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[Lecture 46 - Daylighting - Case studies 1](#)

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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 - Bioluminescent 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

Lecture 30 - Carbon Sequestration

Lecture 31 - Ecobind Tiles

[Lecture 32 - Permeable Concrete](#)

[Lecture 33 - Introduction to smart materials](#)

[Lecture 34 - Types of Smart Materials](#)

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[Lecture 37 - Photochromics](#)

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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

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Lecture 18 - Development Controls

Lecture 19 - Housing Infrastructure and Services-1: Transport and Roads

Lecture 20 - Housing Infrastructure and Services-2: Drainage, Sanitation, Electricity and SWM

Lecture 21 - Housing Infrastructure and Services-3: Social Infrastructure and Facilities

Lecture 22 - Housing Strategy for City-1: An overview

Lecture 23 - Housing Strategy for City-2: Dealing with Core City Housing

Lecture 24 - Housing Strategy for City-3: Dealing with New Housing Areas

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

Lecture 30 - Working Person's hostel and Serviced Apartments

Lecture 31 - Informal Housing Typologies

[Lecture 32 - Approaches in Improving Slums and Squatters](#)

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[Lecture 34 - Pavement Dwellers and Night Shelters](#)

[Lecture 35 - Old Age Home](#)

[Lecture 36 - Disaster Resistant Housing](#)

[Lecture 37 - Housing and Real Estate Development](#)

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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

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: Design for 'ALL' Perspective

Lecture 11 - Power in Built Form

Lecture 12 - Spatial Analysis: Know-how power mediates in Built Form

Lecture 13 - The Forbidden Space

Lecture 14 - Religious Architecture: A Continuum of Meaning

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: Reassembled

Lecture 19 - Understanding the Cultural Context in Disasters and Development

Lecture 20 - Culture, Climate Change Adaptation And Disaster Risk Reduction

Lecture 21 - Conservation: Introduction

Lecture 22 - Conservation: Principles

Lecture 23 - Learning from Vernacular: Conservation Practices and Challenges

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?

Lecture 30 - How To/Not To Relocate Slums?

Lecture 31 - Stone- as a Vernacular Building material

[Lecture 32 - Timber as Vernacular Building material](#)

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[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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Lecture 2 - World Architecture and Design History

Lecture 3 - Industrial Revolution and Beginning of Modern Era

Lecture 4 - Post Industrial Revolution: For the Machine Movement

Lecture 5 - Post Industrial Revolution: Against the Machine Movement - Art and Craft Movement and Art Nouveau - Part 1

Lecture 6 - Post Industrial Revolution: Against the Machine Movement - Art and Craft Movement and Art Nouveau - Part 2

Lecture 7 - Post Industrial Revolution: Against the Machine Movement - Art and Craft Movement and Art Nouveau - Part 3

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

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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

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](#)

Lecture 1 - Interior-Architecture: Definition and Understanding

Lecture 2 - Craft: Definition and Understanding (Varied Perspectives on Art and Craft)

Lecture 3 - Interior-Architecture and Craft and Technology: Establishing Inter-Relationships

Lecture 4 - Interior-Architecture and Craft and Technology: Exploring Applications

Lecture 5 - Summary and Discourse - I

Lecture 6 - Interior-Architecture: Documenting Knowledge and Skills

Lecture 7 - Traditional Knowledge Systems and the Ingenious skills of the communities

Lecture 8 - Interior-Architecture: Documenting Materials; Tools and Techniques

Lecture 9 - Traditional Knowledge Systems and the Indigenous materials; tools and techniques

Lecture 10 - Summary and Discourse - II

Lecture 11 - Creative and Cultural Industries: Understanding Definition; Significance and Scope

Lecture 12 - Building Crafts: Definitions; Perspectives and Frameworks

Lecture 13 - Building Crafts: Craft and Technology and its Role in Creating/Enhancing Interior-Architecture

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: Decoding Systems

Lecture 22 - Craft and Technology in Interior Architecture; Decoding Systems

Lecture 23 - Craft and Technology in Interior Architecture: Transformation through Time

