

## LESSON PLAN

Program Name	DIPLOMA IN <b>ARCHITECTURE ASSISTANTSHIP</b>
Course/Subject Name	Architecture Mathematics
Course/Subject Code	ARBS-2005
Course/Subject Coordinator Name	Dr. Reena Kumari

### Evaluation scheme

S.No..	Subject Name	Study scheme (Hrs/Week)	Marks in evaluation scheme			
			Internal Assessment		External Assessment	
			Theory	Practical	Theory	Practical
1.	Architecture Mathematics	3(Th)+2(DCS)	40	-	60	-
Reference books:			(1) B.S. Grewal, Higher Engineering Mathematics, Khanna Publishers, New Delhi, 40th Edition, 2007. (2) G. B. Thomas, R.L. Finney, Calculus and Analytic Geometry, Addison Wesley, 9th Edition, 1995. (3) Reena Garg, Engineering Mathematics, Khanna Publishing House, New Delhi (Revised Ed.2018). (4) V. Sundaram, R. Balasubramanian, K.A. Lakshminarayanan, Engineering Mathematics, 6/e., Vikas Publishing House. (5) Reena Garg & Chandrika Prasad Advanced Engineering Mathematics, Khanna Publishing House, New Delhi.			

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

CO1	The students are expected to acquire necessary background in Trigonometry to appreciate the importance of the geometric study as well as for the calculation and the mathematical analysis.
CO2	The students are expected to acquire necessary background in Determinants and Matrices so as to appreciate the importance of the Determinants are the factors that scale different parameterizations so that they all produce same overall integrals, i.e. they are capable of encoding the inherent geometry of the original shape.
CO3	The students are able to solve the basic problems of Differentiation and Integration.

### Teaching Plan:

Lecture No.	Name of topic	Proposed Date	Actual date	Remarks
1	<b>Matrices and Determinants : Matrices</b>	28.01.25		
2	Matrices	29.01.25		
3	Algebra of matrices	30.01.25		




4	Algebra of matrices	31.01.25		
5	Algebra of matrices and Value of determinants of 2 <sup>nd</sup> order	01.02.25		
6	Value of determinants of 2nd & 3rd order	05.02.25		
7	Adjoint of a matrix	06.02.25		
8	Adjoint of a matrix	07.02.25		
9	Inverse of a matrix	11.02.25		
10	Inverse of a matrix	13.02.25		
11	Cramer's rule for solving two variables and three variables linear equations	14.02.25		
12	Cramer's rule for solving two variables and three variables linear equations	15.02.25		
13	Matrix inverse method to solve a system of linear equations in two and three variables	18.02.25		
14	Matrix inverse method to solve a system of linear equations in two and three variables	19.02.25		
15	<b>Vector Algebra</b> : Definition, notation and rectangular resolution of a vector	20.02.25		
16	Addition and subtraction of vectors	21.02.25		
17	Addition and subtraction of vectors	22.02.25		
18	Scalar and vector products of two vectors.	25.02.25		
19	Scalar and vector products of two vectors.	27.02.25		
20	<b>Trigonometry</b> : Concept of angles	28.02.25		
21	measurement of angles in degrees, grades and radians and their conversions.	01.03.25		
22	measurement of angles in degrees, grades and radians and their conversions.	04.03.25		
23	T-Ratios of Allied angles.	05.03.25		
24	T-Ratios of Allied angles.	06.03.25		
25	T-Ratios of Allied angles.	07.03.25		
26	Graphs of Sin x, Cos x	11.03.25		
27	Graphs of Tan x	12.03.25		
28	<b>Differential Calculus:</b> Important formulae of Differentiation	13.03.25		
29	Important formulae of Differentiation	15.03.25		
30	Important formulae of Differentiation	18.03.25		
31	Rules for Differentiation	19.03.25		
32	Class test -I	20.03.25		
33	Rules for Differentiation	21.03.25		
34	Rules for Differentiation	22.03.25		
35	Differentiation of sum and difference of functions	25.03.25		

