RGPV (DIPLOMA WING) BHOPAL			OBE CURRICULUM FOR THE COURSE			Sheet No. 1/2		
Branch ARCHITE	CTURAI	L ASSISTANTSH	ПР	Semeste	r	FIRST		
Course Code	102	Course Name	BUILDING MATI	ERIALS				
Course Outcome1		nt will be able to se iven architectural	elect natural building noor interior work	naterials	Teach Hrs	Marks		
Learning Outcome 1		nt will be able to cl ropriate stone for	assify natural stones a construction	nd select	9	10		
Contents	1.Geo stra from 2.Con stor	ological (igneous, se tified and foliated) on each class nmon building stone te facing/ cladding.	dimentary and metamore classification of stones verses - their uses, selection	vith a minir	num of	two examples		
Method of Assessmen	Writter	test						
Learning Outcome 2	indus	trial timber, availa	select appropriate timl able in different marke a or interior works.		9	10		
Contents	2. Ir bl	nd seasoning of woo adustrial timber; ply lockboard, flush doc lerits, and demerits	wood, particle or chipbo or shutters, veneers, and	oard, hardbo	oard, fil	berboard,		
Method of Assessmen	Writter	test						
Course Outcome 2	Stude	nt will be able to d	escribe and select clay	product fo	or cons	truction		
Learning Outcome1		nt will be able to c qualities	lassify and select brick	s with	5	10		
Contents	dimens	ions of bricks, testin	lassifications, charactering of bricks on-site, and					
Method of Assessmen	Writter	test						
Learning Outcome2	l l	nt will be able to sonstruction and int	elect ceramic and vitri	fied tiles	5	10		
Contents	Classif demeri		and vitrified tiles with t	heir types,	sizes, u	ises, merits, and		
Course Outcome 3	Stude	nt will be able to i	dentify, describe and so	elect cemer	nt and i	its products		
Learning Outcome	l morta		escribe cement; cement e with its ingredients, a		15	15		
Contents	2. Co 3. Ty in	 Properties, chemical composition, use of ordinary Portland cement, setting, storage, and testing of cement on site. Cement mortars; ingredients, proportions, preparation, use, and curing 						
Method of Assessmen	Writter	test						
Learning Outcome	, ,	nt will be able to e ete blocks with the	nlist and identify differ ir application	rent types (of	4 5		
Contents	Concr	ete Blocks; Classifi	cations, dimension, utili	ty, and app	lication			

Method of Assessment	Written test						
Course Outcome 4	Student will be able to describe and differentiate between aluminum	cast iron,	steel, and				
Learning Outcome 1	Student will be able to describe and identify different market forms of cast iron, steel, and aluminum with uses and examples from each	9	10				
Contents	 Different types of Steel products available for construction and their uses; rolled steel section, reinforced steel bars, hollow sections, and Stainless Steel products Cast iron and wrought iron; uses and limitations Different types of aluminum products used in construction; aluminum sections, aluminum composite panel (A.C.P), aluminum roofing sheets, and fittings. 						
Method of Assessment	Written test						
Course Outcome5	Student will be able to identify finishing and miscellaneoutheir uses	s materia	ls with				
Learning Outcome 1	Student will be able to enlist and identify different types of paints, distempers, varnishes, and wallpapers for the required purpose	10	5				
Contents	 Types, ingredients, uses, and method of application of padifferent surfaces Wallpaper; types, uses, method of application with merit 						
Method of Assessment	Written test						
Learning Outcome 2	Student will be able to describe and identify glass, adhesives, sealing, waterproofing, and lightweight roofing materials with their uses	12	10				
Contents	 Classification, uses, characteristics, performance of glass List different types, properties, uses, and application of a compounds, and waterproofing materials used for differe Properties, uses, and application of gypsum, rubber, and materials 	dhesives, s nt purpose	s				
Method of Assessment	Written test						
Course Outcome 6	Student will be able to collect and present information on materials for construction and interior work	the latest	building				
Learning Outcome 1	Student will be able to collect information on the latest building materials through market survey, site visits and present compiled information	12	15				
Contents	Construction site visits, market survey, desktop survey for natural building materials, clay products, cement products, metal products, and finishing materials Market and desktop survey for alternate, local and sustainable building materials						
Method of Assessment							

