

<b>RGPV (DIPLOMA WING) BHOPAL</b>		<b>OBE CURRICULUM FOR THE COURSE</b>		<b>FORMAT - 3</b>	<b>Sheet No.1/1</b>
<b>Branch</b>	<b>ARCHITECTURAL ASSISTANTSHIP</b>		<b>Semester</b>	<b>THIRD</b>	
<b>Course Code</b>	<b>302</b>	<b>Course Name</b>	<b>BUILDING CONSTRUCTION - I</b>		
<b>Course Outcome 1</b>	<b>The Student will be able to present basic drawings for a given construction work.</b>			<b>Teaching Hrs.</b>	<b>Marks</b>
<b>Learning Outcome 1</b>	<b>The Student will be able to select right brick for wall construction on site.</b>			10	10
<b>Contents</b>	Types of Brick: Scaled Isometric views of full bricks, brick bats and closers, with various terminologies and dimensions.				
<b>Method of Assessment</b>	<b>Internal - Sessional ( Lab work)</b>				
<b>Learning Outcome 2</b>	<b>The Student will be able to draw scaled construction drawings of various forms of brick masonry.</b>			12	20
<b>Contents</b>	Types of bonds; Heading, Stretching, English and Flemish bond. Plan, elevation and view of Stretcher brick Bond for 100 mm thick internal wall with key plan. Plan, elevation and section of 200mm thick wall for English and Flemish Brick bonds. Right angled Tee junction of English bonded external and internal wall.				
<b>Method of Assessment</b>	<b>External - Theory (Written Test)</b>				
<b>Learning Outcome 3</b>	<b>The Student will be able to draw scaled construction drawings of various forms of stone masonry.</b>			10	10
<b>Contents</b>	Plan, elevation and section with important terminologies of Coursed Rubble, Uncoursed Rubble and Ashlar fine masonry for wall construction.				
<b>Method of Assessment</b>	<b>Internal- Theory (Progressive Test - I)</b>				
<b>Learning Outcome 4</b>	<b>The Student will be able to suggest different types of wall finishes like Pointing and cladding, as per need.</b>			8	10
<b>Contents</b>	Cement plaster: Sketches of Fixing cladding material like glazed tiles & stone tiles on wall with proposal for right finish for right place. Sketches of types of Pointing - Flush pointing, Cut pointing, V- grooved pointing, key pointing, Tuck pointing, Beaded pointing with utility and suitability for different situations.				
<b>Method of Assessment</b>	<b>Internal - Term Work (Report / Portfolio)</b>				

<b>Course Outcome 2</b>	<b>The Student will be able to propose and draw different types of Openings.</b>	<b>Teaching Hrs</b>	<b>Marks</b>
<b>Learning Outcome 1</b>	<b>The Student will be able to draw various types of arches with all technical terms.</b>	10	10
<b>Contents</b>	Sketch different shapes of arches- Flat, Semicircular, Segmental. Scaled drawing of Semicircular Brick arch with its important terminologies and dimensions.		
<b>Method of Assessment</b>	External - Theory (Written Test)		
<b>Learning Outcome 2</b>	<b>The student will be able to propose various types of doors in Timber with fixtures required.</b>	10	10
<b>Contents</b>	Sketch Elevations of different types of doors in wood with suitability. Detailed Plan, Elevation and Section of Wooden Single leaf maximum two paneled door, frame in wood and pressed steel. With fixing details and fixtures required.		
<b>Method of Assessment</b>	External - Practical		
<b>Learning Outcome 3</b>	<b>The student will be able to propose various types of windows and ventilators in Timber with their construction details.</b>	12	20
<b>Contents</b>	Sketch Elevations of different types of windows and ventilators with suitability. Plan, Elevation, Section and details of Wooden Partly glazed-partly paneled and fully glazed window with Fixing details and fixture required. Plan, Elevation, Section and details of top hung glazed paneled and louvered ventilators with fixing details and fixture required.		
<b>Method of Assessment</b>	External - Theory (Written Test)		
<b>Course Outcome 3</b>	<b>The Student will be able to identify and select different types of staircases and design staircase for given height.</b>		
<b>Learning Outcome 1</b>	<b>The student will be able to identify and draw different types of staircases with important details.</b>	6	10
<b>Contents</b>	Single line sketches of different types of staircase with technical terms – straight flight, quarter, open well, semicircular and spiral staircase.		
