

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code			Course Code			CO Code	LO Code	Format No. 4
						C	0	3	3	0	3	1	1	
COURSE NAME		BUILDING MATERIALS AND CONSTRUCTION												
CO Description		Describe important building materials used in Construction and their uses.												
LO Description		Explain properties, types and uses of stones, aggregates, bricks and tiles.												
SCHEME OF STUDY														
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks							
1	Introduction of Building materials and construction for Civil Engineer Stones : Classification of rocks, Important Definitions: Dressing, Quarrying, Seasoning, requirement of good building stone, Characteristics of important building stones and their uses - Basalt, Limestone (Kota Stone), Sandstone, Marble, Granite, Slate, Quartzite, Gneiss, Laterite Aggregates : Classification of Aggregate ,Properties and Uses of fine Aggregate, Tests on fine aggregate (Sand) Bricks : Classification of bricks, Frog of brick, Properties of Good Brick, Different field and laboratory test on brick as per BIS: 3495; Standard bricks; Special bricks- refractory bricks, hollow blocks, fly ash bricks, paver blocks Tiles - Characteristics of good tiles , Classification of tiles, Important tiles and their uses: Mosaic , Terracotta, Ceramic, Vitreous	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	10	0	Text book, video lectures, chalk board.	NIL							
SCHEME OF ASSESSMENT														
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal								
1	Theory exam	Student will be asked to classify rocks, aggregates etc. and to describe properties of bricks, characteristics of good tiles etc.	12	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, charts, video film.	External								
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)														
Part of end semester theory exam														

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
					C	0	3	3	0	3	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Describe important building materials used in Construction and their uses.										
LO Description	Perform test on bricks and fine aggregates.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	<ul style="list-style-type: none"> 1. Determination of bulking of sand 2. Determination of fineness modulus by sieve analysis of fine aggregate. 3. Determination of water absorption test of bricks 4. Determination of compressive strength of bricks 5. Determination of efflorescence of bricks 	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	0	10	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required	External / Internal				
1	Practical exam	Student will be asked to perform any of the mentioned test.		Viva + Rating scale		Handouts, chalk board, PPT, text book, charts, video film.	Both				
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of Practical Exam : Internal Marks for Practical : 10 Marks											

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
					C	0	3	3	0	3	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Describe important building materials used in Construction and their uses.										
LO Description	Describe the properties of Murrum ,Lime, Cement, Mortar and basics of Concrete and carry out tests on cement.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	Murrum:- Properties of Murrum for Road work Lime: Classification, Slaking and hydraulicity, types of limes and their uses Cement : Chemical composition of cement ,Various types of cement and their uses - Ordinary portland cement, rapid hardening cement, low heat cement, portland pozzolana cement, sulphate resisting cement, white and colored cement, high alumina cement, aerated cement, storage of cement, tests on cement Mortar : Definition, functions of mortar and types of mortar - Lime mortar, Surkhi mortar, cement mortar, gauged mortar, gypsum mortar, Special mortars (fire resistant mortar, Damp proofing mortar), Grout Concrete : Introduction to concrete - Definition, properties Admixtures : Types of Admixture and their functions	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	08	0	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal					
1	Theory exam	Student will be asked to explain chemical composition of cement and their uses.	10	Test Paper + Rating scale	Handouts, chalk board, PPT, text book, charts, video film.	External					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of end semester theory exam											

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
					<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>3</i>	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Describe important building materials used in Construction and their uses.										
LO Description	Perform test on cement.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	<ul style="list-style-type: none"> 1. Determination of Standard Consistency 2. Determination of Initial and Final Setting Time 3. Determination of compressive strength of Cement. 	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	00	06	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required	External / Internal				
1	Practical exam	Student will be asked to perform any of the mentioned test.		Viva + Rating scale		Handouts, chalk board, PPT, text book, charts, video film.	Both				
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of Practical Exam : Internal Marks for Practical : 05 Marks											

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code		Course Code		CO Code	LO Code	Format No. 4
						C	0	3	3	0	3	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION											
CO Description	Describe timber, paints and other miscellaneous building materials used in construction.											
LO Description	Describe timber and wood products and its uses in building construction.											
SCHEME OF STUDY												
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	Timber : Classification of trees, Characteristics of good timber, defects in timber, Preservation in timber -AsCu treatment, Chemical Salts, Oil Paints, Creosote treatment, Coal tar, Solignum paint Wood Products : Veneer, plywood, particle board, laminates, MDF, fiber board, block board their properties and uses	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	05	0	Text book, video lectures, chalk board.	NIL					
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal						
1	Theory exam	Students will be asked to classify timber, explain preservation methods of timber etc.	06	Test Paper + rating scale	Handouts, chalk board, PPT, text book, charts, video film.	External						
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
Part of end semester theory exam												

