

**Department of Architecture**  
**Dr BR Ambedkar Govt. Polytechnic Ambota**  
**Distt. – Una (H.P.) - 177205**

**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	ARCHITECTURE DESIGN-IV
Subject Code	ARPC – 4001
Semester	4th
Subject Teacher Name	Bandna Dixit

**Evaluation Scheme**

Teaching Schedule		Marks of Sessional work	Marks of Examination		Total marks	credits	Duration of Examination h)
L	P		Theory/Dwg	Pra.			
1	6	40+40	60	60	200	4	3
Books recommended		Chiara, J. D. (1984) Time Saver Standard, Neufert, E. (2000) Neufert – Architect's Data, Crosby Lockwood and Sons,					

**Course Outcomes (COs)**

CO – 1	students would be familiarized with vernacular terminology.
CO – 2	The emphasis will be construction details as applicable to Indian climatic conditions.
CO – 3	The design problem would induce students to experiment with built and open spaces.

**TEACHING PLAN**

	NAME OF TOPIC	PROPOSED DATE	ACTUAL DATE	REMARKS
UNIT-I Appreciation of traditional settlement pattern and building typology through villages./Exercises related to understanding social structure and its manifestation spatial organization and manifestation Public and private spaces, family and community.	discussion of the subject topics	12/02/24		
	Lecture on traditional construction	12/02/24		
	building typology and Social structure	15/02/24		
	family and community spaces,	16/02/24		
	Study of public and private spaces	19/02/24		
	Case study visit(report writing)	19/02/24		
	Case study visit(report writing)	22/02/24		
	Case study visit (submission )	23/02/24		
	vernacular terminology	26/02/24		
	vernacular terminology	26/02/24		

	NAME OF TOPIC	PROPOSED DATE	ACTUAL DATE	REMARKS
<b>UNIT-II</b> <b>Public spaces:</b> Aganwadi, Kisan kendra, senior secondary school, community centre, Kalyan kendra, Art and Cultural Centre etc. An architectural design focused on a specific theme, for example, a material based thing such as, building only in mud/stone/timber etc. or a style based theme, for example, based on a period style, or a vernacular style, ecology - energy conservation theme, etc.	vernacular terminology	29/02/24		
	Concept of various types of public buildings	4/03/24		
	Concept of various types of public buildings	4/03/24		
	Initiating the project	7/03/24		
	<b>HOLIDAY</b>	8 /03/24		MAHASHIVRATRI
	Library study Preparation	11/03/24		
	Library study Preparation (report writing)	11/03/24		
	Library study Presentation (submission)	14/03/24		
	Case study (visit and data collection)	15/03/24		
	Case study report writing	18/03/24		Proposed C.T.-I
	Case study report writing	18/03/24		
	Case study presentation (submission)	21/03/24		
	Design work (site analysis)	22/03/24		
	<b>HOLIDAY</b>	25/03/24		HOLI
	Design work (site analysis)	28/03/24		
	<b>HOLIDAY</b>	29/03/24		GOOD FRIDAY
	Conceptual design work	1/04/24		
	Conceptual design work	1/04/24		
	Design work –single line drawing	4/04/24		
	Design work –single line drawing	5/04/24		
	Design work –single line drawing	8/04/24		
	Design work –single line drawing	8/04/24		
	<b>HOLIDAY</b>	11/04/24		ID-UL-FITER
	Design Work (presentation Drawings)	12/04/24		

	NAME OF TOPIC	PROPOSED DATE	ACTUAL DATE	REMARKS
<b>UNIT-II</b>  <b>Public spaces:</b> Aganwadi, Kisan kendra, senior secondary school, community centre, Kalyan kendra, Art and Cultural Centre etc. An architectural design focused on a specific theme, for example, a material based thing such as, building only in mud/stone/timber etc. or a style based theme, for example, based on a period style, or a vernacular style, ecology - energy conservation theme, etc.	<b>HOLIDAY</b>	15/04/24		HIMACHAL DAY
	Design Work (presentation Drawings)	18/04/24		
	Design Work (presentation Drawings)	19/04/24		
	Design Work (presentation Drawings)	22/04/24		Proposed C.T.-II
	Design Work (presentation Drawings)	22/04/24		
	Design Work (presentation Drawings)	25/04/24		
	Design Work (presentation Drawings)	26/04/24		
	Design Work (presentation Drawings)	29/04/24		
	Design Work (presentation Drawings)	29/04/24		
	Design Work (presentation Drawings)	2/05/24		
	Design Work (presentation Drawings)	3/05/24		
	Pre Final Submission--II	6/05/24		Pre Final Submission--II
	Design Work (presentation Drawings)	6/05/24		
	Design Work (presentation Drawings)	9/05/24		
	<b>HOLIDAY</b>	10/05/24		PAR.JAYANTI
	Design Work (presentation Drawings)	13/05/24		Proposed House Test
	Design Work (presentation Drawings)	13/05/24		
	Design Work (presentation Drawings)	16/05/24		
	Design Work (presentation Drawings)	17/05/24		
<b>UNIT-III</b>  <b>Time Problem : Bank, General Post Office, etc</b>	Final Submission—III	20/05/24		Final Submission-III
	Model Submission	20/05/24		Model Submission
	<b>HOLIDAY</b>	23/05/24		BUDH PURNIMA
	Time problem	24/05/24		


