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

LESSON PLAN

Program Name	Architecture Assistantship	
Subject Name	Architecture Design-II	
Subject Code	ARPC-2001	
Semester	2nd	
Subject Teacher Name	Vipin Kumar	

Evaluation Scheme

		Study scheme (Hrs/Week)		Marks in Evaluation Scheme						
Sr.	Subject Name			Internal Assessment			External Assessmen			
No	Subjectiving	Th	Pr	Th	Pr	Total	Th	Pr	Total	
1.	Architecture Design-II	1	6	40	-	40	60	•	60	
	Building drawing with an integrated approach to E Environment", M. G. Shah, C. M. Kale, Time-saver Standards for Architectural Design Data: The Reference									
Ref	erence Books	of Ar	saver Sta chitectur	ndards 1 al Func	for Arch Iamenta	itectural als", Don	Design D ald Wat	son, McG	ererence Graw-Hill	

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	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-1 Integration of form	Introduction to Project (One project from unit) through Lecture and Internet Study	29/01/24	1.5	
and function in the	Library Study Preparation (Report Writing)	30/01/24		
design of single use space	Library Study Presentation (Submission)	01/02/24 (n)		
with simple	Case Study Visit (Report Writing)	01/02/24		
function like florist, kiosk,	Case Study Presentation (Submission)	05/02/24		
gift/souvenir shop,	Design Work Preparation (Drawing Work)	06/02/24		
bus shelter, milk	Design Work Preparation (Drawing Work)	08/02/24 (%)		2
booth, Guard cabin, cycle stand,	Design Work Preparation (Drawing Work)	12/02/24		
entrance gate, traffic police kiosk, ATM Centre etc.	Design Work Presentation with Detailed Plan, Elevation, Section and 3D View with Color Rendering (Final Submission)	13/02/24 &15/02/24 (74)		

UNIT-II Designing of space	Introduction to project (One from Unit through Lecture and Internet	19/02/24	
besigning of space	Study)		
for small groups	Library Study Preparation (Data collection)	20/02/24	
and minor	Library Study Preparation (Report Writing)	22/02/24 (11.)	
activities with	Library Study Preparation (Report Writing)	26/02/24	
reference to site	(Submission)		
conditions and	Case Study (Visit and Data Collection)	29/02/24 (Th)	
materials. The	Case Study Preparation (Report Writing)	4/03/24	
student should be	Case Study Preparation (Report Writing)	5/03/24	
guided to achieve	Case Study Presentation (Submission)	7/03/24 (14)	
necessary	Design Work (Site Analysis drawing Work)	11/03/24	
relationship	Design Work (Site analysis drawing work)	12/03/24	
between indoor	Design Work (Concept, Drawing Work)	14/03/24 (Th)	Class Test 1
and outdoor	Design Work (Single Line Drawing)	18/03/24	Schedule
spaces and to	Design Work (Single Line Drawing)	19/03/24	
spaces and to	Design Work (Single Line Drawing)	21/03/24 (74)	
understand the	Gazetted Holiday	25/03/24	HOLI
role of elements of	Design Work (Single Line Drawing) Design Work Presentation (Pre	26/03/24 28/03/24 (Th)	
	Limnary Submission) Stage 1	01/04/24	
structure in a built	Design Work (Presentation Drawing) Design Work (Presentation Drawing)	02/04/24	
	Design Work (Presentation Drawing)	04/04/24 (Th)	
form such as, Post-	Design Work (Presentation Drawing) Design Work (Presentation Drawing)	08/04/24	
	Design Work (Presentation Drawing)	09/04/24	
Office, Crèche,	Gazetted Holiday	11/04/24	Id-ul-fitr
Dispensary, library	Gazetted Holiday	15/04/24	Himachal Diwas
etc.	Design Work (Presentation Drawing)	16/04/24	
	Design Work Presentation (Pre Final Submission) Stage 2	18/04/24 (1)	Class Test 2
	Design Work (Presentation Drawing)	22/04/24	Schedule
	Design Work (Presentation Drawing)	23/04/24	
4 1 2 4 4	Design Work (Presentation Drawing)	25/04/24 (Tr)	
	Design Work (Presentation Drawing)	29/04/24	1 de 200 1 1
	Design Work (Presentation Drawing)	30/04/24	1904
	Design Work (Presentation Drawing)	02/05/24(Th)	

