

Lesson Plan

Discipline: Architectural Assistantship Branch		Semester: 3RD , Name of Faculty : IPSITA DASH
Subject: HISTORY OF ARCHITECTURE	No. of days per week Class allotted: 3	Semester From Date: 14-07-2025 To date : 15-11-2025
Week	Class Day	Theory
1st	1st	European Architecture: Architectural characteristics and details of features.
	2nd	Sketch of Mastaba, Great Pyramid of Giza, Temple of Khons at Karnak, The Great Sphinx of Chepheren
	3rd	
2nd	1st	Greek Architecture
	2nd	
	3rd	Architectural characteristics and details of features
3rd	1st	Sketch of Greek classical orders of Doric, Ionic, and Corinthian. Temple of Parthenon at Athens.
	2nd	
	3rd	
4th	1st	Roman Architecture
	2nd	
	3rd	Architectural characteristics and details of features
5th	1st	Sketch of Roman orders: Doric, Ionic, Corinthian, Composite, Tuscan order. Temple of Saturn at Rome
	2nd	
	3rd	
6th	1st	Indian Architecture: Buddhist Architecture
	2nd	Architectural characteristics and detail features
	3rd	
7th	1st	Sketch of the Great Stupa of Sanchi, Chaitya Hall and Vihara
	2nd	
	3rd	Temple Architecture (Indo Aryan Style)
	1st	

8th	2nd	Architectural characteristics and detail features of Odishan Temple
	3rd	
9th	1st	Sketch of the Sun Temple at Konark, the Lingaraj Temple at Bhubaneswar
	2nd	
	3rd	Muslim Architecture
10th	1st	Architectural characteristics and detail features
	2nd	Sketch of Juma Masjid, Tajmahal and the Qutab Minar
	3rd	
11th	1st	Contemporary Architecture: Contemporary structures: Eiffel Tower, Bahai Temple and Burz -al- Khalifa
	2nd	
	3rd	
12th	1st	
	2nd	
	3rd	
13th	1st	
	2nd	
	3rd	
14th	1st	
	2nd	
	3rd	
15th	1st	Works of famous architects: Frank Lloyd Wright, Le Corbusier, B.V.Doshi and Charles Correa
	2nd	
	3rd	

BOOK REFERENCE:

1	History of world architecture, Sir Banister Fleture, Oxford.
2	Indian History of architecture, Percy Brown, Kiran Book Agency
3	History of world architecture, G. K. Hiraskar, Dhanpat Rai & Co

<u>Lesson Plan</u>		
Discipline: Architectural		Semester: 3RD , Name of Faculty : IPSITA DASH
Subject: BASIC OF	No. of days per	Semester From Date: 14-07-2025 To date : 15-11-2025
Week	Class Day	Theory
1st	1st	Introduction: Origin of Vastu Shastra , Terminology in Vastu Shastra, History of Vastu Shastra Different literature on Vastu
	2nd	
	3rd	
2nd	1st	
	2nd	
	3rd	
3rd	1st	
	2nd	
	3rd	
4th	1st	
	2nd	
	3rd	
5th	1st	Mandala types and properties in Vastue, Modern adaptation and usage of Vastu sastra Superstition and controversy on vastu sastra, Different treatises on Vastu sastra, Feng shui ,Dowsing,
	2nd	
	3rd	
6th	1st	
	2nd	
	3rd	
7th	1st	
	2nd	
	3rd	
8th	1st	
	2nd	
	3rd	
9th	1st	
	2nd	
	3rd	
	1st	

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1st	1st	Introduction: Origin of Vastu Shastra , Terminology in Vastu Shastra, History of Vastu Shastra	
	2nd		
	3rd		
2nd	1st		
	2nd		
	3rd		
3rd	1st		
	2nd		
	3rd		
4th	1st	Different literature on Vastu	
	2nd		
	3rd		
5th	1st	Mandala types and properties in Vastue, Modern adaptation and usage of Vastu sastra	
	2nd		
	3rd		
6th	1st		
	2nd		
	3rd		
7th	1st		
	2nd		
	3rd		
8th	1st		
	2nd		
	3rd		
9th	1st		Superstition and controversy on vastu sastra, Different treatises on Vastu sastra, Feng shui ,Dowsing,
	2nd		
			3rd
	1st		

10th	2nd	Scientific reason behind Vastu Sastra, Basic rules of Vastu Shastra, Five elements of Vastu
	3rd	
11th	1st	
	2nd	
	3rd	
12th	1st	
	2nd	
	3rd	
13th	1st	
	2nd	
	3rd	
14th	1st	
	2nd	
	3rd	
15th	1st	Drawing as per Vastu
	2nd	
	3rd	