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code		Course Code		CO Code	LO Code	Format No. 4
						C	0	3	3	0	3	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION											
CO Description	Describe timber, paints and other miscellaneous building materials used in construction.											
LO Description	Discuss the composition and uses of protective paints and prescribe for a given condition.											
SCHEME OF STUDY												
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	Composition of Paints, Characteristics of Good Paint Types and uses of surface protective materials like Paints, Enamels, Varnishes, Distempers, Emulsion	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	05	0	Text book, video lectures, chalk board.	NIL					
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal						
1	Theory exam	Students will be asked about composition of paints, their characteristics etc.	05	Test Paper + rating scale	Handouts, chalk board, PPT, text book, charts, video film.	Internal						
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
Part of Internal Exam – Mid Semester Test-I												

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code		Course Code		CO Code	LO Code	Format No. 4
						<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>3</i>	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION											
CO Description	Describe timber, paints and other miscellaneous building materials used in construction.											
LO Description	Explain various types of other building materials used and their uses in construction.											
SCHEME OF STUDY												
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	Use and brief introduction of Ferrous metals (cast iron, mild steel, HYSD Steel), Plastic, Gypsum, Glass, Asbestos, Aluminium , Tar, Asphalt, Bitumen , PVC, CPVC, PPF, Bonding agents, Epoxy resins, Waterproofing, Termite proofing and wall cladding materials	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	06	0	Text book, video lectures, chalk board.	NIL					
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required			External / Internal			
1	Theory exam	Student will be asked about uses of various civil engineering materials mentioned above and their basic properties.	07	Test Paper + rating scale		Handouts, chalk board, PPT, text book, charts, videos,			External			
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
Part of end semester theory exam												

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code		Course Code		CO Code	LO Code	Format No. 4
						C	O	3	3	O	3	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION											
CO Description	Explain different types of structures and foundations.											
LO Description	Classify various types of structures and list out components of building and their functions.											
SCHEME OF STUDY												
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	Types of buildings based on occupancy, loads on structure, types of structures – load bearing structures, Framed structures Building components and their function. Substructure – foundation, plinth, DPC. Superstructure – walls, sill, lintel & arches, doors & windows, floor, roof, parapet, beams, columns, staircase, surface finishes	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	04	0	Text book, video lectures, chalk board.	NIL					
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal						
1	Theory exam	Student will be asked to classify structures and explain function of various building components.	05	Test Paper + rating scale	Handouts, chalk board, PPT, text book, charts, video film.	External						
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
Part of end semester theory exam												

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
					<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>3</i>	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Explain different types of structures and foundations.										
LO Description	Explain layout procedure of small buildings and important points of supervision of earthwork and excavation.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	Job layout : necessity and procedures, site clearance, preparing job lay out, layout for load bearing structure and framed structure by centerline And face line method, precautions while marking layout on ground. Earthwork: excavation for foundation, timbering and strutting, earthwork for embankment, material for plinth filling. Tools and plants used for excavation and earthwork	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	04	0	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required	External / Internal				
1	Theory exam	Student will be asked to explain the procedure of preparing layout etc.	05	Test Paper + rating scale		Handouts, chalk board, PPT, text book, charts, video film.	Internal				
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of Internal Exam – Mid Semester Test-I											

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
					<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>3</i>	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Explain different types of structures and foundations.										
LO Description	Perform layout of small buildings.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	<ol style="list-style-type: none"> 1. Prepare foundation plan and marking on ground layout of load bearing structure by centre line method from the given plan of the building. 2. Prepare foundation plan and marking on ground layout of framed structure by centre line method from the given plan of the building. 3. Layout of two room building by face line method. 	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	00	06	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required		External / Internal			
1	Practical exam	Student will be asked to prepare any of the mentioned layout.		Rating scale/ Rubrics		Handouts, chalk board, PPT, text book, charts, video film.		Both			
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of Practical Exam : Internal Marks for Practical : 05 Marks											

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
					<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>3</i>	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Explain different types of structures and foundations.										
LO Description	Classify the foundations and select appropriate one based on soil conditions.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	Foundation and its purpose , Types of foundations – shallow and deep Shallow foundation : Isolated Footing, Spread Footing ,Strip Footing, Raft foundation, combined footing, grillage foundation and their Constructional details Introduction to deep foundation : Pile and Well Foundation and their types Damp Proof Course : Source and effects of Dampness, Purpose, methods, materials used	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	05	0	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required	External / Internal				
1	Theory exam	Student will be asked to classify foundation and explain purpose of DPC etc.	06	Rating scale/ Rubrics		Handouts, chalk board, PPT, text book, charts, video film.	External				
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of end semester theory exam											

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
					C	0	3	3	0	3	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Classify masonry works, doors, windows, stairs, floors and roofs.										
LO Description	Describe types of masonry work and related procedures.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	Stone masonry: Terminologies in stone masonry. Classification of stone masonry, Rubble masonry- Uncoursed and coursed rubble masonry, point to be observed in construction of stone masonry Brick masonry: Terminologies in brick masonry, types of Bonds: English, Flemish, stretcher and header bonds. Brick laying procedure, precautions in brick masonry, tools used in brick masonry Scaffolding : Purpose and its types Shoring and Underpinning : Purpose	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	08	0	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required	External / Internal				
1	Theory exam	Student will be asked classify stone and brick masonry and describe types of bonds.	10	Rating scale/ Rubrics		Handouts, chalk board, PPT, text book, charts, video film.	Internal				
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of Internal Exam – Mid Semester Test-II											