	NAME OF TOPIC	PROPOSED DATE	ACTUAL DATE	REMARKS
	Time problem	27/05/24		
	Time problem	27/05/24		
	Time problem (submission)	30/05/24		
	Time problem (submission)	31/05/24		submission)

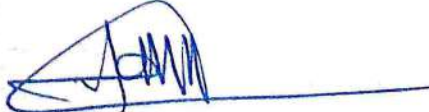
#### ASSIGNMENTS :

Assignment No.	Content of syllabus covered	Proposed Date	Actual Date	Remarks
No.1	<b>UNIT-I</b>	23/02/24		
No.2	<b>UNIT-II</b>	14/03/24		
No.3		21/03/24		
No.4		11/04/24		
No.5		06/05/24		
No.6		16/05/24		
No.7		17/05/24		
No.8	<b>UNIT-III</b>	30/05/24		

#### CLASS TEST/HOUSE TEST:

TEST	Syllabus	Proposed Date	Actual Date	Remarks
Class Test-I	UNIT-I	As per HPTSB Academic Schedule		
Class Test-II	UNIT-II			
House Test	UNIT-I&UNIT-II			

  
SUBJECT TEACHER

  
H.O.A

**Department of Architecture**  
**Dr BR Ambedkar Govt. Polytechnic Ambota**  
**Distt. – Una (H.P.) - 177205**

**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	Building Material & Construction-III
Subject Code	ARBSAE-4002
Semester	4th
Subject Teacher Name	Vipin Kumar

**Evaluation Scheme**

S r . N o	Subject Name	Study scheme (Hrs./Week)			Marks in Evaluation Scheme					
					Internal Assessment			External Assessment		
		Th	Pr	Dcs	Th	Pr	Total	Th	Pr	Total
1	Structure Design-III	1	4	2	40	40	80	60	60	120
Reference Books		1	McKay, W. B. (1972) Building Construction (Metric), Longman, London,							
		2	Building Construction by Sushil Kumar							
		3	Engineering Materials by IPH Publications							
		4	Civil Engineering Drawing by V.B. Sikka							

**Course Outcomes (COs)**

CO – 1	Students shall understand various components, application of RCC in context of staircase, flooring, DPC.
CO – 2	Students will learn various construction details related to structural steel.
CO - 3	Students will be familiarized with the various market rates of finishing materials and their application in building construction.

**Teaching Plan**

UNIT-I	Name of Topic	Proposed Date	Actual Date	Remarks
RCC (Reinforced Cement Concrete)	Simple masonry foundation, Spread Footing Foundation (Drawing Work)	13/02/24		
	Introduction to RCC, properties of ingredients, types of concrete, different grades of concrete Principles of foundation design, bearing capacity of soil (Theory)	13/02/24(Th)		
	Doubt Clearing Session (DCS)	14/02/24		
	Simple masonry foundation, Spread Footing Foundation (Drawing Work)	17/02/24		
		20/02/24		
	Types of PAD and Raft foundation	20/02/24 (Th.)		
	Doubt Clearing Session (DCS)	21/02/24		
	RCC footings and shallow foundations (Drawing Work)	27/02/24		
		27/02/24 (Th)		
	Doubt Clearing Session (DCS)	28/02/24		