**Assignments:**

Assignment serial	Contents of syllabus covered	Proposed Date	Actual date	Remarks
A-1	Matrices and Determinants, Vector algebra & Trigonometry	19/03/25		
A-2	Differential and Integral calculus	30/04/25		

**House Test/Class Test:**

House/Class Test	Contents of syllabus covered	Proposed Date	Actual date	Remarks
CT-I	30% of the syllabus	3 <sup>rd</sup> week of March 2024		
CT-II	Next 30% of the syllabus	3 <sup>rd</sup> week of April 2024		
house Test	80% of the syllabus	2nd week of May 2024		

  
Signature of Teacher  
Dr. Keena Kum

  
Signature of HOD



## LESSON PLAN

ProgramName	DIPLOMA (Arch.Assist.)
Course/Subject Name	Environmental science
Course/SubjectCode	AU(102)
Course/SubjectCoordinatorName	Ms.Swati Bhardwaj

### Evaluation scheme

S.No.	SubjectName	Study Scheme (Hrs/Week)	Marks in evaluation scheme	
			Internal Assessment	External Assessment
			Theory	Theory
1.	Environmental Science	2hr (Th)	40	60
Reference books			(i) S.C.Sharma MP.Poonia, Environmental Studies, KhannaPublishingHouse, New Delhi.	
			(ii)C.N. R. Rao, Understanding Chemistry, Universities Press (India) Pvt.Ltd., 2011	
			(iii)O.P.Gupta, Elements of Environmental Pollution Control, Khanna Publishing House, New Delhi.	
			(iv)Environmental Science By Mr. Aman Saini and Manoj Saini ,TruEdu.Publications	

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

C01	To solve various engineering problems applying ecosystem to produce eco – friendly products
C02	To use relevant air and noise control methods to solve domestic and industrial problems.
C03	To use relevant water and soil control method to solve domestic and industrial problems
C04	To recognize relevant energy sources required for domestic and industrial applications
C05	To Solve local solid and e-waste problems

## Teaching Plan:

Lecture No.	Name of topic	Proposed Date	Actual date	Remarks
1	<b>Unit-1 Ecosystem</b> Structure of ecosystem, Biotic & Abiotic components Food chain and food web	30.01.2025		
2	Aquatic (Lentic and Lotic) and terrestrial ecosystem Carbon, Nitrogen, cycle	31.01.2025		
3	Sulphur, Phosphorus cycle	06.02.2025		
4	Global warming -Causes, effects, process GreenHouse Effect, Ozone depletion.	07.02.2025		
5	<b>Unit- 2 Air and, Noise Pollution</b> Definition of pollution and pollutant, Natural and manmade sources of air pollution (Refriger- ants, I.C., Boiler) ,	13.02.2025		
6	Air Pollutants: Types, Particulate Pollutants: Effects	14.02.2025		
7	Control of air pollution(Bag filter, Cyclone separator, Electrostatic Precipitator).	20.02.2025		
8	Gaseous Pollution Control: Absorber, Catalytic Converter, Effects of air pollution due to Refrigerants, I.C., Boiler	21.02.2025		
9	Noise pollution: sources of pollution, measurement of pollution level, Effects of Noise pollution, Noise pollution (Regulation and Control) Rules, 2000	27.02.2025		
10	<b>Unit- 3 Water and Soil Pollution</b> Sources of water pollution, Types of water pollutants,.	06.03..2025		
11	Characteristics of water pollutants Turbidity, pH,	07.03..2025		

