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NPTEL Video Course - Architecture - NOC: Landscape Architecture and Site Planning - Basic Fundamentals
Subject Co-ordinator - Prof. Uttam Kumar Bannerjee
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Overview
Lecture 2 - Introduction to Landscape
Lecture 3 - Categories and Materials in Landscape
Lecture 4 - Objective and Professional Scope of Landscape Design
Lecture 5 - Objective and Professional Scope of Landscape Design (Continued...)
Lecture 6 - Introduction to History of Landscape Design
Lecture 7 - Introduction to History of Landscape Design (Continued...)
Lecture 8 - Introduction to History of Landscape Design (Continued...)
Lecture 9 - Introduction to History of Landscape Design (Continued...)
Lecture 10 - Introduction to History of Landscape Design (Continued...)
Lecture 11 - Introduction to History of Landscape Design (Continued...)
Lecture 12 - Introduction to History of Landscape Design (Continued...)
Lecture 13
Lecture 14
Lecture 15
Lecture 16 - Behavioral Principle
Lecture 17 - Behavioral Principle (Continued...)
Lecture 18 - Behavioral Principle (Continued...)
Lecture 19 - Behavioral Principle (Continued...)
Lecture 20 - Behavioral Principle (Continued...)
Lecture 21
Lecture 22
Lecture 23
Lecture 24
Lecture 25
Lecture 26
Lecture 27
Lecture 28
Lecture 29
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Lecture 30
Lecture 31 - Landform Design
Lecture 32 - Landform Design (Continued...)
Lecture 33 - Landform Design (Continued...)
Lecture 34 - Landform Design (Continued...)
Lecture 35 - Landform Design (Continued...)
Lecture 36 - Planting Design
Lecture 37 - Planting Design (Continued...)
Lecture 38 - Planting Design (Continued...)
Lecture 39 - Planting Design (Continued...)
Lecture 40 - Planting Design (Continued...)
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NPTEL Video Course - Architecture - NOC: Architectural Conservation and Historic Preservation
Subject Co-ordinator - Prof. Sanghamitra Basu
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction
Lecture 2 - Introduction (Continued...)
Lecture 3 - Need, Debate and Purpose
Lecture 4 - Heritage Significance and Values
Lecture 5 - Heritage Significance and Values (Continued...)
Lecture 6 - Assessing Heritage Values and Significance
Lecture 7 - Heritage Values and Significance (Continued...)
Lecture 8 - Assessing Heritage Significance Concept and Process
Lecture 9 - Assessing Heritage Significance Concept and Process (Continued...)
Lecture 10 - Divergent Approaches for Managing and Rehabilitating Heritage Properties
Lecture 11 - Divergent Approaches for Managing and Rehabilitating Heritage Properties
Lecture 12 - Divergent Approaches for Managing and Rehabilitating Heritage Properties
Lecture 13 - Ethics of Conservation
Lecture 14 - Evolution of Heritage Conservation
Lecture 15 - Evolution of Heritage Conservation (Continued...)
Lecture 16 - World Heritage Sites - Part 1
Lecture 17 - World heritage Sites - Part 2
Lecture 18 - World Heritage Sites - Part 3
Lecture 19 - World Heritage Sites - Part 4
Lecture 20 - World Heritage Sites - Part 5
Lecture 21 - Causes of decay in cultural property - Part 1
Lecture 22 - Causes of decay - Part 2
Lecture 23 - Causes of decay - Part 3
Lecture 24 - Causes of decay - Part 4
Lecture 25 - Documenting heritage properties
Lecture 26 - Documenting Heritage Properties
Lecture 27 - Investigation and Conservation of Historic Structures
Lecture 28 - Investigation and Conservation of Historic Structures
Lecture 29 - Investigation and Conservation of Historic Structures
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Lecture 30 - Conservation of Historic Structures

Lecture 31 - Conservation of Historic Structures

Lecture 32 - Historic Cities and Heritage Areas

Lecture 33 - Historic Cities and Heritage Areas (Continued...)

Lecture 34 - Historic Cities and Heritage Areas (Continued...)

Lecture 35 - Historic Cities and Heritage Areas (Continued...)

Lecture 36 - Historic Cities and Heritage Zones - India

Lecture 37 - Historic Areas and Heritage Zones - India (Continued...)

Lecture 38 - New Buildings in Historic Settings

Lecture 39 - Heritage Impact Assessment in Historic Settings

Lecture 40 - Adaptive Reuse

Lecture 41 - Legislative and Organizational Policies for India

Lecture 42 - Heritage Regulations and Role of Voluntary Organisations

Lecture 43 - Heritage Conservation - Issues and Potentials
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NPTEL Video Course - Architecture - NOC: Architectural Acoustics
Subject Co-ordinator - Prof. Sumana Gupta, Prof. Sankha Pratim Bhattacharya
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction and Historical Overview
Lecture 2 - Introduction to Acoustical Physics
Lecture 3 - Frequency and Octave
Lecture 4 - Sound Pressure and Intensity Levels
Lecture 5 - Near and Far Field Propagation and Loudness
Lecture 6 - Room Acoustics - I
Lecture 7 - Room Acoustics - II
Lecture 8 - Indoor Acoustics, Reflection and Absorption
Lecture 9 - Concept of Reverberation
Lecture 10 - Application of Reverberation Time
Lecture 11 - Introduction to Acoustical Absorbers
Lecture 12 - Panel Absorbers and Resonators
Lecture 13 - Absorption in spaces of different volumes
Lecture 14 - Acoustical Absorbers
Lecture 15 - Reverberation time and Intelligibility
Lecture 16 - Acoustical Criteria and Space Design
Lecture 17 - Acoustical Criteria and Space Design (Continued...)
Lecture 18 - Acoustical Criteria and Space Design (Continued...)
Lecture 19 - Acoustical Criteria and Space Design (Continued...)
Lecture 20 - Acoustical Criteria and Space Design (Continued...)
Lecture 21 - Introduction to Auditorium Design
Lecture 22 - Introduction to Auditorium Design (Continued...)
Lecture 23 - Introduction to Auditorium Design (Continued...)
Lecture 24 - Introduction to Auditorium Design Balcony and ceiling design
Lecture 25 - Introduction to Auditorium Design
Lecture 26 - Electro Acoustics - I
Lecture 27 - Electro Acoustics - II
Lecture 28 - Meteorological conditions and propagation of sound
Lecture 29 - Topography and sound propagation Historical contexts
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Lecture 30 - Open air Theatre considerations
Lecture 31 - Air Borne Sound Transmission
Lecture 32 - Air Borne Sound Transmission (Continued...)
Lecture 33 - Air Borne Sound Transmission (Continued...)
Lecture 34 - Structure Borne Sound Transmission
Lecture 35 - Structure Borne Sound Transmission
Lecture 36 - Environmental Acoustics - I
Lecture 37 - Environmental Acoustics - II
Lecture 38 - Urban Noise Control
Lecture 39 - Urban Noise Control
Lecture 40 - Urban Noise Control
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NPTEL Video Course - Architecture - NOC: Building Materials and Composites
Subject Co-ordinator - Prof. Sumana Gupta
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to the course
Lecture 2 - Clay products - 1
Lecture 3 - Clay products - 2
Lecture 4 - Stone
Lecture 5 - Stone (Continued...)
Lecture 6 - Introduction to wood
Lecture 7 - Wood
Lecture 8 - Defects of wood and Wood joinery
Lecture 9 - Engineered wood
Lecture 10 - Bamboo
Lecture 11 - Glass
Lecture 12 - Glass (Continued...)
Lecture 13 - Glass (Continued...)
Lecture 14 - Glass wall and glass insulation
Lecture 15 - Ceramic tiles and vitrified tiles
Lecture 16 - Introduction to concrete
Lecture 17 - Fine Aggregates
Lecture 18 - Coarse Aggregates
Lecture 19 - Cement
Lecture 20 - Water, Plasticizer admixture and tests
Lecture 21 - Introduction to prefabricated items
Lecture 22 - CMU, AAC and Pavement Blocks
Lecture 23 - Precast Wall Panels
Lecture 24 - Floor panels
Lecture 25 - Columns, foundation, ferro-cement
Lecture 26 - Introduction to metals
Lecture 27 - Ferrous Metals 1 - Cast and Wrought Iron
Lecture 28 - Ferrous metals 2 - Steel
Lecture 29 - Ferrous metals 2 - Reinforcement bars, Corrosion, Light Gauge Steel
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Lecture 30 - Non-ferrous metals

Lecture 31 - Damp proofing

Lecture 32 - Damp proofing methods and materials

Lecture 33 - Thermal insulation and sound insulation

Lecture 34 - Insulation, Bitumen and Gypsum

Lecture 35 - Composites

Lecture 36 - Paints

Lecture 37 - Paints (Continued...)

Lecture 38 - Paints (Continued...)