	RCC footings and shallow foundations (Drawing Work)	02/03/24		
	Introduction to DPC	05/03/24(Th)		
	Horizontal and Vertical DPC in basement and walls (Drawing Work)	05/03/24		
	Doubt Clearing Session (DCS)	06/03/24		
	Horizontal and Vertical DPC in basement and walls (Drawing Work)	12/03/24		
<b>UNIT-II RCC stairs</b>	Introduction to Stairs its types	12/03/24(Th)		
	Doubt Clearing Session (DCS)	13/03/24		
	Introduction to Stairs its types and construction details of RCC cast-in situ stairs, fixing of handrails etc(Drawing Work)	16/03/24		
		19/03/24		
	Staircase in multistorey Building	19/03/24(Th)		
	Doubt Clearing Session(DCS)	20/03/24		
	Detailed section of staircase through a multistory RCC frame structure.(Drawing Work)	23/03/24		Class test 1 Schedule
		26/03/24		
	Flooring and its types	26/03/24(Th)		
	Doubt Clearing Session (DCS)	27/03/24		
	Various types of flooring (brick, IPC, terrazzo, stone, wood, others). (Drawing Work)	30/03/24		
		02/04/24		
		2/04/24(Th.)		
	Market survey of various finishing materials. (DCS)	03/04/24		
	Report and Presentation on Market Survey	06/04/24		
<b>UNIT-III Steel Joinery (Doors&amp;Windows)</b>	Introduction to steel doors and windows	09/04/24(Th)		
	Types of industrialized doors and windows, sliding, revolving) Drawing Work)	09/04/24		
	Doubt Clearing Session (DCS)	10/04/24		
	Types of industrialized doors and windows, sliding, revolving) Drawing Work)	16/04/24		
	Collapsible Door, Rolling shutters Door Introduction	16/04/24(Th)		
	Collapsible Door, Rolling shutters Door	20/04/24		

	Steel sections. Detailed drawings and construction details of pressed steel sections for doors and windows.	27/04/24		Class Test 2 Schedule
		30/04/24		
		30/04/24 (Th)		
	Doubt Clearing Session (DCS)	01/05/24		
	Steel sections. Detailed drawings and construction details of pressed steel sections for doors and windows.	04/05/24		
UNIT-IV Steel Truss	Introduction to structural steel trusses.	04/05/24 (TH)		
	Doubt Clearing Session (DCS)	15/05/24		House Test Schedule
	Detailed drawings and construction details of north light truss along with roof coverings, valleys, gutters etc. (Drawing Work)	18/05/24		
		21/05/24		
	Introduction to steel stairs	21/05/24(Th)		
	Doubt Clearing Session (DCS)	22/05/24		
	Detailed drawings and construction details of steel stairs such as straight flight	25/05/24		
		28/05/24		
	Introduction to Mezzanine Floor	28/05/24		
	Doubt Clearing Session (DCS)	29/05/24		
	Sketches of Mezzanine Floor (Drawing Work)	01/06/24		
		01/06/24 (Th)		

#### Assignment (Sheets)

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
Sheet-1	UNIT-1	20/02/24		
Sheet-2		02/03/24		
Sheet-3		12/03/24		
Sheet-4	UNIT-2	19/03/24		
Sheet-4		26/03/24		
Sheet-5		02/04/24		
Report		06/04/24		
Sheet -7	UNIT-3	16/04/24		
Sheet-8		23/04/24		
Sheet-9		04/05/24		
Sheet-10	UNIT-4	21/05/24		
Sheet-11		28/05/24		
Sheet-12		01/06/24		

#### House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1,	As per HPTSB Academic Schedule		
Class Test -2	Unit-2			
	Unit-1 to Unit-3			

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**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	Building byelaws and submission drawings
Subject Code	ARPC – 4003
Semester	4th
Subject Teacher Name	Bandna Dixit

**Evaluation Scheme**

Teaching Schedule		Marks of Sessional work	Marks of Examination		Total marks	credits	Duration of Examination h
L	P		Theory/Dwg	Pra.			
1	4	40	60	-	100	3	3
Books recommended		Town Planning by S.C. Rangawala (Charotar publishing house pvt. Ltd,2009 Study of various Bye laws Such as Himachal,Chandigarh, Punjab through PDF online					

**Course Outcomes (COs)**

CO – 1	Students will learn how to prepare Submission Drawings and the procedure of getting the approval done
CO – 2	Student will be able to understand the terminologies and application of various building byelaws related to architecture practice
CO – 3	Students will learn the various forms and other formalities being practiced for approval of