<b>Method of Assessment</b>	Internal - Sessional ( Lab work)		
<b>Learning Outcome 2</b>	<b>The student will be able to design R.C.C. doglegged staircase for a given height.</b>	10	10
<b>Contents</b>	Plan and Section of Dog legged up to first floor (3m) in RCC with calculation of number of steps and all technical terms; tread, riser, railing, mid landing, nosing etc.		
<b>Method of Assessment</b>	Internal- Theory (Progressive Test - II)		

<b>Learning Outcome 3</b>	<b>The student will be able to design composite staircase to reach height of mezzanine floor.</b>	10	10
<b>Contents</b>	Plan and Section of composite staircase up to mezzanine floor. Calculation of number of steps with technical terms; tread, riser, railing mid landing, nosing, material to be used and fixing details.		
<b>Method of Assessment</b>	External - Theory (Written Test)		
<b>Course Outcome 4</b>	<b>The student will be able to identify different structural components in double storey building.</b>		
<b>Learning Outcome 1</b>	<b>Student will be able to draw complete detailed cross section of a double storey building showing different structural components.</b>	12	20
<b>Contents</b>	Scaled, dimensioned, labeled and detailed cross section of a double storey building through external wall for Load bearing and through staircase for Frame structure from footing to parapet wall, showing all structural components (isolated or pile footing in RCC, DPC, column, beam, slab, wall, sill, lintel, chajja, door, window) including plastering and mentioning typical dimensions of components and specifying mix/grade of cement mortar/ concrete.		
<b>Method of Assessment</b>	External - Practical		
<b>Course Outcome 5</b>	<b>The student will be able to elaborate on formwork system for R.C.C. work.</b>		
<b>Learning Outcome 1</b>	<b>Student will be able to supervise and suggest formwork for given construction work</b>	10	10
<b>Contents</b>	Material for formwork, erection of form work, scaffolding, and provision of cover in R.C.C. work from site visits (double storied building) and literature survey or internet. Safety factors for quality output required in erection and removal of form work and duration of form work required.		
<b>Method of Assessment</b>	External - Theory (Written Test)		

RGPV (Diploma Wing ) Bhopal		Scheme for Learning Outcome			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					A	0	6	3	0	2	1	1	
<b>COURSE NAME</b>		<b>BUILDING CONSTRUCTION - I</b>											
<b>CO Description</b>		<b>THE STUDENT WILL BE ABLE TO PRESENT BASIC DRAWINGS FOR A GIVEN CONSTRUCTION WORK.</b>											
<b>LO Description</b>		<b>The Student will be able to select right brick for wall construction on site.</b>											
<b>SCHEME OF STUDY</b>													
S. No.	Learning Content	Teaching-Learning Method	Description of T-L Process	Teaching Hrs.	Practical Hrs.	LRs Required	Remarks						
1.1.1	Types of Brick: Scaled Isometric views of full bricks, brick bats and closers, with various terminologies and dimensions.	Lecture, construction site visit, market Survey, Group Discussions, Video and Drafting Demonstration.	<ul style="list-style-type: none"> <li>Teacher will explain the contents through examples/block models, samples in the material room and provide handouts to students, guide them to study the material on the internet and market survey.</li> <li>The student will observe, note down the key points and draft on drawing sheets scaled isometric view of different brick with terminologies and dimension.</li> </ul>	2	8	Chalk-Board, text book, block models, Stationery , projector, videos, sample drawings							
<b>SCHEME OF ASSESSMENT</b>													
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal								
1	Lab work	Drawing Portfolio	10	Drawing Sheets, Drafting tools	<b>Internal</b> (Lab work)								
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD / FACULTY (IF ANY)</b>													
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RGPV (Diploma Wing ) Bhopal		Scheme for Learning Outcome			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					A	0	6	3	0	2	1	2	
<b>COURSE NAME</b>		<b>BUILDING CONSTRUCTION - I</b>											
<b>CO Description</b>		<b>THE STUDENT WILL BE ABLE TO PRESENT BASIC DRAWINGS FOR A GIVEN CONSTRUCTION WORK.</b>											
<b>LO Description</b>		<b>The Student will be able to draw scaled construction drawings of various forms of brick masonry</b>											
SCHEME OF STUDY													
S. No.	Learning Content	Teaching-Learning Method	Description of T-L Process	Teaching Hrs.	Practical Hrs.	LRs Required	Remarks						
1.2.1	Types of bonds; Heading, Stretching, English and Flemish bond.	Lecture, construction site visit, market Survey, Group Discussions, Video and Drafting Demonstration	<ul style="list-style-type: none"> <li>Teacher will explain the contents and provide handouts to students, guide them to study the material on the internet, market survey and construction site visit.</li> <li>The student will observe, note down the key points and draft on drawing sheets scaled plan, elevation, section and view of Stretching, English &amp; Flemish bond in brick.</li> </ul>	3	9	Chalk-Board, text book, block models, Stationery , projector, videos, sample drawings							
