

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT- 3	Sheet No.1/3
Branch	ARCHITECTURAL ASSISTANTSHIP			Semester	THIRD
Course Code	301	Course Name	ARCHITECTURAL DESIGN I		
Course Outcome1	Student will be able to prepare measured drawing.			Teach Hrs	Marks
Learning Outcome 1	Student will be able to take measurements of building, building components / elements of interior from site following proper steps.			10	10
Contents	<ul style="list-style-type: none"> • Importance and application of measured drawing. • Study construction details and write construction notes from site. • External and internal measurements and prepare sketches. 				
Method of Assessment	Internal - LAB				
Learning Outcome 2	Student will be able to draft measured drawing of measurements taken using proper scale			15	10
Contents	Scale and reproduction of drawings for a given building/element from measurement recorded, presentation techniques, drawings in plans elevations, sections to explain total building.				
Method of Assessment	External : Theory paper				
Course Outcome 2	Student will be able to apply anthropometry to determine area requirements of residential spaces.				
Learning Outcome1	Student will be able to calculate space requirements of various activities in residential spaces.			15	10
Contents	Study of standard anthropometric data for various activities in residential spaces Measurement of common furniture e.g. chairs tables, sofas, dining tables, beds, wardrobe, washbasins, sinks, water closet.etc.				
Method of Assessment	Internal - Progressive Test I				
Learning Outcome2	Student will be able to measure furniture, clear spaces and room sizes of given space using anthropometry.			15	10

Contents	<ul style="list-style-type: none"> • Anthropometric study - Actual measurements of various human activities and body distances to know the space requirements. • Layout of residential spaces e.g. living, drawing, dining, kitchen, study, toilets, etc to a suitable scale, with furniture and fixtures showing the relationship of uses, users, and furniture. • Dimensions of vehicles and space requirement 		
Method of Assessment	External : Theory paper		
Learning Outcome 3	Student will be able to design and draw furniture layout for a given residential space.	15	20
Contents	<ul style="list-style-type: none"> • Develop concept for various residential spaces showing furniture layout. • Presentation of common furniture and fixtures in standard format in plan and elevation 		
Method of Assessment	External : Theory paper		
Course Outcome 3	Student will be able to design small architectural unit / building following planning process.		
Learning Outcome 1	Student will be able to collect and analysis data for a small shelter of about 20sqm for commercial use.	15	20
Contents	Planning process, data from standards and live example for Single volume unit from the following: Food/ Florist Kiosk, Milk booth, Watch man's cabin with compound gate, Public Toilets, Ice cream parlor, Xerox center, ticket counter of cinema hall		
Method of Assessment	Internal - LAB & Progressive Test II		
Learning Outcome 2	Student will be able to enlist spaces and areas and develop bubble diagram for the unit to be designed.	12	20
Contents	<ul style="list-style-type: none"> • Basic human functions and their implications for space requirements for unit to be designed. • Minimum and optimum areas for various functions. • Standards, movement and circulation diagrams. • Spatial interpretations –various activities and their relationship with spaces bubble diagram. 		
Method of Assessment	External : Theory paper		
Learning Outcome 3	Student will be able to develop concept on basis of data collected and analyzed.	15	15
Contents	Presentation drawings plan, elevation, section to explain concept		

Method of Assessment	External : Practical Exam		
Course Outcome 4	Student will be able to design and draw small architectural residential unit.		
Learning Outcome 1	Student will be able to collect and analyze data, workout requirement for 1 & 2 BHK small residential unit.	15	10
Contents	Standard and live example data for residential unit, calculate room sizes, develop, bubble diagram		
Method of Assessment	External - Theory paper		
Learning Outcome2	Student will be able to prepare presentation drawings using appropriate scale.	15	15
Contents	<ul style="list-style-type: none"> • Draw single line plan for residential unit for which data collected. • Presentation drawings for the designed unit, plan, elevation, section. 		
Method of Assessment	External : Practical Exam		
Course Outcome 5	The student will demonstrate leadership, team spirit in group activities, and sincerity towards learning		
Learning Outcome 1	The student will demonstrate leadership, team spirit in group activities, and sincerity towards learning	08	10
Contents	Group activities throughout semester as mentioned under all Learning Outcomes		
Method of Assessment	Internal - Term work		