SCHEME FOR LEARNING OUTCOME

Br	Branch Code			Course Code			LO Code	Format
\boldsymbol{A}	0	6	1	0	2	1	1	No. 4

COURSE NAME	BUILDING MATERIALS
CO Description	Student will be able to select natural building materials for a given architectural or interior work
LO Description	Student will be able to classify natural stones and select the appropriate stone for construction

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1.1.1	Geological (igneous, sedimentary and metamorphic) & physical (stratified, un- stratified and foliated) classification of stones with a minimum of two examples from each	• Lecture	• Teacher will explain the contents and provide handouts to students, show samples in the material bureau, and	5	-	 Blackboard Chalk Handouts Smart Classroom / 	
	class		guide for desktop study. • The student will submit a descriptive or comparative study on the classification of stone.			similar facility • Reference books	
1.1.2	Common building stones - their uses, selection for masonry, pavements, flooring, stone facing/ cladding.	LectureGroup discussion	• Teacher will explain the contents and provide handouts to students, show samples in the material bureau, and	4	-		
			guide them to study the material on the internet • The student will submit an analysis of common building stones with uses.				

SCHEME OF ASSESSMENT								
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal			
1	Written test	Objective, short answer, and descriptive questions	10	• Test paper	External			
	'	ADDITIONAL INSTRUCTIONS FOR (IF ANY)	THE HOD/ F	ACULTY	'			
		NIL						

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В	Branch C	Code	С	ourse (Code	CO Code	LO Code	Format
\boldsymbol{A}	0	6	1	0	2	1	2	No. 4

COURSE NAME	BUILDING MATERIALS
CO Description	Student will be able to select natural building materials for given architectural and interior work
LO Description	Students will be able to select appropriate timber, industrial timber, available in different market forms suitable for construction or interior works.

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
1.2.1	Timber species, their uses, the section of a wooden log, defects, preservation, and seasoning of wood	Lecture	 Teacher will explain the contents and provide handouts to students, and guide for study material on the internet The student will submit a descriptive or comparative study on timber species. 	4	-	 Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 	
1.2.2	Industrial timber; plywood, particle or chipboard, hardboard fiberboard, blockboard, flush door shutters, veneers, and laminates with types, uses, merits, and demerits of each	Lecture Group discussion	• Teacher will explain the contents and provide handouts to students, show samples in the material bureau, and guide them to study the material on the internet • The student will submit a descriptive or comparative study.	5	-	 Blackboard Chalk Handouts Smart Classroom / similar facility 	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Written test	• Objective, short answers, and descriptive questions	10	• Test paper	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Student will be encouraged to explore the latest industrial timber available in the market.

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В	Branch C	Code	C	ourse (Code	CO Code	LO Code	Format
A	0	6	1	0	2	2	1	No. 4

COURSE NAME	BUILDING MATERIALS
CO Description	Student will be able to describe and select clay product for construction
LO Description	Student will be able to classify and select bricks with their qualities

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	Brief description of clay, classifications, characteristics, and the standard dimensions of bricks, testing of bricks on-site, and selection of good bricks.	 Group activity Educational site visit 	 Teacher will explain the contents and provide handouts to students, show samples in the material bureau, guide them for desktop study and site visit. The student will submit a descriptive or comparative study, conduct site tests, and prepare the report in a given format. 	5	-	 Blackboard Chalk Handouts Material burear Smart Classroom / similar facility Reference books 	Teacher will prepare an observation u format

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Written test	• Quiz, Objective, Short Answer ,and Descriptive questions	10	• Test paper	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