BOOK REFERENCE:

1	Vastu Science for 21St Century, Prof B B puri
2	The Ancient Science of Vastu
3	The Ancient Science of Vastu - IV b, Dr. Jayshree Om and Siddharth Borad

Lesson Plan

Discipline: Architectural		Semester: 3RD , Name of Faculty :IPSITA DASH
Subject:GRAPHIC DESIGN	No. of days per week Class allotted: 4	Semester From Date: 14-07-2025 To date : 15-11-2025
Week	Class Day	Theory
1st	1st	1.0 Freehand drawing study: 1.1 Basic Architectural Graphics. 1.1.1 Line 1.1.2 Plane 1.1.3 Texture 1.1.4 Tone 1.1.5 Colour 1.2 Geometrical forms: 1.2.1 Geometrical solid composition 1.2.2 Abstract three dimensional composition
	2nd	
	3rd	
	4th	
2nd	1st	
	2nd	
	3rd	
	4th	
3rd	1st	
	2nd	
	3rd	
	4rd	
4th	1st	
	2nd	
	3rd	
	4th	
5th	1st	
	2nd	
	3rd	
	4th	
6th	1st	
	2nd	
	3rd	
	4th	

7th	1st	1.3 Anthropometrics and furniture sketches: 1.3.1 Human dimensions and proportions 1.3.2 Residential furniture drawing with dimensions as per anthropometric 1.4 Parts of building: 1.4.1 Sketches of door and window openings, columns, parapet, boundary wall of residential building. 1.4.2 Entrance door of restaurant and office 1.4.3 Entrance gate 2.0 Scaled drawing: 1.5 Measured drawing of simple objects drawn in appropriate scale. (Furniture, watchman cabin, garden shelter etc.)
	2nd	
	3rd	
	4th	
8th	1st	
	2nd	
	3rd	
	4th	
9th	1st	
	2nd	
	3rd	
	4th	
10th	1st	
	2nd	
	3rd	
	4th	
11th	1st	
	2nd	
	3rd	
	4th	
12th	1st	
	2nd	
	3rd	
	4th	
13th	1st	
	2nd	
	3rd	
	4th	
14th	1st	
	2nd	
	3rd	
	4th	
	1st	

15th	2nd
	3rd
	4th

BOOK REFERNCE:

1	Architecture : Form, Space, and Order ,Francis D.K. Ching, Wiley
2	Graphic Design for Architects: A manual for visual communication, Leland M. Roth, Routledge
3	Element of Graphic Design, Alex W White, Allworth

Lesson Plan

Discipline: Architectural Assistantship Branch		Semester: 5TH , Name of Faculty : IPSITA DASH & GUEST FACULTY-1
Subject: PROFESSIONAL PRACTICE	No. of days per week Class allotted: 4	Semester From Date: 14-07-2025 To date : 15-11-2025
Week	Class Day	Theory
1st	1st	Contracts: Types of contracts: lump-sum contract, labour contract, item rate contract, Negotiable contract and plinth area rate contract.
	2nd	
	3rd	
	4th	
2nd	1st	The contract document, administrative approval, Technical sanction, contingency budget, tender earning money, security deposit, Advance payment, Intermediate payment, on account payment, final payment, running bill and final bill.
	2nd	
	3rd	
	4th	
3rd	1st	The drafting notice inviting tender, preparing quotation, and tender documents comparative statement, and procedure and allotting contracts term and form of agreement, termination of contract, penalty for damage.
	2nd	
	3rd	
	4th	
4th	1st	Contract work Classification of work-original, major, minor, petty, annual quadrennial, and special, repair method of execution, setting out of works, work order and related paper, work organization of work preparation a general program, forecast of requirements, in terms of information, plant, transport, labor and materials
	2nd	
	3rd	
	4th	
5th	1st	Supervision: Duties and responsibility of Jr. Engineers.
	2nd	The architect's role in a construction project.
	3rd	The duties and responsibility of Architect and Architects' instructions.
	4th	
6th	1st	Certificate of virtual completion of work.
	2nd	Measurement book and methods of making entries and checking

6th	3rd	Measurement book and methods of making entries and checking.
	4th	Maintaining material inventory at the site.
7th	1st	
	2nd	Recording and checking common irregularities.
	3rd	
	4th	Heads of Accounts.
8th	1st	Survey report, Estimate of expenditure in disposal of surplus unusable materials.
	2nd	
	3rd	Valuation: Meaning of valuation
	4th	
9th	1st	Purpose of valuation.
	2nd	
	3rd	
	4th	
10th	1st	Different terms related to valuation: Gross increase and Net increase, Repairs, taxes, sinking fund, scrap value,
	2nd	
	3rd	
	4th	Depreciation and valuation of building
11th	1st	
	2nd	
	3rd	
	4th	Rent fixation for building.
12th	1st	
	2nd	
	3rd	
	4th	
13th	1st	Building Byelaws: Application of prevailing building byelaws for residential and commercial buildings as per the provision of Local Development Authority.
	2nd	
	3rd	
	4th	
14th	1st	
	2nd	
	3rd	