Lecture 39 - Plastics

Lecture 40 - Plastics (Continued...)
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NPTEL Video Course - Architecture - NOC: Environmental Soil Chemistry
Subject Co-ordinator - Prof. Somsubhra Chakraborty
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Evolution of Soil Chemistry
Lecture 2 - Evolution of Soil Chemistry (Continued...)
Lecture 3 - Evolution of Soil Chemistry (Continued...)
Lecture 4 - Evolution of Soil Chemistry (Continued...)
Lecture 5 - Evolution of Soil Chemistry (Continued...)
Lecture 6 - Inorganic Soil Components
Lecture 7 - Inorganic Soil Components (Continued...)
Lecture 8 - Inorganic Soil Components (Continued...)
Lecture 9 - Inorganic Soil Components (Continued...)
Lecture 10 - Inorganic Soil Components (Continued...)
Lecture 11 - Chemistry of Soil Organic Matter
Lecture 12 - Chemistry of Soil Organic Matter (Continued...)
Lecture 13 - Chemistry of Soil Organic Matter (Continued...)
Lecture 14 - Chemistry of Soil Organic Matter (Continued...)
Lecture 15 - Chemistry of Soil Organic Matter (Continued...)
Lecture 16 - Soil Solution-Solid Phase Equilibria and Sorption in Solids
Lecture 17 - Soil Solution-Solid Phase Equilibria and Sorption in Solids (Continued...)
Lecture 18 - Soil Solution-Solid Phase Equilibria and Sorption in Solids (Continued...)
Lecture 19 - Soil Solution-Solid Phase Equilibria and Sorption in Solids (Continued...)
Lecture 20 - Soil Solution-Solid Phase Equilibria and Sorption in Solids (Continued...)
Lecture 21 - Ion Exchange Processes
Lecture 22 - Ion Exchange Processes (Continued...)
Lecture 23 - Ion Exchange Processes (Continued...)
Lecture 24 - Ion Exchange Processes (Continued...)
Lecture 25 - Ion Exchange Processes (Continued...)
Lecture 26 - Kinetics of Soil Chemical Processes
Lecture 27 - Kinetics of Soil Chemical Processes (Continued...)
Lecture 28 - Kinetics of Soil Chemical Processes (Continued...)
Lecture 29 - Kinetics of Soil Chemical Processes (Continued...)
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Lecture 30 - Kinetics of Soil Chemical Processes (Continued...)
Lecture 31 - Redox Chemistry of Soils
Lecture 32 - Redox Chemistry of Soils (Continued...)
Lecture 33 - Redox Chemistry of Soils (Continued...)
Lecture 34 - Redox Chemistry of Soils (Continued...)
Lecture 35 - Redox Chemistry of Soils (Continued...)
Lecture 36 - Soil Pollutants
Lecture 37 - Soil Pollutants (Continued...)
Lecture 38 - Soil Pollutants (Continued...)
Lecture 39 - Soil Pollutants (Continued...)
Lecture 40 - Soil Pollutants (Continued...)
Lecture 41 - Pollutant-Soil Solution Interaction
Lecture 42 - Pollutant-Soil Solution Interaction (Continued...)
Lecture 43 - Pollutant-Soil Solution Interaction (Continued...)
Lecture 44 - Pollutant-Soil Solution Interaction (Continued...)
Lecture 45 - Pollutant-Soil Solution Interaction (Continued...)
Lecture 46 - Retention of Pollutants on and within Soil Solid Phases
Lecture 47 - Retention of Pollutants on and within Soil Solid Phases (Continued...)
Lecture 48 - Retention of Pollutants on and within Soil Solid Phases (Continued...)
Lecture 49 - Retention of Pollutants on and within Soil Solid Phases (Continued...)
Lecture 50 - Retention of Pollutants on and within Soil Solid Phases (Continued...)
Lecture 51 - Modeling the Fate of Pollutants in Soil, Risk and Remedies
Lecture 52 - Modeling the Fate of Pollutants in Soil, Risk and Remedies (Continued...)
Lecture 53 - Modeling the Fate of Pollutants in Soil, Risk and Remedies (Continued...)
Lecture 54 - Modeling the Fate of Pollutants in Soil, Risk and Remedies (Continued...)
Lecture 55 - Modeling the Fate of Pollutants in Soil, Risk and Remedies (Continued...)
Lecture 56 - Analytical Techniques for Assessing Soil Pollution
Lecture 57 - Analytical Techniques for Assessing Soil Pollution (Continued...)
Lecture 58 - Analytical Techniques for Assessing Soil Pollution (Continued...)
Lecture 59 - Analytical Techniques for Assessing Soil Pollution (Continued...)
Lecture 60 - Analytical Techniques for Assessing Soil Pollution (Continued...)
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NPTEL Video Course - Architecture - NOC:Structural System in Architecture
Subject Co-ordinator - Prof. Sankha Pratim Bhattacharya
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Structural System
Lecture 2 - Force System
Lecture 3 - Moment, Couple and Static Equilibrium
Lecture 4 - Supports and Reactions
Lecture 5 - Structural Loading and Support Reactions
Lecture 6 - Theory of Elasticity - 1
Lecture 7 - Theory of Elasticity - 2
Lecture 8 - Shear Force Diagram
Lecture 9 - Bending Moment Diagram
Lecture 10 - SFD and BMD
Lecture 11 - Bending Stress in Beam - I
Lecture 12 - Bending Stress in Beam - II
Lecture 13 - Bending Stress in Beam - III
Lecture 14 - Shear Stress in Beam
Lecture 15 - Theory of Column
Lecture 16 - Deflection of Beams
Lecture 17 - Indeterminate Beams
Lecture 18 - Analysis of Fixed Beam, BMD and Deflected Shape, Portal Frame
Lecture 19 - Structural Grid and Framing
Lecture 20 - Structural Design
Lecture 21 - Introduction to Truss
Lecture 22 - Analysis of Truss - 1
Lecture 23 - Analysis of Truss - 2
Lecture 24 - Application of Truss in Architecture
Lecture 25 - Space Frame Structures
Lecture 26 - Introduction to Arch
Lecture 27 - Structural Principle and Application of Arch
Lecture 28 - Shell Structures
Lecture 29 - Application of Arch and Shell in Architecture
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Lecture 30 - Structural Concept and Application of Dome in Architecture
Lecture 31 - Cable Supported Structures
Lecture 32 - Membrane Structures
Lecture 33 - Application of Tensile Structures in Architecture
Lecture 34 - Flat Plate and Flate Slab Structures
Lecture 35 - Waffle Slab and Folded Plate Structures
Lecture 36 - Temporary Structures
Lecture 37 - Building Foundation
Lecture 38 - Structural System for High-rise Buildings - I
Lecture 39 - Structural System for High-rise Buildings - II
Lecture 40 - Structural Detailing
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NPTEL Video Course - Architecture - NOC: Urban Landuse and Transportation Planning
Subject Co-ordinator - Prof. Debapratim Pandit
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Landuse transportation planning
Lecture 2 - Plans and planning process
Lecture 3 - Urban landuse planning
Lecture 4 - Comprehensive mobility plan
Lecture 5 - Landuse transport interaction
Lecture 6 - Theoretical foundations - Part 1
Lecture 7 - Theoretical foundations - Part 2
Lecture 8 - Modeling approaches
Lecture 9 - Existing integrated land use transportation models
Lecture 10 - Land use transportation model components and future challenges
Lecture 11 - Sampling Theory - 1
Lecture 12 - Sampling Theory - 2
Lecture 13 - Data and Surveys
Lecture 14 - Transport Planning surveys - Part 1
Lecture 15 - Transport Planning surveys - Part 2
Lecture 16 - Demographic Transition
Lecture 17 - Demographic Models - 1
Lecture 18 - Demographic Models - 2
Lecture 19 - Microsimulation and Population Synthesis - 1
Lecture 20 - Microsimulation and Population Synthesis - 2
Lecture 21 - Urban Growth Assessment
Lecture 22 - Urban land suitability assessment
Lecture 23 - Accessibility - 1
Lecture 24 - Accessibility - 2
Lecture 25 - Land Price Model
Lecture 26 - Discrete choice theory
Lecture 27 - Residential mobility and location choice - 1
Lecture 28 - Residential mobility model using binary logistic regression
Lecture 29 - Residential mobility and location choice - 2
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Lecture 30 - Residential location choice model using multinomial logistic regression
Lecture 31 - Travel demand forecasting and Trip generation
Lecture 32 - Multiple linear regression
Lecture 33 - Trip Production and Attraction - 1
Lecture 34 - Trip Production and Attraction - 2
Lecture 35 - Trip distribution
Lecture 36 - Mode choice theory
Lecture 37 - Mode choice model
Lecture 38 - Hybrid mode choice model - 1 (Factor Analysis)
Lecture 39 - Hybrid mode choice model - 2 (Joint RP SP model)
Lecture 40 - Nested logit model
Lecture 41 - Introduction to Trip Assignment
Lecture 42 - Route Choice
Lecture 43 - Link assignment - 1
Lecture 44 - Link assignment - 2
Lecture 45 - Dynamic traffic assignment
Lecture 46 - Transportation Software
Lecture 47 - CUBE Overview
Lecture 48 - Travel demand modelling using CUBE and VISUM
Lecture 49 - Activity based modelling in CUBE
Lecture 50 - Vehicular emission and pollution modelling
Lecture 51 - Urban Freight Planning
Lecture 52 - Urban Freight Planning
Lecture 53 - Urban Freight Planning
Lecture 54 - Last Mile Logistics - 1
Lecture 55 - Last Mile Logistics - 2
Lecture 56 - Employment location choice and Real estate Development location choice
Lecture 57 - Activity based model - 1
Lecture 58 - Activity based model - 2
Lecture 59 - Mode choice using Machine Learning
Lecture 60 - Shared Mobility
