RGPV(DIPLOMA WING) BHOPAL	OBE CURRICULUM FOR THE COURSE	FORMAT - 3	Sheet No. 1/2

Branch	ARCHITECTURE AND INTERIOR DESIGN	Semester	FIRST

Course Code	102	Course Name	ARCHITECTURAL GRAPHICS

Course Outcome1	The student will be able to use proper drafting techniques to present given technical drawing	**Teach Hrs**	**Marks**
Learning Outcome 1	The student will be able to perform simple mathematical calculations as a part of drafting exercises	03	06
Contents	Plane scales: Significance of making Graphical Scales, reducing and enlarging, Calculation of Metric and Foot Scale (two problems from each unit) Units of length and area used in architectural works in SI and FPS and their conversion		
Method of Assessment	Written Test		
Learning Outcome 2	The student will be able to draw, dimension and annotate neatly in the proper format	15	20
Contents	Sheet Formatting, Freehand lettering up to 10mm height (text size for various headings and subheadings). Types of lines and their uses, dimensioning technique. Plane scales: drafting Metric and Foot Scale (two problems from each unit) Use of Engineering Scales in metric and FPS system (draft a piece of furniture e.g. table, bed, cabinet in the plan using different R.F.)		
Method of Assessment	Written Test		
Course Outcome 2	The student will be able to present simple geometrical objects in 2D and 3D graphical form		
Learning Outcome1	The student will be able to visualize simple geometrical objects in a given position	17	25
Contents	Study of various geometrical shapes (Circle, Square, rectangle, Trapezium, parallelogram, Rhombus pentagon, hexagon, octagon) and simple solids w. r. t. terminologies, area and volume calculations Projections, Terminologies used in Projections. Orthographic projection. First angle Orthographic projections of Simple geometrical shapes and simple solids		
Method of Assessment	Written Test		
Learning Outcome2	The student will be able to draft neat and well-composed 2D and 3D Views of simple geometrical objects in a given position	55	40
Contents	Drafting of Circle, Square, rectangle, Trapezium, parallelogram, Rhombus pentagon, hexagon, octagon; Orthographic Projections of 2D shapes and simple solids Drafting of 3D views of simple solid objects: Isometric views of Cube, Cylinder, Cone, Sphere, Prisms and Pyramids of Triangle, Square, Pentagon, Hexagon, Octagon; Drafting of Axonometric views (30/60, 45/45) and Oblique views (0/30, 0/45,0/60)of Cube Axonometric views of (45/45) Cylinder, Cone, Pentagon, Hexagonal and Octagon Prism and Pyramid of using proper drafting techniques.		

RGPV(DIPLOMA WING) BHOPAL	OBE CURRICULUM FOR THE COURSE	FORMAT-3	Sheet No. 2/2

Branch	ARCHITECTURE AND INTERIOR DESIGN	Semester	FIRST

Course Code	102	Course Name	ARCHITECTURAL GRAPHICS

Method of Assessment	Written Test		
Course Outcome 3	The student will be able to select, draw and sketch appropriate perspective views of solid objects, buildings and interiors using suitable rendering elements and techniques for a presentation drawing	**Teach Hrs**	**Marks**
Learning Outcome 1	The student will be able to select the appropriate position of various factors affecting perspective drawing	10	24
Contents	Perspective Drawing: Types of perspective views and their uses, understanding of basic terms and principles used in perspective drawing e.g. Station point, Cone of Vision, Eye-level, Horizon Line, Vanishing points through the study of pictures and sketches		
Method of Assessment	Written Test		
Learning Outcome 2	The student will be able to draw/sketch proportionate views using suitable rendering elements and techniques	50	30
Contents	Line Work (5 sheets) Basic line work, with different pencil thickness & intensities H, HB, 2B, 4B, 6B i) Horizontal lines ii) Vertical lines iii) Grid iv) Diagonal lines v) Composition, pattern making in line work (Using different grades of pencils to understand the tonal variation); Graphical representation of finishing and furnishings and common building materials (Fabric, Leather, Carpet, Brick, Stone, Timber, Glass, Grass, Tiles, Plaster) Study of Sciography through sketching of simple geometrical objects. Freehand sketching of simple solids, buildings structures, and indoor spaces including landscaping elements (human figures, furniture and plants, etc.) and shades and shadows in the form of perspective view from images/ photographs. On-site/offsite sketching of the landscape scenes.		
Method of Assessment	Written Test, Viva on Drawing Portfolio		
Course Outcome 4	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	NA	5
Contents	Group activities throughout semester as mentioned under all Learning Outcomes		
Method of Assessment	Teacher's observation		