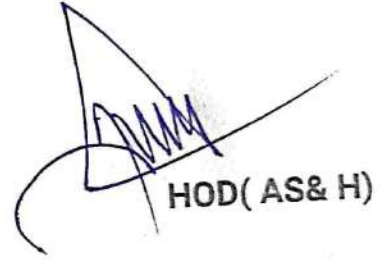


	benefits and the problem of wind energy.			
21	<b>CLASS TEST - II</b>	17.04.2025		
22	New Energy Sources: Need of new sources. Different types of new energy sources, Applications of (Hydrogen energy, Ocean energy resources, Tidal energy conversion)	24.04.2025		
23	Concept, origin and power plants of geothermal energy.	25.04.2025		
24	<b>Unit-5 Solid Waste Management, ISO 14000 &amp; Environmental Management</b> Solid waste generation- Sources and characteristics of : Municipal solid waste, E-waste, bio- medical waste. Metallic wastes and Non-Metallic wastes (lubricants, plastics, rubber) from industries	01.05.2025		
25	Collection and disposal: MSW (3R, principles, energy recovery, sanitary landfill), Hazardous.	02.05.2025		
26	Waste Air quality act 2004, air pollution control act 1981 and water pollution and control act 1996.	15.05.2025		
27	Structure and role of Central and state pollution control board, Concept of Carbon Credit, Carbon Footprint	16.05.2025		
28	Environmental management in the fabrication industry. ISO14000: Implementation in industries, Benefits.	22.05.2025		

House/ ClassTest	Contents of syllabus covered	Proposed Date/Slot	Actual date	Remarks
CT-I	30% of the syllabus	20.03.2025		
CT-II	Next 30% of the syllabus	17.04.2025		
House Test	80% of the syllabus	2 <sup>nd</sup> week of May, 2025		
Assignments	Contents of syllabus covered	Proposed Date/Slot	Actual date	Remarks
A-1	Ecosystem , Air and, Noise Pollution, Water and Soil Pollution,	13.03.2025 /21.03.2025		
A-2	Renewable sources of Energy Solid Waste Management, ISO 14000 & Environmental Management,	25.04.2025 /16.05.2025		



Signature of teacher  
(Swati Bhardwaj)



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**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	SURVEYING
Subject Code	ARPC – 2004
Semester	Second
Subject Teacher Name	Rajinder 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	Surveying	2	2	40	40	80	60	60	120

Reference Books	"Surveying- Vol.1", Dr. B.C. Punmia, Ashok Kumar Jain and Arun Kumar Jain, Laxmi; Sixteenth edition, 2005.
	Textbook of Surveying", C. Venkatramaiah, Orient Blackswan; Second edition, 2011. "A Textbook of Advance Surveying", R. Agor, Khanna Publishers, 2002

**Course Outcomes (COs)**

CO – 1	Student will understand the importance of survey in mapping the topography with the help of latest equipment.
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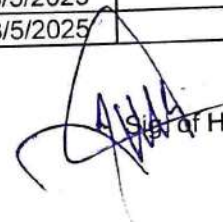
**Teaching Plan**

Chapters	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-I Chain Survey	Introduction to surveying and its principles. Types of surveying, Map and Plan, its Scale and uses.	27/01/2025		
	Practical: Introduction to the Different chains used in chain survey.	29/01/2025		
	Sources of errors in survey-linear measurement: accurate and approximate methods.	31/01/2025		
	Chain Surveying: Introduction, principles and operations, advantages and disadvantages	3/2/2025		
	Practical: Chain survey.	5/2/2025		
	Principles and operations	7/2/2025		
	Advantages and disadvantages	10/2/2025		
	Plane Table surveying: Equipment and accessories,	14/2/2025		
UNIT-II Plane Tabling & Compass Surveying	Plane Table surveying: Equipment and accessories,	17/2/2025		
	Practical: Chain survey.	19/2/2025		
	methods-2 point and 3 point survey	21/2/2025		
	methods-2 point and 3 point survey	24/2/2025		
	Setting, advantages and disadvantages	28/2/2025		
	Setting, advantages and disadvantages	3/3/2025		
	Practical: Chain survey.	5/3/2025		
	<b>Compass Surveying &amp; Assignment -I</b>	7/3/2025		
	Introduction to the Plane Tabling.	10/3/2025		
	Practical: Plane Tabling.	12/3/2025		
	Introduction to the Plane Tabling.	17/3/2025		
	Practical: Plane Tabling.	19/3/2025		
	Class Test-I	21/3/2025		
	Contouring and its Characteristics,	24/3/2025		
	Practical: Plane Tabling.	26/3/2025		
Contouring and its Characteristics,	28/3/2025			
Practical: Plane Tabling.	2/4/2025			