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code		Course Code		CO Code	LO Code	Format No. 4
						C	0	3	3	0	3	
COURSE NAME		BUILDING MATERIALS AND CONSTRUCTION										
CO Description		Classify masonry works, doors, windows, stairs, floors and roofs.										
LO Description		Explain types of doors, windows and stairs.										
SCHEME OF STUDY												
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	Doors : Terminologies of Doors, Brief description of different types of doors - Panelled Doors, Batten Doors, Flush Door, Collapsible Doors, Rolling Shutter, Revolving Doors, Glazed Doors Windows : Terminology of Windows, Brief description of different types of windows - Casement, Glazed, Sliding Windows , Louvered Window, pivoted, ventilators Stair case: Terminologies - landing, stringer, newel, baluster, rise, tread, width of stair case, hand rail, nosing, head room, flight, pitch. Various types of stair case – straight flight, dog legged, open well, quarter turn, half turn (newel and geometrical stairs), spiral stair, tread riser stair	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	10	0	Text book, video lectures, chalk board.	NIL					
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal						
1	Theory exam	Student will be asked to types of doors, windows and staircases.	12	Rating scale/ Rubrics	Handouts, chalk board, PPT, text book, charts, video film.	External						
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
Part of end semester theory exam												

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME				Branch Code		Course Code		CO Code	LO Code	Format No. 4
						<i>C</i>	<i>0</i>	<i>3</i>	<i>3</i>	<i>0</i>	<i>3</i>	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION											
CO Description	Classify masonry works, doors, windows, stairs, floors and roofs.											
LO Description	Describe types of floors and roofs.											
SCHEME OF STUDY												
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks					
1	Floors: Glossary of terms ,Types of floor finishes –concrete flooring, tile flooring, timber flooring , marble and kota flooring Roofs: Glossary of terms, Types of roofs, concept and function of flat and pitched roofs	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	05	0	Text book, video lectures, chalk board.	NIL					
SCHEME OF ASSESSMENT												
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required			External / Internal			
1	Theory exam	Student will be asked about types of floors and roofs.	06	Rating scale/ Rubrics		Handouts, chalk board, PPT, text book, charts, video film.			External			
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)												
Part of end semester theory exam												

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
					C	0	3	3	0	3	
COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Explain the procedure of surface finishes and concept of green building.										
LO Description	Recognize surface finishes i.e. plastering, pointing and painting and select the appropriate techniques of finishes.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	Plastering : purpose – Types of plastering, Types of plaster finishes – Grit finish, rough cast, smooth cast, sand faced, pebble dash, acoustic plastering and plain plaster etc., Proportion of mortars used for different plasters Preparation of mortars, techniques of plastering and curing Pointing : purpose ,Types of pointing , methods of pointing Painting : objectives – method of painting new and old wall surfaces, wood surface and metal surfaces – powder coating and spray painting on metal surfaces White washing ,Color washing , Distempering, internal and external walls	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	08	0	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria	Resources Required	External / Internal					
1	Assignments/ Seminars/Presentation	Student will be asked to submit assignment on plastering, pointing and painting and their application techniques.	10	Rating scale/ Rubrics	Handouts, chalk board, PPT, text book, charts, video film.	Internal					
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of Internal Exam – Assignments/Seminars/Presentations											

RGPV (Diploma Wing) Bhopal		SCHEME FOR LEARNING OUTCOME			Branch Code		Course Code		CO Code	LO Code	Format No. 4
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COURSE NAME	BUILDING MATERIALS AND CONSTRUCTION										
CO Description	Explain the procedure of surface finishes and concept of green building.										
LO Description	Recognise the purpose of energy efficient buildings and rain water harvesting system in buildings.										
SCHEME OF STUDY											
S. No.	Learning Content	Method of teaching	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks				
1	Green Building: Concept, Purpose, Components, Energy Efficiency and Basics of rain water harvesting.	Interactive classroom teaching, assignments, quiz, presentation.	Teacher will explain the contents and provide handouts to the students; teacher will conduct a quiz and give assignments to practice their knowledge.	05	0	Text book, video lectures, chalk board.	NIL				
SCHEME OF ASSESSMENT											
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Passing Criteria		Resources Required		External / Internal			
1	Theory exam	Student will be asked about purpose of green building and rain water harvesting etc.	06	Rating scale/ Rubrics		Handouts, chalk board, PPT, text book, charts, video film.		External			
ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)											
Part of end semester theory exam											

Note: 1. Internal practical marks of practical LOs are mentioned in additional instructions.

2. External practical exam will be of maximum 30 marks and any of the practical mentioned in LO's can be assessed.