TEACHING PLAN	NAME OF TOPIC	PROPOSED DATE		ACTUAL DATE		REMARKS
		TH	PR	TH	PR	
<b>Building Byelaws:</b> <b>(Theory)</b> Definition, Objects, Importance and applicability of bye laws. Terminology used in Building Bye laws: Set-back, Light plane, Floor space Index or Floor area ratio (Calculation also), Off-Street Parking, Fire Protection, Minimum Plot sizes, Consolidated open plot, Mezzanine floor, Skip floor. Principles underlying	introduction to the subject		9/02/24			
	Objectives of byelaws	12/02/24				
	Requirements for submission (Municipal) drawings		14/02/24			
	Key plan		16/02/24			
	Implementation of byelaws	19/02/24				
	Key plan		21/02/24			
	Key plan		23/02/24			
	importance of byelaws/ Assig.No.1	26/02/24				
	Drawing Work		28/02/24			

	Name of Topic	Proposed Date		Actual Date		Remarks
		TH	PR	TH	PR	
UNIT-I Building Byelaws: (Theory) UNIT-II Development/ Building Permission: (Drawing) Requirements for submission (Municipal) drawings (to be drawn manually of any small building) – sub division/ layout plan, key plan, Site plan, Floor plans, elevations, sections, Services plans, specifications, Structural stability Certificate, Scale, & coloring; Preparation & Signing of plans; Fees, Duration of sanction; Deviations, Violations and Penalties, Completion Certificate.	Set- back	4/03/24				
	Drawing Work (submission Drawings)		6/03/24			
	<b>HOLIDAY</b>		8 /03/24			MAHASHIVRATRI
	Light plane (Assig.No.2)	11/03/24				
	Drawing Work ( S.D.)		13/03/24			
	Drawing Work ( S.D.)		15/03/24			Assig.No.2 sub.
	Floor space Index	18/03/24				Proposed C.T.-I
	Drawing Work ( S.D.)		20/03/24			
	Drawing Work ( S.D.)		22/03/24			
	<b>HOLIDAY</b>	25/03/24				HOLI
	Drawing Work ( S.D.)		27/03/24			
	<b>HOLIDAY</b>		29/03/24			GOOD FRIDAY
	Off-Street Parking	1/04/24				
	Drawing Work ( S.D.)		3/04/24			
	Drawing Work ( S.D.)		5/04/24			
	Fire Protection	8/04/24				
	Drawing Work ( S.D.)		10/04/24			
	Drawing Work		12/04/24			

	<b>HOLIDAY</b>	15/04/24				HIMACHAL DAY
	<b>HOLIDAY</b>		17/04/24			RAM NAVAMI
	Drawing Work ( S.D.)		19/04/24			
	Minimum Plot sizes,	22/04/24				
	Drawing Work ( S.D.)		24/04/24			Proposed C.T.-II
UNIT-I	Drawing Work ( S.D.)		26/04/24			
Building Byelaws: (Theory)						
UNIT-II	Mezzanine floor	29/04/24				
Development/ Building Permission: (Drawing)	Drawing Work ( S.D.)		1/05/24			
Requirements for submission (Municipal) drawings (to be drawn manually of any small building) – sub division/ layout plan, key plan, Site plan, Floor plans, elevations, sections, Services plans, specifications, Structural stability Certificate, Scale, & coloring; Preparation & Signing of plans; Fees, Duration of sanction; Deviations, Violations and Penalties, Completion Certificate.	Drawing Work ( S.D.)		3/05/24			
	Skip floor	6/05/24				
	Drawing Work ( S.D.)		8/05/24			
	<b>HOLIDAY</b>		10/05/24			PAR.JAYANTI
		13/05/24				Proposed House Test
	Drawing Work (submission of S.D.)		15/05/24			
	Drawing Work		17/05/24			
	Bye –Laws for residential area	20/05/24				
	Drawing Work (submission of S.D.)		22/05/24			submission of DRAWINGS
	Drawing Work		24/05/24			


for submission drawings					
Various certificates required for submission		29/05/24			
Deviations, Violations and Penalties,		31/05/24			
Study of Revenue paper required for submission drawings	1/06/24				

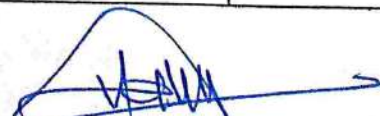
#### ASSIGNMENTS :

Assignment No.	Content of syllabus covered	Proposed Date	Actual Date	Remarks
No.1	<b>UNIT-I</b>	1/03/24		
No.2		15/03/24		
No.6	<b>UNIT-II</b>	22/05/24		
No.7		24/05/24		