	Design work presentation (Final Submission stage 3)	07/05/24	
	Model Submission	09/05/24 (1)	
UNIT-III Study of a building/monume	Presentation on Historical Monuments of Architectural Importance in India (Digital Methods)	13/05/24	
nt of an architectural importance in local area. Site visits,	Presentation on Historical Monuments of Architectural Importance in World (Digital Methods)	14/05/24	
	Local visit to Historical Monument and Data collection cum compilation (1 day Tour)	16/05/24 (Tr)	House test
documentation through text,	Study report writing	20/05/24	Solicatio
photography, Drawings.	Study Report Submission	21/05/24	
	Gazetted Holiday	23/05/24	Budha Poornima

Assignments

Assignment No	Contents of Syllabus Covered	Proposed Date	Actual Date	Remarks
A-1(a)	UNIT -1	1/02/24		
A-1(b)		5/02/24		
A-1(c)		15/02/24		
A-2 (a)		27/02/24		
A-2 (b)		07/03/24		
A-2 (c .1)	UNIT-2	28/03/24		
A-2 (c.2)	,	18/04/24		
A-2 (c.3)		6, 7, 9/05/24		
A-3	UNIT -3	21/05/24		

House Test/Class Test

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

QJ-A Subject Teacher

			-			of Architecture	ato.		
			D			vt. Polytechnic, Ambo H.P.) - 177205	ota,		
						ON PLAN			
rogran	m Name					e Assistantship			
	Name					MATERIAL & CONS	TRUCTION-I		
	Code				ARPC - 20	002			
emes					Second				
	Teacher Name	9			Rajinder K	umar			
valuation Scheme Study scheme Marks in				Morks in Eve	luction Scheme				
	6 11 13				Internal Ass		_	ternal Assessmen	t
Sr. No	Subject Name	(Hrs/\ Th	Pr	Th	Pr Pr	Total	Th	Pr	Total
	Building			40	40	80	60	60	120
1	Material & Construction-I	1	6	40	40	80	00		
\eferen	ce Books								
							M.		
	Outcomes (CO				hall be familie	r with basic component	s of a building		
CO – 1	Upon completion	on of the c	ourse, the	student sh	ndii be familia	r with basic component of the basic building ma	aterial like bric	k,stone, cement e	etc. and would g
CO - 2	The course sha	II prepare	students to	gain an u	inderstanding	Of the basic building in	aterial line arre	,	
	an exposure of	various bo	onas in bric	KS and Sto	Jile Illasofii y.				
Teach	ing Plan	U					Proposed	Actual Date	Remarks
Chapters		Name	Name of Topic			Actual Date			
	•	5		f a "buildir	na" (m.)		Date 29/1/2024		
		Basic components of a "building" (TH.)					30/1/2024		
		Drawing from foundation to roof.							
			Drawing from foundation to roof. (DCS)						
		The Charles of the Control of the Co					31/1/2024		
		Drawing f	rom founda	ation to ro	of.	(7.)	2/2/2024		
	. I Commont	Drawing f Basic bui	rom founda	ition to ro ials- brick	of. c, stone, <i>l</i>	TH·)	2/2/2024 5/2/2024		
UNIT	-I Component	Drawing f Basic bui Stretche	rom founda Iding mater r bond-En	ation to ro ials- brick glish bon	of. k, stone, <i>l</i>		2/2/2024 5/2/2024 6/2/2024		
UNIT	T-I Component of Building	Drawing f Basic bui Stretche Stretche	rom founda Iding mater r bond-Engripond-Engripond	ation to ro ials- brick glish bon glish bon	of. k, stone, / nd- nd- (DCS)		2/2/2024 5/2/2024		
UNIT	-I Component of Building	Drawing f Basic buil Stretche Stretche	rom founda Iding mater r bond-Eng r bond-Eng	ation to ro ials- brick glish bon glish bon	of. k, stone, land- nd- (DCS) nd-)	2/2/2024 5/2/2024 6/2/2024 7/2/2024		
UNIT	T-I Component of Building	Drawing f Basic bui Stretche Stretche Stretche	rom founda Iding mater r bond-En r bond-En r bond-En sand, cor	ation to ro ials- brick glish bon glish bon glish bon acrete. A	of. c, stone, (nd- nd- nd- nd- nd- nd- nd- nd- nd- nd-)	2/2/2024 5/2/2024 6/2/2024 7/2/2024 9/2/2024		
UNIT	T-I Component of Building	Drawing f Basic buil Stretche Stretche Stretche Cement, Single &	rom founda lding mater r bond-En- r bond-En- r bond-En- sand, cor Double F	ation to ro ials- brick glish bon glish bon glish bon ncrete. A	of. k, stone, (nd- nd- nd- nd- nd- nd its Application	ation, (Th·)	2/2/2024 5/2/2024 6/2/2024 7/2/2024 9/2/2024 12/2/2024 13/2/2024 14/2/2024		
UNIT	T-I Component of Building	Drawing f Basic bui Stretche Stretche Stretche Cement, Single &	rom founda lding mater r bond-En- r bond-En- r bond-En- sand, cor Double F	ation to ro ials- brick glish bon glish bon glish bon ncrete. A Temish b	of. c, stone, d- nd- nd- nd- nd- nd- ndits Application bond cond cond cond cond cond cond cond cond cond	ation, (Th·)	2/2/2024 5/2/2024 6/2/2024 7/2/2024 9/2/2024 12/2/2024 13/2/2024 14/2/2024 16/2/2024		
UNIT	-I Component of Building	Drawing f Basic bui Stretche Stretche Stretche Cement, Single & Single &	rom founda lding mater r bond-En- r bond-En- sand, cor Double F Double F	ation to ro ials- brick glish bon glish bon crete. A Temish b Temish b	of. c, stone, d- nd- nd- nd- nd (DCS) nd- nd its Application bond bond fects of sun,	ation, (Th.)	2/2/2024 5/2/2024 6/2/2024 7/2/2024 9/2/2024 12/2/2024 13/2/2024 14/2/2024 16/2/2024 19/2/2024		
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U	of Building	Drawing f Basic bui Stretche Stretche Stretche Cement, Single & Single & Propertie Drawing	rom foundalding mater bond-Engr bond-Engr bond-Engr bond-Engr bond-Engr bouble Foundle	ation to ro ials- brick glish bon glish bon glish bon ncrete. A Temish b Te	of. A, stone, Add- nd- nd- nd- nd- nd- nd- nd	rain, wind (Th.) rain, wind (Th.) nction nction (CCS) nction (CCS) Assignment-I (Th.)	2/2/2024 5/2/2024 6/2/2024 7/2/2024 9/2/2024 12/2/2024 13/2/2024 14/2/2024 16/2/2024 20/2/2024 21/2/2024 23/2/2024 26/2/2024 27/2/2024 28/2/2024 1/3/2024 4/3/2024 5/3/2024		
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U	of Building	Drawing f Basic bui Stretche Stretche Stretche Cement, Single & Single & Single & Propertie Drawing	rom foundalding mater bond-Engr bond-Engr bond-Engr bond-Engr bond-Engr bond-Engr bouble Foundle Found	ation to ro ials- brick glish bon glish bon glish bon crete. A Temish b Tem	of. A, stone, And- Ind- Ind- Ind- Ind- Ind- Ind- Ind-	rain, wind (Th.) rain, wind (Th.) nction nction (DCS) nction rials (Th.) (DCS) Assignment-I (Th.)	2/2/2024 5/2/2024 6/2/2024 7/2/2024 9/2/2024 12/2/2024 13/2/2024 14/2/2024 16/2/2024 20/2/2024 21/2/2024 23/2/2024 26/2/2024 27/2/2024 28/2/2024 1/3/2024 4/3/2024 6/3/2024 8/3/2024		

