Discipline: CIVIL	Semester: 5th	Name of Teaching Faculty:-Jyotirmayee Sabar
Subject:- ESTIMATION &	No of Days/Wee	Semester from date: 01.08.2023 to 30.11.2023 No of Weeks: 15
COST EVALUTION -	k Class alloted:-	
Week		The and Table
1st	1st	Theory Topics
	130	1.DETAILED ESTIMATE FOR CULVERT AND BRIDGES: Concept
	2nd	1.1-Detailed estimate of a RCC slab culvert with right angled
		wing walls with bar bending schedule.
	3rd	RCC slab -Basic ,plan ,layout
	4th	RCC Slab BAR Bending schedule
2nd	1st	BBS - Numerical Problems
	2nd	BBS - Numerical Problems
Contract State of	3rd	RCC Culvert-Detailed estimate with example
	4th	RCC Culvert-Detailed estimate with example (Contd.)
3rd	1st	RCC Culvert-Detailed estimate with example(Contd.)
	2nd	1.2-:RCC Hume pipe culvert with splayed angled wing wall
	3rd	RCC Hume pipe culvert with splayed angled wing wall- Numerical Problem
	4th	RCC Hume pipe culvert with splayed angled wing wall- Numerical Problem
4th	Committee of the Commit	2.Estimate of irrigation structures
	2nd	2.1-Detailed estimate of simple type of vertical fall to given specification.
Edition 1		Detailed estimate of simple type of vertical fall to given specification-Numerical Problem
	4th	Detailed estimate of simple type of vertical fall to given specification-Numerical Problem
ith	1st	Detailed estimate of simple type of vertical fall to given specification-Numerical Problem
	2nd	Detailed estimate of simple type of vertical fall to given specification-Numerical Problem
	3rd	2.2-Detailed estimate of drainage siphon to given specification
	4th	Detailed estimate of drainage siphon to given specification- Numerical Problem 1
th	1st [Detailed estimate of drainage siphon to given specification- Numerical Problem 1

	2nd	Detailed estimate of drainage siphon to given specification- Numerical Problem 1
	3rd	Detailed estimate of drainage siphon to given specification- Numerical Problem 2
	4th	Detailed estimate of drainage siphon to given specification- Numerical Problem 2
7th	1st	Detailed estimate of drainage siphon to given specification- Numerical Problem 2
	2nd	Doubt clearing class
	3rd	3.Detailed estimate of roads
	4th	3.1-Detail estimate of a water bound macadam road
8th	1st	Detail estimate of a water bound macadam road
	2nd	Detail estimate of a water bound macadam road- Numerical Problem
	3rd	3.2-Detailed estimate of a flexible pavement in cutting / filling
	4th	Different Methods on Earthwork
9th	1st	Detailed estimate of a flexible pavement in cutting / filling- Numerical Problem
	2nd	Detailed estimate of a flexible pavement in cutting / filling- Numerical Problem
	3rd	3.3-Detailed estimate of septic tank and soak pit for 50 users
	4th	Detailed estimate of septic tank and soak pit for 50 users- Numerical Problem
10th	1st	Detailed estimate of septic tank and soak pit for 50 users- Numerical Problem
	2nd	Detailed estimate of septic tank and soak pit for 50 users- Numerical Problem
	3rd	4.Miscellaneous estimates
	4th	Detailed estimate- Tube well
1th	1st	Detailed estimate -Tube well
	2nd	Detailed estimate- Piles and Pile cap
	3rd	Detailed estimate- Piles and Pile cap
	4th	Detailed estimate- Piles and Pile cap
.2th	1st	Detailed estimate- Piles and Pile cap
	2nd	Detailed estimate- Isolated Footings
	3rd	Detailed estimate- Isolated Footings
	4th	Detailed estimate- Isolated Footings
13th	1st	Detailed estimate- combined footings.