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NPTEL Video Course - Architecture - NOC: Urban utilities Planning: Water Supply, Sanitation and Drainage
Subject Co-ordinator - Prof. Debapratim Pandit
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Urban Utilities Planning Issues
Lecture 2 - Planning Strategies
Lecture 3 - Planning Strategies (Continued...)
Lecture 4 - Urban Utilities
Lecture 5 - Water Sensitive Urban Planning
Lecture 6 - Water Demand Prediction and Management
Lecture 7 - Types of Urban Water Demand
Lecture 8 - Fluctuations in Urban Water Demand
Lecture 9 - Role of Government
Lecture 10 - Cost of water supply
Lecture 11 - Rainfall, Runoff and Ground Water
Lecture 12 - Groundwater Properties and Flow Characteristics
Lecture 13 - Groundwater Intakes and Issues
Lecture 14 - Groundwater Yield
Lecture 15 - Surface Water Intakes
Lecture 16 - Pumping Stations
Lecture 17 - Pumps
Lecture 18 - Sizing of Pumps
Lecture 19 - Service Reservoir - Part I
Lecture 20 - Service Reservoir - Part II
Lecture 21 - Distribution System Layout
Lecture 22 - Conveyance of water - Part I
Lecture 23 - Conveyance of water - Part II
Lecture 24 - Pipes, Joints, Meters and SCADA Systems
Lecture 25 - Distribution Network Design
Lecture 26 - Water quality and testing - Part I
Lecture 27 - Water quality and testing - Part II
Lecture 28 - Water treatment - Part I
Lecture 29 - Water treatment - Part II
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Lecture 30 - Water treatment - Part III
Lecture 31 - Sanitation basics - Part I
Lecture 32 - Sanitation Basics - Part II
Lecture 33 - Sewage Systems - Part I
Lecture 34 - Sewage Systems - Part II
Lecture 35 - Sewage Systems - Part III
Lecture 36 - Water Carriage System and Sewerage Layout
Lecture 37 - Quantity of Sanitary Sewage
Lecture 38 - Storm Water Drainage Planning - Part I
Lecture 39 - Storm Water Drainage Planning - Part II
Lecture 40 - Storm Water Drainage Planning - Part III
Lecture 41 - Sewer Design
Lecture 42 - Runoff estimation - Part 1
Lecture 43 - Runoff estimation - Part 2
Lecture 44 - Sewerage Network Design - Part 1
Lecture 45 - Sewerage Network Design - Part 2
Lecture 46 - Sewer appurtenances - Part 1
Lecture 47 - Sewer appurtenances - Part 2
Lecture 48 - Storm water drains
Lecture 49 - Sewer maintenance and cleaning
Lecture 50 - Laying of sewer and utility corridors
Lecture 51 - Sewage disposal and treatment in India: Introduction
Lecture 52 - Natural methods of sewage treatment
Lecture 53 - Artificial sewage treatment - Part 1: Primary treatment
Lecture 54 - Artificial sewage treatment - Part 2: Secondary treatment
Lecture 55 - Artificial sewage treatment - Part 3: Advanced methods
Lecture 56 - Ground water Recharge - Part 1
Lecture 57 - Ground water Recharge - Part 2
Lecture 58 - Urban flood management and drainage plans - Part 1
Lecture 59 - Urban flood management and drainage plans - Part 2
Lecture 60 - Urban flood management and drainage plans - Part 3
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NPTEL Video Course - Architecture - NOC: Urban Services Planning
Subject Co-ordinator - Prof. Debapratim Pandit
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction
Lecture 2 - Strategic Aspects
Lecture 3 - Regulatory Framework
Lecture 4 - Municipal Management and Finance - Part I
Lecture 5 - Municipal Management and Finance - Part II
Lecture 6 - Service Planning Basics - Part I
Lecture 7 - Service Planning Basics - Part II
Lecture 8 - Service Planning Basics - Part III
Lecture 9 - Service Planning Basics - Part IV
Lecture 10 - Service Planning Basics - Part V
Lecture 11 - Solid Waste Management Rules and Guidelines
Lecture 12 - Solid Waste Management Rules 2016
Lecture 13 - MSWM Plan Preparation - Part I
Lecture 14 - MSWM Plan Preparation - Part II
Lecture 15 - MSWM Plan Preparation - Part III
Lecture 16 - Waste Generation - Part I
Lecture 17 - Waste generation - Part II
Lecture 18 - Waste quantification and characteristics
Lecture 19 - Waste composition
Lecture 20 - Waste storage
Lecture 21 - Primary and Secondary waste collection - Part I
Lecture 22 - Primary and Secondary waste collection - Part II
Lecture 23 - Primary and Secondary waste collection - Part III
Lecture 24 - Routing and scheduling for solid waste vehicles - Part I
Lecture 25 - Routing and scheduling for solid waste vehicles - Part II
Lecture 26 - Waste processing, recycling and recovery - Part 1
Lecture 27 - Waste processing, recycling and recovery - Part 2
Lecture 28 - Composting - Part 1
Lecture 29 - Composting - Part 2
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Lecture 30 - Composting - Part 3
Lecture 31 - SWM 2016 Specifications for Sanitary Landfills
Lecture 32 - Site selection for Sanitary Landfills
Lecture 33 - Sanitary Landfill Design - Part I
Lecture 34 - Sanitary Landfill Design - Part II
Lecture 35 - Sanitary Landfill design - Part III
Lecture 36 - Waste to Energy - Part I: Biomethanation
Lecture 37 - Waste to Energy - Part II: Refuse Derived Fuel
Lecture 38 - Waste to Energy - Part III: Incineration
Lecture 39 - Waste to Energy - Part IV
Lecture 40 - Life Cycle Assessment
Lecture 41 - Street sweeping and Cleaning of surface drains
Lecture 42 - Construction and demolition waste management - Part I
Lecture 43 - Construction and demolition waste management - Part II
Lecture 44 - Special waste management - Part I
Lecture 45 - Special waste management - Part II
Lecture 46 - Healthcare facility standards - Part I
Lecture 47 - Healthcare facility standards - Part II
Lecture 48 - Urban Health Services - Part I
Lecture 49 - Urban Health Services - Part II
Lecture 50 - Health in Urban Planning
Lecture 51 - Municipal Social Services: Introduction
Lecture 52 - Economic and Social development
Lecture 53 - Urban Poverty Alleviation
Lecture 54 - Education
Lecture 55 - Vulnerable population groups
Lecture 56 - Vector Borne Disease Control
Lecture 57 - Street Lighting
Lecture 58 - Urban Forestry, Parks and Open Spaces
Lecture 59 - Fire Stations
Lecture 60 - Crematoriums and Burial Grounds
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NPTEL Video Course - Architecture - NOC: Introduction to History of Architecture in India
Subject Co-ordinator - Prof. Pushkar Sohoni
Co-ordinating Institute - IIT - Madras
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Early Architecture
Lecture 2 - Buddhist and Early Temple Architecture
Lecture 3 - Sacrificial Altars and Divine Shelters
Lecture 4 - The Great Temple
Lecture 5 - Week-1 Review
Lecture 6 - Delhi Sultanate
Lecture 7 - Regional Sultanas
Lecture 8 - Temple and Mosque
Lecture 9 - Daulatabad Fort
Lecture 10 - Week-2 Review
Lecture 11 - Mughal Architecture - Part 1
Lecture 12 - Mughal Architecture - Part 2
Lecture 13 - Imbrication of Sultanate and Maratha Architecture
Lecture 14 - Maratha Temple
Lecture 15 - Week-3 Review
Lecture 16 - Princely States of India
Lecture 17 - Colonial Architecture In India
Lecture 18 - International, Art Deco, Modern
Lecture 19 - Architecture Today Commerce and Creativity
Lecture 20 - Week-4 Review
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NPTEL Video Course - Architecture - NOC: Strategies for Sustainable Design
Subject Co-ordinator - Prof. Shiva Ji
Co-ordinating Institute - IIT - Madras
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Strategies for Sustainable Design - Welcome Lecture
Lecture 2 - Various Perspectives around Sustainability
Lecture 3 - Spheres of Energy Efficient/Green/Environmental/Sustainable Designs
Lecture 4 - Environmental Sustainability
Lecture 5 - Social Sustainability
Lecture 6 - Economic Sustainabilty
Lecture 7 - Climate Change Mitigation and the Way Forward
Lecture 8 - Future of Human Habitation Design
Lecture 9 - Relevance of Sustainable Design in Contemporary Context
Lecture 10 - Built Environment and Energy Consumption
Lecture 11 - Reliance and Dependence of Building Design on Energy
Lecture 12 - Current Scenario of Sustainable Design: Indian
Lecture 13 - Current Scenario of Sustainable Design: International
Lecture 14 - Designing Strategically for Preventing pollution: Air, Water, Soil, Noise, Light Radiation, etc
Lecture 15 - Low Environmental Impact
Lecture 16 - Thinking for Alternatives through Systemic Design
Lecture 17 - Consumption and Consumerist Lifestyle
Lecture 18 - Environmental impact Assessment
Lecture 19 - Lifecycle Analysis - Part A
Lecture 20 - Lifecycle Analysis - Part B
Lecture 21 - Growth and Development in Construction and Allied Sectors
Lecture 22 - Policy Push in Real Estate and Manufacturing Sectors
Lecture 23 - Policy Push for Development of the Low Economic Regions
Lecture 24 - Sustainable Building Materials
Lecture 25 - Reduce/Reuse/Recycle
Lecture 26 - National Building Code 2016 - Part 11 and Energy Conservation Building Code
Lecture 27 - Guidelines for Building Design by SA Methods: GRIHA
Lecture 28 - UN SDG for Sustainable Development
Lecture 29 - LeNS Design Method and Tools such as SPSS, MSDS, DE
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Lecture 30 - Vernacular Design Case Example