	Drawings of Bull-	
	Drawings of Rubble walling	15/3/2024
	Types and application of the paint and varnishes (7%)	18/3/2024
	Drawings of Rubble walling Class Test-I	19/3/2024
		20/3/2024
	Drawings of Rubble walling	22/3/2024
	Gazetted Holiday	25/3/2024
	Drawings of Polygonal walling	26/3/2024
	Drawings of Polygonal walling (DCS)	27/3/2024
	Gazetted Holiday	29/3/2024
JNIT-III Brick	Introduction to popular brand names. (74)	1/4/2024
Masonry	Drawings of Polygonal walling	2/4/2024
	Drawings of Polygonal walling (DCS)	3/4/2024
	Drawings of Polygonal walling	5/4/2024
	Various types of bonding in walls (7n-)	8/4/2024
	Drawings of Flint walling	9/4/2024
	Drawings of Flint walling (DLS)	10/4/2024
	Drawings of Flint walling	12/4/2024
	Gazetted Holiday	15/4/2024
	Drawings of Flint walling	16/4/2024
	Gazetted Holiday	17/4/2024
	Class Test-II	19/4/2024
<u> </u>	Stone masonry (741)	22/4/2024
	Drawings of Flint walling	23/4/2024
	Drawings of Flint walling (DCS)	24/4/2024
	Drawings of Flint walling	26/4/2024
	Rubble walling, Polygonal walling & Assignment-II (74.)	29/4/2024
	Drawings of Ashlars walling	30/4/2024
	Drawings of Ashlars walling (DCS)	1/5/2024
	Drawings of Ashlars walling	3/5/2024
	Drawings of Ashlars walling (74.)	6/5/2024
UNIT-IV Stone	Masonry joints, Stone arches	7/5/2024
Masonry	Masonry joints, Stone arches (DCS)	8/5/2024
(Maconin)	Gazetted Holiday	10/5/2024
	House Test	13/5/2024
	House Test	14/5/2024
	House Test	15/5/2024
	House Test	17/5/2024
	Masonry joints, Stone arches etc. (Th)	20/5/2024
	Masonry joints, Stone arches etc.	21/5/2024
	Masonry joints, Stone arches etc. (DCS)	22/5/2024
	Masonry joints, Stone arches etc.	24/5/2024