1.2.2	Plan, elevation, and view of Stretcher brick Bond for 100 mm thick internal wall with key plan.												
1.2.3	Plan, elevation and section of 200mm thick wall for English and Flemish Brick bonds.												
1.2.4	Right angled Tee junction of English bonded external and internal walls.												
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal								
1	Written Test	Drafting exercises, Labeled sketches, objective, short and descriptive questions	20	Drawing Sheets, Drafting tools	<b>External (Theory)</b>								
ADDITIONAL INSTRUCTIONS FOR THE HOD / FACULTY (IF ANY)													
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<b>RGPV (Diploma Wing ) Bhopal</b>		<b>Scheme for Learning Outcome</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					<b>A</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>3</b>	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO PRESENT BASIC DRAWINGS FOR A GIVEN CONSTRUCTION WORK.</b>												
<b>LO Description</b>	<b>The Student will be able to draw scaled construction drawings of various forms of stone masonry.</b>												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching-Learning Method</b>	<b>Description of T-L Process</b>				<b>Teaching Hrs.</b>	<b>Practical Hrs.</b>	<b>LRs Required</b>		<b>Remarks</b>		
1.3.1	Plan, elevation and section with important terminologies of Coursed Rubble, uncoursed Rubble and Ashlars fine masonry for wall construction,	Lecture, Educational site visit, Group Discussions, Drafting Demonstration, market Survey	<ul style="list-style-type: none"> <li>Teacher will explain the contents and provide handouts to students, guide them to study the material on the internet and market survey.</li> <li>The student will observe and prepare notes, submit a descriptive or comparative study and draft sheet in the given format.</li> </ul>				2	8	Chalk-Board, text book, sample material, Stationery , projector, videos				
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>				<b>Maximum Marks</b>		<b>Resources Required</b>		<b>External / Internal</b>			
1	Written Test	Drafting exercises, Labeled sketches, objective, short questions				10		Drawing Sheets, Drafting tools		Internal (Progressive Test-I)			
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
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<b>RGPV (Diploma Wing ) Bhopal</b>		<b>Scheme for Learning Outcome</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					<b>A</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>4</b>	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>STUDENT WILL BE ABLE TO PRESENT BASIC DRAWINGS FOR A GIVEN CONSTRUCTION WORK.</b>												
<b>LO Description</b>	<b>The Student will be able to suggest different types of wall Finishes like Pointing and cladding, as per need.</b>												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching-Learning Method</b>	<b>Description of T-L Process</b>				<b>Teaching Hrs.</b>	<b>Practical Hrs.</b>	<b>LRs Required</b>		<b>Remarks</b>		
1.4.1	Cement plaster: Sketches of Fixing cladding like glazed tiles & stone tiles on wall with proposal for right finish for right place.	Lecture, Educational site visit, Group Discussions, video demonstration, market survey.	<ul style="list-style-type: none"> <li>Teacher will explain the contents and provide handouts to students, and guide them for market survey and study material on the internet.</li> </ul>				8	-	Chalk-Board, text book, sample material, Stationery , projector, videos				
1.4.2	Sketches of types of Pointings: Flush pointing, Cut pointing, V- grooved pointing, key pointing, Tuck pointing, Beaded pointing with utility and suitability for different situations.		<ul style="list-style-type: none"> <li>The student will prepare notes with supporting photos taken during site visit, market survey or internet. Draw neat labeled sketches wherever required.</li> </ul>										
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>				<b>Maximum Marks</b>		<b>Resources Required</b>	<b>External / Internal</b>				
1	Term Work	Drawing portfolio with report				10		Drawing Sheets, Drafting tools	<b>Internal (Term Work )</b>				
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
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RGPV (Diploma Wing ) Bhopal		Scheme for Learning Outcome			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					A	0	6	3	0	2	2	1	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO IDENTIFY AND DRAW DIFFERENT TYPES OF OPENINGS.</b>												