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	5	1	0	2	1	1	

COURSE NAME	**Architectural Graphics**
CO Description	The student will be able to use proper drafting techniques to present given technical drawing
LO Description	The student will be able to perform simple mathematical calculations as a part of drafting exercises

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1.1	Plane scales: Significance of making Graphical Scales, reducing and enlarging, Calculation of Metric and Foot Scale (two problems from each unit)	Collective Discussion, Lecture, practice exercises	• Teacher will explain scales with help of various real-life examples through discussions. • Teacher will explain the significance of graphical scales, types of plane scales, and calculations for drawing a graphical scale. • Students will observe/note down the same and do calculations for practice exercises.	02	00	Chalk-Board, Engineering Scales, Sample Drawings, Stationery	3 Marks
1.2	Units of length and area used in architectural works in SI and FPS and their conversion	Collective Discussion, Lecture, practice exercises	• Teacher will conduct conversion exercise through measurement of small objects in immediate surroundings. • Student will participate actively.	01	00		3 Marks

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Written Test	Drafting exercises	**6**	Drawing Sheets, Drafting tools	External (Theory)

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	0	5	1	0	2	1	2	

COURSE NAME	**Architectural Graphics**
CO Description	The student will be able to use proper drafting techniques to present given technical drawing
LO Description	The student will be able to draw, dimension and annotate neatly in the proper format

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1.1	Sheet Formatting, Freehand lettering up to 10mm height (text size for various headings and subheadings)	Lecture, Demonstration,	• Demonstration by teacher the method of using different tools of architectural drawing, Sheet Formatting, Freehand lettering. The student will follow the same.		03	Chalk-Board, Stationery, Sample Drawings, Books	2 Marks
1.2	Types of lines and their uses, dimensioning technique	Lecture, Demonstration	• Demonstration by teacher the method of drawing Types of lines and their uses, dimensioning technique. • Teacher will explain with the help of example drawings. • Students will observe/note down the same.		04	Chalk-Board, Stationery, Sample Drawings, Books	6 Marks
1.3	Plane scales: drafting Metric and Foot Scale (two problems from each unit)	Lecture, Demonstration	Teacher will demonstrate drafting of scales and students will do practice exercises under the guidance of teacher.		06	Chalk-Board , Stationery, Sample Drawings	10 Marks

1.4	Use of Engineering Scales in metric and FPS system (draft a piece of furniture e.g. table, bed, cabinet in the plan using different R.F.)	Lecture, Demonstration	Teacher will demonstrate the drafting of a piece of furniture and students will draft under the guidance of teacher.		02	Chalk-Board , Stationery, Sample Drawings	2 Marks

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Written Test	Drafting exercises	**20**	Drawing Sheets, Drafting tools	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	*0*	*5*	*1*	*0*	*2*	*2*	*1*	

COURSE NAME	**Architectural Graphics**
CO Description	The student will be able to present simple geometrical objects in 2D and 3D graphical form
LO Description	The student will be able to visualize simple geometrical objects in a given position