Sig. of Teacher

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

s		Study scheme			Marks in Evaluation Scheme					
r	Subject Name	(Hrs/Week)				Internal ssessment		External Assessmen		
0		T h	Pr	T h	P r	T ot al	T h	Pr	To tal	
1	History of Architecture-I	3	0	4 0	-	40	6	•	60	
		Percy Brown, "Indian Architecture: Buddhist and Hindu Periods", D. B. Taraporevala,1965.								
K	eference Books	History	Of Architecture by G.K. Hiras	skar.						

Course Outcomes (COs)

CO - 1	student will be able to develop a keen appreciation of our heritage buildings leading to
CO-1	the understanding that architecture is the product of a particular culture, time and place.
CO-2	building art and construction techniques helps an architecture student to develop designs
CO-2	that are rooted in the country.

Teaching Plan

Teaching Plan	Name of Topic	Proposed Date	Actual Date	Remarks
UNIT-1	Introduction to the subject	31/01/24		
Factors influencing	Factors influencing the architectural character of any place;	1/02/24		
the architectural	Geographic, Climatic,	03/02/24		
character of any place; Geographic,	Socio-cultural, Religious, Economic, etc.	07/02/24		
Climatic, Socio-	Ancient Mesopotamia: History	08/02/24		A
cultural, Religious,	HOLIDAY	10/02/24		Second Saturday
Economic, etc. Ancient	evolution and characteristics (assignmentNo.1)	14/02/24		
Mesopotamia	Ancient Egypt: History	15/02/24		4
Egypt and Indus Valley Civilization.	Mastabas	17/02/24		

	Pyramid of Giza	21/02/24	(assignmentNo.1 submission
UNIT-I Ancient Mesopotamia:	Indus Valley Civilization: City planning	22/02/24	
Egypt and Indus Valley civilization.	HOLIDAY	24/02/24	Ravidas Jayanti
	Domestic Architecture. Building materials and construction techniques	28/02/24	
	Domestic Architecture. Building materials and construction techniques	29/02/24	
	Bath, Mohenjo- daro, granary.	02/03/24	
	Ancient Greece: History	02/03/24	
	evolution and characteristics.	06/03/24	
UNIT-II Ancient Greece:	Classical Orders	07/03/24	
History, evolution and characteristics.	HOLIDAY	09/03/24	Second Saturday
Example: Classical Orders,	Classical Orders (assignmentNo.2)	13/03/24	
Parthenon, Acropolis, Agora.	Parthenon,	14/03/24	Proposed C.TI
Ancient Rome: History, evolution and	Acropolis, Agora.	16/03/24	
characteristics. Example: Roman	Ancient Rome: History,	20/03/24	
classical orders, Pantheon,	evolution and characteristics.	21/03/24	assignmentNo.2 submission
Coliseum.	Roman classical orders,	23/03/24	
	Pantheon, Coliseum	27/03/24	
UNIT-III	Vedic Period:	28/03/24	
	Vedic Village	30/03/24	

UNIT-I	Pyramid of Giza	21/02/24	(assignmentNo.1) submission
Ancient Mesopotamia:	Indus Valley Civilization: City planning	22/02/24	
Egypt and ndus Valley ivilization.	HOLIDAY	24/02/24	Ravidas Jayanti
-	Domestic Architecture. Building materials and construction techniques	28/02/24	
	Domestic Architecture. Building materials and construction techniques	29/02/24	
	Bath, Mohenjo- daro, granary.	02/03/24	
	Ancient Greece: History	02/03/24	
	evolution and characteristics.	06/03/24	
UNIT-II Ancient Greece:	Classical Orders	07/03/24	
History, evolution and characteristics.	HOLIDAY	09/03/24	Second Saturday
Example: Classical Orders,	Classical Orders (assignmentNo.2)	13/03/24	
Parthenon, Acropolis, Agora.	Parthenon,	14/03/24	Proposed C.TI
Ancient Rome: History, evolution and	Acropolis, Agora.	16/03/24	
characteristics. Example: Roman	Ancient Rome: History,	20/03/24	
classical orders, Pantheon,	evolution and characteristics.	21/03/24	assignmentNo.2 submission
Coliseum.	Roman classical orders,	23/03/24	
	Pantheon, Coliseum	27/03/24	
UNIT-III	Vedic Period:	28/03/24	
	Vedic Village	30/03/24	