UNIT-III Contouring	Uses, methods, interpolation of contours.	4/4/2025		
	Leveling: Definitions, types, parts of dumpy level	7/4/2025		
	Practical: Plane Tabling.	9/4/2025		
	Leveling: Definitions, types, parts of dumpy level	11/4/2025		
	Practical: Introduction to the Compass Surveing.	16/4/2025		
	Adjustments, types of leveling staff & <b>Assignment-II</b>	21/4/2025		
	Reducing by rise and fall method and height of collimation method.	23/4/2025		
	Class Test-II	25/4/2025		
	Basic concepts of Photogrammetry	28/4/2025		
	Practical: Leveling.	30/4/2025		
UNIT-IV Basic concepts of Photogrammetry	Introduction to use of Digital Surveying –Instruments	2/5/2025		
	Introduction to distomat – total station	5/5/2025		
	Practical: Leveling.	7/5/2025		
	Introduction to Electronic Theodolite	9/5/2025		
	Practical: Leveling.	14/5/2025		
	House Test	16/5/2025		
	Introduction to G.P.S. Remote sensing.	19/5/2025		
	Practical: Leveling.	21/5/2025		
	Geographical Information systems and their applications	23/5/2025		
	Introduction to G.P.S. Remote sensing.	26/5/2025		
Practical: Introduction to the latest instruments used in	28/5/2025			

  
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**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	BUILDING MATERIAL & CONSTRUCTION-I
Subject Code	ARPC – 2002
Semester	Second
Subject Teacher Name	Rajinder 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	Building Material & Construction-I	1	6	40	40	80	60	60	120

Reference Books

**Course Outcomes (COs)**

CO – 1	Upon completion of the course, the student shall be familiar with basic components of a building.
CO – 2	The course shall prepare students to gain an understanding of the basic building material like brick, stone, cement etc. and would get an exposure of various bonds in bricks and stone masonry.

**Teaching Plan**

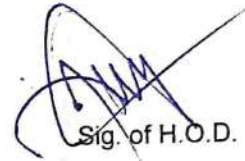
Chapters	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-I Component of Building	Basic components of a "building" (Th.)	28/1/2025		
	Drawing from foundation to roof. (DCS)	29/1/2025		
	Drawing from foundation to roof.	31/1/2025		
UNIT-II Basic building materials	Basic building materials- brick, stone, (Th.)	4/2/2025		
	Stretcher bond-English bond- (DCS)	5/2/2025		
	Stretcher bond-English bond-	7/2/2025		
	Cement, sand, concrete. And its Application, (Th.)	11/2/2025		
	Single & Double Flemish bond	14/2/2025		
	Single & Double Flemish bond (Th.)	18/2/2025		
	Properties and defects. Effects of sun, rain, wind (DCS)	19/2/2025		
	Drawing of L junction- T junction- Cross junction	21/2/2025		
	Drawing of L junction- T junction- Cross junction (Th.)	25/2/2025		
	Environmental conditions on building materials	28/2/2025		
	Drawing of Brick Jellies, Brick Arches. (Th.)	4/3/2025		
	Drawing of Brick Jellies, Brick Arches. (DCS)	5/3/2025		
	Introduction to paints and varnishes. & Assignment-I	7/3/2025		
	Drawing of Brick Jellies, Brick Arches. (Th.)	11/3/2025		
Drawing of Brick Jellies, Brick Arches. (DCS)	12/3/2025			
UNIT-III Brick Masonry	Market studies such as manufacturing, (Th.)	18/3/2025		
	Class Test-I	19/3/2025		
	Drawings of Rubble walling	21/3/2025		
	Drawings of Rubble walling (Th.)	25/3/2025		
	Types and application of the paint and varnishes (DCS)	26/3/2025		
	Drawings of Rubble walling	28/3/2025		
	Drawings of Rubble walling (Th.)	1/4/2025		
	Drawings of Polygonal walling (DCS)	2/4/2025		
	Introduction to popular brand names.	4/4/2025		
	Drawings of Polygonal walling (Th.)	8/4/2025		
	Various types of bonding in walls (DCS)	9/4/2025		
	Drawings of Flint walling	11/4/2025		
Drawings of Flint walling (DCS)	16/4/2025			



