

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF  
ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER  
Session-2022-2023

Discipline: Civil Engg.

Semester: 3rd

Subject: BUILDING MATERIALS AND CONSTRUCTION TECHNOLOGY

Name of the Teaching Faculty: RAJESH KUMAR SAHU

Subject: BUILDING MATERIALS AND CONSTRUCTION TECHNOLOGY No. of Days/per week class allotted 05

Semester From Date: 15-09-22 To Date: 22-12-22 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
15-09-22	Basic description of classification of rock	Brief description of classification of rock	Basic concept about types of rock	<u>Phy</u>
16-09-22	Brief description of use of stone, Natural bed stone	Brief description of use of stone Natural bed stone	Basic concept of stone uses organization	<u>Phy</u>
20-09-22	Qualities of good building stone	Qualities of good building stone	Basic concept of good characteristics of stone	<u>Phy</u>
21-09-22	Dressings of stone	Dressings of stone	Diff. types of dressings	<u>Phy</u>
22-09-22	Types of stone & their uses.	Types of stones & their uses	Stone uses in different places	<u>Phy</u>
23-09-22	Brick earth & its composition	Brick earth It's composition	Composition of good brick earth	<u>Phy</u>
24-09-22	Brick masonry technique	Brick masonry technique	Brick masonry technique	<u>Phy</u>
27-09-22	moulding, drying	moulding, drying	Different types of moulding drying	<u>Phy</u>
28-09-22	Burning of kilns	Burning of kilns	Kiln burning procedure	<u>Phy</u>
29-09-22	Classification of brick	Classification of brick	Different types of bricks	<u>Phy</u>
30-09-22	Qualities of good building brick	Qualities of good building brick	Qualities of good building brick	<u>Phy</u>

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01-10-22	Cement types, properties of cement	Cement types properties of cement	Brief description about cement types & properties	Raj
11-10-22	Manufacturing of cement	Manufacturing of cement	Manufacturing of cement	Raj
12-10-22	Application of blended cement, flyash, blast furnace slag	Application of blended cement, flyash, blast furnace slag	Application of diff types of cement	Raj
13-10-22	Mortar: Definition, types	Mortar: Definition, types	Brief description about mortar & its types	Raj
14-10-22	Source, classification Sand bulking of Sand	Source, classification Sand, bulking of Sand	Brief description about sand, bulking of sand	Raj
15-10-22	Use of gravel, morroum & flyash	Use of gravel morroum, flyash	Use of diff materials like gravel & flyash	Raj
18-10-22	Concrete, definition & composition	Concrete, definition & composition	Concrete definition & composition	Raj
19-10-22	Water cement ratio workability	Water cement ratio workability	Brief description about w/c ratio workability	Raj
20-10-22	Grading, mixing, placing	Grading, mixing placing	Grading, mixing & placing & its uses	Raj
21-10-22	Compact curing of Concrete	Compact, curing of concrete	Compact process, curing process of concrete.	Raj
22-10-22	Timber classification & Sts. of timber	timber classification, sts. of timber	Description about classification of timber & its diff. sts.	Raj



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26-10-22	Seasons of timber & its importance	Seasons of timber & its importance	Seasons of timber & its importance	Ray
27-10-22	Characteristics of good timber	Characteristics of good timber	Diff. features of good timber	Ray
28-10-22	Clay products & refractory material	Clay products & refractory materials	Classification of clay products & refractory materials	Ray
29-10-22	Properties & uses of refractory materials	Property & uses of refractory materials	Refractory material & its use.	Ray
01-11-22	Porcelene glazing iron & steel uses of cast iron	Porcelene glazing Iron & steel use of cast iron	Uses of porcelene glazing, iron & steel	Ray
02-11-22	Wrought iron, mild steel, too steel	Wrought iron, mild steel, too steel	Wrought iron, mild steel, too steel	Ray
03-11-22	Composition of paints & Enamels	Composition of paints & Enamels	Paints - Enamels its types, composition, varieties	Ray
04-11-22	Composition of varnishes	Composition of varnishes	Varnish, Composition, uses practical uses	Ray
05-11-22	Types & uses of surface protective material like paints	Types & uses of surface protective material like paints	Paint, types & uses	Ray
09-11-22	Enamels, varnishes	Enamels, varnishes	Enamels, varnishes uses & types	Ray
10-11-22	Distempers Emulsions	Distempers Emulsion	Distemper, Types of Emulsion etc	Ray