Lecture 31 - Climate Responsiveness

Lecture 32 - Thinking the Unthinkable: Need for Innovation in Design Process

Lecture 33 - Design for Net-Zero Energy, Lighting, Ventilation, Views and Human Comfort

Lecture 34 - D4S with Inspiration from Nature

Lecture 35 - D4S for Optimization of Manufacturing

Lecture 36 - International Conventions, Laws and Emerging Technologies for SD

Lecture 37 - Environmental Laws

Lecture 38 - Emerging Technologies and their Possible Intervention in Design

Lecture 39 - Case 1 - Campus Planning and Design of IIT Gandhinagar

Lecture 40 - Case 2 - A Comparative Analysis of Product Designs

Lecture 41 - Case 3 - Design of First Net-Zero Building of India

Lecture 42 - Case 4 - A Comparative Analysis of Internatonal Design Projects

Lecture 43 - Summary

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NPTEL Video Course - Architecture - NOC: Architectural Approaches to Decarbonization of Buildings
Subject Co-ordinator - Prof. Iyer Vijayalaxmi Kasinath
Co-ordinating Institute - School of Planning and Architecture Vijayawada
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to GHG and the role of buildings in its reduction
Lecture 2 - Strategies to reduce GHG in Building Industry
Lecture 3 - Policies, initiatives and future trends to reduce GHG in the Building Industry
Lecture 4 - India's stand on Carbon Neutrality
Lecture 5 - India's approach to long term low Low Carbon Development - Part 1
Lecture 6 - India's approach to long term low Low Carbon Development - Part 2
Lecture 7 - Embodied energy and Embodied Carbon
Lecture 8 - Basics of Embodied and Operational Carbon - Part 1
Lecture 9 - Basics of Embodied and Operational Carbon - Part 2
Lecture 10 - Factors of Embodied energy calculation
Lecture 11 - Operational Energy and Operational Carbon - Part 1
Lecture 12 - Operational Energy and Operational Carbon - Part 2
Lecture 13 - Strategies to reduce Operational Energy
Lecture 14 - Strategies to reduce Operational Energy and Case study
Lecture 15 - Impact of reducing Operational Energy and Operational Carbon
Lecture 16 - Passive Design Strategies in Carbon neutral Architecture
Lecture 17 - Orientation and Form for Passive cooling
Lecture 18 - Appropriate Planning for Passive Architecture
Lecture 19 - Appropriate fenestration for Passive Architecture
Lecture 20 - Appropriate Planning and openings for Passive Architecture
Lecture 21 - Settlement planning principles for carbon neutrality
Lecture 22 - Settlement planning principles for carbon neutrality - case studies
Lecture 23 - Appropriate Openings for reduced Operational Energy - Part 1
Lecture 24 - Appropriate Openings for reduced Operational Energy - Part 2
Lecture 25 - Methods of bringing in natural daylight
Lecture 26 - Role of Landscape and water in Passive Design - Part 1
Lecture 27 - Role of Landscape and water in Passive Design - Part 2
Lecture 28 - Carbon neutrality through strategising building materials
Lecture 29 - Choice of building materials for carbon neutrality - Part 1
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Lecture 30 - Choice of building materials for carbon neutrality - Part 2
Lecture 31 - Strategies to reduce Embodied Carbon through Design and Development
Lecture 32 - Renewable building materials
Lecture 33 - Renewable building materials and technologies
Lecture 34 - Renewable building materials based Case studies
Lecture 35 - High embodied carbon building materials
Lecture 36 - Comparison between conventional and alternate building materials
Lecture 37 - Environmental impacts of building materials and components
Lecture 38 - Building Envelope types
Lecture 39 - Dynamic Envelope - Case Studies Part 1
Lecture 40 - Dynamic Envelope - Case Studies Part 2
Lecture 41 - Low Energy Envelope - Part 1
Lecture 42 - Low Energy Envelope - Part 2
Lecture 43 - Natural Daylighting Strategies
Lecture 44 - Daylighting optimized skylights
Lecture 45 - Daylighting optimized fenestration
Lecture 46 - Daylighting - Case studies 1
Lecture 47 - Daylighting - Case studies 2
Lecture 48 - Recap and Conclusion
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NPTEL Video Course - Architecture - NOC: Building Materials as a Cornerstone to Sustainability
Subject Co-ordinator - Prof. Iyer Vijayalaxmi Kasinath
Co-ordinating Institute - School of Planning and Architecture Vijayawada
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Building materials, their classification, environmental issues
Lecture 2 - Vernacular Materials
Lecture 3 - Mud - Traditional Material
Lecture 4 - Mud as a Building material
Lecture 5 - Stone
Lecture 6 - Thatch
Lecture 7 - Bamboo
Lecture 8 - Binders
Lecture 9 - Strawbale
Lecture 10 - Laterite Quarry Waste
Lecture 11 - Alternate building materials
Lecture 12 - Flyash
Lecture 13 - Furnace Slag
Lecture 14 - Cross Laminated Timber
Lecture 15 - Construction and Demolition waste
Lecture 16 - Hempcrete
Lecture 17 - Phosphogypsum
Lecture 18 - Aerated Concrete
Lecture 19 - Alternate aggregate
Lecture 20 - Innovative Building materials
Lecture 21 - Bioluminiscent paints
Lecture 22 - Milk Paints and Recycled Plastics
Lecture 23 - Agro bricks
Lecture 24 - Light emitting materials - concrete
Lecture 25 - Co2 absorbing concrete
Lecture 26 - Mycelium
Lecture 27 - Fibre Reinforced Concrete
Lecture 28 - Geopolymer concrete
Lecture 29 - Introduction to Advanced Building Materials
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Lecture 30 - Carbon Sequestration Lecture 31 - Ecobind Tiles Lecture 32 - Permeable Concrete Lecture 33 - Introduction to smart materials Lecture 34 - Types of Smart Materials Lecture 35 - Facade systems - Smart Windows Lecture 36 - LCD Lecture 37 - Photochromics Lecture 38 - Thermochromic Lecture 39 - Thermotropic materials Lecture 40 - Types of Thermotropic materials Lecture 41 - Phase Change Materials - Part 1 Lecture 42 - Phase Change Materials - Part 2 Lecture 43 - Adhesion changing smart materials Lecture 44 - Titanium di oxide products Lecture 45 - Mechanochromic, Chemochromic Lecture 46 - Electrochromics Lecture 47 - Nanocellulose and Electroluminiscent Lecture 48 - Concluding Lectuer

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NPTEL Video Course - Architecture - NOC: Housing Policy and Planning
Subject Co-ordinator - Prof. Uttam Kumar Roy
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Housing
Lecture 2 - Housing Classifications
Lecture 3 - Housing Situation
Lecture 4 - Policy and Public intervention - 1
Lecture 5 - Policy and Public intervention - 2
Lecture 6 - Urban Reform
Lecture 7 - Housing Policy
Lecture 8 - Legal and Institutional Framework for Housing
Lecture 9 - Land for Housing - 1
Lecture 10 - Land for Housing - 2
Lecture 11 - Affordability and Housing Finance
Lecture 12 - Technology Systems in Housing Delivery - 1
Lecture 13 - Technology Systems in Housing Delivery - 2
Lecture 14 - Housing for All Mission (PMAY) and Technology Sub-mission
Lecture 15 - Summing up of Part-1 (Policy) and Introduction to Housing Planning
Lecture 16 - Urban and Regional Planning - 1
Lecture 17 - Urban and Regional Planning - 2
Lecture 18 - Development Controls
Lecture 19 - Housing Infrastructure and Services-1
Lecture 20 - Housing Infrastructure and Services-2
Lecture 21 - Housing Infrastructure and Services-3
Lecture 22 - Housing Strategy for City-1
Lecture 23 - Housing Strategy for City-2
Lecture 24 - Housing Strategy for City-3
Lecture 25 - Planning for Plotted Housing
Lecture 26 - Planning for Group Housing
Lecture 27 - Community Development in Housing
Lecture 28 - Cooperative Housing
Lecture 29 - Institutional and rental housing
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- Lecture 30 Working Person s hostel and Serviced Apartments
- Lecture 31 Informal Housing Typologies
- Lecture 32 Approaches in Improving Slums and Squatters
- Lecture 33 Urban Village and Unauthorized Construction
- Lecture 34 Pavement Dwellers and Night Shelters
- Lecture 35 Old Age Home
- Lecture 36 Disaster Resistant Housing
- Lecture 37 Housing and Real Estate Development
- Lecture 38 Housing Management
- Lecture 39 Housing
- Lecture 40 Course Summary and Conclusion

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NPTEL Video Course - Architecture - NOC: Visual Communication Design for Digital Media
Subject Co-ordinator - Prof. Saptarshi Kolay
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Visual Communication Design for Digital Media
Lecture 2 - Elements of Design - Part 1
Lecture 3 - Elements of Design - Part 2
Lecture 4 - Principles of Design - Part 1
Lecture 5 - Principles of Design - Part 2
Lecture 6 - Types of digital media technology  an overview of the field
Lecture 7 - Typography - 1
Lecture 8 - Typography - 2
Lecture 9 - Semiotics - 1
Lecture 10 - Semiotics - 2
Lecture 11 - Visual perception
Lecture 12 - Contemporary Visual Language - 1
Lecture 13 - Contemporary Visual Language - 2
Lecture 14 - Technology Advancements in Digital Media
Lecture 15 - Visual Design Methodology - 1 Generic Design
Lecture 16 - Visual Design Methodology - 2_Generic Design
Lecture 17 - Visual Design Methodology - 3 Animation
Lecture 18 - Visual Design Methodology - 4 web design
Lecture 19 - Visual Design Methodology - 5 graphic-design
Lecture 20 - Case Studies of Visual Design on Digital Paradigm
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NPTEL Video Course - Architecture - NOC: Culturally Responsive Built Environments
Subject Co-ordinator - Prof. Ram Sateesh Pasupuleti
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - A Place
Lecture 2 - Place and Identity
Lecture 3 - Habitus - A Sense of Place
Lecture 4 - A Home - Introduction to Vernacular Architecture
Lecture 5 - The New Vernacular
Lecture 6 - Understanding Vernacular - Towards Anthropology
Lecture 7 - Understanding Rock Shelters
Lecture 8 - The Ecological and Sacred Dimension
Lecture 9 - Winter Landscape and Urbanism
Lecture 10 - Winter Cities
Lecture 11 - Power in Built Form
Lecture 12 - Spatial Analysis
Lecture 13 - The Forbidden Space
Lecture 14 - Religious Architecture
Lecture 15 - Understanding Construction Workers' Housing
Lecture 16 - Culture and Disasters - Towards Method and Framework
Lecture 17 - Understanding Post Tsunami Response (Tamilnadu)
Lecture 18 - Cultural Heritage
Lecture 19 - Understanding the Cultural Context in Disasters and Development
Lecture 20 - Culture, Climate Change Adaptation And Disaster Risk Reduction
Lecture 21 - Conservation
Lecture 22 - Conservation
Lecture 23 - Learning from Vernacular
Lecture 24 - Protection of the World Cultural and Natural Heritage
Lecture 25 - Intangible Cultural Heritage
Lecture 26 - City HRIDAY Plan of Badami
Lecture 27 - Cultural planning Approaches
Lecture 28 - Urban Transformations in Doha
Lecture 29 - How The Other Half Builds?
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Lecture 30 - How To/Not To Relocate Slums?