#### CLASS TEST/HOUSE TEST:

TEST	Syllabus	Proposed Date	Actual Date	Remarks
Class Test-I	UNIT-I	As per HPTSB Academic Schedule		
Class Test-II	UNIT-I & UNIT-II			
House Test	UNIT-I&UNIT-II			

  
(SUBJECT TEACHER)

  
H.O.D

**Department of Architecture**  
**Dr BR Ambedkar Govt. Polytechnic Ambota**  
**Distt. – Una (H.P.) - 177205**

**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	Structure Design-I
Subject Code	ARPC-4004
Semester	4th
Subject Teacher Name	Vipin Kumar

**Evaluation Scheme**

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Structure Design-III	3	0	40	-	40	60	-	60
Reference Books		Theory of Structures by Birender Singh (published by Kaption publishing House) 4.							
		Structural Mechanics by Birender Singh (published by Kaption publishing house)							
		Tayal, "Engineering Mechanics", Umesh Publications, 13/e, 2006.							
		Bansal R. K., "Engineering Mechanics", Lakshmi Publications Pvt Ltd, 3/e, 1996							

**Course Outcomes (COs)**

CO – 1	The student shall have developed the necessary skills to analyze and solve basic problems involving graphics and spatial manipulations for architectural applications.
CO – 2	Student will be able to access various types of load and stresses applicable on the structure.
CO - 3	To solve the basic structural mechanical problems and structural behaviour.

**Teaching Plan**

	Name of Topic	Proposed Date	Actual Date	Remarks
<b>UNIT-I</b>  <b>Resultant of force system &amp; equilibrium</b>	Force definition, SI Unit, types, system of force.	12/02/24		
	Resultant of concurrent forces, law of parallelogram, triangle law of forces, polygonal law of forces, resolution and addition of forces	13/01/24		
		14/01/24		
	Moment of forces, statement of various theorems, resultant of non-concurrent forces, parallel and non-parallel forces.	19/02/24		
		20/02/24		
	Equilibrium: Concept of equilibrium, equilibrium of two and more forces, Conditions of equilibrium, graphical conditions of equilibrium body.	21/02/24		

<b>UNIT-II</b>  <b>Centre of Gravity (CG)</b>	CG by geometrical consideration for rectangular, triangle, semicircle	26/02/24		
		27/02/24		
	CG of regular solids, cubes, spheres, semi-spheres, right circular cones.	28/02/24		
		04/03/24		
	Centre of gravity by method of moments of area, mass or volume of regular figures, composite figures and regular figures with cut out holes.	05/03/24		
		06/03/24		
		11/03/24		
		12/03/24		
		13/03/24		
		18/03/24		
<b>UNIT-III</b>  <b>Moment Of Inertia (MOI)</b>	Meaning of terms - second moment of area, radius of gyration of a section	19/03/24		
		26/03/24		Class Test 1 Schedule
		27/03/24		
	Theorem of parallel axis and perpendicular axis (statement only without proof)	01/04/24		
		02/04/24		
		03/04/24		
	Second moment of regular figures - rectangle, triangle, circle and annular sections (formulae only)	08/04/24		
		09/04/24		
		10/04/24		
		16/04/24		
<b>UNIT-IV</b>  <b>Shear force and Bending moment (SF&amp;BM)</b>	Definition and concepts of Shear force and bending Moment, calculations of reactions	22/04/24		Class Test 2 Schedule
		23/04/24		
		24/04/24		
		29/05/24		
	SF and BM diagrams for simply supported, over-hanging, cantilever beams subjected to concentrated or uniformly distributed loads on entire or partial span.	30/04/24		
		01/05/24		
		06/05/24		
		07/05/24		
		08/05/24		
<b>UNIT-V</b>  <b>Simple Stress &amp; Strain</b>	Concept and definitions, units, types of stresses, axial stresses in bars, strains Hooks law, tensile test on mild steel, working stress and factor of safety, temperature stresses in bars.	13/05/24		
		14/05/24		House Test Schedule
		15/05/24		
		20/05/24		
		21/05/24		
		22/05/24		
		27/05/24		


## Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1	UNIT -1 & UNIT -2	12/03/24		
A-2	UNIT-3 & UNIT 4	13/05/24		
A-3	UNIT -5	29/05/24		

## House Test/Class Test

Name of test	Syllabus for Tests	Proposed Date	Actual Date	Remarks
Class Test -1	Unit-1,	As per HPTSB Academic Schedule		
Class Test -2	Unit-2			
House Test	Unit-1 to Unit-3			