	2nd	Detailed estimate- combined footings.
	3rd	5.PWD Accounts works
	4th	5.1 Works
14th	1st	5.1.1 Classification of work-original, major, petty, repair wor
	2nd	5.1.2 Concept of Method of execution of works through the contractors anddepartment, contract and agreement, work order, types of contract, piece work agreement.
	3rd	5.2 Accounts of works –Administrative approval, technical sanction, tender, preparation of notice inviting tender, quotations, earnest money, E-tendering, security deposit,
	4TH	advance payment, intermediate payment, final payment, running bill, final bill, regular and temporary establishment, cash, major & subhead of account, temporary advance (imprest money), supervision charges, suspenseaccount, debit, credit, book transfer, voucher and related accounts
5th	1st	5.2.2 Measurement book use & maintenance, procedure of marking entries of measurement of work and supply of materials, labour employed, standard measurement books and common irregularity
	2nd	5.2.3 Muster roll: Its preparation & use for making payment of pay & wages 5.2.3 Muster roll: Its preparation & use for making payment of pay & wages
	3rd	5.2.5 Labour & labour report, method of labour payment, use of forms and necessity of Submission 5.2.6 Classification of stores, receipt / issue statement on standard form, method of preparation of stock account, preparation and submission of returns, verification of stocks, shortage and excess
	4TH	5.3 Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.

24/04/2023

Discipline:C IVIL	Semester: 5TH	Name of Teaching Faculty:-TAPAS KUMAR MALLICK
Subject:-	No of Day4/Week	Semester from date: 01.08.23 to 30.11.23
RAILWAY	Class alloted:- 04	No of Weeks: 15
Week	Claas Day	THEORY
	1st RAILWAY	INTRODUCTION : Railway terminology
1st	2nd	Advantages of railways
	3rd	Classification of Indian Railways
	4th BRIDGE	INTRODUCTION TO BRIDGES : Definitions
	1st RAILWAY	PERMANENT WAY: Definition and components of a permanent way
2nd	2nd	Concept of gauge,
	3rd	different gauges prevalent in India
	4th BRIDGE	Components of a bridge
	1st RAILWAY	suitability of these gauges under different conditions
3rd	2nd	suitability of these gauges under different conditions
	3rd	suitability of these gauges under different conditions
	4th BRIDGE	Classification of bridges
	1st RAILWAY	TRACK MATERIALS : Rails
4th	2nd	Functions and requirement of rails
	3rd	Types of rail sections
	4th BRIDGE	Requirements of an ideal bridge
	1st RAILWAY	length of rails
	2nd	Rail joints – types
5th	3rd	requirement of an ideal joint
	4th BRIDGE	BRIDGE INVESTIGATION , HYDROLOGY & PLANNING : Selection of bridge site, Alignment,
	1st RAILWAY	Purpose of welding of rails & its advantages
6th	2nd	Creep- definition
	3rd	cause & prevention
	4th BRIDGE	Determination of Flood Discharge
	1st RAILWAY	Sleepers : Definition
7th	2nd	function & requirements of sleepers
701	3rd	Classification of sleepers
4	4th BRIDGE	Waterway & economic span
	lst RAILWAY	Advantages & disadvantages of different types of sleepers
8th	2nd	Ballast : Functions & requirements of ballast
3	Brd	Materials for ballast
- 4	th BRIDGE	Afflux, clearance & free board
1	st RAILWAY	Fixtures for Broad gauge
2	2nd	Connection of rails to rail-fishplate, fish bolts
9th 3	rd	Connection of rails to sleepers
4	th BRIDGE	BRIDGE FOUNDATION : Scour depth minimum depth of foundation