Lecture 31 - Stone- as a Vernacular Building material

Lecture 32 - Timber as Vernacular Building material

Lecture 33 - Timber Construction (A journey from Advanced to Vernacular)

Lecture 34 - How To Study Vernacular Architecture?

Lecture 35 - Architecture with out Architects

Lecture 36 - Social Change in India (Sanskritisation)

Lecture 37 - Social Change in India (Westernization)

Lecture 38 - Social Change in India (Modernization- Globalization)

Lecture 39 - Pluralism in Built Environment Education

Lecture 40 - Summary and Conclusion
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NPTEL Video Course - Architecture - NOC: Contemporary Architecture and Design
Subject Co-ordinator - Prof. Saptarshi Kolay
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction
Lecture 2 - World Architecture and Design History
Lecture 3 - Industrial Revolution and Beginning of Modern Era
Lecture 4 - Post Industrial Revolution
Lecture 5 - Post Industrial Revolution
Lecture 6 - Post Industrial Revolution
Lecture 7 - Post Industrial Revolution
Lecture 8 - Evolution and Timeline of Modern Architecture and Design
Lecture 9 - Phases of Modern Architecture - Bauhaus
Lecture 10 - Phases of Modern Architecture - De Stijl
Lecture 11 - Phases of Modern Architecture - Chicago School
Lecture 12 - Phases of Modern Architecture - Chicago and Prairie School
Lecture 13 - Phases of Modern Architecture - Prairie School
Lecture 14 - Phases of Modern Architecture - Organic - Part 1
Lecture 15 - Phases of Modern Architecture - Organic - Part 2
Lecture 16 - Phases of Modern Architecture - Art Deco - Part 1
Lecture 17 - Phases of Modern Architecture - Art Deco - Part 2
Lecture 18 - Phases of Modern Architecture - Internationalism - Part 1
Lecture 19 - Phases of Modern Architecture - Internationalism - Part 2
Lecture 20 - Phases of Modern Architecture - Expressionism
Lecture 21 - Phases of Modern Architecture - Monolithic Style
Lecture 22 - Phases of Modern Architecture - Tensile and Steel Structures - Part 1
Lecture 23 - Phases of Modern Architecture - Tensile and Steel Structures - Part 2
Lecture 24 - Phases of Modern Architecture - Brutalism
Lecture 25 - Phases of Modern Architecture - Metabolism
Lecture 26 - Phases of Modern Architecture - Brutalism and Metabolism in India
Lecture 27 - Phases of Modern Art - Part 1
Lecture 28 - Phases of Modern Art - Part 2
Lecture 29 - Phases of Post Modern Architecture - Part I
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Lecture 30 - Phases of Post Modern Architecture - Part II

Lecture 31 - Phases of Post Modern Architecture - Historicism

Lecture 32 - Phases of Post Modern Architecture - High Tech

Lecture 33 - Phases of Post Modern Architecture - Neo Modern

Lecture 34 - Phases of Post Modern Architecture - Critical Regionalism

Lecture 35 - Phases of Post Modern Architecture - Memphis Milano

Lecture 36 - Phases of Post Modern Architecture - Deconstructivism - Part I

Lecture 37 - Phases of Post Modern Architecture - Deconstructivism - Part II

Lecture 38 - Phases of Post Modern Architecture - Pop Art

Lecture 39 - Evolution of Typography in Contemporary Era

Lecture 40 - Phases of Post Modern Architecture - Industrial Design
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NPTEL Video Course - Architecture - NOC: Role of Craft and Technology in Interior-Architecture
Subject Co-ordinator - Prof. Smriti Saraswat
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Interior-Architecture
Lecture 2 - Craft
Lecture 3 - Interior-Architecture and Craft and Technology
Lecture 4 - Interior-Architecture and Craft and Technology
Lecture 5 - Summary and Discourse - I
Lecture 6 - Interior-Architecture
Lecture 7 - Traditional Knowledge Systems and the Ingenious skills of the communities
Lecture 8 - Interior-Architecture
Lecture 9 - Traditional Knowledge Systems and the Indigenous materials; tools and techniques
Lecture 10 - Summary and Discourse - II
Lecture 11 - Creative and Cultural Industries
Lecture 12 - Building Crafts
Lecture 13 - Building Crafts
Lecture 14 - Building Crafts; Craft and Technology and its Role in Creating/Enhancing Interior-Architecture
Lecture 15 - Summary and Discourse - III
Lecture 16 - Best Studies related to the Craft Sector
Lecture 17 - Case Studies from Gujarat
Lecture 18 - Case Studies from Rajasthan
Lecture 19 - Case Studies from Uttarakhand
Lecture 20 - Summary and Discourse - IV
Lecture 21 - Craft and Technology in Interior Architecture
Lecture 22 - Craft and Technology in Interior Architecture; Decoding Systems
Lecture 23 - Craft and Technology in Interior Architecture
Lecture 24 - Craft and Technology in Interior Architecture; Transformation through Time
Lecture 25 - Summary and Discourse - V
Lecture 26 - Overview of the Craft Sector Today
Lecture 27 - Craft Sector
Lecture 28 - Craft Sector
Lecture 29 - Craft Sector
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Lecture 30 - Summary and Discourse - VI
Lecture 31 - Continuity and Revival
Lecture 32 - Continuity and Revival
Lecture 33 - Continuity and Revival
Lecture 34 - Continuity and Revival
Lecture 35 - Summary and Discourse - VII
Lecture 36 - Interventions
Lecture 37 - Interventions
Lecture 38 - Interventions
Lecture 39 - Interventions
Lecture 40 - Summary and Discourse - VIII
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NPTEL Video Course - Architecture - NOC: Urban Governance and Development Management
Subject Co-ordinator - Prof. Uttam Kumar Roy
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Urbanisation
Lecture 2 - Introduction to Urban Governance
Lecture 3 - Constitutional Provision for Urban Local Governance
Lecture 4 - Legislative Provisions
Lecture 5 - Interfaces
Lecture 6 - People & Community - 1
Lecture 7 - People & Community - 2
Lecture 8 - Land as Basic Resource
Lecture 9 - Urban Environment and Ecology
Lecture 10 - Distinctive Features of Non-Municipal Urban (NMU) and Nagar Panchayats
Lecture 11 - Organisation Development
Lecture 12 - Transparency and Accountability
Lecture 13 - Capacity Building - 1
Lecture 14 - Capacity Building - 2
Lecture 15 - Improving Systems and Processes for Urban Governance
Lecture 16 - Urban Reform and Managing Change - 1
Lecture 17 - Urban Reform and Managing Change - 2
Lecture 18 - Visioning for Cities
Lecture 19 - Resolving Conflicts for Managing Change
Lecture 20 - Leadership and Team Building
Lecture 21 - Basic Concepts of Planning and Development
Lecture 22 - Regional and Metropolitan Planning
Lecture 23 - Urban Planning
Lecture 24 - Urban Infrastructure and Services - 1
Lecture 25 - Urban Infrastructure and Services - 2
Lecture 26 - Overview of Municipal Finance
Lecture 27 - Alternate Sources of Municipal Finance
Lecture 28 - Municipal Accounts
Lecture 29 - Value Capture Financing
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Lecture 30 - Public Private Partnership (PPP) in Urban Governance
Lecture 31 - Housing Strategy for Cities
Lecture 32 - Housing & Urban Poverty
Lecture 33 - Real Estate Regulation and Development
Lecture 34 - Urban Land Management
Lecture 35 - Urban Risk and Disaster Management
Lecture 36 - Managing Urban Environment - 1
Lecture 37 - Managing Urban Environment - 2 (Mandates for Blue and Green Infrastructures)
Lecture 38 - Traffic and Transportation Management - 1
Lecture 39 - Traffic and Transportation Management - 2
Lecture 40 - Designing Urban Public Spaces
Lecture 41 - Centrally Sponsored Programmes and Schemes
Lecture 42 - AMRUT
Lecture 43 - Smart City
Lecture 44 - Swachh Bharat Mission and HRIDAY
Lecture 45 - PMAY and NULM
Lecture 46 - Fundamentals of Project Planning
Lecture 47 - Formulation of Projects
Lecture 48 - Project Monitoring and Management
Lecture 49 - Essentials of Infrastructure and Engineering Design
Lecture 50 - Managing Trans-municipal and Large Projects
Lecture 51 - Enhancing City Image
Lecture 52 - Essential Competencies of City Managers
Lecture 53 - Problem Solving and Decision Making
Lecture 54 - Effective Negotiation
Lecture 55 - Communication Skills
Lecture 56 - Time Management
Lecture 57 - Stress Management
Lecture 58 - Best Practices in Urban Management
Lecture 59 - Reflective Learning and Excellence
Lecture 60 - Course Summary, Doubt Clearing and Further Reading
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NPTEL Video Course - Architecture - NOC: User Interface Design
Subject Co-ordinator - Prof. Saptarshi Kolay
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction
Lecture 2 - User Interface Designer
Lecture 3 - Design methods - I
Lecture 4 - Design Methods - II
Lecture 5 - Human Factor in Interaction Design
Lecture 6 - User Research - I
Lecture 7 - User Research - II
Lecture 8 - Low Fidelity Design - I
Lecture 9 - Low Fidelity Design - II
Lecture 10 - High Fidelity Design
Lecture 11 - Visual Cognition
Lecture 12 - Contemporary Visual Language in Design - I
Lecture 13 - Contemporary Visual Language in Design - II
Lecture 14 - Usage of Typography in User Interface Design - I
Lecture 15 - Usage of Typography in User Interface Design - II
Lecture 16 - Design Semiotics and Visual Perception
Lecture 17 - Visual Communication Design
Lecture 18 - User Testing - I
Lecture 19 - User Testing - II
Lecture 20 - Contemporary Interface Design Technology
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NPTEL Video Course - Architecture - NOC: Disaster Recovery and Build Back Better
Subject Co-ordinator - Prof. Subhojyothi Samaddar
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Disaster risk
Lecture 2 - Disaster Recovery and Build Back Better
Lecture 3 - Risk Perception and Disaster Risk Preparedness - Part 2
Lecture 4 - Build Back Better - People's Perspectives
Lecture 5 - Architecture at Risk
Lecture 6 - Culture, climate change adaptation and disaster risk reduction
Lecture 7 - Ayutthaya at Risk
Lecture 8 - Disaster vulnerability
Lecture 9 - Cultural Heritage
Lecture 10 - Rock shelters at risk
Lecture 11 - The Built Environment Professions in Disaster Risk Reduction and Response
Lecture 12 - Gadri discussions
Lecture 13 - Community Participation in Disaster Risk Governance
Lecture 14 - Community Participation in Disaster Risk Governance
Lecture 15 - Frameworks
Lecture 16 - Disaster Preparedness from Cognitive and Heuristic Perspectives
Lecture 17 - Information for Disaster Preparedness
Lecture 18 - The Role of Social Networks in Disaster Preparedness
Lecture 19 - Diffusion of Disaster Preparedness Technology
Lecture 20 - Cities and Climate Change
Lecture 21 - Temporary Shelter Construction in India
Lecture 22 - Temporary shelter construction in Kenya
Lecture 23 - Build back better in Nepal recovery
Lecture 24 - Lessons from Peru
Lecture 25 - Progressive Housing in El Salvador
Lecture 26 - Decentralizing (re)construction in Colombia
Lecture 27 - Tsunami reconstruction in Tamilnadu - Part 1 (Approach)
Lecture 28 - Tsunami reconstruction in Tamilnadu - Part 2 (Findings)
Lecture 29 - Culture and (disaster)risk
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- Lecture 30 Cultural theory of risk
- Lecture 31 Guidance to DRR
- Lecture 32 Self-help housing in Turkey
- Lecture 33 The Production of refugee place in time
- Lecture 34 Assessments
- Lecture 35 Designing culturally responsive built environment in disaster context
- Lecture 36 Disaster Risk Communication
- Lecture 37 CAM and CBDRM
- Lecture 38 How to teach disaster recovery and built back better in-built environment education
- Lecture 39 Source, Message and Receiver in Disaster Risk Communication
- Lecture 40 Summary and Conclusion