Dravidian style temples.	18/05/24	
Dravidian style temples.	22/05/24	
HOLIDAY	23/05/24	Parsuram jayanti
Dravidian style temples.	25/05/24	

ASSIGNMENTS:

Assignment No.	Content of syllabus covered	Proposed Date	Actual Date	Remarks
No.1	UNIT-I	21/02/24		
No.2	UNIT-II	21/03/24		

CLASS TEST/HOUSE TEST:

TEST	Syllabus	Proposed Date	Actual Date	Remarks
Class Test-I	UNIT-I	As per HPTSB Academic		- 1 He
Class Test-II	UNIT-II &UNIT-III	Schedule		
House Test	ALL UNITS	1 1		

Subject Teacher:

Benches Discit)

			-			of Architecture	M. 777 W		
			U			ovt. Polytechnic, A	Ambota,		
						H.P.) - 177205			
Progra	m Name					ON PLAN			
	t Name					re Assistantship			
	t Code				SURVEYIN ARPC - 20				
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	t Teacher Nan	ne			Rajinder K	umar			
	ion Scheme				[Kajinder K	umai			
		Study	scheme			Marks in	Evaluation Sche	me	
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		Th	Pr	Th	Pr	Total	Th	Pr	Total
1	Surveying	2	2	40	40	80	60	60	120
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Course	Outcomes (COs	Surveying"			nkatramaiah, Iishsers, 2002	Orient Blackswan 2	; Second edition	, 2011. "A Textb	ook of Advan
CO – 1	Student will ur	Surveying"	, R. Agor, K	hanna Pub	lishsers, 2002				ook of Advan
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CO – 1 Teachin	Student will ur g Plan Chapters	Introductio Map and P Practical: I survey.	ne importar on to survey Plan, its Sca	Name of survives ale and use to the Diff	ey in mapping of Topic principles. Ty es.	g the topography w ypes of surveying,	Proposed Date 29/01/2024	test equipment.	
CO – 1 Teachin	Student will ur	Introductio Map and P Practical: I survey. Sources of approxima	ne importar on to survey Plan, its Sca	Name of surviving and its ale and use to the Diffurvey-linear.	ey in mapping of Topic principles. Ty es. ferent chains	g the topography w ypes of surveying, used in chain ent: accurate and	Proposed Date 29/01/2024 31/01/2024	test equipment.	
CO – 1 Teachin	Student will ur g Plan Chapters	Introduction Map and F Practical: I survey. Sources of approxima Chain Survey.	ne importar on to survey Plan, its Sca Introduction f errors in s te methods veying: Intro	Name of survey linear to the Diffurvey-linear coduction, p	ey in mapping of Topic principles. Ty es.	g the topography w ypes of surveying, used in chain ent: accurate and	Proposed Date 29/01/2024	test equipment.	
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4/3/2024 6/3/2024

8/3/2024

11/3/2024 13/3/2024

15/3/2024 18/3/2024

20/3/2024

22/3/2024 25/3/2024

27/3/2024

29/3/2024

Setting, advantages and disadvantages Compass Surveying & Assignment -I Practical: Introduction to the Plane Tabling.

Advantages and disadvantages of Compass Survey

Gazetted Holiday

Class Test-I

Introduction, uses, method,

Practical: Plane Tabling.

Practical: Plane Tabling.

Practical: Plane Tabling.

Gazetted Holiday

Gazetted Holiday

Contouring and its Characteristics,

UNIT-II Plane

Tabling & Compass

Surveying

	Uses, methods, interpolation of contours.	1/4/2024	
	Practical: Plane Tabling.	3/4/2024	
	Leveling: Definitions, types, parts of dumpy level	5/4/2024	
	Leveling: Definitions, types, parts of dumpy level	8/4/2024	
	Practical: Introduction to the Compass Surveing	10/4/2024	
	Adjustments, types of leveling staff & Assignment-II	12/4/2024	
JNIT-III Contouring	Gazetted Holiday	15/4/2024	
or in Contouring	Gazetted Holiday	17/4/2024	
	Class Test-II	19/4/2024	
	Reducing by rise and fall method and height of collimation method.	22/4/2024	
	Practical: Leveling.	24/4/2024	
	Basic concepts of Photogrammetry	26/4/2024	
	Introduction to use of Digital Surveying –Instruments	29/4/2024	
	Practical: Leveling.	1/5/2024	
	Introduction to distomat – total station	3/5/2024	
	Introduction to Electronic Theodolite	6/5/2024	
	Practical: Leveling.	8/5/2024	
UNIT-IV Basic	Gazetted Holiday	10/5/2024	
concepts of	House Test	13/5/2024	
Photogrammetry	House Test	15/5/2024	
	House Test	17/5/2024	
	Introduction to G.P.S. Remote sensing.	20/5/2024	
	Practical: Introduction to the letest instruments used in survey.	22/5/2024	
	Geographical Information systems and their applications	24/5/2024	