401		GEOMETRIC FOR BROAD GAUGE: Typical cross – sections of single &
	1st RAILWAY	double broad gauge railway track in cutting
		and embankment
10th	2nd	Permanent & temporary land width
	3rd	Permanent & temporary land width
	4th BRIDGE	Types of bridge foundations – spread foundation,
	1st RAILWAY	Permanent & temporary land width
	2nd	Gradients for drainage
11th	3rd	Gradients for drainage
	4th BRIDGE	pile foundation- well foundation – sinking of wells, caission foundatio
	1st RAILWAY	Gradients for drainage
	2nd	Gradients for drainage
12th	3rd	Super elevation – necessity & limiting valued
	4th BRIDGE	BRIDGE SUBSTRUCTURE AND APPROACHES: Types of piers
	1st RAILWAY	POINTS AND CROSSINGS : Definition, necessity of Points and crossing
13th	2nd	Types of points
	3rd	crossings with tie diagrams
	4th BRIDGE	Types of abutments
	1st RAILWAY	LAYING AND MAINTENANCE : Methods of Laying
14th	2nd	maintenance of track
14111	3rd	Duties of a permanent way inspector
	4th BRIDGE	Types of wing walls
	1st BRIDGE	Approaches
	201 01110 02	
15th	2nd	CULVERT AND CAUSE WAYS: Types of culvers – brief description
15th		<u>CULVERT AND CAUSE WAYS</u> : Types of culvers – brief description Types of causeways – brief description

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Discipline :- CIVIL	Semester:- 5 TH	Name of the Teaching Faculty:- SWAYAN RANJAN MISRA
Subject:-	No of	Semester From:- 01.08.2023 TO 30.11.2023
Structural	Days/per	01.08.2023 TO 30.11.2023
Design-2	Week Class	No of Weeks:- 15
	Allotted :-	, re of weeks. 15
	04	
Week	Class Day	Thorn Tail
1 st	1 st	Introduction Theory Topics
		Common steel structures, Advantages & disadvantages of steel structures
	2 nd	Types of steel, properties of structural steel.
	3 rd	Rolled steel sections, special considerations in steel design.
	4 th	Situational analysis and decises while and
2 nd	1 st	Loads and load combinations, Brief review of Principles of Limit State design
	2 nd	Structural Steel Fasteners and Connections
		Bolted Connections
		Classification of bolts, advantages and disadvantages of bolted connections
	3 rd	billeterit terrificology, spacing and edge distance of holt holes
	4 th	Types of bolted connections. Types of action of fasteners, assumptions and principles of design.
3 rd	1 st	Strength of plates in a joint etrameth of the
		Strength of plates in a joint, strength of bearing type bolts (shear capacity&
		Bearing capacity), reduction factors, and shear capacity of HSFG bolts with example problem.
	2 nd	Analysis & design of Joints using bearing type and HSFG bolts
	3 rd	Efficiency of a joint
	4 th	Wolded Connection
		Advantages and Disadvantages of welded connection
4 th	1 st	Types of welded joints and specifications for welding
	2 nd	Design stresses in welds.
	3 rd	Strength of welded joints.
	4 th	Numerical problem on welded connection
5 th	1 st	Design of Steel tension Members
		Common shapes of tension members
	2 nd	Common shapes of tension members
	3 rd	Analysis and Design of tension members
	4 th	Gross Strength of Tension Member
6 th	1 st	Net Strength of Tension Member
	2 nd	Block Shear Strength of Tension Member
	3 rd	Numerical Problem on Tension Member
	4 th	Numerical Problem on Tension Member
7 th	1 st	Numerical Problem on Tension Member
		Lug angle
		Design of Steel Compression members
		Common shapes of compression members
	4"	Buckling class of cross sections
8 th	1 st	slenderness ratio
	2 nd	Design compressive stress and strength of compression members.