UNIT-IV Stone Masonry	Class Test-II (Th.)	22/4/2025		
	Drawings of Flint walling (DCS)	23/4/2025		
	Drawings of Flint walling	25/4/2025		
	Stone masonry (DCS)	30/4/2025		
	Drawings of Flint walling	2/5/2025		
	Rubble walling, Polygonal walling & Assignment-II (Th.)	6/5/2025		
	Drawings of Ashlars walling (DCS)	7/5/2025		
	Drawings of Ashlars walling	9/5/2025		
	Masonry joints, Stone arches (Th.)	13/5/2025		
	Masonry joints, Stone arches (DCS)	14/5/2025		
	House Test	16/5/2025		
	Masonry joints, Stone arches (Th.)	20/5/2025		
	Masonry joints, Stone arches etc. (DCS)	21/5/2025		
	Masonry joints, Stone arches etc.	23/5/2025		
	Masonry joints, Stone arches etc. (Th.)	27/5/2025		
	Masonry joints, Stone arches etc. (DCS)	28/5/2025		



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Department of Architecture

LESSON PLAN

Program Name	Architecture Assistantship
Subject Name	ARCHITECTURE DESIGN-II
Subject Code	ARPC – 2001
Semester	SECOND
Subject Teacher Name	BANDNA DIXIT

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	ARCHITECTURE DESIGN-II	1	6	40	40	80	60	60	120

Reference Books  
 "Building drawing with an integrated approach to Built Environment", M. G. Shah, C. M. Kale,  
 "Time-saver Standards for Architectural Design Data: The Reference of Architectural Fundamentals", Donald Watson, McGraw-Hill, 1997.

Course Outcomes (COs)

- CO-1 Students shall be able to analyze and design single use space and its visualization in 3D space
- CO-2 Students shall be made acquaintance with monuments of architectural importance

Teaching Plan

Chapters	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-I	Introduction	1/27/2025		
	the design of single use space with simple function explanation	1/28/2025		
	design of florist, kiosk, gift/souvenir shop, (explainin the concept )	2/1/2025		
	design of florist, kiosk, gift/souvenir shop, ( priliminar drawings)	2/3/2025		
	design of florist, kiosk, gift/souvenir shop, (priliminary drawings)	2/4/2025		
	design of florist, kiosk, gift/souvenir shop, (final Drawing )	2/10/2025		
	design of florist, kiosk, gift/souvenir shop, ( final Drawing )	2/11/2025		
	design of florist, kiosk, gift/souvenir shop, (final Drawing )	2/15/2025		
	design of florist, kiosk, gift/souvenir shop, (submission)	2/17/2025		
	design of bus stop,milk booth,guard cabin(explainin the concept )	2/18/2025		
	design of bus stop,milk booth,guard cabin( priliminar drawings)	2/22/2025		
	design of bus stop,milk booth,guard cabin( priliminar drawings)	2/24/2025		
	design of bus stop,milk booth,guard cabin ( final Drawing )	2/25/2025		
	design of bus stop,milk booth,guard cabin (final Drawing )	3/1/2025		
	design of bus stop,milk booth,guard cabin ( submission) (Assignment-I)	3/3/2025		
	design of entrance gate,traffic police kiosk,ATM centre (drawing work)	3/4/2025		
	design of entrance gate,traffic police kiosk,ATM centre (drawing work)	3/10/2025		
	design of entrance gate,traffic police kiosk,ATM centre (drawing work)	3/11/2025		
design of entrance gate,traffic police kiosk,ATM centre (submission)	3/15/2025			
UNIT-II	explaining the relationship between indoor and outdoor spaces	3/17/2025		C.T.-I
	design of Post-Office, Crèche, Dispensary, library / in groups (drawing)	3/18/2025		
	design of Post-Office, Crèche, Dispensary, library (drawing work)	3/22/2025		
	design of Post-Office, Crèche, Dispensary, library (drawing work)	3/24/2025		
	design of Post-Office, Crèche, Dispensary, library (drawing work)	3/25/2025		
	design of Post-Office, Crèche, Dispensary, library (drawing work)	3/29/2025		
	design of Post-Office, Crèche, Dispensary, library (drawing work)	4/1/2025		
	design of Post-Office, Crèche, Dispensary, library (drawing work)	4/5/2025		
	design of Post-Office, Crèche, Dispensary, library (drawing work)	4/7/2025		
	design of Post-Office, Crèche, Dispensary, library (drawing work)	4/8/2025		
	design of Post-Office, Crèche, Dispensary, library(drawing (Assignment-II)	4/19/2025		C.T.-II
	design of Post-Office, Crèche, Dispensary, library(drawing work)	4/21/2025		
	design of Post-Office, Crèche, Dispensary, library(drawing work)	4/22/2025		
	design of Post-Office, Crèche, Dispensary, library(drawing work)	4/26/2025		
	design of Post-Office, Crèche, Dispensary, library(drawing work)	4/28/2025		
design of Post-Office, Crèche, Dispensary, library(drawing work)	5/3/2025			
design of Post-Office, Crèche, Dispensary, library(drawing work)	5/5/2025			
design of Post-Office, Crèche, Dispensary, library(drawing work)sub.	5/6/2025			
UNIT-III	Study of a building/monument of an architectural importance in local area.	5/13/2025		H.T.
	site visits and documentation ( text, photography, Drawings)	5/17/2025		
	site visits and documentation ( text, photography, Drawings)	5/19/2025		
	site visits and documentation ( text, photography, Drawings)	5/20/2025		
	report prepration	5/24/2025		
	report prepration	5/26/2025		
submission	5/27/2025			