15th	4th	NB: Students have to work out a sample valuation of a small building under the guidance of the teacher.
	1st	
	2nd	
	3rd	
	4th	

BOOK REFERENCE:

1	Professional Practice : With Elements of Estimating, Valuation, Contract and Arbitration
2	Professional Practice
3	Estimation and Costing in Civil Engineering

Lesson Plan

Discipline: Architectural		Semester: 5TH , Name of Faculty : IPSITA DASH
Subject: HUMAN SETTLEMENT PLANNING	No. of days per week Class allotted: 4	Semester From Date: 14-07-2025 To date : 15-11-2025
Week	Class Day	Theory
1st	1st	Introduction to Urban and Rural Planning
	2nd	Scopes and Objectives of Urban and Rural Planning
	3rd	
	4th	
2nd	1st	Physical Characteristics
	2nd	
	3rd	
	4th	Urban and Rural Inter relationship
3rd	1st	
	2nd	
	3rd	City Master Plan
	4th	State and explain the Master Plan
4th	1st	
	2nd	
	3rd	
	4th	Need of a Comprehensive Development Plan
5th	1st	
	2nd	
	3rd	
	4th	Objective, Process and Method of developing City Master Plan
6th	1st	
	2nd	
	3rd	
	4th	

Purpose of surveying

7th	1st	Purpose of surveying
	2nd	
	3rd	
	4th	
8th	1st	Surveying methods
	2nd	
	3rd	
	4th	
9th	1st	Zoning: Introduction
	2nd	
	3rd	
	4th	
10th	1st	Zoning regulation
	2nd	
	3rd	
	4th	
11th	1st	Housing: Housing and Neighborhood units
	2nd	
	3rd	
	4th	
12th	1st	Commercial centers
	2nd	
	3rd	
	4th	
13th	1st	
	2nd	
	3rd	
	4th	
14th	1st	Traffic and transport system in towns and cities
	2nd	
	3rd	
	4th	
	1st	

15th	2nd	Appraisal of Master Plan of Bhubaneswar
	3rd	
	4th	

BOOK REFERNCE:

1	Town Planning
2	Urban Pattern City Planning And Design

Lesson Plan

Discipline: Architectural		Semester: 5TH , Name of Faculty : IPSITA DASH
Subject: ARCHITECTURAL DESIGN	No. of days per week Class allotted: 4	Semester From Date: 14-07-2025 To date : 15-11-2025
Week	Class Day	Theory
1st	1st	
	2nd	
	3rd	
	4th	
	5th	
2nd	1st	
	2nd	
	3rd	
	4th	
	5th	
3rd	1st	
	2nd	
	3rd	
	4th	
	5th	
4th	1st	
	2nd	
	3rd	
	4th	
	5th	
5th	1st	
	2nd	
	3rd	
	4th	

	5th
6th	1st
	2nd
	3rd
	4th
	5th
7th	1st
	2nd
	3rd
	4th
	5th
8th	1st
	2nd
	3rd
	4th
	5th
9th	1st
	2nd
	3rd
	4th
	5th
10th	1st
	2nd
	3rd
	4th
	5th
11th	1st
	2nd
	3rd
	4th
	5th
	1st
	2nd

Design of a multi-storied building: Secondary school, students' hostel, tourist home, Kalyan Mandap, Office complex, commercial complex, hotel, apartment
(Any one of the above).

1.1 Background self- study- anthropometrics, activity analysis, bubble diagram, functional requirement, area analysis.

1.2 Case Study of any related building

1.3 Site analysis

1.4 Single line conceptual drawing.

1.5 Double line plan and elevations (preliminary drawings).

1.6 Presentation drawings.

☐ Site Plan

☐ Ground Floor Plan

☐ Other floor plans

☐ Two Elevations

☐ Two Sections

☐ Detail plan showing interior arrangement

☐ Terrace Plan

☐ Perspective view

Drawings have to be prepared manually and digitally.
AutoCAD /3D VIEWS (for preparing perspective view)

12th	3rd
	4th
	5th
13th	1st
	2nd
	3rd
	4th
	5th
14th	1st
	2nd
	3rd
	4th
	5th
15th	1st
	2nd
	3rd
	4th
	5th

BOOK REFERENCE:

1	National Building Code - 2016
2	Time Saver Standard for Building Types
3	Architects' Data