	3 rd	Design compressive stress and strength of
5	4 th	Design compressive stress and strength of compression members. Analysis and Design of compression members
	1 st	Analysis and Design of compression members Numerical and Leading of Compression members
	2 nd	Numerical problem solving
	3 rd	Numerical problem solving
	4 th	Numerical problem solving
10 th	1 st	Design of Steel beams:
		Common cross sections and their classification.
	2 nd	Common cross sections and their
	3 rd	Common cross sections and their classification.
	4 th	Deflection limits According To IS-800
11 th	1 st	web buckling and web crippling. Design of laterally supported by
	2 nd	Design of laterally supported beams against bending and shear. Design of laterally supported by the support of beams against bending and shear.
	3 rd	The state of the s
	4 th	Design of laterally supported beams against bending and shear. Numerical Problem solving
12 th	1 st	Numerical Problem solving
	2 nd	Numerical Problem solving
	3 rd	Design of Tubular Steel Structures:
		Round Tubular Section
	4 th	Permissible Stresses
3 th	1 st	Tubular Compression & Tension Members
	2 nd	Joints in Tubular trusses
	3 rd	Numerical Problem
	4 th	Numerical Problem
4 th	1 st	Design of Masonry Structures: Design considerations for Masonry walls & Columns
	2 nd	Design considerations for Masonry walls & Columns
	3 rd	Load Bearing & Non-Load Bearing walls
	4 th	Permissible stresses, Slenderness Ratio
5 th	1 st	Effective Length, Height & Thickness.
	2 nd	Numerical Problem
	3 rd	Numerical Problem
	4 th	Numerical Problem

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Signature of the concerned Lecturer

Signature of the H.O.D

LESSON PLAN

DISCIPLINE	SEMESTER 5 TH Sem.	Name of the Teaching Faculty: Tapas Ranjan Mishra
ub:	No. of Days	Semester From Date: 01/08/2023 To Date: 30/11/2023
/S&WWE	Per Week: 5	No. of Weeks: 15 Weeks
h.4	Class Allotted	
/eek	Class Day	Theory/Practical Topic
st	1	Nacessity of treated water supply
31	2	Per appite demand variation in demand and factors affecting demand
	-	Methods of forecasting population, Numerical problems using different
	3	methods
	4	Impurities in water – organic and inorganic, Harmful effects of impurities
	5	Analysis of water –physical, chemical and bacteriological
		Water quality standards for different uses
nd	1 .	Surface sources – Lake, stream, river and impounded reservoir
	2	Underground sources – aquifer type & occurrence – Infiltration gallery,
	3	Underground sources – addition type & occurrence
		infiltration well, springs, well Underground sources – aquifer type & occurrence – Infiltration gallery.
	4	Underground sources – aquiter type & occurrence initial sources
		infiltration well, springs, well
	5	Yield from well- method s of determination, Numerical problems using yield
	3	formulae (deduction excluded)
		Yield from well- method's of determination, Numerical problems using yield
3rd		formulae (deduction excluded)
	2	Intakes – types, description of river intake, reservoir intake, canal intake
	3	Pumps for conveyance & distribution - types, selection, installation.
	4	Pine materials – necessity, suitability, merits & demerits of each type
	4	Pipe joints – necessity, types of joints, suitability, methods of jointing
	5	Laying of pipes – method
	1	Flow diagram of conventional water treatment system
4th	1	To the and analogs / units:
		Treatment process / units:
	2 .	Aeration; Necessity Plain Sedimentation: Necessity, working principles, Sedimentation tanks—
		Plain Sedimentation: Necessity, working principles, Sedimentation
		types, essential features, operation & maintenance
		Treatment process / units:
	2	Aeration, Necessity
	3	Plain Sedimentation: Necessity, working principles, Sedimentation tanks –
		types, essential features, operation & maintenance
		Treatment process / units :
		Agration : Necessity
	4	Plain Sedimentation: Necessity, working principles, Sedimentation tanks
		types assential features operation & maintenance
		6-4-montation with coordilation. Necessity principles of coagulation, types
	5	accordants Flash Miver Flocculator Clarifier (Definition and concept only
		Sedimentation with coagulation: Necessity, principles of coagulation, types
5th	1	coagulants, Flash Mixer, Flocculator, Clarifier (Definition and concept only
Jui		coagulants, Flash Mixer, Flocculator, Clarifier (Bermitten and Control of filters
	2	Filtration: Necessity, principles, types of filters
	2	Slow Sand Filter, Rapid Sand Filter and Pressure Filter – essential features
	2	Filtration: Necessity, principles, types of filters
	3	Slow Sand Filter, Rapid Sand Filter and Pressure Filter - essential features
		Disinfection: Necessity methods of disinfection
		Chlorination – free and combined chlorine demand, available chlorine,
	4	residual chlorine, pre-chlorination, break point chlorination, super-
100		chlorination
		Disinfection: Necessity methods of disinfection
		Chlorination – free and combined chlorine demand, available chlorine,
	5	residual chlorine, pre-chlorination, break point chlorination, super-
		chlorination
		Softening of water – Necessity, Methods of softening – Lime soda process
6th	1	Softening of water - Necessity, inclines of softening - Eithe soda process
Otti		and Ion exchange method (Concept Only)
	2	General requirements, types of distribution system-gravity, direct and
		the continue rate to the same for the same f