<b>LO Description</b>	<b>The Student will be able to draw various types of arches with all technical terms.</b>												
<b>SCHEME OF STUDY</b>													
S. No.	Learning Content	Teaching-Learning Method	Description of T-L Process	Teaching Hrs.	Practical Hrs.	LRs Required	Remarks						
2.1.1	Sketch different shapes of arches- Flat, Semicircular, Segmental.	Lecture, Educational site visit, Group Discussions, Drafting Demonstration	<ul style="list-style-type: none"> <li>Teacher will explain the contents through examples/block models, samples in the material display workshop and provide handouts to students</li> </ul>	2	8	Chalk-Board, Block Models, Videos, Projector, sample drawings							
2.1.2	Scaled elevation of Semicircular Brick arch with its important terminologies and dimensions.		<ul style="list-style-type: none"> <li>The student will observe, note down the key points and draft on drawing sheets Scaled elevation of Semicircular Brick arch.</li> </ul>										
<b>SCHEME OF ASSESSMENT</b>													
S. No.	Method of Assessment	Description of Assessment				Maximum Marks	Resources Required	External /Internal					
1	Written Test	Drafting exercises, Labeled sketches, short and descriptive questions				10	Drawing Sheets, Drafting tools	<b>External (Theory)</b>					
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
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<b>RGPV (Diploma Wing ) Bhopal</b>		<b>Scheme for Learning Outcome</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					A	0	6	3	0	2	2	2	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO IDENTIFY AND DRAW DIFFERENT TYPES OF OPENINGS.</b>												
<b>LO Description</b>	<b>The student will be able to propose various types of doors in Timber with fixtures required.</b>												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching-Learning Method</b>	<b>Description of T-L Process</b>	<b>Teaching Hrs.</b>	<b>Practical Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>						
2.2.1	Sketch Elevations of different types of doors in wood with suitability.	Lecture, Educational site visit, Group Discussions, Drafting Demonstration	<ul style="list-style-type: none"> <li>Teacher will explain the contents through examples/ block models, samples in the material display workshop and provide handouts to students.</li> </ul>	2	8	Chalk-Board, Block Models, Videos, Projector, sample drawings							
2.2.2	Detailed Plan, Elevation and Section of Wooden Single leaf maximum two paneled door, frame in wood and pressed steel. With fixing details and fixtures required.		<ul style="list-style-type: none"> <li>The student will observe, note down the key points and draft on drawing sheets.</li> </ul>										
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>				<b>Maximum Marks</b>	<b>Resources Required</b>	<b>External / Internal</b>					
1	Practical	Written test, Viva				20	Drawing Sheets, Drafting tools	External (Practical)					
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
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<b>RGPV (Diploma Wing ) Bhopal</b>		<b>Scheme for Learning Outcome</b>				Branch Code		Course Code		CO Code	LO Code	Format No. <b>4</b>
						A	0	6	3	0	2	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>											
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO IDENTIFY AND DRAW DIFFERENT TYPES OF OPENINGS.</b>											
<b>LO Description</b>	<b>The student will be able to propose various types of windows and ventilators in Timber with their construction details.</b>											
<b>SCHEME OF STUDY</b>												
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching-Learning Method</b>	<b>Description of T-L Process</b>				<b>Teaching Hrs.</b>	<b>Practical Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>		
2.3.1	Sketch Elevations of different types of windows and ventilators with suitability.	Lecture, Educational site visit, Group Discussions, Drafting Demonstration	<ul style="list-style-type: none"> <li>Teacher will explain the contents through examples/ block models, samples in the material display workshop and provide handouts to students.</li> <li>The student will observe, note down the key points and draft on drawing sheets.</li> </ul>				3	9	Chalk-Board, Block Models, Videos, Projector, sample drawings			
2.3.2	Plan, Elevation, Section and details of Wooden Partly glazed-partly paneled and fully glazed window with Fixing details and fixture required.											