Sig. of Teacher

Sig. of H.O.D.

LESSON PLAN

Program Name	DIPLOMA IN ARCHITECTURE ASSISTANTSHIP
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		Marks in e	evaluation s	scheme
		(Hrs/Week)	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 			
					shing House	Mathematics, e, New Delhi
			(4) V. La	Sundaram, akshminaray	R. Balasub anan, Engir	ramanian, K.A. neering Publishing House
			` Ac		gineering M	Prasad athematics, e, 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	Remark s
1	Matrices and Determinants : Matrices	30/01/24		
2	Algebra of matrices	31/01/24		dan te
3	Determinants, Value of determinants of 2nd & 3rd	01/02/24		

	order				
4	DCS	02/02/24			
5	DCS	03/02/24	1		
6	Adjoint of a matrix	06/02/24	-91 (2) 50	109kg .	
7	Inverse of a matrix	07/02/24	1		
8	Crammer's rule for solving two variables and three variables linear equations	08/02/24		1 - 1 - 1 - 1 - 1	
9	DCS	09/02/24			
10	Crammer's rule for solving two variables and three variables linear equations	13/02/24			
11	Matrix inverse method to solve a system of linear equations in two and three variables	14/02/24			
12	Matrix inverse method to solve a system of linear equations in two and three variables	15/02/24			
13	DCS	16/02/24			
14	DCS	17/02/24			
15	Vector Algebra : Definition, notation and rectangular resolution of a vector	20/02/24			
16	Addition and subtraction of vectors.	21/02/24			
17	Scalar and vector products of two vectors.	22/02/24			
18	DCS	23/02/24			
119	Trigonometry : Concept of angles	27/02/24			
20	measurement of angles in degrees, grades and radians and their conversions.	28/02/24			
21	T-Ratios of Allied angles.	29/02/24			
22	DCS	01/03/24			
23	DĊS	02/03/24			
24	T-Ratios of Allied angles.	05/03/24	Trans		
25	Graphs of Sin x, Cos x and Tan x	06/03/24			
26	Graphs of Sin x, Cos x and Tan x	07/03/24			
27	Differential Calculus: Important formulae of Differentiation	12/03/24			
28	Important formulae of Differentiation	13/03/24	T L.T.	- 1 (2.04g)	
29	Rules for Differentiation	14/03/24			
30	DCS	15/03/24	To the second	1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
31	DCS	16/03/24			
32	Class test-1	19/03/24	read days		
33	Rules for Differentiation	20/03/24	11 - 3 4 20 40 40 4		
34	Differentiation of sum, product and quotient of functions	21/03/24			
35	DCS	22/03/24			

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Assignments:

Assignment serial	Contents of syllabus covered	Proposed Date	Actual date	Remarks
A-1 ,	Matrices and Determinants, Vector algebra & Trigonometry	11/03/24		
A-2	Differential and Integral calculus	26/04/24		1144

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed Date	Actual date	Remark s
CT-I	30% of the syllabus	3 rd week of March 2024		
CT-II	Next 30% of the syllabus	3 rd week of April 2024	,	
House Test	80% of the syllabus	3 rd week of May 2024		

Signature of Teacher
Dr. Reena Kumali

LESSON PLAN

Program Name	DIPLOMA (Architecture Assistantship)
Course/Subject Name	Computer Applications in Architecture-I
Course/Subject Code	ARPC - 2006
Course/Subject Coordinator Name	Subhash Chander

Evaluation scheme

S.	Subject Name	Study	Marks in eva	luation scheme
No.		Scheme Hours/week	Internal Assessment	External Assessment
1.	Computer Applications in Architecture-I Lab	4	40	60
Refer	ence books		l	omputer by V Rajaraman a Pvt. Ltd., New Delhi.
	1		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	logy for Management by McGraw Hills, NewDelhi
			Organisation by B	nentals Architecture and Ram, revised Edition, New ablishers, New Delhi.
42			THE RESERVE TO SELECT THE PROPERTY OF THE PROP	n Computers by Sanjay Publishing House Pvt Delhi.
La la			(v) On Your Marks - N in an e-world by Ar Hall of India Pvt. Ltd	nushka Wirasinha,Prentice
	Frank van van en en		(vi) Computer Fundame Publication, New De	
			(vii)Fundamentals of In Vipin Arora, Eagle P	The state of the s