  
Subject Teacher  
(VIPIN KUMAR)

  
HOD

**Department of Architecture**

**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	COMPUTER APPLICATION IN ARCHITECTURE-III
Subject Code	ARSEC – 4006
Semester	Fourth
Subject Teacher Name	Rajinder Kumar

Evaluation Scheme				Marks in Evaluation Scheme					
Sr. No	Subject Name	Study scheme (Hrs/Week)		Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1	Computer Application in Architecture-III	0	4		40	40		60	60


Reference Books	Autodesk Auto CAD Architecture 2009 fundamentals by Elise Moss (Published by SDC) Auto CAD for dummies by Billfan, John Wiley & sons publications
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**Course Outcomes (COs)**

CO – 1	The student will be proficient in rendering software like Photoshop. The student will be familiar with basic 3D softwares which is the need of the hour
CO – 2	The students will find themselves at par with the use of various software important in the field of architecture as desired by the market forces.

**Teaching Plan**

Chapters	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-I	Introduction to Photoshop	1/2/2024		
	Introduction to Photoshop	3/2/2024		
	Knowing the tools and interface.	8/2/2024		
	Knowing the tools and interface.	15/2/2024		
	Basics of rendering a plan, elevation and section.	17/2/2024		
	Basics of rendering a plan, elevation and section.	22/2/2024		
	Exercise on unit I.	29/2/2024		
UNIT-II	Introduction to 3d-Modeling	2/3/2024		
	Introduction to 3d-Modeling	7/3/2024		
	Introduction to 3d-Modeling	14/3/2024		
	Creating face, push, pull etc.	16/3/2024		
	Creating face, push, pull etc.	21/3/2024		
	Creating face, push, pull etc.	23/3/2024		
	Creating face, push, pull etc.	28/3/2024		
	Applying material/texture	30/3/2024		
	Applying material/texture	4/4/2024		
	Applying material/texture	6/4/2024		
UNIT-III	Exercise on unit II	18/4/2024		
	Introduction to 3d-Rendering. 3D Rendering, Simulating the Sunlight angle, adding shadows.	20/4/2024		
	Adding Materials and adjusting its appearance, adding a background scene, Effects with light, Creating and adjusting Texture maps,	25/4/2024		
	Adding Landscape and people and Improving your images and editing.	27/4/2024		
UNIT-IV	Exercise on unit III	2/5/2024		
	Drawings of at least one ongoing/previous Architecture & Design-III project using any 3D software.	4/5/2024		
	Drawings of at least one ongoing/previous Architecture & Design-III project using any 3D software.	9/5/2024		
	Drawings of at least one ongoing/previous Architecture & Design-III project using any 3D software.	16/5/2024		
	Drawings of at least one ongoing/previous Architecture & Design-III project using any 3D software.	18/5/2024		
	One set of municipal drawings made manually during the semester shall also be drawn using suitable 2D software.	25/5/2024		
	One set of municipal drawings made manually during the semester shall also be drawn using suitable 2D software.	30/5/2024		
	One set of municipal drawings made manually during the semester shall also be drawn using suitable 2D software.	1/6/2024		

  
Sig. of Teacher

  
Sig. of H.O.D.

Department of Architecture	
LESSON PLAN	
Program Name	Architecture Assistantship
Project Name	PROFESSIONAL ELECTIVE-II
Project Code	ARPC – 2002
Semester	Second
Project Teacher Name	Rajinder Kumar

Evaluation Scheme		Marks in Evaluation Scheme							
Sl. No.	Subject Name	Study scheme (Hrs/Week)		Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
	Elective-II (Town Planning)	3	0	40		40	60		60

Reference Books	Town Planning by Rangwala, Charotar Publishing House Pvt. Ltd Fundamentals of Town Planning by G.K. Hiraskar & Town Planning by M Pratap Rao.
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Course Outcomes (COs)	
CO-1	Students will identify the role of settlements growth in Modern day town planning and various new forms of developments.
CO-2	Students will be acquainted with city planning processes. & Students will be able to read the developmental plans of any city.