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NPTEL Video Course - Architecture - NOC: Sustainable Architecture
Subject Co-ordinator - Prof. Avlokita Agrawal
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Sustainability
Lecture 2 - Buildings, Needs and 'Sustainability'
Lecture 3 - Sustainability and Sustainable Development
Lecture 4 - Historic Origins of Sustainability
Lecture 5 - Pioneers of Sustainable Development
Lecture 6 - Environmental Impacts of Development
Lecture 7 - Environmental Impacts of Development
Lecture 8 - Social and Economic Impacts of Development
Lecture 9 - Agenda 21 and UN Goals
Lecture 10 - Established needs for Sustainability in Building Sector
Lecture 11 - Definition and Characteristics of Sustainability
Lecture 12 - Flavors of Sustainable Architecture
Lecture 13 - Indicators and Terminologies in Sustainable Architecture
Lecture 14 - Process of Designing Green Buildings
Lecture 15 - Green Building Ratings and Components
Lecture 16 - Fundamentals of Thermal Comfort
Lecture 17 - Climatic Considerations, Physiological Objectives of Design
Lecture 18 - Fundamentals of Climate Responsive Buildings - I
Lecture 19 - Fundamentals of Climate Responsive Buildings - II
Lecture 20 - Visual and Acoustic Comfort
Lecture 21 - Sustainable Sites - I
Lecture 22 - Sustainable Sites - II
Lecture 23 - Sustainable Sites - III
Lecture 24 - Sustainable Sites - IV
Lecture 25 - Sustainable Sites - V
Lecture 26 - Water Conservation - I
Lecture 27 - Water Conservation - II
Lecture 28 - Water Conservation - III
Lecture 29 - Water Conservation - IV
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Lecture 30 - Water Conservation - V
Lecture 31 - Materials and Resources - I
Lecture 32 - Materials and Resources - II
Lecture 33 - Materials and Resources - III
Lecture 34 - Materials and Resources - IV
Lecture 35 - Materials and Resources - V
Lecture 36 - Energy Efficiency - I
Lecture 37 - Energy Efficiency - II
Lecture 38 - Energy Efficiency - III
Lecture 39 - Energy Efficiency - IV
Lecture 40 - Energy Efficiency - V
Lecture 41 - Indoor Environmental Quality - I
Lecture 42 - Indoor Environmental Quality - II
Lecture 43 - Indoor Environmental Quality - III
Lecture 44 - Indoor Environmental Quality - IV
Lecture 45 - Indoor Environmental Quality - V
Lecture 46 - Vernacular Architecture - I
Lecture 47 - Vernacular Architecture - II
Lecture 48 - Codes and Standards
Lecture 49 - Introduction to Whole Building Simulation - I
Lecture 50 - Introduction to Whole Building Simulation - II
Lecture 51 - Whole Building Performance - I
Lecture 52 - Whole Building Performance - II
Lecture 53 - Whole Building Performance - III
Lecture 54 - Whole Building Performance - IV
Lecture 55 - Whole Building Performance - V
Lecture 56 - Whole Building Performance - VI
Lecture 57 - Whole Building Performance - VII
Lecture 58 - Whole Building Performance - VIII
Lecture 59 - Whole Building Performance - IX
Lecture 60 - Whole Building Performance - X
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NPTEL Video Course - Architecture - NOC: Structure, Form and Architecture: The Synergy
Subject Co-ordinator - Prof. Shubhajit Sadhukhan
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Structure, Form and Architecture
Lecture 2 - Relationship of Structure to Architectural Buildings - Part I
Lecture 3 - Relationship of Structure to Architectural Buildings - Part II
Lecture 4 - Loads on Structures
Lecture 5 - Synthesis of Architectural and Structural Form
Lecture 6 - Connecting Structure and Architecture - Part I
Lecture 7 - Connecting Structure and Architecture - Part II
Lecture 8 - Structural Transformation in Architectural History
Lecture 9 - Factors affecting the Structural Forms
Lecture 10 - Learning from Animal's Architecture
Lecture 11 - Basic Structural Properties
Lecture 12 - Structural Requirements
Lecture 13 - Structural Arrangement
Lecture 14 - Structural Forms and Shapes
Lecture 15 - Structural Materials
Lecture 16 - Structural Typology
Lecture 17 - Compressive Structures
Lecture 18 - Tensile Structures
Lecture 19 - Load Bearing Structures
Lecture 20 - Temporary Structures
Lecture 21 - Framed Structure
Lecture 22 - Arch Structures
Lecture 23 - Vault Structures
Lecture 24 - Dome Structures
Lecture 25 - Grid Structures
Lecture 26 - Shell Structures
Lecture 27 - Trusses and Space Frames
Lecture 28 - Folded Plate Structures
Lecture 29 - Membrane Structures
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Lecture 30 - Pneumatic Structures

Lecture 31 - Structure and Architectural Forms in Windy Areas

Lecture 32 - Structure and Architectural Forms in Seismic Prone Areas

Lecture 33 - Structure and Architectural Forms in Flood Prone Areas

Lecture 34 - Cost Effective Structure and Architecture

Lecture 35 - Structure and Light in Architecture

Lecture 36 - Evolution of Highrise Structural System

Lecture 37 - Highrise Structural Components - Part I

Lecture 38 - Highrise Structural Components - Part II

Lecture 39 - Mega Structure and Architecture-Case Studies

Lecture 40 - Architecture and Structure - Past, Present and Future

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NPTEL Video Course - Architecture - NOC: Engineering-Architectural Graphics - Part I: Orthographic projection
Subject Co-ordinator - Prof. Avlokita Agrawal
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Engineering Graphics
Lecture 2 - Drawing Instruments
Lecture 3 - Sheet Layout and Fixing Sheet
Lecture 4 - Types of Lines and Graphic Symbols
Lecture 5 - Lettering
Lecture 6 - Dimensioning
Lecture 7 - Basic Geometrical Construction
Lecture 8 - Scales
Lecture 9 - Curves used in Engineering Practice: Conic Sections
Lecture 10 - Curves used in Engineering Practice: Cycloids, Trochoids and Involutes
Lecture 11 - Introduction to Orthographic Projection
Lecture 12 - Orthographic Projections - 1st Quadrant Vs 3rd Quadrant
Lecture 13 - Orthographic Projections - Projection of Points
Lecture 14 - Orthographic Projections - Introduction to Projection of Lines
Lecture 15 - Locus of Points
Lecture 16 - Projection of lines parallel to both the reference planes
Lecture 17 - Projection of line parallel to one and perpendicular to another plane
Lecture 18 - Projection of lines inclined to one plane
Lecture 19 - Projection of lines inclined to both the planes
Lecture 20 - Projection of a point and line on auxiliary plane
Lecture 21 - Projection of a plane perpendicular to both the reference planes
Lecture 22 - Projection of a plane perpendicular to one and parallel to another plane
Lecture 23 - Projection of a plane inclined to one and perpendicular to the other plane
Lecture 24 - Projection of a plane inclined to both the reference planes - I
Lecture 25 - Projection of a plane inclined to both the reference planes - II
Lecture 26 - Introduction to types of solids
Lecture 27 - Projection of solids in simple positions
Lecture 28 - Projection of solids with axis inclined to one of the reference planes and parallel to another
Lecture 29 - Projection of solids with axis inclined to both the reference planes
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Lecture 30 - Projection of spheres