		Methods of supply – intermittent and continuous
	3	Methods of supply – interimitent and contributes
	4	Distribution system layout – types, comparison, suitability Valves-types, features, uses, purpose-sluice valves, check valves, air valves.
	5	accur valves Fire bydrants Water meters
h	1	Valves-types, features, uses, purpose-sluice valves, check valves, air valves, scour valves, Fire hydrants, Water meters
	2	Method of connection from water mains to building supply
	3	General layout of plumbing arrangement for water supply in single storied
	4	General layout of plumbing arrangement for water supply in single storied and multi-storied building as per 1.S. code.
	5	Aims and objectives of sanitary engineering
h	1	Definition of terms related to sanitary engineering
<u> </u>	2	Systems of collection of wastes—Conservancy and Water Carriage System—
		Quantity of sanitary sewage – domestic & industrial sewage, variation in
	3	savinge flow numerical problem on computation quantity of samilary sewage.
	4	Quantity of sanitary sewage – domestic & industrial sewage, variation in
		Quantity of sanitary sewage - domestic & industrial sewage, variation in
	5	savinge flow numerical problem on computation quantity of sanitary sewage.
		Quantity of sanitary sewage - domestic & industrial sewage, variation in
th	1	sewage flow, numerical problem on computation quantity of sanitary sewage Computation of size of sewer, application of Chazy's formula, Limiting
	2	velocities of flow: self-cleaning and scouring Computation of size of sewer, application of Chazy's formula, Limiting
	3	valorities of flow : self-cleaning and scouring
	4	General importance, strength of sewage, Characteristics of sewage-physical, chemical & biological
	5	General importance, strength of sewage, Characteristics of sewage-physical, chemical & biological
l Oth	1	Concept of sewage-sampling, tests for solids, pH, dissolved oxygen, BOD. COD OD OD OD OD OD OD OD OD O
	2	Concept of sewage-sampling, tests for – solids, pH, dissolved oxygen, BOD, COD
	3	Concept of sewage-sampling, tests for – solids, pH, dissolved oxygen, BOD.
	4	Types of system-separate, combined, partially separate, features, compariso
	5	Types of system-separate, combined, partially separate, features, comparison between the types, suitability
11th	1	Types of system-separate, combined, partially separate, features, comparison between the types, suitability
		Shapes of sewer – rectangular, circular, avoid-features, suitability
	2	Laying of sewer-setting out sewer alignment
	3	Manholes and Lamp holes – types, features, location, function
	4	Inlets, Grease & oil trap – features, location, function
	5	Storm regulator, inverted siphon – features, location, function
12th	1	Disposal on land – sewage farming, sewage application and dosing,
	2	sewage sickness-causes and remedies
	3	Disposal on land – sewage farming, sewage application and dosing, sewage sickness-causes and remedies
	4	Disposal by dilution – standards for disposal in different types of water bodies, self purification of stream
	5	Disposal by dilution – standards for disposal in different types of water
		Disposal by dilution – standards for disposal in different types of water
13th	1	hodies self purification of stream
	2	Principles of treatment flow diagram of conventional treatment
	3	Primary treatment - necessity principles, essential features, functions
	4	Secondary treatment – necessity, principles, essential features, functions