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11-11-22	French polish & wax polish	French polish & wax polish	French polish & wax polish uses types nature	raj
12-11-22	Building & its Classification	Building & its Classification	Building classification types of building Residential, college	raj
15-11-22	Different component of building site	Diff component of building site	Building site components	raj
17-11-22	Investigation objective	Investigation objective	Building investigation sites	raj
18-11-22	Site Reconnaissance & exploration	Site Reconnaissance & exploration	Site Reconnaissance & Exploration	raj
19-11-22	Concept of foundation & its purposes	Concept of foundation & its purposes	Concept of foundation & its purposes	raj
22-11-22	Types of foundation	Types of foundation	Types of foundation - Shallow - Deep	raj
23-11-22	shallow foundation Constructional details	shallow foundation constructional details	shallow foundation Constructional details	raj
24-11-22	Thumb rule for depth width & thickness of concrete block	Thumb rule for depth, width & thickness of concrete block	Concrete block thumb rule for breadth, depth & thickness	raj
25-11-22	Deep foundation & their suitability	Deep foundation & their suitability	Types of deep foundation & uses	raj
26-11-22	Classification of piles based upon materials	Classification of piles based upon materials	Piles classification uses nature	raj

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29-11-22	Function & method of installation	Function & method of installation	Installation of pily & function & methods	RMS
30-11-22	Purpose of wall bearing wall.	Purpose of wall Load bearing wall	Types of wall & its purposes	RMS
01-12-22	Non Load bearing wall, Retaining wall	Non load bearing wall retaining wall	Different types of walls & their uses	RMS
02-12-22	Walls, Classification on brick, stone	walls classification on brick, stone	Construction of walls using brick stone	RMS
03-12-22	Reinforced brick concrete, precast	Reinforced brick concrete, precast	Diff. varieties of brick, concrete	RMS
06-12-22	Concrete block composite masonry wall.	Composite block composite masonry wall	Partition wall its uses & suitability	RMS
07-12-22	Brick masonry	Brick masonry	Different keywords of brick masonry	RMS
08-12-22	Bond, meaning & necessity	Bond, meaning & necessity	Bond, meaning & necessity	RMS
09-12-22	English bond	English bond	Diff. types of English bond	RMS
10-12-22	Partition wall suitability & uses	Partition wall suitability & uses	Partition wall its uses & suitability	RMS
13-12-22	Stone masonry	Stone masonry	Stone masonry string, corbel, Corbel Cornish	RMS



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14-12-22	Ground moulding, template, throating	Ground moulding template, throating	Diff. key terms of stone masonry	raj
15-12-22	Parapet, coping plaster, buttern	Parapet, coping pilaster, buttern	Diff. parts of building component	raj
16-12-22	Glossary term, door & windows, Types of door	Glossary term, Door & windows, Types of door.	Doors term windows term Types of door.	raj
17-12-22	Different types of doors	Types of doors.	Doors & its types	raj
20-12-22	Windows- Types of windows	Types of windows	Windows - terms & its types	raj
21-12-22	Arches, Lintels, floors, Types of floor finish	Arches, Lintels, floors, Types of floor finish	Arches, Lintels, floor term, types	raj
22-12-22	Concrete flooring Terrazzo tile flooring	Concrete floors Terrazzo tile floors	Different varieties of flooring	raj
23-12-22	Roofs, Types of roofs	Roofs, Types of roofs	Roofs & its types	raj
24-12-22	Staircase, Landing, windows, string, newel, tread, rise	Staircase, Landing, windows, newels, tread, rise	Staircase, Different terms	raj
25-12-22	Hand rail, nosing, head room, Types of staircase	Hand rail, nosing, head room, Types of staircase	Discuss about diff types of staircase	raj
28-12-22	Quarter turn, half turn, thread rise stairs case	Quarter turn, half turn, tread start case	Quarter turn, half turn, thread rise stairs case.	raj

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29-12-22	Plastering, Purpose types, plaster finish	Plastering, purpose Types, plaster finish	Plastering types & finishes	PLJ
30-12-22	Mortar, Preparation plastering, curing	Mortar, Preparation plastering, curing	Prepara of mortar, plaster types, curing process	PLJ
02-01-23	Painting, Purpose Types of painting	Painting, Purpose Types of painting	Painting, Purpose, & its types	PLJ
03-01-23	Painting, objectives, methods on wood surface. Types of painting	Painting objectives methods on wood surface. Types of painting	Painting, types, applied in wood surface types	PLJ
04-01-23	White washing Colour washes, Internal & external wall	White washing, colour washes, Internal & external wall	Types of washing its use, Distemper process	PLJ
05-01-23	Damp & termite proofing materials & methods Concept of green building	Damp & termite proofing. Concept of green building	Damp proof methods Introduction to green building	PLJ
07-01-23	Introduction to energy management & Energy audit of building	Introduction to energy management & energy audit of building	Energy audit & Energy management	PLJ
10-01-23	Energy management of building Types of energy audit	Energy management of building. Types of energy audit	Energy management of building, Types of energy audit	PLJ
11-01-23	Respond energy audit questionnaire Energy survey & audit report	Respond energy audit questionnaire Energy survey & audit report	Energy audit & its report	PLJ
12-01-23	Doubt clearing class	Doubt clearing class	Doubt clearing class	PLJ