

CIVIL ENGINEERING DEPARTMENT

Sr. No	Topic
1	Surveying: Leveling and cross sectioning.
2	Fluid Mechanic: Flow through pipes, Laminar & Turbulent Flow and Boundary Layer.
3	Transportation Engg: Geometric design of pavement and Intelligent transport system.
4	Environmental Engg: Trickling Filters, Secondary Treatment System, Biochemical Oxygen Demand, Activated Sludge Process and Sludge treatment.
5	Pavement Engg: Design of Flexible Pavements, Design of Rigid Pavements, Gradation requirements and different layers of pavement.
6	Buliding Planning: Building Bye Laws, Principal of planning (Orientation, grouping Roomtali, Circulation, Privacy), Architectural planning principal (Harmony, Man composium, Scale, Unity) and Methods of estimation.
7	Structural Engineering: Singly reinforced beam design, Moment distribution method, Codal provisions for earthquake resistance design of structures
8	Soil mechanics: Soil Engineering properties & its significance, Soil Investigations for Structures, Soil classification as per Indian Standard Codes

GEOLOGY

Sr. No	Topic
1	Applications of Geology in civil engineering, Seismic waves, Elements/characteristic of crystals, Identification of minerals and their properties ,Classification of rocks ,Physical properties of building stones, Structural Geology ,Faults ,Sources of ground water, Geological considerations in the selection of dam site ,Landslides, Geological Investigations