Lecture 31 - Orthographic Projections Introduction to Sections of Solids

Lecture 32 - Orthographic Projections Sections of Prisms

Lecture 33 - Orthographic Projections Sections of Pyramids

Lecture 34 - Orthographic Projections Sections of Cylinders

Lecture 35 - Orthographic Projections Sections of Cones

Lecture 36 - Orthographic Projections Sections of Spheres

Lecture 37 - Development of Surfaces - I

Lecture 38 - Development of Surfaces - II

Lecture 39 - Intersection of Surfaces - I

Lecture 40 - Intersection of Surfaces - II
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NPTEL Video Course - Architecture - NOC: Introduction to Urban Planning
Subject Co-ordinator - Prof. Harshit Sosan Lakra
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Conceptual Understanding of the Urban Areas
Lecture 2 - Urbanization and Sustainable Development
Lecture 3 - Urban Planning and 73-74 Constitution Amendment Acts
Lecture 4 - Types and Level of Plans
Lecture 5 - Regional Plan - I
Lecture 6 - Regional Plan - II
Lecture 7 - Development Plan - I
Lecture 8 - Development Plan - II (Case Study- Draft Bhopal Development Plan 2031)
Lecture 9 - Zonal Plan
Lecture 10 - Town Planning Scheme
Lecture 11 - Local Area Plan (Urban Redevelopment Plan)
Lecture 12 - Special Purpose Plan (AMRUT)
Lecture 13 - Special Purpose Plan (HRIDAY)
Lecture 14 - Special Purpose Plan (Smart City)
Lecture 15 - Perspective Plan (Agenda 2030 SDGs)
Lecture 16 - Contextualizing Cities (Egyptian, Mesopotamian, and Indus Valley Civilization)
Lecture 17 - Contextualizing Cities (Vedic Period)
Lecture 18 - Contextualizing Cities (Greek and Roman)
Lecture 19 - Contextualizing Cities (Industrial Revolution)
Lecture 20 - Contextualizing Cities (1900-1939)
Lecture 21 - Contextualizing Cities (1940-1979)
Lecture 22 - Contextualizing Cities (1980-2021)
Lecture 23 - Public Health and Urban Planning - I
Lecture 24 - Public Health and Urban Planning - II
Lecture 25 - Public Health and Urban Planning - III
Lecture 26 - Public Health and Urban Planning - IV
Lecture 27 - Housing Issues in India
Lecture 28 - Culture and Planning of Cities
Lecture 29 - Urbanization and Environmental Problems
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Lecture 30 - Urbanization and Slums

Lecture 31 - Introduction to Planning Legislation

Lecture 32 - Evolution and Growth of Planning Legislation - I

Lecture 33 - Evolution and Growth of Planning Legislation - II (USA)

Lecture 34 - Evolution and Growth of Planning Legislation - III (India)

Lecture 35 - Land Acquisition Act

Lecture 36 - Legal Requirements for Industrial Development

Lecture 37 - National Environmental Legal Requirements

Lecture 38 - Section I - Cantonment Act and Section II - Legal Requirement for Heritage Conservation

Lecture 39 - Zoning Regulation

Lecture 40 - Contemplating Learning Outcomes and Future Direction in Urban Planning

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NPTEL Video Course - Architecture - NOC: Engineering, Architectural Graphics - Part II (Isometric and Axonomet
Subject Co-ordinator - Prof. Avlokita Agrawal
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to isometric projection and isometric Scale
Lecture 2 - Isometric projection of planar figures - quadrilaterals
Lecture 3 - Isometric projection of planar figures - circles, semi circles and curves
Lecture 4 - Isometric projection of straight prisms
Lecture 5 - Isometric projection of straight pyramids
Lecture 6 - Isometric projection of Straight Cylinders
Lecture 7 - Isometric projection of Cones
Lecture 8 - Isometric projection of Frustums of cones and pyramids
Lecture 9 - Isometric projection of section of solids
Lecture 10 - Isometric projection of spheres
Lecture 11 - Isometric projection of combination of solids
Lecture 12 - Isometric Projection of intersecting solids
Lecture 13 - Converting orthographic views to isometric drawing - 1
Lecture 14 - Converting orthographic views to isometric drawing - 2
Lecture 15 - Converting Isometric drawing to orthographic views
Lecture 16 - Introduction to axonometric projection
Lecture 17 - Axonometric projection of planar figures- quadrilaterals, circles and curves
Lecture 18 - Axonometric projection of prisms and pyramids
Lecture 19 - Axonometric projection of Cylinders, cones and spheres
Lecture 20 - Axonometric projection of intersecting solids and combination of solids
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NPTEL Video Course - Architecture - NOC: Environmental Impact Assessment
Subject Co-ordinator - Prof. Harshit Sosan Lakra
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - State of Global Environment (Air)
Lecture 2 - State of Global Environment (Biodiversity)
Lecture 3 - State of Global Environment (Oceans and Coasts)
Lecture 4 - State of Global Environment (Land and Soil)
Lecture 5 - State of Global Environment (Freshwater)
Lecture 6 - Definition, Process and Purpose of EIA
Lecture 7 - EIA Impact Areas, Current and Emerging - Part 1
Lecture 8 - EIA Impact Areas, Current and Emerging - Part II
Lecture 9 - EIA Origin in USA and World-Wide Development
Lecture 10 - EIA in India
Lecture 11 - World Sustainable Development Timeline (1970-1999)
Lecture 12 - World Sustainable Development Timeline (2000-2021)
Lecture 13 - EIA Law, Policy and Institutional arrangements for EIA systems - Part I
Lecture 14 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part II - Air
Lecture 15 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part III - Air
Lecture 16 - EIA Law, Policy and Institutional arrangements for EIA Systems - Part IV - Water and Geology
Lecture 17 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part V - Ecology
Lecture 18 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part VI - Coastal Ecology and C
Lecture 19 - EIA Law, Policy and Institutional arrangements for EIA Systems - Part VII - Noise
Lecture 20 - EIA Law, Policy and Institutional arrangements for EIA Systems - Part VIII - Ecosystem Services
Lecture 21 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part IX - Cultural Heritage and
Lecture 22 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part X
Lecture 23 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part XI
Lecture 24 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part XII
Lecture 25 - EIA Law, Policy and Institutional Arrangements for EIA Systems - Part XIII
Lecture 26 - EIA Process - Starting and Initial Stage
Lecture 27 - EIA Process - Impact Prediction
Lecture 28 - EIA Process - Impact Evaluation, Mitigation and Enhancement
Lecture 29 - EIA Process - Participation, Presentation and Review
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Lecture 30 - EIA Process - Follow-Up (Monitoring and Auditing)
Lecture 31 - EIA Methods - Air Assessment - Part I
Lecture 32 - EIA Methods - Air Assessment - Part II
Lecture 33 - EIA Methods - Water Assessment
Lecture 34 - EIA Methods - Soil, Land and Geology
Lecture 35 - EIA Methods - Climate and Climate Change - Part I
Lecture 36 - EIA Methods - Climate and Climate Change - Part II
Lecture 37 - EIA Methods for Ecology (Definitions and Concepts)
Lecture 38 - EIA Methods for Ecology (Baseline Study)
Lecture 39 - EIA Methods for Ecology (Impact Prediction and Evaluation)
Lecture 40 - EIA Methods - Ecosystem Services - Part I
Lecture 41 - EIA Methods - Ecosystem Services - Part II
Lecture 42 - EIA Methods - Coastal Ecology and Geomorphology - Part I
Lecture 43 - EIA Methods - Coastal Ecology and Geomorphology - Part II
Lecture 44 - EIA Methods - Noise
Lecture 45 - EIA Methods - Transport
Lecture 46 - EIA Methods - Landscape and Visuals
Lecture 47 - EIA Methods - Cultural Heritage
Lecture 48 - EIA Methods - Health
Lecture 49 - EIA Methods - Socio-Economic Impacts (SIA) - Part I
Lecture 50 - EIA Methods - Socio-Economic Impacts (SIA) - Part II
Lecture 51 - EIA Methods - Land Acquisition, Resettlement and Livelihoods
Lecture 52 - EIA Methods - Resource Efficiency
Lecture 53 - EIA Methods - Risk and Risk Assessment
Lecture 54 - EIA Methods - Cumulative Effects
Lecture 55 - EIA - Environmental Management Plans
Lecture 56 - EIA - Widening the scope: Strategic Environmental Assessment
Lecture 57 - EIA - Reporting and Review of EIA Quality
Lecture 58 - EIA Case Study - Mumbai Metro Line 3, Colaba - Bandra - SEEPZ
Lecture 59 - EIA Case Study - Development of Water Aerodrome, Andaman and Nicobar - Part - I
Lecture 60 - EIA Case Study - Development of Water Aerodrome, Andaman and Nicobar - Part - II
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NPTEL Video Course - Architecture - NOC: Modern Indian Architecture
Subject Co-ordinator - Prof. P.S. Chani
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction - Part 1
Lecture 2 - Introduction - Part 2
Lecture 3 - Pre-Independence - Part 1: Indo-Saracenic Architecture
Lecture 4 - Pre-Independence - Part 2: Colonial Architecture and Art Deco
Lecture 5 - Pre-Independence to Independence - Part 1
Lecture 6 - Pre-Independence to Independence - Part 2
Lecture 7 - Revivalism
Lecture 8 - The First Generation (1945-1970) - Part 1
Lecture 9 - The First Generation (1945-1970) - Part 2
Lecture 10 - The First Generation (1945-1970) - Part 3
Lecture 11 - The First Generation (1945-1970) - Part 4
Lecture 12 - The First Generation (1945-1970) - Part 5
Lecture 13 - The First Generation (1945-1970) - Part 6
Lecture 14 - Impact of Western Architects: Le Corbusier - Part 1
Lecture 15 - Impact of Western Architects: Le Corbusier - Part 2
Lecture 16 - Impact of Western Architects: Le Corbusier - Part 3
Lecture 17 - Impact of Western Architects: Le Corbusier - Part 4
Lecture 18 - Impact of Western Architects: Le Corbusier - Part 5
Lecture 19 - Impact of Western Architects: Le Corbusier - Part 6
Lecture 20 - Impact of Western Architects: Walter Gropius - Part 1
Lecture 21 - Impact of Western Architects: Walter Gropius - Part 2
Lecture 22 - Impact of Western Architects: Louis I Kahn - Part 1
Lecture 23 - Impact of Western Architects: Louis I Kahn - Part 2
Lecture 24 - Impact of Western Architects: Louis I Kahn - Part 3
Lecture 25 - Impact of Western Architects: Louis I Kahn - Part 4
Lecture 26 - Introduction to Critical Regionalism - Part 1
Lecture 27 - Introduction to Critical Regionalism - Part 2
Lecture 28 - Critical Regionalism in Indian Architecture - Part 1
Lecture 29 - Critical Regionalism in Indian Architecture - Part 2
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Lecture 30 - Critical Regionalism in Indian Architecture - Part 3
Lecture 31 - Critical Regionalism in Indian Architecture - Part 4
Lecture 32 - Critical Regionalism in Indian Architecture - Part 5
Lecture 33 - Structure: The Works of Mahendra Raj
Lecture 34 - Point-Blocks and High Rises - Part 1
Lecture 35 - Point-Blocks and High Rises - Part 2
Lecture 36 - Search for a new Architecture - Part 1
Lecture 37 - Search for a new Architecture - Part 2
Lecture 38 - Search for a new Architecture - Part 3
Lecture 39 - Search for a new Architecture - Part 4
Lecture 40 - Search for a new Architecture - Part 5
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NPTEL Video Course - Architecture - NOC: International Studies in Vernacular Architecture
Subject Co-ordinator - Prof. Ram Sateesh Pasupuleti
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Culture, Identity and Built Environment
Lecture 2 - Space and Meaning in Balinese Vernacular Architecture
Lecture 3 - Adobe Construction and Religious Structures
Lecture 4 - Social System, Beliefs and its Architecture
Lecture 5 - Anthropology of Shelter-Conclusion
Lecture 6 - Stone as a Vernacular Resource Material
Lecture 7 - Earth as Vernacular Resource Material
Lecture 8 - Bamboo as Vernacular Resource Material
Lecture 9 - Timber as Vernacular Resource Material
Lecture 10 - Advanced Material Adaptations: The conclusion
Lecture 11 - Cultural Geography and Vernacular Architecture
Lecture 12 - Cultural Geography and Small-scale Features in the Landscape
Lecture 13 - Acculturation in Architecture
Lecture 14 - Tradition and Transmission
Lecture 15 - Transformation in Vernacular Context
Lecture 16 - Disasters Vulnerability and Traditions
Lecture 17 - Learning Disaster Mitigation from the Vernacular
Lecture 18 - The Second Birth: Lessons from Disaster Recovery
Lecture 19 - Climate Change and Traditions
Lecture 20 - Yonmenkaigi (Four square table system) Method for Collaborative Knowledge Development
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NPTEL Video Course - Architecture - NOC: Introduction to Interaction Design
Subject Co-ordinator - Dr. Sonal Atreya
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable
                                         MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction to Interaction Design
Lecture 2 - Components of Interaction Design
Lecture 3 - Interaction Design Process
Lecture 4 - Understanding User
Lecture 5 - Conceptual Design - Part 1
Lecture 6 - Conceptual Design - Part 2
Lecture 7 - Role of Cognition
Lecture 8 - Role of Social Interaction
Lecture 9 - Designing for Emotional Interaction
Lecture 10 - Interactive Interfaces
Lecture 11 - Data Gathering
Lecture 12 - Data Analysis
Lecture 13 - Discovering Requirements
Lecture 14 - User Personas and Scenarios
Lecture 15 - Design and Prototyping - Part 1
Lecture 16 - Design and Prototyping - Part 2
Lecture 17 - Visual Interface Design
Lecture 18 - Elements of User Interface
Lecture 19 - Affordances and UI Transformations
Lecture 20 - Component-Based Design Systems
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NPTEL Video Course - Architecture - NOC: Understanding and Reducing Ghg Emissions - Focus on Scope 1 and 2 Emissions
Subject Co-ordinator - Prof. Avlokita Agrawal
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction, Sustainability, And Sustainable Development
Lecture 2 - Sustainable Development And Sustainable Goals
Lecture 3 - Sustainable Development Goals and Climate Change
Lecture 4 - Climate Risk
Lecture 5 - Impact of Development on Climate Natural Components
Lecture 6 - UNFCCC
Lecture 7 - Kyoto Protocol
Lecture 8 - The Paris Agreement
Lecture 9 - Green House Gases
Lecture 10 - Carbon Footprint and Calculation
Lecture 11 - The GHG Protocol
Lecture 12 - ISO International Standards
Lecture 13 - Identification and Determination of Scope 1,2 and 3 GHG Emissions
Lecture 14 - Identification and Determination of Scope 1,2 and 3 GHG Emissions - Part II
Lecture 15 - Identification and Determination of Scope 1,2 and 3 GHG Emissions - Part III
Lecture 16 - India Specific GHG Programs - I
Lecture 17 - India Specific GHG Programs - II
Lecture 18 - Accounting Methods and Data Collection
Lecture 19 - Tools for Calculation of GHG
Lecture 20 - Understanding the Role of Buildings and Related Emissions
Lecture 21 - Understanding Emissions of Airports
Lecture 22 - Understanding Emissions of University Campuses
Lecture 23 - Understanding Emissions of Fuel Supply Companies
Lecture 24 - Understanding Emissions of IT Companies
Lecture 25 - Understanding Emissions of Real Estate Companies
Lecture 26 - Thermal Comfort in Building
Lecture 27 - Passive Design Measures
Lecture 28 - Advanced Passive Design Measures
Lecture 29 - Natural and Mechanical Ventilation
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Lecture 30 - Daylighting and Lighting Design