Sig. of Teacher  
 (Bandna Dixit)

Sig. of H.O.D.



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

**LESSON PLAN**

Program Name	Architecture Assistantship
Subject Name	History of Architecture-I
Subject Code	ARPC – 2003
Semester	2nd
Subject Teacher Name	Bandna Dixit

**Evaluation Scheme**

Sr. No	Subject Name	Study scheme (Hrs/Week)		Marks in Evaluation Scheme					
		Th	Pr	Internal Assessment			External Assessment		
				Th	Pr	Total	Th	Pr	Total
1	History of Architecture-I	3	0	40	-	40	60	-	60

Reference Books: Percy Brown, „Indian Architecture: Buddhist and Hindu Periods“, D. B. Taraporevala, 1965.  
History Of Architecture by G.K. Hiraskar.

	Name of Topic	Proposed Date	Actual Date	Remarks
<b>UNIT-1</b> Factors influencing the architectural character of any place; Geographic, Climatic, Socio-cultural, Religious, Economic, etc. Ancient Mesopotamia: Egypt and Indus Valley civilization.	Introduction to the subject	1/29/2025		
	Factors influencing the architectural character of any place;	1/30/2025		
	Geographic, Climatic,	1/31/2025		
	Socio-cultural, Religious, Economic, etc.	2/5/2025		
	Ancient Mesopotamia: History	2/6/2025		
	evolution and characteristics (assignmentNo.1)	2/7/2025		
	Ancient Egypt: History	2/13/2025		
<b>UNIT-II</b> Ancient Mesopotamia: Egypt and Indus Valley civilization.	Mastabas	2/14/2025		
	Pyramid of Giza	2/19/2025		
	Indus Valley Civilization: City planning	2/20/2025		
	Domestic Architecture. Building materials and construction techniques	2/21/2025		
	Domestic Architecture. Building materials and construction techniques	2/27/2025		
<b>UNIT-III</b> Ancient Greece: History, evolution and characteristics. Example: Classical Orders, Parthenon, Acropolis, Agora. Ancient Rome: History, evolution and characteristics. Example: Roman classical orders, Pantheon, Coliseum.	Bath, Mohenjo- daro, granary.	2/28/2025		
	Ancient Greece: History	3/5/2025		
	evolution and characteristics.	3/6/2025		
	Classical Orders	3/7/2025		
	Classical Orders (assignmentNo.2)	3/12/2025		
	Parthenon,	3/13/2025		
	Acropolis, Agora.	3/19/2025		
	Ancient Rome: History,	3/20/2025		Proposed C.T-I
evolution and characteristics.	3/21/2025			
Roman classical orders,	3/26/2025			
Pantheon, Coliseum	3/27/2025			