Teaching Plan				
Chapters	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-I (Town Planning)	Introduction to Town Planning	8/2/2024		
	Introduction to Town Planning	14/2/2024		
	Objectives of town planning	15/2/2024		
	Objectives of town planning	17/2/2024		
	Importance of town planning	21/2/2024		
	Importance of town planning	22/2/2024		
	Principles of town planning	28/2/2024		
	Principles of town planning	29/2/2024		
UNIT-I (Origin and Growth of Ancient Towns)	Mohenjo-Daro and Harappa	2/3/2024		
	Mohenjo-Daro and Harappa	6/23/2024		
	Mohenjo-Daro and Harappa	7/3/2024		
	Mesopotamia	13/3/2024		
	Mesopotamia	14/3/2024		
	Ancient Greece	16/3/2024		
	Ancient Greece	20/3/2024		
	Class Test-I	21/3/2024		
	Ancient Cities of Delhi	23/3/2024		
	Ancient Cities of Delhi	27/3/2024		
	Ancient Cities of Delhi	28/3/2024		
	Ancient Cities of Delhi	30/3/2024		
UNIT-I (Planning Process)	Site selection	3/4/2024		
	Site selection	4/4/2024		
	Site planning	6/4/2024		
	Site planning	10/4/2024		
	Site planning	18/4/2024		
	Town and Villages	20/4/2024		
	Town and Villages	24/4/2024		
	Town and Villages	25/4/2024		
	Class Test-II	27/4/2024		
	Ancient Form of Village Planning	1/5/2024		
	Ancient Form of Village Planning	2/5/2024		
	Ancient Form of Village Planning	4/5/2024		
UNIT-I City Development Plan)	Master plan regional plan in relation to Chandigarh	8/5/2024		
	Master plan regional plan in relation to Chandigarh	9/5/2024		
	Neighborhood unit concept in housing	15/5/2024		
	House Test	16/5/2024		
	House Test	18/5/2024		
	House Test	22/5/2024		
	Neighborhood unit concept in housing	25/5/2024		
	Neighborhood unit concept in housing	29/5/2024		
	Garden City concept, industrial city movement	30/5/2024		
	Garden City concept, industrial city movement	1/6/2024		
	Garden City concept, industrial city movement			
	Garden City concept, industrial city movement			

## LESSON PLAN

Program Name	DIPLOMA IN Arch Aistt.	
Course/Subject Name	Essence Of Indian Knowledge & Tradition	
Course/Subject Code	AU202	
Course/Subject Coordinator Name	Abhishek Kumar	

### Evaluation scheme

S.No.	Subject Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Essence Of Indian Knowledge & Tradition	2 hrs (Th)	40	-	60	-
Reference books:			(1) Cultural Heritage of India- Course Material by V. Sivaramkrishna Bhartiya			
			(2) Modern Physics and Vedant by Swami Jltatmanand Bahartiya			
			(3) The wave of Life by Fritz of Capra			
			(4) Tao Of Physics Fritz of Capra			
			(5) Science of consciousness Psychotherapy and Yoga Practice by RN Jha, Vidya Nidhi Prakashan			
			(6) Himachal Pradesh History, Culture and Economy by Mian Goverdhan Singh and Dr. C.L. Gupta.			

**Course Outcomes:** After the completion of the course the students will be able to:

CO1	Identify the concept of Indian Knowledge system
CO2	Understan the need and importance of protecting traditional knowledge.
CO3	Compare the Indian traditional knowledge and modern science
CO4	Understand the use of Yoga in stress management ,mental health,mindfulness, healthy eating, weight loss and quality sleep
CO5	Aware of the general knowledge of Himachal Pradesh

**Teaching Plan:**

Name of topic	Proposed Date	Actual Date	Remarks
<b>Unit-1 Indian knowledge System</b> Introduction and function of Indian knowledge system	12/02/2024		
The Basic Structure of Indian knowledge system The 4 Vedas Rigveda, Yajurveda, Samaveda, Atharvaveda	16/02/2024		
The 4 Up Vedas Ayurveda( health-care) Dhanurveda( archery) Gandharvaveda veda(dance , music etc.) and Sthapataya veda (architechture)	19/02/2024		
The 6 Vedagangs, Shiksha, Kalpa, Vyakarana, Chhandas ,Nirukta, and Jyotisha.	23/02/2024		
Itihasa Ramayana and Mahabharata ) and Purana Vishnupurana Bhagvata Puran	26/02/2024		
DharamShastra, Manusmriti, Yajnavalkya-smriti etc.	01/02/2024		
Darshan	04/03/2024		
Nayaya (Logic and Epistemology)	08/03/2024		
<b>Unit- 2 Modern Science</b> Modern Science: Introduction, Characteristics, importance and Example	11/03/2024		
Difference between modern Science and Indian knowledge system	15/03/2024		
Role of IKS in modern Science	18/03/2024		
<b>Unit-3 Traditional Knowledge</b> Definition, nature,characterstics, scope and importance	22/03/2024		
Indigenous knowledge(IK); characteristics	29/03/2024		
Traditional Knowledge vis-à-vis indigenous knowledge	01/04/2024		
Traditional Knowledge vs western knowledge	06/04/2024		
The Need for protecting traditional knowledge	08/04/2024		
<b>Unit-4 Yoga and Holistic Health Care</b> Meaning and importance of yoga	12/04/2024		

