

G.P. DHANGAR (Fatehabad)

Name of Faculty : Mr. Vijay Pal

Discipline : CIVIL ENGG.

Semester : 5th sem

Subject : REPAIR AND MAINTENANCE OF BUILDINGS

| Week | Lecture No | Topic Covered |
|------|------------|---|
| 1 | 1 | Importance and significance of repair and maintenance of buildings |
| | 2 | Meaning & Objectives of maintenance |
| | 3 | Factors influencing the repair and maintenance |
| 2 | 4 | Revision |
| | 5 | Definition of deterioration/decay |
| | 6 | Factors causing deterioration, their classification |
| 3 | 7 | Human factors causing deterioration |
| | 8 | Chemical factors causing deterioration & Environmental conditions causing deterioration |
| | 9 | Miscellaneous factors |
| 4 | 10 | Effects of various agencies of deterioration on various building materials |
| | 11 | Revision |
| | 12 | Systematic approach/procedure of investigation |
| 5 | 13 | Sequence of detailed steps for diagnosis of building defects/problems |
| | 14 | List non-destructive and others tests on structural elements and materials |
| | 15 | Revision |
| 6 | 16 | Define defects in buildings |
| | 17 | Classification of defects |
| | 18 | Main causes of building defects in Foundations, basements and DPC |
| 7 | 19 | Defects in Walls, Column and Beams |
| | 20 | Roof and Terraces; Joinery; Decorative and protective finishes |
| | 21 | Services & Defects caused by dampness |
| 8 | 22 | Revision |
| | 23 | Compatibility aspects of repair materials |
| | 24 | State application of following materials in repairs |
| 9 | 25 | Anti corrosion coatings and Adhesives/bonding aids |
| | 26 | Repair mortars and Curing compounds |
| | 27 | Joints sealants; Waterproofing systems for roofs and Protective coatings |
| 10 | 28 | Revision |
| | 29 | Preventive maintenance considerations |
| | 30 | Surface preparation techniques for repair and Crack repair methods |
| 11 | 31 | Waterproofing of wet areas and roofs |
| | 32 | Repair of joints in buildings |
| | 33 | Revision |