Services

//		Requirements of building drainage, layout of lavatory blocks in residential
//	5	buildings, layout of building drainage Requirements of building drainage, layout of lavatory blocks in residential
4th	1	Requirements of building drainage, layout of lavatory buildings, layout of building drainage Requirements of building drainage, layout of lavatory blocks in residential
	2	Requirements of building drainage buildings, layout of building drainage Plumbing arrangement of single storied & multi storied building as per I.S.
	3	code practice Plumbing arrangement of single storied & multi storied building as per I.S. Plumbing arrangement of single storied & multi storied building as per I.S.
	4	code practice Plumbing arrangement of single storied & multi storied building as per I.S.
	5	code practice and maintenance and fixing of the
5th	1	fixtures – water closets, flushing cisteris, anti-syphonage pipe
	2	fixtures – water closets, flushing elsterns, and
	3	Sanitary fixtures – features, function, and manner and fixtures – water closets, flushing cisterns, urinals, inspection chambers, traps
	4	Sanitary fixtures – features, function, and maintenance fixtures – water closets, flushing cisterns, urinals, inspection chambers, traps
	5	 anti-syphonage pipe Sanitary fixtures – features, function, and maintenance and fixing of the fixtures – water closets, flushing cisterns, urinals, inspection chambers, trapanti-syphonage pipe