intellectual health, Yoga and spiritual health, Yoga and social approach			
Introduction to Ashtanga yoga; Yogic kriyas( Shat karma)	26/04/2024		
Pranayam and it types; Active lifestyle and stress management through yoga	03/05/2024		
Physical Fitness, health and wellness: meaning and importance of wellness	06/05/2024		
Components of wellness, health and physical fitness	10/05/2024		
Traditional sports & Regional Games for promoting wellness	13/05/2024		
Leadership through physical activity and sport; Introduction to First Aid	17/05/2024		
<b>Unit-5 Himachal Pradesh : A Basic Information</b> History, Culture, Heritage/Tradition, customs and manners	20/05/2024		
Regional knowledge, geographical features, constitutional History	24/05/2024		
Tourism Places & scope	27/05/2024		
Festival and Fairs	31/05/2024		

### Assignments:

Assignment serial	Contents of syllabus covered	Actual date	Remarks
A-1	Indian Knowledge System & Modern Science		
A-2	Yoga and Holistic Health Care, H.P : A Basic Information		

CT-I	30% of the syllabus	4 <sup>th</sup> Week of March 2024		
CT-II	Next 30% of the syllabus	4 <sup>th</sup> Week of April 2024		
House Test	80% of the syllabus	3 <sup>rd</sup> Week of May 2024		

  
(Signature of HOD)

  
(Signature of Teacher)

**Department of Architecture**  
**Dr BR Ambedkar Govt. Polytechnic Ambota**  
**Distt. – Una (H.P.) - 177205**

**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	SEMINAR-II
Subject Code	N/A
Semester	4h
Subject Teacher Name	ARUN RANA

**Evaluation Scheme**

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
				Internal Assessment			External Assessment		
		Th	Pr	Th	Pr	Total	Th	Pr	Total
1.	Seminar-II		2		40	40		60	60


**Course Outcomes (COs)**

CO – 1	Upon completion of course, the students will learn and appreciate the enhancement in their presentation skills.
CO – 2	Students will be able to explain any given topic confidently.
CO - 3	Students will be able to express themselves in a better way, thereby improving their communication skill which is an integral part for becoming successful in this field.

**Teaching Plan**

	Name of Topic	Proposed Date	Actual Date	Remarks
<b>UNIT-I</b>  To improve the communication skills students are required to present seminar on any relevant topic covered in the semester. The focus should be on innovative things being carried out in the world, in the field of Architecture. The activity may be performed individually	Appreciation of traditional settlement pattern and building typology through villages. Exercises related to understanding social structure and its manifestation spatial organization and manifestation Public and private spaces, family and community spaces, Residential, Haveli etc. ( UNDER ARCHITECTURE DESIGN -IV )	8/02/24		
		15/02/24		
		22/02/24		
		29/2/24		
		7/3/24		VIVA & PRESENTATION

Seminars may be conducted for the relevant topics of the subjects pertaining to IV Semester.	Market survey of various finishing materials. ( UNDER BUILDING MATERIAL AND CONSTRUCTION-III )	21/3/24		
		28/3/24		VIVA & PRESENTATION
		4/4/24		
	Importance and applicability of bye laws. Terminology used in Building Bye laws: Set- back, Light plane, Floor space Index or Floor area ratio (Calculation also), Off-Street Parking, Fire Protection, Minimum Plot sizes, Consolidated open plot, Mezzanine floor, Skip floor. Principles underlying building bye- laws. Building Bye –Laws for residential area of a typical town planning scheme. Study of Revenue paper required for submission drawings (Tatima or ax or map of land or plot, Jamabandi or type of land use, owner name, area of land, owner name Khasra no. etc.) (UNDER BUILDING BYE LAWS & SUBMISSION DRAWINGS)	18/4/24		
		25/4/24		
		2/5/24		VIVA & PRESENTATION
	Neighborhood unit concept in housing (UNDER TOWN PLANNING)	9/5/24		
		30/5/24		
				VIVA & PRESENTATION

  
Subject Teacher

  
HOD