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code			Course Code			CO Code	LO Code	Format No. 4
					A	0	6	3	0	1	1	1	
COURSE NAME		ARCHITECTURAL DESIGN I											
CO Description		Student will be able to prepare measured drawing.											
LO Description		Student will be able to take measurements of building, building components / elements of interior from site following proper steps.											
SCHEME OF STUDY													
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical /Tut Hrs.	LRs Required	Remarks						
1.1.1	• Importance and application of measured drawing.	• Lecture	•Teacher will demonstrate taking measurements.	10		Chalkboard; Smart board; Measuring tape; Drawing instruments; Design Standard Books							
1.1.2	• Study construction details and write construction notes from site.	• Group Activity	• Teacher will give an overview of the space										
1.1.3	• External and internal measurements and prepare sketches.		• Student group participation for measuring given spaces.										
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment			Maximum Marks	Resources Required					External / Internal		
1	Sketch book preparation	• Practical assignment on the measurement of given space using self measurements			10	• Test paper					Internal - LAB		
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													
NIL													

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	6	3	0	1	1	2	

COURSE NAME	ARCHITECTURAL DESIGN I
CO Description	Student will be able to prepare measured drawing.
LO Description	Student will be able to draft measured drawing of measurements taken using proper scale

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical/ Tut Hrs.	LRs Required	Remarks
1.2.1	Scale and reproduction of drawings for a given building/element from measurement recorded, presentation techniques, drawings in plans elevations, sections to explain total building.	<ul style="list-style-type: none"> Lecture Group Activity 	<ul style="list-style-type: none"> Teacher will demonstrate making scaled drawings Students will be asked in groups to collect and compare data from books and case studies Student will draft measured drawing of given building /element in proper scale. 	15		Chalkboard; Smart board; Measuring tape; Drawing instruments; Handouts; Catalogues; Design Standard Books	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Portfolio	• layout design assignments MCQ and objective type questions on standard data related to spaces	15	• Test paper	External : Theory paper

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY
(IF ANY)**

NIL

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	6	3	0	1	2	1	

COURSE NAME	ARCHITECTURAL DESIGN I
CO Description	Student will be able to apply anthropometry to determine area requirements of residential spaces.
LO Description	Student will be able to take measurements of building, building components / elements of interior from site following proper steps.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical/ Tut Hrs.	LRs Required	Remarks
2.1.1 2.1.2	<ul style="list-style-type: none"> Study of standard anthropometric data for various activities in residential spaces. Measurement of common furniture e.g. chairs tables, sofas, dining tables, beds, wardrobe, washbasins, sinks, water closet.etc. 	<ul style="list-style-type: none"> Lecture Group Activity 	<ul style="list-style-type: none"> Teacher will give an overview of the furniture, fixtures and their use in residential spaces Teacher will demonstrate taking measurements . Student group participation for measuring common furniture and fixtures. Students will be asked in groups to collect and compare data from books and case studies 	15		Internet; Videos; Chalkboard; Smart board; Measuring tape; Drawing instruments; Handouts; Catalogues; Design Standard Books	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Portfolio	<ul style="list-style-type: none"> Furniture layout design assignments, MCQ and objective type questions on standard data related to residential spaces 	10	Drawing stationery, Assessment rubric	Internal- Progressive test I

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY
(IF ANY)**

NIL

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	6	3	0	1	2	2	

COURSE NAME	ARCHITECTURAL DESIGN I
CO Description	Student will be able to apply anthropometry to determine area requirements of residential spaces.
LO Description	Student will be able to measure furniture, clear spaces and room sizes of given space using anthropometry.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical / Tut Hrs.	LRs Required	Remarks
2.2.1	• Anthropometric study - Actual measurements of various human activities and body distances to know the space requirements.	• Lecture, • Group Activity	• Teacher will give an overview of the furniture, fixtures and their use in residential spaces	15		Internet; Videos; Chalkboard; Smart board; Measuring tape; Drawing instruments; Handouts; Catalogues; Design Standard Books	
2.2.2	• Layout of residential spaces e.g. living, drawing, dining, kitchen, study, toilets, etc to a suitable scale, with furniture and fixtures showing the relationship of uses, users, and furniture.		• Teacher will demonstrate taking measurements and making scaled drawings				
2.2.3	• Dimensions of vehicles and space requirement		• Student group participation for measuring common furniture and fixtures. • Student will design a furniture layout for a given residential space based on studies and data				

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Portfolio	• Furniture layout and human activity related assignments MCQ and objective type questions on standard data related to spaces	10	• Test paper Drawing instruments and stationery	External : Theory paper

