SUBJECT NAME – CONTEMPORARY ARCH

SUBJECT CODE – 3336205

FOCUS:

To develop the appropriate skills of reading, discussion and writing as well as understanding the physical experience of buildings in order to appreciate the complexity of the influences bearing on architecture, as reflected in the major historical periods. Critical appreciation characterized by technology, ornamentation, planning practices & influences in general. To provide an understanding and appreciation of contemporary trends in architecture in India and other part of the world. Detail study of one example.

CONTENTS:

- Byzantine, Romanesque, Gothic – understanding the architectural features of each through 1 example.
- Renaissance Period – Ex - Villa Rotunda by Palladio,
    - - St Peter's Rome by Michael Angelo & others
    - - St. Paul's London by Sir Christopher Wren
    - - St. Peter's Piazza by Bernini
- Impact of Industrial Revolution on Architecture- The social, Economic and political changes, affected, requirements of the society, new materials and technological development.
- Birth of various styles and movements such as Beaux art, Chicago school, Bauhaus, De Stijl movement, Art Nouveau.
- Impact of various thoughts and globalization on architecture in India and abroad in terms of ideas and directions through the works of outstanding architects with one example of each.
    - Post modernism
    - De constructivism
    - Contemporary vernacular
    - New expressionists.

SUGGESTED BOOKS

- History of Architecture by Sir Banister Fletcher
- Prehistory to post modernism by Marvin & Isabel
- Meaning in Western Architecture by Christian Norberg-Schulz
- Architecture Through the Ages by Talbot Hamlin
- Architecture : From Prehistory to Post-Modernity by Trachtenberg and Hyman
- Space, Time and Architecture by Sigfried Gideon
- Rethinking Architecture: a reader in cultural theory, Leach, Neil (Ed.)
- When was modernism in Indian art? by Geeta Kapur

SUBJECT NAME – BUILDING SERVICES

SUBJECT CODE – 3336206

FOCUS:

To introduce students to various servcies and to sensitize them with respect to their integration into Architectural Design.

CONTENTS:

- SERVICES
    - **PART 1 - ELECTRICITY**
    - Importance of electrical services in building, introduction to commonly used terminology.
    - Basic understanding of supply and distribution of electricity to buildings – transformer alternator (introductory part), low tension panels, generators and overhead versus underground distribution systems, panel boards etc.,
    - Internal supply and distribution – brief description of various types of wiring, conduit, PVC casing and capping wiring systems; House wiring- wire thickness, color codes usages, Distribution of power to various appliances
    - UPS & Inverters: Necessity & precautions, Online and & Offline uninterrupted power supplies, Types of batteries used.
    - Earthing, Protective devices – fuses, MCB, ELCB, lightening arrestor
    - Indian Electricity Rules – Relevant codes of Practice

    - **PART 2 - LIGHTING**
    - Quality and quantity of light;
    - Methods and types of lighting ambient, task and accent lighting.
    - Systems of luminaries: direct, indirect etc.,
    - Various types of electrical lamps – incandescent, fluorescent / CFL, HID's, neon lamps and their lighting characteristics.
    - Design considerations for different types of occupancies and task lighting.

    - **PART 3 - AIR-CONDITIONING**
    - Definitions, advantages and disadvantages, types of air conditioning systems summer. Air distribution system, ducts, air outlets, vents.
    - Residential and commercial air conditioning, installation of air conditioning, energy conservation techniques to avoid load on air conditions.
    - Basic understanding on its capacity and requirement, and loads working on it.

    - **Part – 4 ELEVATORS (LIFTS) AND ESCALATORS**
    - Brief History – types of elevators like counter weight and hydraulic elevators.
    - Study of Passenger lift, hospital lift, goods lift, service lift or dumb waiters. Civil dimensions of hospital lift, goods lift, passenger lift, and service lift, definitions and components, lift location in building i.e. grouping of lift in building.
    - Service requirement, passengers handling capacity. Architects role for installations of elevators or information to be provided by Architect to lift company.