2.3.3	Plan, Elevation, Section and details of top hunged glazed paneled and louvered ventilators with Fixing details and fixture required.											
<b>SCHEME OF ASSESSMENT</b>												
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>					<b>Maximum Marks</b>	<b>Resources Required</b>	<b>External /Internal</b>			
1	Written Test	Drafting exercise, short answers and descriptive questions					20	Drawing Sheets, Drafting tools	External (Theory)			
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>												
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<b>RGPV (Diploma Wing ) Bhopal</b>		<b>Scheme for Learning Outcome</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					<b>A</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>1</b>	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO IDENTIFY AND SELECT DIFFERENT TYPES OF STAIRCASES AND DESIGN STAIRCASE FOR GIVEN HEIGHT.</b>												
<b>LO Description</b>	<b>The student will be able to identify and draw different types of staircases with important details.</b>												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching-Learning Method</b>	<b>Description of T-L Process</b>				<b>Teaching Hrs.</b>	<b>Practical Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>			
3.1.1	Single line sketches of different types of staircase with technical terms – straight flight, quarter, open well, semicircular and spiral staircase.	Lecture, Educational site visit, Group Discussions, Drafting Demonstration	<ul style="list-style-type: none"> <li>Teacher will explain the contents through examples/block models, samples in the material display workshop and provide handouts to students</li> <li>The student will observe, note down the key points and draft on drawing sheets.</li> </ul>				1	5	Chalk-Board, Block Models, Videos, Projector, sample drawings				
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>					<b>Maximum Marks</b>	<b>Resources Required</b>	<b>External / Internal</b>				
1	Lab work	Drawing Portfolio					10	Stationary	<b>Internal (Lab work)</b>				
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
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<b>RGPV (Diploma Wing ) Bhopal</b>		<b>Scheme for Learning Outcome</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					<b>A</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>2</b>	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO IDENTIFY AND SELECT DIFFERENT TYPES OF STAIRCASES AND DESIGN STAIRCASE FOR GIVEN HEIGHT.</b>												
<b>LO Description</b>	<b>The student will be able to design R.C.C. doglegged staircase for a given height.</b>												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching-Learning Method</b>	<b>Description of T-L Process</b>				<b>Teaching Hrs.</b>	<b>Practical Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>			
3.2.1	Plan and Section of Dog legged up to first floor (3m) in RCC with calculation of number of steps with technical terms; tread, riser, railing mid landing, nosing.	Lecture, Group Discussions, Drafting Demonstration	<ul style="list-style-type: none"> <li>• Teacher will explain the contents through examples/block models, samples in the material display workshop and provide handouts to students</li> <li>• The student will observe, note down the key points and draft on drawing sheets.</li> </ul>				2	8	Chalk-Board, Block Models, sample drawings , Videos, Projector, Drafting instruments				
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>					<b>Maximum Marks</b>	<b>Resources Required</b>	<b>External / Internal</b>				
1	Written test	Drafting exercises, Labeled sketches, objective, short questions					10	Stationery	<b>Internal</b> (Progressive Test-I)				
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
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<b>RGPV (Diploma Wing ) Bhopal</b>		<b>Scheme for Learning Outcome</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					A	0	6	3	0	2	3	3	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO IDENTIFY AND SELECT DIFFERENT TYPES OF STAIRCASES AND DESIGN STAIRCASE FOR GIVEN HEIGHT.</b>												
<b>LO Description</b>	<b>The student will be able to design composite staircase to reach height of mezzanine floor</b>												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching-Learning Method</b>	<b>Description of T-L Process</b>				<b>Teaching Hrs.</b>	<b>Practical Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>			