CO Description Student will LO Description Student will		_ 1 <u>_</u>										
V (Diplo	oma Wing)			Branc	Code		Course	Code	CO Code	LO Code	Fo	rmat
pal		OUICO	ONIE	0	6	1	0	2	2	2	No	o. 4
COURSE NAME BUILDING MATE		ATERIALS					'					
scription	Student will be	able to describe and select c	lay product for construction	n								
LO Description Student will be able to		able to select ceramic and v	itrified tiles for constructio	n and	inter	or w	orks					
	'	Se	CHEME OF STUDY									
Lea	arning Content	Teaching – Learning Method	Description of T-L Process			g			LR	s Requ	iired l	Remark
			• Teacher will explain the contents and provide handouts to students, show samples in the material bureau, guide		5		-		ChalHandSma	lk douts rt		
	SE NAME scription scription Lea Classificatio tiles with the	SE NAME BUILDING MASCRIPTION Student will be Scription Student will be Learning Content Classification of ceramic and values with their types, sizes, use	OUTCO SE NAME BUILDING MATERIALS Scription Student will be able to describe and select conscription Student will be able to select ceramic and viscosification of ceramic and vitrified tiles with their types, sizes, uses,	SE NAME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Student will be able to select ceramic and vitrified tiles for construction SCHEME OF STUDY Learning Content Teaching — Description of T-L Learning Method Process Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. OUTCOME A A A SENAME Student will be able to describe and select clay product for construction SCHEME OF STUDY Teaching — Description of T-L Process • Teacher will explain the contents and provide handouts to students, show samples in the	OUTCOME A 0 SEE NAME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Scription Student will be able to select ceramic and vitrified tiles for construction and SCHEME OF STUDY Learning Content Teaching - Learning Method Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. Teaching - Learning Method Teacher will explain the contents and provide handouts to students, show samples in the	OUTCOME A 0 6 SEE NAME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Scription Student will be able to select ceramic and vitrified tiles for construction and interior SCHEME OF STUDY Learning Content Classification of ceramic and vitrified tiles for construction and interior Classification of ceramic and vitrified tiles for construction and interior SCHEME OF STUDY Learning Method Process Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. Teaching — Learning Method Teacher will explain the contents and provide handouts to students, show samples in the 5	OUTCOME A 0 6 1 SEE NAME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Scription Student will be able to select ceramic and vitrified tiles for construction and interior w SCHEME OF STUDY Learning Content Teaching – Learning Method Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. Teaching – Learning Method Teaching – Learning Method Teacher will explain the contents and provide handouts to students, show samples in the 5	OUTCOME A 0 6 1 0 SEE NAME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Scription Student will be able to select ceramic and vitrified tiles for construction and interior works SCHEME OF STUDY Learning Content Teaching – Learning Method Process Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the	OUTCOME A 0 6 1 0 2 SEE NAME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Scription Student will be able to select ceramic and vitrified tiles for construction and interior works SCHEME OF STUDY Learning Content Teaching – Learning Method Process Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. **Description of T-L Praching Hrs.** **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the **Teacher will explain the contents and provide handouts to students, show samples in the	OUTCOME A 0 6 1 0 2 2 SEE NAME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Scription Student will be able to select ceramic and vitrified tiles for construction and interior works SCHEME OF STUDY Learning Content Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. Teaching – Lecture Teaching – Learning Method Process Teacher will explain the contents and provide handouts to students, show samples in the Sma	OUTCOME A 0 6 1 0 2 2 2 SE NAME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Scription Student will be able to select ceramic and vitrified tiles for construction and interior works SCHEME OF STUDY Learning Content Classification of ceramic and vitrified tiles for construction and interior works Classification of ceramic and vitrified tiles for construction and interior works SCHEME OF STUDY Learning Method Process Teaching Practical /Tut Hrs. Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. * Teacher will explain the contents and provide handouts to students, show samples in the * Smart	OUTCOME BUILDING MATERIALS Scription Student will be able to describe and select clay product for construction Scription Student will be able to select ceramic and vitrified tiles for construction and interior works SCHEME OF STUDY Learning Content Teaching – Learning Method Process Classification of ceramic and vitrified tiles with their types, sizes, uses, merits, and demerits. Teaching – Lecture Teaching – Practical Hrs. Teaching – Hrs. Teaching – Hrs. Teaching – Chalk + Handouts + Han

SCHEME OF ASSESSMENT

• The student will

submit a descriptive or comparative study.

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Written test	Objective, short answer, and descriptive questions	10	• Test paper	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

	NIL	
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SCHEME FOR LEARNING OUTCOME

Bra	nch Co	de	Cour	se Code		CO Code	LO Code	Forma
A	0	6	1	0	2	3	1	No. 4

COURSE NAME	BUILDING MATERIALS
CO Description	Student will be able to identify, describe and select cement and its products
LO Description	Student will be able to describe cement; cement mortar, cement concrete with its ingredients, and the process of concreting

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teaching Hrs.	Practical /Tut Hrs.	LRs Required	Remarks
3.1.1	,	• Educational site visit	 Teacher will explain the contents and provide handouts to students, guide them to study material on the internet The student will submit a descriptive or comparative study, conduct site tests, and prepare a report in the given format. 	5	-	 Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 	Teacher will prepare an observation format
3.1.2	proportions, preparation, uses, and	LectureEducational site visitGroup discussion	 Teacher will explain the contents and provide handouts to students, guide them to study the material on the internet The student will submit a descriptive or comparative study and prepare a report in the format. 	5	-	 Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 	Teacher will prepare an observation format