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LESSION PLAN

Discipline:	Semester:5th sem.	New Office to the Other
Subject:Building	Seriester. Stirsen.	Name Of The Faculty : Chinmayee Sunani
Material &		
Construction	No. Of Day /per week: 5 class	
Tecghnology	allotted.	Semester From date: 01.08.2023 To Date: 30/11/2023 No of weeks: 15 weeks
Week	Class Day	Semester From date: 01.08.2023 To Date: 30/11/2023 No of weeks:15 weeks Theory/practical Topics
1st	1st	STONE : Classification of rock , uses of stone ,natural bed of stone
	2nd	Quality of good building stone
	3rd	Dressing of stone
	4th	Characteristics of different types of stone and their uses
	5th +	BRICK: Brick earth -its composition
2nd	1st ·	Brick making -preparation of brick earth ,moulding drying ,Burning in kilns
	2nd	Classification of brick , size of traditional and modular bricks , qualities of good building bricks
		7 A See Section of Contract of
	3rd	Cement mortar and concrete:cement types of cement , properties vof cement ,manufactyuring of cement
	4th	important and application of blended cement with fly ash and blast furnace slag
2-4	5th	Mortar :defination and types of mortar
3rd	1st	sourses and classification of sand , bukling opf sand
	2nd	Use of gravel , morrum and fly ash as different building material
	3rd	Concrete: defination and composition - water cement ratio - workability, mecanical properties and grading of
	4th	aggregate , mixing , placing , compacting and curing of concrete.
	5th	OTHER CONSTRUCTION MATERIALS :Timber :classification and structure of timber
4th	1st	seasoning of timber importance
	2nd	Characteristics of good timber
Desire and the	3rd	Clay product and refractory materials - Defination and classification
The Control	4th	properties and uses of refractory materials - tiles ,terracotta,porcelains glazing
	5th	Iron and steel :use of cast ,wrought iron ,mild steel and tor steel
5th	1st	SURFACE PROTECTIVE MATERIALS:composition of paints ,enamels ,vernishes.
		types and uses of surface protective materials like asiate asset as a like in the same and the same as a like asiate as a lik
	2nd	types and uses of surface protective materials like paints ,enamels ,vernishes ,distempers ,emulsion ,french polish and wax polish.
		types and uses of surface protective materials like paints ,enamels ,vernishes ,distempers ,emulsion ,french
	3rd .	polish and wax polish.
	4th	CONCEDICTION TECHNOLOGY
	5th	CONSTRUCTION TECNOLOGY: introduction : building and classification of building based on occupancy
6th	1st	Different component of building
	2nd	site investigation - objectives, site reconnaissance and explorations. foundation : concept of foundation and its purpose
		shallow foundation details of; spread foundation for walls, thumd rules for depth and width of foundation and
	3rd	thickness of concrete block
		Deep foundation :pile foundation -their suitability ,classification of piles based on materials , function and
	4th	method of installation.
	5th	WALLS & MASONARY WORKS:PURPOSE OF WALLS
7th	1st	classification of walls -load bearing ,non load bearing walls ,retaining walls
		classification of walls as per materials of construction :brick , stone ,reinforcement brick ,reinforced concrete
	2nd	precrete , precast ,hollow and solid concrete block and composite masonary walls
		classification of walls as per materials of construction :brick , stone ,reinforcement brick ,reinforced concrete
	3rd	,precrete , precast ,hollow and solid concrete block and composite masonary walls
	4th	partition walls :suitability and uses of brick and wooden partition walls
	5th	brick masonary: DIFFERENT TERMS
		Bond - meaning and necessary : english bond for 1 and 1-1/2 brick walls ,T, X and right angaled corner juction
Bth	1st	s.Thickness for 1 and 1/2 brick square pillars in english bond
	2nd	Stone masonary
		Glossary of terms - string course ,corbel ,cornice ,block -in-course ,grouting ,moulding ,templates ,throating,
	3rd	through stones ,parapet ,coping ,pilaster and buttress
	4th	DOORS , WINDOWS AND LINTELS :Glossary of terms used in doors and windows
(A)	5th	doors - different types of doors
ith	1st	windows - different types of windows
	2nd	purpose of use of arches and lintels
		FLOORS, ROOFS AND STAIRS: FLOORS: glossary of terms, types of floors finishes -cast in situ, concrete flooring
	3rd	terrazo tile flooring ,cast in situ terrazzo flooring, timberflooring
		Roofs :glossary of terms ;stair case ,winder ,landing ,strings , newels ,bluster ,rise ,tread .width of stair case
	4th	hand nail ,nosing head room ,mumty room.
		Stairs :glossary of terms ;stairs case ,winder ,landing ,stringer ,newel ,baluster.rise ,tread,width of stair case
	5th	hand rails nosing head room, mumty room
01	Anatha Park	various type of stair case - straight flight ,dog legged ,open well ,quater turn ,half turn ,bifurcated stair, spiral
.Oth	1st	stairs ,tread riser stair.
		various type of stair case - straight flight ,dog legged ,open well ,quater turn ,half turn ,bifurcated stair, spiral
	2nd	stairs , tread riser stair.

