECTURE:

UNIT-I

History of Architecture:

- a) Western Architecture: Egyptian, Greek, Roman Architectures; influences Comparative Analysis Orders.
- b) Indian Architecture: Vedic age - Indus Valley civilization - Buddhist period; stambas, Slenstas. Roranas, Chaityans, Viharas with one example for each Hindu temples - Evaluation of Dravidian and Indo Aryan Styles - Principle factors. Temple of Aibole, Mahabalipuram, Madurai, Deograph, Bhuvaneshwar, Mount Abu.
- c) Indo - Sarsanic Architecture; Mosque - Place- Fort Tomb.

UNIT - II

Architectural Design:

- a) Principle of designing : Composition of plan Relationship between plan and elevation elements, form, surface Mass, Texture, Color, Tone.
- b) Principle of Compositions: Unity, contrast, proportion, scale, Bab Rhuthm, character. Principles of Planning a Residence; Site Orientation prospect, Grouping, circulation, privacy, services and other factors.

UNIT – III

Introduction of Post-classic Architecture and contribution of eminent architects to modern period. Brief summary of post - classic architecture - Indian and Western Architectural contribution of Edward Lutyens, Le Corbusier), Frank Lloyd Wrigt, Walter Groping, Vender Rohe, Caarihan, Nervi, Oscar Niemyer, Edward Durell stone.

TOWN PLANNING:

UNIT – IV

Historical Back Ground:

Town planning in India - town plans of Magad - town plans of ancient Indian towns; Mourya, Pataliputravijayanagara, Delhi. Town planning in the West-town plans of Acropolis, Rome, Paris, London.



UNIT – V

Components of Planning;

- a) Zoning
- b) Roads and road Traffic.
- c) Housing-Slums, Parks, Play grounds.
- d) Public Utility Services.
- e) Surveys and maps for planning.
- f) Neighbourhood Planning.

Planning New town, planning standards, National and regional Planning, town planning and legislation. Garden cities and satellite town

Course Outcomes:

- *Appreciate Town Planning Schemes.*
- *Explain the tools of town planning*
- *Explain different components of town and their effect in town planning*
- *Describe the facts relating to the Industrial areas of a town*
- *Describe the aspects involved in a Development Plan*
- *Demonstrate different features of Traffic management*
- *Apply land-use regulation for planning issues*

REFERENCES:

A) ARCHITECTURE

4. Indian Architecture – Vol:- I and II by Percy Brown, Taraporevala Publications, Bombay.
5. Planning and Design of Building -Section of Architecture by Y.S.Sane.
6. Modern Architecture and Design by Nikolans, Pevshar.
7. Modern Ideal Homes for India by R.S.Deshpande.

B) TOWN PLANNING

1. Town and Country .Planning - A.J.Brown and H.M.Sherrard.
2. Town Design .-FederikGibbard, Architectural press, London.
3. National Building Code of India.
4. Town Planning in India - Town and Country Planning Organisation, New Delhi 1962. 5. Regional Planning - Misra R.P., Mysore University.
5. Urban and Regional Planning; Principles and case studies by K.S.Rama Gouda, Mysore University Publications.
6. Town and Country Planning - P. Abercrombe, Oxford University press.

G. R. L.