3.1.3	Types and properties of cement	•Lecture	• Teacher will explain the		Blackboard	Teacher will
	concrete. Proportions and qualities of	• Educational site visit	contents and provide		• Chalk	prepare a
	ingredients in cement concrete.	 Group discussion 	handouts to students, them	5	 Handouts 	format
	Water- cement ratio, mixing, placing,		to study the material on the		- • Smart	
	and curing of cement concrete.		internet		Classroom /	
			• The student will submit the		similar facility	
			descriptive or comparative		 Reference 	
			study and prepare the report		books	
			in a given format.			
		CC.	THEME OF A CCECCMENT			

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External /
					Internal
1	Written test	Objective, short answer, and descriptive questions	15	• Test paper	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Educational visits will be conducted for storage and testing of cement on construction site where concreting/masonry/plastering work is in progress

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Branch Code		Course Code		CO Code	LO Code	Format		
\boldsymbol{A}	0	6	1	0	2	3	2	No. 4

COURSE NAME	BUILDING MATERIALS
CO Description	Student will be able to identify, describe and select cement and its products
LO Description	Student will be able to enlist and identify different types of concrete blocks with their application

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	Concrete Blocks; Classifications,	•Lecture	• Teacher will explain			Blackboard	
	dimension, utility, and application		the contents and provide			• Chalk	
			handouts to students,	4	-	Handouts	
			guide them for desktop			• Smart	
			study.			Classroom /	
			• The student will submit			similar facility	
			a descriptive or			Reference books	
			comparative study.				

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Written test	Objective, short answers, and descriptive questions	5	• Test paper	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

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Bhopal	

Е	Branch (Code	C	ourse	Code	CO Cod e	LO Cod e	Format
\boldsymbol{A}	0	6	1	0	2	4	1	No. 4

COURSE NAME	BUILDING MATERIALS
CO Description	Student will be able to describe and differentiate between cast iron, steel, and aluminum
LO Description	Student will be able to describe and identify different market forms of cast iron, steel, and aluminum with uses and examples from each

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
4.1.1	Different types of steel products available for construction and their uses; rolled steel section, reinforced steel bars, hollow sections, and stainless steel products	• Lecture	 Teacher will explain the contents and provide handouts to students, show samples in the material bureau and guide them to study the material on the internet The student will submit a descriptive or comparative study. 	3	-	 Blackboard Chalk Handouts Smart Classroom / similar facility Reference books Material bureau 	
4.1.2	Cast iron and wrought iron; uses and limitations	• Lecture	 Teacher will explain the contents and provide handouts to students, show samples in the material bureau and guide them to study the material on the internet The student will submit a descriptive or comparative 	3	-	 Blackboard Chalk Handouts Smart Classroom / similar facility Reference books Internet Material bureau 	

			study.			
4.1.3	Different types of aluminum products	• Lecture	Teacher will explain the		• Blackboard	
	· · · · · · · · · · · · · · · · · · ·	 Group discussion 	contents and provide handouts to students, show samples in the material	3	 Chalk Handouts Smart	
	and fittings.		bureau, and guide for study material on the internet. • The student will submit a		Classroom / similar facility • Reference books	
			descriptive or comparative study.		Material bureau	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Written test	Objective, short answer, and descriptive questions	10	• Test paper	External

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

Students will be motivated to explore and collect various catalogues and samples for the standard dimension of steel and aluminum products

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E	Branch (Code	C	ourse	Code	CO Cod e	LO Cod e	Format
\boldsymbol{A}	0	6	1	0	2	5	1	No. 4

COURSE NAME	BUILDING MAT	BUILDING MATERIALS											
CO Description	Student will be al	Student will be able to identify finishing and miscellaneous materials with their uses											
LO Description	Student will be al	ole to enlist and	l identify different	types of paints, di	stemp	ers, var	nishes,	and w	allpap	pers fo	r the r	equired	purpose