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. / Tut Hrs.	LRs Required	Remarks
1.1	Study of various geometrical shapes (Circle, Square, rectangle, Trapezium, parallelogram, Rhombus pentagon, hexagon, octagon) and simple solids w. r. t. terminologies, area and volume calculations	Lecture, Group Discussion	Teacher will explain various geometrical shapes and simple solids w. r. t. terminologies, area and volume calculations with the help of appropriate models and images. The student will observe, relate and note down the important points Teacher will explain and compare types of 3D Views and their utility. Student will note down the important points.	5		Notebook, Chalk-Board, Block Models, Videos, Projector	9 marks
1.2	Projections, Terminologies used in Projections. Orthographic projection.		Teacher will explain the terms used in Projections with help of various real life familiar examples like Movie Theatre etc. The meaning of orthographic projections, and its use. The student will observe and note down the key points	2			4 Marks

1.3	First angle Orthographic projections of Simple geometrical shapes and simple solids		Teacher will show block models of simple objects and explain to the students various terms related to them used while referencing their position. Place the object in various positions and explain the students how to visualize it on different planes. The student will observe, compare and sketch same object in different positions on reference planes	10			12 Marks

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
	Written Test	Short answers, Drafting exercises	25	Drafting instruments, Stationery	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Teacher should focus on a more practical and participatory approach to develop interest in the students to adopt new technique of visualization and presentation

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	*0*	*5*	*1*	*0*	*2*	*2*	*2*	

COURSE NAME	**Architectural Graphics**
CO Description	The student will be able to present simple geometrical objects in 2D and 3D graphical form
LO Description	The student will be able to draft neat and well-composed 2D and 3D Views of simple geometrical objects in a given position

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. / Tut Hrs.	LRs Required	Remarks
1.1	Drafting of Circle, Square, rectangle, Trapezium, parallelogram, Rhombus pentagon, hexagon, octagon;	Demonstration, Peer Group Learning	Teacher will demonstrate the method of drafting various geometrical shapes in a given position through videos, block models of solid objects and manual drafting. Students will observe and draft using appropriate drafting instruments.		9	Drafting instruments and materials, Block Models, Chalk-Board, Videos, Projector, Sample drawings	8 Marks
1.2	Orthographic Projections of 2D shapes and simple solids	Demonstration, Peer Group Learning	Teacher will demonstrate the method of drafting orthographic projections of 2D shapes and simple solids in a given position through videos, block models of solid objects and manual drafting. Students will observe and draft using appropriate drafting instruments.		20	Drafting instruments and materials, Block Models, Chalk-Board, Videos, Projector, Sample drawings	12 Marks

1.3	Drafting of 3D views of simple solid objects:Isometric views of Cube, Cylinder, Cone, Sphere, Prisms and Pyramids of Triangle, Square, Pentagon, Hexagon, Octagon; Drafting of Axonometric views (30/60, 45/45) and Oblique views (0/30, 0/45,0/60) of Cube Axonometric views of (45/45) Cylinder, Cone, Pentagon, Hexagonal and Octagon Prism and Pyramid of using proper drafting techniques.	Demonstration, Peer Group Learning	Teacher will demonstrate the method of drafting various 3D Views of objects in a given position through videos, block models of solid objects and manual drafting. Students will observe and draft using appropriate drafting instruments.		26	Drafting instruments and materials, Block Models, Chalk-Board, Videos, Projector, Sample drawings	20 Marks

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
	Written Test	Short answers, Drafting exercises	40	Drafting instruments, Stationery	External (Theory)

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Teacher should focus on a more practical and participatory approach to develop interest in the students to adopt new technique of visualization and presentation

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. **4**
		A	*0*	*5*	*1*	*0*	*2*	*3*	*1*	

COURSE NAME	**Architectural Graphics**
CO Description	The student will be able to select, draw and sketch appropriate perspective views of solid objects, buildings and interiors using suitable rendering elements and techniques for a presentation drawing
LO Description	The student will be able to select the appropriate position of various factors affecting perspective drawing

