JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER

Department of CIVIL ENGINEERING

**LECTURE PLAN**

**Subject: 4CE5A Building Planning**

**No. of Lecture Req./(Avl.) : /(40)**

**Semester Starting: 08.02.16** **Semester Ending:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Unit No./ Total lec. Req.** | **Topics** | **Lect. Req.** | **Lect. No.** | **Date of Delivery** | **Remark/ Actual lect. Taken** |
| **Unit-1 (8)** | TYPES OF BUILDINGS | 1 | 1 |  |  |
| CLASSIFICATION OF BUILDING BY OCCUPANCY | 1 | 2 |  |  |
| MULTI STOREY BUILDING AND ITS COMPONENT | 1 | 3 |  |  |
| MULTI STOREY BUILDING AND ITS COMPONENT | 1 | 4 |  |  |
| CRITERIA FOR LOCATION AND SITE SELECTION | 1 | 5 |  |  |
| DIFFERENT METHODS OF DRAWING SUN CHART | 1 | 6 |  |  |
| SUN SHADING DEVICES & DESIGN OF LOUVERS | 1 | 7 |  |  |
| PASSIVE COOLING &HEATING OF BUILDING | 1 | 8 |  |  |
| **Unit-2 (8)** | ELEMENTS OF CLIMATE, GLOBAL CLIMATE | 1 | 9 |  |  |
| CLIMATE ZONES, BICLIMATIC CHART, COMFORT CONDITION | 1 | 10 |  |  |
| CLIMATE MODULING DEVICES | 1 | 11 |  |  |
| ORIENTATION AND FACTORE AFFECTING IT | 1 | 12 |  |  |
| ORIENTATION CRITERIA FOR TROPICAL CLIMATE | 1 | 13 |  |  |
|  | OBJECTIVES OF BY-LAWS AND REGULATION REGARDING | 1 | 14 |  |  |
|  | LINES OF BUILDING FRONTAGES, COVERED AREA, FLOOR AREA RATIO | 1 | 15 |  |  |
|  | OPEN SPACES AROUD BUILDING, HEIGHT OF BUILDING | 1 | 16 |  |  |
|  | SIZES OF ROOMS, PLINTH REGULATIONS, SANITATION PROVISION |  | 17 |  |  |
|  |  |  |  |  |  |
| **Unit- 3(8)** | DIFFERENT FACTORS AFFECTING PLANNING | 1 | 18 |  |  |
| DIFFERENT FACTORS AFFECTING PLANNING | 1 | 19 |  |  |
| VASTU SHASTRA IN MODERN BUILDING PLANNING | 1 | 20 |  |  |
| VASTU SHASTRA IN MODERN BUILDING PLANNING | 1 | 21 |  |  |
| VASTU SHASTRA IN MODERN BUILDING PLANNING | 1 | 22 |  |  |
| VASTU SHASTRA IN MODERN BUILDING PLANNING | 1 | 23 |  |  |
| DESIGN OF RESIDENTIAL BUILDINGS | 1 | 24 |  |  |
| DESIGN OF OFFICE BUILDING | 1 | 25 |  |  |

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| **Unit-4 (8)** | ANTHROMETRY, ACTIVITIES & THEIR SPATIAL REQUIREMENT | 1 | 26 |  |  |
| ANTHROMETRY, ACTIVITIES & THEIR SPATIAL REQUIREMENT | 1 | 27 |  |  |
| AREA PLANNING, LIVING AREA, SLEEPING AREA, SERVICE AREA | 1 | 28 |  |  |
| AREA PLANNING, LIVING AREA, SLEEPING AREA, SERVICE AREA | 1 | 29 |  |  |
| BUBBLE DIAGRAM SHOWING SEQUENCE OF ARRANGEMENT OF AREA | 1 | 30 |  |  |
| BUBBLE DIAGRAM SHOWING SEQUENCE OF ARRANGEMENT OF AREA | 1 | 31 |  |  |
| ELEVATION, SECTIONAL ELEVATION | 1 | 32 |  |  |
| SCHOOL BUILDINGS, REST HOUSE, PRIMARY HEALTH | 1 | 33 |  |  |
| POST OFFICE, BANK, COLLEGE LIBRARY, ETC | 1 | 34 |  |  |
| SERVICES IN BUILDINGS | 1 | 35 |  |  |
| LIGHTNING & VENTILATIONS | 1 | 36 |  |  |
| DOORS & WINDOWS | 1 | 37 |  |  |
| LIFTS | 1 | 38 |  |  |
| ACOUSTICS | 1 | 39 |  |  |
| SOUND INSULATION, NOISE CONTROL, FIRE FIGHTING PROVISIONS | 1 | 40 |  |  |
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**Recommended books:**

1.Manual of Tropical Housing and Buildings by Koenigs Berger Orient and Longman.

2- Building Drawing by M.G.Shah, C.M. Kala, S.Y.Patki , Tata Mc Graw Hills.

3.SP.41 (S&T)- Handbook on functional Requirements of Buildings Part-I

4. National Building Code, BIS.

5. Architecture Drafting and Design by Donald E. Helper, & Paul I Wallach.

6. Time Saver Standards for Housing and Residential Development by DE Chiara, Tata Mc Graw

Hill, Delhi.