<b>UNIT-IV Buddhist: History, evolution and characteristics. Major typologies; Stupa, Chaitya Hall, Vihara.</b>	Vedic Period:	3/28/2025		
	Vedic Village	4/2/2025		
	building materials and construction techniques	4/3/2025		
	building materials and construction techniques	4/4/2025		
	building materials and construction techniques	4/9/2025		
	Buddhist period	4/10/2025		
	History, evolution and characteristics	4/11/2025		
	stupas	4/16/2025		
	stupas	4/17/2025		
	Chaitya Hall, Vihara.	4/23/2025		
	Chaitya Hall, Vihara.	4/24/2025		
<b>UNIT-V Temple architecture: Evolution of architectural style, major influences on the development of form and other architectural elements. Detailed study of Nagara and Dravidian style temples. (at least 2 examples each</b>	Temple architecture:	4/25/2025		
	Evolution of architectural style	4/30/2025		
	Evolution of architectural style	5/1/2025		
	influences on the development of form	5/2/2025		
	influences on the development of form	5/7/2025		
	Nagara style temples	5/8/2025		
	Nagara style temples	5/9/2025		
	Nagara style temples	5/14/2025		
	Nagara style temples	5/15/2025		
	Nagara style temples	5/16/2025		
	Dravidian style temples.	5/21/2025		
	Dravidian style temples.	5/22/2025		
	Dravidian style temples.	5/23/2025		
Dravidian style temples.	5/28/2025			



SUBJECT TEACHER

(Bandua Dixit)



HOD ARCH. DEPT.



## LESSON PLAN

Program Name	DIPLOMA (Architecture Assistantship.)
Course/Subject Name	Computer Application in Architecture
Course/Subject Code	ARPC-2006
Course/Subject Coordinator Name	Shilpa

### Evaluation scheme

S.No.	Subject Name	Study Scheme Hours/week	Marks in evaluation scheme	
			Internal Assessment	External Assessment
1.	Computer Application in Architecture	4	40	60
Reference books			- Fundamentals of Computer by V Rajaraman	
			- Information Technology for Management by Henery Lucas	
			- Computers Fundamentals Architecture and Organisation	
			- Fundamentals of Information Technology Vipan Arora Eagle Parkashan	

### Course Outcomes:

After the completion of the course the students will be able to comfortably work on computers, install and configure operating systems, assemble a PC and connect it to various external devices, create documents, create worksheets, prepare presentations, protect information and computers from basic abuses/attacks.

**Lab Plan:**

Pract. No.	Name of Practical	Proposed date	Actual date	Remarks
1	Given a PC, name its various components and peripherals. List their functions	27.01.2025		
1	Continue	30.01.2025		
2	Installing various components of computer system and installing system software and application software.	03.02.2025 06.02.2025		
2	Continue	10.02.2025		
3	Installation of I/O devices, printers and installation of operating system viz Windows/BOSS/LINUX	13.02.2025 17.02.2025		
3	Continue	20.02.2025		
4	Features of Windows as an operating system Start.  <input type="checkbox"/> Shut down and restore.  <input type="checkbox"/> Creating and operating on the icons.  <input type="checkbox"/> Opening, closing and sizing the windows and working with windows interfacing elements (option buttons, checkbox, scroll etc.).	24.02.2025		
4	Using elementary job commands like – creating, saving, modifying, renaming, finding and deleting a file and folders.  <input type="checkbox"/> Changing settings like, date, time, color (back ground and fore ground etc.).  <input type="checkbox"/> Using short cuts.  <input type="checkbox"/> Using on line help	27.02.2025		
5	Word Processing (MS Office/Open Office) File Management: <input type="checkbox"/> Opening, creating and saving a document, locating files, copying	03.03.2025		