3.3.1	Plan and Section of composite staircase up to mezzanine floor. Calculation of number of steps with technical terms; tread, riser, railing mid landing, nosing., material to be used and fixing details	Lecture, Group Discussions, Drafting Demonstration	<ul style="list-style-type: none"> <li>Teacher will explain the contents and provide handouts to students, guide them to study material on the internet.</li> <li>The student will prepare notes and draft staircase in scale.</li> </ul>				2	8	Chalk-Board, text book, Videos, Projector				
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>					<b>Maximum Marks</b>	<b>Resources Required</b>	<b>External / Internal</b>				
1	Written Test	Drafting exercise, short answers and descriptive questions					10	Stationery	External (Theory)				
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
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RGPV (Diploma Wing ) Bhopal		Scheme for Learning Outcome			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					A	0	6	3	0	2	4	1	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO IDENTIFY DIFFERENT STRUCTURAL COMPONENTS IN DOUBLE STOREY BUILDING</b>												
<b>LO Description</b>	<b>Student will be able to draw complete detailed cross section of a double storey building showing different structural components.</b>												
SCHEME OF STUDY													
S. No.	Learning Content	Teaching-Learning Method	Description of T-L Process	Teaching Hrs.	Practical Hrs.	LRs Required	Remarks						
4.1.1	Scaled, dimensioned, labeled and detailed cross section of a double storey building through external wall for Load bearing and through staircase for Frame structure from footing to parapet wall, showing all structural components (isolated or pile footing in RCC, DPC, column, beam, slab, wall, sill, lintel, chajja, door, window) including plastering and mentioning typical dimensions of components and specifying mix/grade of cement mortar/ concrete.	Manual Drafting , Educational site visit, Drafting Demonstration	<ul style="list-style-type: none"> <li>Teacher will explain the terminologies used in building section drawing through pictures and sample drawings and will explain drafting technique through demonstration.</li> <li>Student will observe and draft the same with all dimensions and nomenclature.</li> </ul>	3	9	Chalk-Board, Drafting instruments and materials, Videos, Projector, Books, magazine and Sample sketches/ drawings							
SCHEME OF ASSESSMENT													
S. No.	Method of Assessment	Description of Assessment				Maximum Marks	Resources Required	External / Internal					
1	Practical	Drawing Exercises, Viva				20	Stationery	<b>External</b> (Practical)					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)													
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<b>RGPV (Diploma Wing ) Bhopal</b>		<b>Scheme for Learning Outcome</b>			Branch Code			Course Code			CO Code	LO Code	Format No. <b>4</b>
					<b>A</b>	<b>0</b>	<b>6</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>1</b>	
<b>COURSE NAME</b>	<b>BUILDING CONSTRUCTION - I</b>												
<b>CO Description</b>	<b>THE STUDENT WILL BE ABLE TO ELABORATE ON FORM WORK SYSTEM FOR R.C.C. WORK</b>												
<b>LO Description</b>	<b>The Student will be able to supervise and suggest formwork for given construction work</b>												
<b>SCHEME OF STUDY</b>													
<b>S. No.</b>	<b>Learning Content</b>	<b>Teaching-Learning Method</b>	<b>Description of T-L Process</b>					<b>Teaching Hrs.</b>	<b>Practical Hrs.</b>	<b>LRs Required</b>	<b>Remarks</b>		
5.1.1	Material for formwork, erection of form work, scaffolding, and provision of cover in R.C.C. work from site visits (double storied building) and literature survey or internet. Safety factors for quality output required in erection and removal of form work and duration of form work required.	Lecture, Construction site visit, Group Discussions	<ul style="list-style-type: none"> <li>Teacher will explain the contents and provide handouts to students, guide them to study material on the internet.</li> <li>The student will make Report on the basis of site visit and survey.</li> </ul>					10		Chalk-Board, text book, Stationery , projector, videos			
<b>SCHEME OF ASSESSMENT</b>													
<b>S. No.</b>	<b>Method of Assessment</b>	<b>Description of Assessment</b>						<b>Maximum Marks</b>	<b>Resources Required</b>	<b>External /Internal</b>			
1	Written Test	Sketches, short answers and descriptive questions						10	Stationary	External (Theory)			
<b>ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)</b>													
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