SCHEME OF STUDY

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
5.1.1	Types, ingredients, uses, and method		 Teacher will explain 	5		 Blackboard 	
	of application of paints and varnishes	 Group discussion 	the contents and provide		-	• Chalk	
	on different surfaces		handouts to students and			 Handouts 	
			guide for desktop study.			• Smart	
			 The student will submit 			Classroom /	
			a descriptive or			similar facility	
			comparative study.			• Reference books	
5.1.2	Wallpaper; Types, uses, method of	• Lecture	 Teacher will explain 	5		Blackboard	
	application with merits and demerits	 Group discussion 	the contents and provide		-	• Chalk	
		_	handouts to students and			• Handouts	
			guide for desktop study.			• Smart	
			• The student will submit a			Classroom /	
			descriptive or comparative			similar facility	
			study.			• Reference books	

SCHEME OF ASSESSMENT

S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal
1	Written test	• Quiz, Objective, short answer, and descriptive questions	5	• Test paper	Internal

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

SCHEME FOR LEARNING OUTCOME

Bra	nch Co	de	Course Code		CO Code	LO Code	Format	
\boldsymbol{A}	0	6	1	0	2	5	2	No. 4

COURSE NAME	BUILDING MATERIALS
CO Description	Student will be able to identify finishing and miscellaneous materials with their uses
LO Description	Student will be able to describe and identify glass, adhesives, sealing, waterproofing, and lightweight roofing materials with their
	uses

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
5.2.1	Classification, uses, characteristics, performance of glass	Lecture Group discussion	 Teacher will explain the contents and provide handouts to students, show samples in material bureau and guide for desktop study The student will submit a descriptive or comparative study. 	4	-	 Blackboard Chalk Handouts Material bureau Smart Classroom / similar facility Reference books 	
5.2.2	List different types, properties, and application of adhesives, sealing compounds, and waterproofing materials used for different purposes	Lecture Group discussion	 Teacher will explain the contents and provide handouts to students and guide for desktop study The student will submit a descriptive or comparative study 	4	-	 Blackboard Chalk Handouts Smart Classroom / similar facility Reference books 	
5.2.3	Properties, uses, and application of gypsum, rubber, and lightweight roofing materials	• Lecture • Group discussion	 Teacher will explain the contents and provide handouts to students and guide them for desktop study. The student will submit a descriptive or comparative study. 	4	-	 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	Written test	Objective, short answer, descriptive questions	10	• Test paper	External				

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

NIL

SCHEME FOR LEARNING OUTCOME

Е	Branch (Code	C	Course	Code	CO Cod e	LO Cod e	Format
\boldsymbol{A}	0	6	1	0	2	6	1	No. 4

COURSE NAME	BUILDING MATERIALS									
CO Description	Student will be able to collect and present information on the latest building materials for construction and interior work									
LO Description	Student will be able to collect information on the latest building materials through market survey, site visits and present compiled information									

S. No.	Learning Content	Teaching – Learning Method	Description of T-L Process	Teach Hrs.	Pract. /Tut Hrs.	LRs Required	Remarks
6.1.1	Construction site visits, market survey, desktop survey for natural building materials, clay products, cement products, metal, products and finishing materials	Market surveyGroup activity	 Teacher will guide the students through the or site visit, market, and desktop survey. Students will conduct a market survey, collect sample/ data, and make a report or presentation on any one building material. 	8	-	BlackboardChalkSmart Classroom/ similar facility	Teacher will prepare a /checklist, formats for effective market survey, report writing, display, and presentation
6.1.2	Market and desktop survey for alternate, local and sustainable building materials	Market surveyGroup activity	 Teacher will guide the students for case studies, local practices, and researches in building materials Student will collect data from research institutes, the internet, other sources and make a report in a given format 	4		•Blackboard • Chalk • Smart Classroom/ similar facility	Teacher will prepare checklists, formats for effective report writing.

SCHEME OF ASSESSMENT									
S. No.	Method of Assessment	Description of Assessment	Maximum Marks	Resources Required	External / Internal				
1 2	Report Seminar presentation	 Student will prepare report on survey and site visits PPT / Showcase by students on the desired topic 	15	Smart classroomDisplay facility	Internal				

ADDITIONAL INSTRUCTIONS FOR THE HOD/ FACULTY (IF ANY)

- 1. Student will be instructed to survey local/ alternate/ sustainable building materials highlighting their advantages
- 2. Expert lectures will be conducted on the desired topic
- 3. Teacher will encourage students to explore the latest trends in materials and construction practices adopted by architects, professionals, and research organizations like CBRI, AMPRI, HUDCO, etc.