5	<p>Using Tools like:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Spell checker, help, use of macros, mail merge, thesaurus word content and statistics, printing envelopes and labels</li> <li><input type="checkbox"/> Using shapes and drawing toolbar,</li> <li><input type="checkbox"/> Working with more than one window</li> </ul>	27.03.2025 03.04.2025	
6	<p>Spread Sheet Processing (MS Office/Open Office)</p> <p>Starting excel, open worksheet, enter, edit, data, formulae to calculate values, format data, save worksheet, switching between different spread sheets</p> <p>b. Menu commands:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Create, format charts, organize, manage data, solving problem by analyzing data. Programming with Excel Work Sheet, getting information while working</li> </ul>	07.04.2025 10.04.2025	
6	<p>Work books:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Managing workbooks (create, open, close, save), working in work books, selecting the cells, choosing commands, data entry techniques, formula creation and links, controlling calculations</li> <li><input type="checkbox"/> Editing a worksheet, copying, moving cells, pasting, inserting, deletion cells, rows, columns, find and replace text, numbers of cells, formatting worksheet, conditional formatting.</li> </ul>	17.04.2025 21.04.2025	
6	<p>Creating a chart:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Working with chart types, changing data in chart, formatting a chart, use chart to analyze data.</li> <li><input type="checkbox"/> Using a list to organize data, sorting</li> </ul>	24.04.2025	

	and filtering data in list.			
6	<p>Retrieve data with query:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Create a pivot table, customizing a pivot table. Statistical analysis of data.</li> </ul> <p>f. Exchange data with other application:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Embedding objects, linking to other applications, import, export document.</li> </ul>	27.03.2025 03.04.2025		
7	<p>Power Point Presentation (MS Office/Open Office)</p> <p>a. Introduction to PowerPoint</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How to start PowerPoint</li> <li><input type="checkbox"/> Working environment: concept of toolbars, slide layout &amp; templates.</li> <li><input type="checkbox"/> Opening a new/existing presentation</li> <li><input type="checkbox"/> Different views for viewing slides in a presentation: normal, slide sorter</li> </ul>	07.04.2025 10.04.2025		
7	<p>Power Point Presentation (MS Office/Open Office)</p> <p>a. Introduction to PowerPoint</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> How to start PowerPoint</li> <li><input type="checkbox"/> Working environment: concept of toolbars, slide layout &amp; templates.</li> <li><input type="checkbox"/> Opening a new/existing presentation</li> <li><input type="checkbox"/> Different views for viewing slides in a presentation: normal, slide</li> </ul>	17.04.2025 21.04.2025		
7	<p>Formatting slides</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Using slide master</li> <li><input type="checkbox"/> Text formatting</li> <li><input type="checkbox"/> Changing slide layout</li> <li><input type="checkbox"/> Changing slide color scheme</li> <li><input type="checkbox"/> Changing background</li> <li><input type="checkbox"/> Applying design template</li> </ul>	24.04.2025 28.04.2025		
7	How to view the slide show?	01.05.2025		



	<input type="checkbox"/> Viewing the presentation using slide navigator <input type="checkbox"/> Slide transition <input type="checkbox"/> Animation effects, timing, order etc.	05.05.2025		
7	Internet and its Applications a. Establishing an internet connection. b. Browsing and down loading of information from internet.	08.05.2025		
8	c. Sending and receiving e-mail <input type="checkbox"/> Creating a message <input type="checkbox"/> Creating an address book <input type="checkbox"/> Attaching a file with e-mail message <input type="checkbox"/> Receiving a message <input type="checkbox"/> Deleting a message d. Assigning IP Addresses to computers and use of domain names.	15.05.2025 19.05.2025		
9	Functioning of Antivirus <input type="checkbox"/> Installation and updation of an antivirus. <input type="checkbox"/> How to scan and remove the virus.	19.05.2025. 22.05.2025		
10	To remove temporary files	26.05.2025		

*Swati*

(Signature of Teacher)

*[Handwritten Signature]*

(Signature of HOD)