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:

Exp.	Name of experiment	Proposed	Actual	Remarks
No.		date	date	
1	Given a PC, name its various components and peripherals.	29/01/2024		
	List their functions			
1	Continue	03/02/2024		
2	Installing various components of computer system and	05/02/2024		
	installing system software and application software			
2	Continue	12/02/2024		/=
3	Installation of I/O devices, printers and installation of	17/02/2024		
3	operating system viz. Windows/BOSS/LINUX			
4	Features of Windows as an operating system Start, Shut	19/02/2024		
1000	down and restore, Creating and operating on the icons,			
	Opening, closing and sizing the windows and working with			
	windows interfacing elements (option buttons, checkbox,			
	scroll etc.).			
4	Using elementary job commands like - creating, saving,	26/02/2024		
•	modifying, renaming, finding and deleting a file and folders.			
	Changing settings like, date, time, color (background and			
	foreground etc.). Using shortcuts. Using online help.			
5	Word Processing (MS Office/Open Office)	02/03/2024		
5	a. File Management: Opening, creating and saving a document,			= 10
	locating files, copying contents in some different file(s),			143
	protecting files, giving password protection for a file.			
5	b. Page setup: Setting margins, tab setting, ruler, indenting	04/03/2024		
3	c. Editing a document: Entering text, cut, copy, paste using tool-			
	bars		1	
-	d. Formatting a document: Using different fonts, changing fon	11/03/2024	1	
5	size and colour, changing the appearance through	n		
	bold/italic/underlined, highlighting a text, changing case		- 7	-
	bold/italic/underlined, highlighting a text, changing case	`	-	

5	document, inserting bullets and numbering. 50 Formatting paragraph, inserting page breaks and column breaks, line spacing. Use of headers, footers: Inserting footnote, end note, use of comments, auto text. Inserting date, time, special symbols, importing graphic images, drawing tools.	16/03/2024	
3	e. Tables and Borders: Creating a table, formatting cells, use of different border styles, shading in tables, merging of cells, and partition of cells, inserting and deleting a row in a table. Print preview, zoom, page setup, printing options. Using find, replace options.	18/03/2024	
5	f. Using Tools like: Spell checker, help, use of macros, mail merge, thesaurus word content and statistics, printing envelopes and labels. Using shapes and drawing toolbar, Working with more than one window.	23/03/2024	
6	spreadSheet Processing (MS Office/Open Office) a. Starting excel, open worksheet, enter, edit, data, formulae to calculate values, format data, save worksheet, switching between different spreadsheets b. Menu commands: Create, format charts, organize, manage data, solving problems by analyzing data. Programming with Excel WorkSheet, getting information while working	06/04/2024	
6	c. Work books: Managing workbooks (create, open, close, save), working in work books, selecting the cells, choosing commands, data entry techniques, formula creation and links, controlling calculations Editing a worksheet, copying, moving cells, pasting, inserting, deletion cells, rows, columns, find and replace text, numbers of cells, formatting worksheet, conditional formatting. 51	00.0 11.2021	
6	d. Creating a chart: Working with chart types, changing data in charts, formatting a chart, using charts to analyze data Using a list to organize data, sorting and filtering data in a list.		= 1
6	e. Retrieve data with query: Create a pivot table customizing a pivot table. Statistical analysis of data.		

	72 1 14/40	27/04/2024		e belet eg
	f. Exchange data with other applications: Embedding objects, linking to other applications, import, export document.	27/04/2024	4. 1091 14. 1	
7	PowerPoint Presentation (MS Office/Open Office) a. Introduction to PowerPoint: How to start PowerPoint Working environment: concept of toolbars, slide layout & templates. Opening a new/existing presentation Different	29/04/2024		
7	 views for viewing slides in a presentation: normal, slide sorter. b. Addition, deletion and saving of slides c. Insertion of multimedia elements Adding text boxes Adding/importing pictures Adding movies and sound Adding tables and charts etc. Adding organizational chart Editing objects Working with Clip Art 	04/05/2024		
7	d. Formatting slides Using slide master Text formatting Changing slide layout Changing slide color scheme Changing background Applying design template e. How to view the slide show? Viewing the presentation using slide navigator Slide transition Animation effects, timing, order etc.			
8	Internet and its Applications a. Establishing an internet connection. b. Browsing and downloading information from the internet. c. Sending and receiving e-mail Creating a message Creating an address book Attaching a file with e-mail message Receiving a message Deleting a message d. Assigning IP Addresses to computers and use of domain names.			
9	Functioning of Antivirus Installation and updation of an antivirus. How to scan and remove the virus.	20/05/2024	8 . s . s . s . s . s . s . s . s . s .	
10	To remove temporary files	25/05/2024		