Lecture 31 - Factors Affecting Material Selection in Building?

Lecture 32 - Material Selection for Emission Reduction

Lecture 33 - Reducing Emission from purchased Electricity

Lecture 34 - Strategies of Renovation and Retrofitting for Emission Reduction

Lecture 35 - Case studies of Various Efficient Building Design

Lecture 36 - Calculation of Emissions Reduction from HVAC System

Lecture 37 - Calculation of Emission Reduction from Fenestration

Lecture 38 - Calculation of Emission Reduction from Building Envelope

Lecture 39 - Calculation of Emission Reduction from Source of Energy

Lecture 40 - Course Summary
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NPTEL Video Course - Architecture - NOC: Research Methodology for Planning and Architectural Studies
Subject Co-ordinator - Prof. Shubhajit Sadhukhan
Co-ordinating Institute - IIT - Roorkee
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction
Lecture 2 - Types of Research
Lecture 3 - Qualitative vs. Quantitative Research
Lecture 4 - Research Methods vs Research Methodology
Lecture 5 - Issues and Challenges in Planning and Architectural Research
Lecture 6 - Research Process - I
Lecture 7 - Research Process - II
Lecture 8 - Research Process - III
Lecture 9 - Research Writing - I
Lecture 10 - Research Writing - II
Lecture 11 - Basics of Literature Review
Lecture 12 - Bibliometric Analysis
Lecture 13 - Systematic Literature Review
Lecture 14 - Meta Analysis
Lecture 15 - Referencing
Lecture 16 - Types of Data in Research
Lecture 17 - Measurement and Scaling Techniques - I
Lecture 18 - Measurement and Scaling Techniques - II
Lecture 19 - Types of Surveys - I
Lecture 20 - Types of Surveys - II
Lecture 21 - Determining the Sample Size
Lecture 22 - Sampling Techniques - I
Lecture 23 - Sampling Techniques - II
Lecture 24 - Sources of Data
Lecture 25 - Preparation of Survey Questionnaire
Lecture 26 - Methods of Data Collection - I
Lecture 27 - Methods of Data Collection - II
Lecture 28 - Methods of Data Collection - III
Lecture 29 - Ethics in Data Management and Use
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Lecture 30 - Similarity vs. Plagiarism
Lecture 31 - Processing of Data and Database Management
Lecture 32 - Interpreting Data
Lecture 33 - Descriptive Statistics
Lecture 34 - Representation of Data and Inferences - I
Lecture 35 - Representation of Data and Inferences - II
Lecture 36 - Hypothesis Testing
Lecture 37 - Parametric Tests
Lecture 38 - Non-parametric Tests
Lecture 39 - Quantitative Research Approach
Lecture 40 - Quantitative Research - Case Study - I
Lecture 41 - Quantitative Research - Case Study - II
Lecture 42 - Quantitative Research - Case Study - III
Lecture 43 - Quantitative Research - Case Study - IV
Lecture 44 - Quantitative Research - Case Study - V
Lecture 45 - Qualitative Research Approach
Lecture 46 - Qualitative Research - Case Study - I
Lecture 47 - Qualitative Research - Case Study - II
Lecture 48 - Qualitative Research - Case Study - III
Lecture 49 - Qualitative Research - Case Study - IV
Lecture 50 - Qualitative Research - Case Study - V
Lecture 51 - Mixed Method Research Approach
Lecture 52 - Mixed Method Research Approach - Case Study
Lecture 53 - Spatial Methods in Planning Research
Lecture 54 - Spatial Methods in Planning Research - Case Study
Lecture 55 - Research Methods for Behavioral Studies - The Basics
Lecture 56 - Simulation Based Studies in Planning and Architecture
Lecture 57 - Handling Big Data Research - The Basics
Lecture 58 - Role of AI in Architecture and Planning Studies - The Basics
Lecture 59 - Programming Language and Software for Research in Planning and Architecture
Lecture 60 - Emerging Research Potential in Planning and Architecture
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