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY
(IF ANY)**

NIL

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code			Course Code			CO Code	LO Code	Format No. 4
						A	0	6	3	0	1	2	3	
COURSE NAME		ARCHITECTURAL DESIGN I												
CO Description		Student will be able to apply anthropometry to determine area requirements of residential spaces.												
LO Description		Student will be able to design and draw furniture layout for a given residential space.												
SCHEME OF STUDY														
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical /Tut Hrs.	LRs Required			Remarks					
2.3.1	<ul style="list-style-type: none"> Develop concept for various residential spaces showing furniture layout. 	<ul style="list-style-type: none"> Lecture 	<ul style="list-style-type: none"> Teacher will demonstrate taking measurements and making scaled drawings Student will design a furniture layout for a given residential space based on studies and data 	15		<ul style="list-style-type: none"> Internet; Videos; Chalkboard; Smart board; Measuring tape; Drawing stationery 								
2.3.2	<ul style="list-style-type: none"> Presentation of common furniture and fixtures in standard format in plan and elevation 													
SCHEME OF ASSESSMENT														
S. No.	Method of Assessment	Description of Assessment			Maximum Marks	Resources Required			External / Internal					
1	Portfolio	<ul style="list-style-type: none"> Space calculation exercises, scaled drawings. MCQ and objective type questions on standard data related to spaces. 			20	<ul style="list-style-type: none"> Test paper 			External : Theory paper					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)														
NIL														

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	6	3	0	1	3	1	

COURSE NAME	ARCHITECTURAL DESIGN I
CO Description	Student will be able to design small architectural unit / building following planning process.
LO Description	Student will be able to collect and analysis data for a small shelter of about 20sqm for commercial use.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical /Tut Hrs.	LRs Required	Remarks
3.1.1	Planning process, data from standards and live example for Single volume unit from the following: Food/ Florist Kiosk, Milk booth, Watch man's cabin with compound gate, Public Toilets, Ice cream parlor, Xerox center, ticket counter of cinema hall	<ul style="list-style-type: none"> Lecture Peer group learning 	<ul style="list-style-type: none"> Teacher will give an overview of the commercial spaces. <ul style="list-style-type: none"> Teacher will demonstrate taking measurements and making scaled drawings Students will be asked in groups to collect and compare data from books and case studies Student will design space based on studies and data 	15		<ul style="list-style-type: none"> Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Collect and present field and standards data in Portfolio	<ul style="list-style-type: none"> Objective, sketches and drawings 	20	<ul style="list-style-type: none"> Test paper 	Internal - Progressive Test II & Lab

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY
(IF ANY)**

NIL

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	6	3	0	1	3	2	

COURSE NAME	ARCHITECTURAL DESIGN I
CO Description	Student will be able to design small architectural unit / building following planning process.
LO Description	Student will be able to enlist spaces and areas and develop bubble diagram for the unit to be designed.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical / Tut Hrs.	LRs Required	Remarks
3.2.1	<ul style="list-style-type: none"> Basic human functions and their implications for space requirements for unit to be designed. Minimum and optimum areas for various functions. Standards, movement and circulation diagrams. Spatial interpretations –various activities and their relationship with spaces bubble diagram. 	<ul style="list-style-type: none"> Lecture Group Activity 	<ul style="list-style-type: none"> Teacher will describe process of design with examples Students will be instructed to collect various data related to exercise. Classroom/on-site brain storming sessions on various examples. The student will prepare portfolio . 	12		<ul style="list-style-type: none"> Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 	
3.2.2							
3.2.3							
3.2.4							

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Portfolio	Objective, sketches, space requirement, bubble diagram and drawings	20	• Test paper	External : Theory paper

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY
(IF ANY)**

NIL

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	6	3	0	1	3	3	

COURSE NAME	ARCHITECTURAL DESIGN I
CO Description	Student will be able to design small architectural unit / building following planning process.
LO Description	Student will be able to develop concept on basis of data collected and analyzed.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical /Tut Hrs.	LRs Required	Remarks
3.3.1	Presentation drawings plan, elevation, section to explain concept	<ul style="list-style-type: none"> Lecture 	<ul style="list-style-type: none"> Students will be instructed to collect various data related to exercise. Classroom/on-site brain storming sessions on various examples. The student will prepare portfolio . Student will design a unit for a given space based on studies and data 	15		<ul style="list-style-type: none"> Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Portfolio	<ul style="list-style-type: none"> Objective, sketches and drawings 	15	<ul style="list-style-type: none"> Test paper 	External : Practical

**ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY
(IF ANY)**

NIL

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	6	3	0	1	4	1	

COURSE NAME	ARCHITECTURAL DESIGN I
CO Description	Student will be able to design and draw small architectural residential unit.
LO Description	Student will be able to collect and analyze data, workout requirement for 1 & 2 BHK small residential unit.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical/ Tut Hrs.	LRs Required	Remarks
4..1.1	Standard and live example data for residential unit, calculate room sizes, develop, bubble diagram	<ul style="list-style-type: none"> Lecture Pictures/ Video demonstration 	<ul style="list-style-type: none"> Teacher will give an overview of the residential spaces. Teacher will demonstrate taking measurements and making scaled drawings Students will be asked in groups to collect and compare data from books and case studies Student will design a unit for a given space based on studies and data 	15		<ul style="list-style-type: none"> Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Portfolio	<ul style="list-style-type: none"> Objective, sketches, space requirement, bubble diagram and drawings 	10	<ul style="list-style-type: none"> Test paper 	External : Theory paper

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code			Course Code			CO Code	LO Code	Format No. 4
						A	0	6	3	0	1	4	2	
COURSE NAME		ARCHITECTURAL DESIGN I												
CO Description		Student will be able to design and draw small architectural residential unit.												
LO Description		Student will be able to prepare presentation drawings using appropriate scale.												
SCHEME OF STUDY														
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical / Tut Hrs.	LRs Required	Remarks							
4.2.1	<ul style="list-style-type: none"> Draw single line plan for residential unit for which data collected. 	<ul style="list-style-type: none"> Lecture Pictures/ Video demonstration Peer group learning 	<ul style="list-style-type: none"> The teacher will demonstrate presentation techniques Students will prepare drawings and presentation drawings of plan, elevation and section . 	15		<ul style="list-style-type: none"> Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 								
4.2.2	<ul style="list-style-type: none"> Presentation drawings for the designed unit, plan, elevation, section. 													
SCHEME OF ASSESSMENT														
S. No.	Method of Assessment	Description of Assessment			Maximum Marks	Resources Required			External / Internal					
1	Portfolio/ Display presentation	<ul style="list-style-type: none"> Assignment / presentation technique on a given drawing 			15	<ul style="list-style-type: none"> Test paper Display facility 			External : Practical					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)														
NIL														

RGPV (Diploma Wing)		SCHEME FOR LEARNING			Branch Code	Course Code	CO Code	LO Code	Format				
Bhopal		OUTCOME			OBE ^A	0	6	3	0	1	5	1	2020-21
NAME OF COURSE/PROGRAMME		THREE YEARS	SCHEME	ARCHITECTURAL DESIGN	IMPLEMENTING			YEAR					
CO Description	The student will demonstrate leadership, team spirit in group activities and sincerity towards learning												
LO Description	The student will demonstrate leadership, team spirit in group activities and sincerity towards learning												
SCHEME OF STUDY													
S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical / Tut Hrs.	LRs Required	Remarks						
5.1.1	Group activities throughout semester as mentioned under all Learning Outcomes	• Group activities	As mentioned under all Learning Outcomes	08		As mentioned under all Learning Outcomes							
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment			Maximum Marks	Resources Required				External / Internal			
1	Teacher's observation	<ul style="list-style-type: none"> • Teacher will assess student's performance based on: <ol style="list-style-type: none"> 1. Participation of student as individual/in a group (Leader as well as a team member) 2. Peer group learning attitude 3. Timely submission 4. Attendance 			10	• Assessment Rubrics				Internal- Term Work			
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													
NIL													

BRANCH CODE		A06	NAME OF BRANCH		ARCHITECTURAL ASSISTANTSHIP						SEMESTER			THIRD		
S. No	COURSE DETAILS				T-L PLAN		ASSESSMENT PLAN									Grand Total of Marks
	COURSE CODE	COURSE NAME	PAPER CODE	No. of COs	No. of LOs	Total T-L Hrs.	T-L Hrs./ Week	Internal Assessment		External Assessment (University Exam)						
								No. of LOs	Total Marks	Theory Paper			Practical Exam *			
No. of LOs	Total Marks	No. of LOs	Total Marks	Duration	No. of LOs	Total Marks	Duration									
1	301	Architectural Design I		05	11	150	10	04	50	05	70	3Hrs	02	30	3Hrs	150
2	302	Building Construction I		05	12	120	08	05	50	05	70	3Hrs	02	30	3Hrs	150
3	303	CAD II		03	10	120	08	08	70	-	-	-	02	30	3Hrs.	100
4	304	Surveying and Leveling														
TOTAL																
No. of Theory Papers												03	No. of Practical Exams			04