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1	Perspective Drawing: Types of perspective views and their uses, understanding of basic terms and principles used in perspective drawing e.g. Station point, Cone of Vision, Eye-level, Horizon Line, Vanishing points through the study of pictures and sketches	Group Discussions, Lecture, Guided on-site experience	• Teacher will encourage students in groups to relate and compare the previous knowledge of 3D views with photographic images and self-visual experience of spaces and objects. • Teacher will explain the terminologies and principles of perspective drawing through schematic drawings, indoor and outdoor examples	**05**	**05**	Chalk-Board, Videos, Projector, books, Magazine and Sample sketches/drawings, Models	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
	Written Test	Quiz/ objective type questions/ Short answers	24	Stationery	External (Theory)

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	*0*	*5*	*1*	*0*	*2*	*3*	*2*	

COURSE NAME	**Architectural Graphics**
CO Description	The student will be able to select, draw and sketch appropriate perspective views of solid objects, buildings and interiors using suitable rendering elements and techniques for a presentation drawing
LO Description	The student will be able to draw/sketch proportionate views using suitable rendering elements and techniques

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1.1	Line Work (5 sheets) Basic line work, with different pencil thickness & intensities H, HB, 2B, 4B, 6B i) Horizontal lines ii) Vertical lines iii) Grid iv) Diagonal lines v) Composition, pattern making in line work (Using different grades of pencils to understand the tonal variation); Graphical representation of finishing and furnishings and common building materials (Fabric, Leather, Carpet, Brick, Stone, Timber, Glass, Grass, Tiles, Plaster)	Demonstration, Peer Group Learning	Teacher will demonstrate the method of drawing various patterns and graphical representation of materials through videos, books, magazines, and manually. Students will observe and sketch/draw the same.		05	Drafting instruments and materials, Chalk-Board, Videos, Projector, Books, magazine and Sample sketches/drawings	3 Marks
1.2	Study of Sciography through sketching of simple geometrical objects.	Demonstration, Experiment (Learning by doing)	Teacher will instruct the students to observe the change in shade and shadow of various geometrical block models placed under direct natural/ artificial light in different positions w.r.t.		10	Block models, Drawing material	9 Marks

			some vertical and horizontal surfaces.				
1.3	Freehand sketching of simple solids, buildings structures, and indoor spaces including landscaping elements (human figures, furniture and plants, etc.) and shades and shadows in the form of perspective view from images/ photographs. On-site/offsite sketching of the landscape scenes.	Demonstration	Teacher will conduct site visits of different gardens and open areas and demonstrate on-site sketching techniques. Students will sketch perspective views of small objects. Students will sketch perspective drawings of gardens with different types of trees, outdoor furniture.		35	Sketching instruments and materials, Chalk-Board, Videos, Books, magazines, and Sample sketches/drawings	18 Marks

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
	Written Test, Viva on Drawing Portfolio	Drawing Assignment	30	Drafting instruments, Drawing stationery,	External (Practical)

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Paper setter should give proper weightage of marks to each topic as mentioned.
Teacher should be more innovative in framing instructional activities.

RGPV (Diploma Wing) Bhopal	SCHEME FOR LEARNING OUTCOME	Branch Code			Course Code			CO Code	LO Code	Format No. 4
		A	*0*	*5*	*1*	*0*	*2*	*4*	*1*	

COURSE NAME	**Architectural Graphics**
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	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
	Group activities throughout semester as mentioned under all Learning Outcomes	Group activities	As mentioned under all Learning Outcomes	As mentioned under all Learning Outcomes			

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
	Teacher's observation	Teacher will assess student's performance based on: 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	05	Assessment Rubrics	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Teacher will inform and ensure that every student is aware of the criteria mentioned for assessment.
Teacher is expected to ensure continuous evaluation and keep updating with their marks as well as encouraging students for better performance.
Assessment of this LO will be part of lab work evaluation.