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		Marks in evaluation scheme		
		Studyscheme ·	Internal Assessment	External Assessment	
		(Hrs/Week)	Theory	Theory	
1.	Environmental Science	2hr (Th)	40	60	
Refere	nce books		(i) S.C.Sharma&M.P.Poonia, Environmental Studies, KhannaPublishingHouse, New Delhi.		
	4			Understanding Chemistry, s (India) Pvt.Ltd., 2011	
				lementsofEnvironmentl I, Khanna Publishing ni .	
		# Temple	- 1 B)	, Air Pollution & Control, ng House, New Delhi (Edition	

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

CO1	To solve various engineering problems applying ecosystem to produce eco – friendly products
CO2	To use relevant air and noise control method to solve domestic and industrial problems.
CO3	To use relevant water and soil control method to solve domestic and industrial problems
CO4	To recognize relevant energy sources required for domestic and industrial applications
CO5	To Solve local solid and e-waste problems

Teaching Plan:

Lecture No.	Name of topic	Proposed Date	Actual Date	Remarks
1	Unit-1 Ecosystem	2 Toposed Date	Actual Date	Kemarks
	Structure of ecosystem, Biotic &	00111		
	Abiotic components Food chain and	30/01/2024		
	food web			
2	Aquatic (Lentic and Lotic) and			
	terrestrial ecosystem	02/02/2024		
	Carbon, Nitrogen, cycle	02/01/		
3	Sulphur, Phosphorus cycle	06/02/2024		
4	Global warming -Causes, effects,	The state of the s		
	process Green House Effect, Ozone	06/02/2024		1
	depletion.	09/02/2024		
5	Unit- 2 Air and, Noise Pollution	05/02/2007		
	Definition of pollution and	13/02/2024		1 1 1
	pollutant, Natural and manmade	13/02/2009		
	sources of air pollution (Refriger-			
	ants, I.C., Boiler),			
6 .	Air Pollutants: Types, Particulate	16/02/2024		
1000	Pollutants: Effects	10/02/2029		
7	Control of air pollution(Bag filter,			
	Cyclone separator, Electrostatic	20/02/2024		
	Precipitator).			
8	Gaseous Pollution Control:	23/02/2029		
	Absorber, Catalytic Converter,			
	Effects of air pollution due to			
0	Refrigerants, I.C., Boiler			
9	Noise pollution: sources of	27/02/2024		
	pollution, measurement of pollution			
	level, Effects of Noise pollution,			
	Noise pollution (Regulation and Control) Rules, 2000			
10	Unit- 3 Water and Soil Pollution	V-1-100		+
10	Sources of water pollution, Types of	01/03/2024		
	water pollutants,.			
11	Characteristics of water pollutants			
11	Turbidity, pH, total suspended	05/-1		
	solids, total solids BOD and COD:	05/03/2024		
The second	Definition, calculation			
12	Waste Water Treatment: Primary			-
12	methods: sedimentation, froth	12/03/2024		
12	floatation Secondary methods: Activated			-
13	2000	12/03/2024		
	sludge treatment, Trickling filter,		1 3 1 1 3 3	Test and
	Bioreactor,	Later the second	1	



195	water pollution and control act1996.	03/05/2024	
26	Structure and role of Central and state pollution control board.	07/05/2024	
27	Concept of Carbon Credit, Carbon Footprint	21/05/2024	
28	Environmental management in fabrication industry. ISO14000: Implementation in industries, Benefits.	24/05/2024	

House Test/Class Test:

House/Class Test	Contents of syllabus covered	Proposed Date	Actual Date	Remarks
CT-I	30% of the syllabus	3 rd weekofMarch, 2024		
CT-II	Next 30% of the syllabus	3 rd weekofApril, 2024		
House Test	80% of the syllabus	3 rd weekofMay, 2024		
Assignments	Contents of syllabus covered	Proposed Date	Actual Date	Remarks
A-1	Ecosystem, Air and, Noise Pollution			Remarks
A-2	Water and Soil Pollution, Renewable sources of Energy			
A-3	Solid Waste Management, ISO 14000 & Environmental Management			

Signature of teacher
(Swati Bhardwaj)