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: Issues and Challenges

Lecture 28 - Craft Sector: Policies and Reforms

Lecture 29 - Craft Sector: Gaps

Lecture 30 - Summary and Discourse - VI

Lecture 31 - Continuity and Revival: Research and Documentation Perspective

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[Lecture 32 - Continuity and Revival: Education and Training Perspective](#)

[Lecture 33 - Continuity and Revival: Innovation and Development Perspective](#)

[Lecture 34 - Continuity and Revival: Resource Building and Dissemination Perspective](#)

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[Lecture 36 - Interventions: Process Based](#)

[Lecture 37 - Interventions: Product / Design Based](#)

[Lecture 38 - Interventions: Technology Based](#)

[Lecture 39 - Interventions: Marketing / Management Based](#)

[Lecture 40 - Summary and Discourse - VIII](#)

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

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: Concept and Mission
- 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

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

NPTEL : NOC:Disaster Recovery and Build Back Better (Architecture)

Co-ordinators : Prof. Subhojyothi Samaddar

Lecture 1 - Disaster risk: Hazards X Exposure X Vulnerability

Lecture 2 - Disaster Recovery and Build Back Better: Risk Perception and Disaster Risk Preparedness - Part 1

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: Reassembled

Lecture 10 - Rock shelters at risk

Lecture 11 - The Built Environment Professions in Disaster Risk Reduction and Response

Lecture 12 - Gadri discussions: social dimension of risk, health and DRM

Lecture 13 - Community Participation in Disaster Risk Governance : Voices from Mumbai and Ghana

Lecture 14 - Community Participation in Disaster Risk Governance : Insights From Mumbai

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 : What Pioneers Contribute ?

Lecture 20 - Cities and Climate Change: Adaptation and Mitigation

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

Lecture 30 - Cultural theory of risk

Lecture 31 - Guidance to DRR

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[Lecture 32 - Self-help housing in Turkey](#)

[Lecture 33 - The Production of refugee place in time: Case of Tibetan refugees](#)

[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](#)

- 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: Impacts on Water
- Lecture 7 - Environmental Impacts of Development: Impacts on Land and Air
- 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
- Lecture 30 - Water Conservation - V
- Lecture 31 - Materials and Resources - I

Lecture 32 - Materials and Resources - II

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Lecture 34 - Materials and Resources - IV

Lecture 35 - Materials and Resources - V

Lecture 36 - Energy Efficiency - I

Lecture 37 - Energy Efficiency - II

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Lecture 46 - Vernacular Architecture - I

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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

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

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](#)

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[Lecture 39 - Mega Structure and Architecture-Case Studies](#)

[Lecture 40 - Architecture and Structure - Past, Present and Future](#)

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 Involute

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

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](#)

- 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
- 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](#)

- 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

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 Geomorphology

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 Health

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

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](#)

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[Lecture 37 - EIA Methods for Ecology \(Definitions and Concepts\)](#)

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[Lecture 39 - EIA Methods for Ecology \(Impact Prediction and Evaluation\)](#)

[Lecture 40 - EIA Methods - Ecosystem Services - Part I](#)

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[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](#)

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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 34 - Point-Blocks and High Rises - Part 1](#)

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[Lecture 37 - Search for a new Architecture - Part 2](#)

[Lecture 38 - Search for a new Architecture - Part 3](#)

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[Lecture 40 - Search for a new Architecture - Part 5](#)

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

NPTEL : NOC:Introduction to Interaction Design (Architecture)

Co-ordinators : Dr. Sonal Atreya

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

NPTEL : NOC:Understanding and Reducing Ghg Emissions - Focus on Scope 1 and 2 Emission Reduction through Building Design and Construction (Architecture)

Co-ordinators : Prof. Avlokita Agrawal

- 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
- Lecture 30 - Daylighting and Lighting Design

DIGIMAT - The No.1 Learning Management Platform for Creative Learning

[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](#)

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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

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](#)

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