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		PROTECTIVE , DECORATIVE , FINISHES , DAMP AND TERMITE PROOFING: PLASTERING - purpose - types of
		plastering , types of plaster finishes -Grit finishes rough cast , smooth neast sand faced pebble dash , acoustic
1	3rd	plastering and plain polaster etc
11	310	PROTECTIVE , DECORATIVE , FINISHES , DAMP AND TERMITE PROOFING: PLASTERING - purpose - types of
//		plastering , types of plaster finishes -Grit finishes rough cast , smooth neast sand faced pebble dash , acoustic
	4th	plastering and plain pOlaster etc
	4111	PROTECTIVE , DECORATIVE , FINISHES , DAMP AND TERMITE PROOFING: PLASTERING - purpose - types of
		plastering ,types of plaster finishes -Grit finishes rough cast ,smooth neast sand faced pebble dash ,acoustic
	5th	plastering and plain polaster etc
	301	PROTECTIVE , DECORATIVE , FINISHES , DAMP AND TERMITE PROOFING: PLASTERING - purpose - types of
		plastering ,types of plaster finishes -Grit finishes rough cast ,smooth ncast sand faced pebble dash ,acoustic
2011		plastering and plain polaster etc
11th	1st	prastering and prant polaster etc
	2-4	propertion of mortars used for different plasters ,preparation of mortars ,techniquies of plastering curing
	2nd	pointing - purpose -types of ponting
	3rd	painting - purpose types of pointing painting - policities - power painting - objective -method of painting new and old walls surfacees ,wood surface and metal surfaces - power
	aut.	coating and spay painting on metal surfaces
	4th	painting - objective -method of painting new and old walls surfacees ,wood surface and metal surfaces - power
	F.L	coating and spay painting on metal surfaces
4 8 1	5th	white washing- colour washing - distempering - internal and external walls
12th	1st	white washing- colour washing - distempering - internal and external walls
	2nd	white washing-colour washing - distempering - internal and external walls
	3rd	Damp and termite proofing - materials and methods
	4th	Damp and termite proofing - materials and methods Damp and termite proofing - materials and methods
	5th	Damp and termite proofing - materials and methods Damp and termite proofing - materials and methods
13th	1st	
	2nd	concept of green building
	3rd	concept of green building
	4th	concept of green building
	5th	introduction to energy management and energy audit of building
14th	1st	introduction to energy management and enargy audit of building
	2nd	introduction to energy management and enargy audit of building
	3rd	Aims of energy management ofbuildings
	4th	Aims of energy management ofbuildings
	5th	Aims of energy management ofbuildings
15th	1st	types of enargy audit , response enargy audit questionnarire
	2nd	types of enargy audit , response enargy audit questionnarire
	3rd	enargy surveying and audit report
V	4th	enargy surveying and audit report
	5th	enargy surveying and audit report

Chief23

Rabar

LESSION PLAN

		LESSION PLAN		
Discipline:	Semester:5th sem.	Name of the Teaching Faculty: Chinmayee Sunani		
Subject: Entrepreneurship Mnagement &	No. Of Day /per week: 4 class			
Smart Technology	allotted.	Semester From date: 01.08.2023 To Date: 30/11/2023 No of weeks:15 weeks		
Week	Class Day	Theory/practical Topics		
lst	1st	ENTREPRENEURSHIP: Concept / meaning of entrepreneurship		
	2nd 3rd	Need of entrepreneurship		
	4th	Characteristics , qualities and types of entrepreneur , functions		
nd	1st	Barriers in entrepreneurship Entrepreneur vrs.Manager		
EHU	2nd	forms of bussiness ownership : sole proprietorship , partnership forms and others		
	3rd	Types of industries , concept of start ups		
	4th	Entrepreneurial support agencies at national, state ,district level: DIC,NSIC ,OSIC, SIDBI,NABARD ,commercial bank ,KVIC etc		
3rd	1st	technology business incubators (TBI) and science and technology entrepreneur park		
	2nd	MARKET SURVEY AND OPPORTUNITY INDENTIFICATION 9BUSINESS PLANNING): -Bussiness planning		
	3rd	ssi ,ancillary units , tiny units ,service sector units		
	4th	time schedule plan , agencies to be contacted for project implementation		
4th	1st	Assessment of demand and supply and potential areas of growth		
	2nd	Identifying business opportunity		
	3rd	final product selection		
Eth	4th	PROJECT REPORT PREPARATION: Defination of management		
5th	1st •	principle of management		
	3rd	function of management		
	310	Level of management in an organisation		
	4th	FUNCTION AREAS AND OF MANAGEMENT : PRODUCTION MANAGEMENT : function , activities & productivity		
6th	1st	quality control ,production planning and control		
	2-4			
	2nd	INVENTORY MANAGEMENT: need for inventory management, models /techniques of inventory management Financial management : function of financial management : function of financial management, management		
	3rd	working capital,coasting,break even enelysis		
	4th	brief idea about according terminologies : book keeping , journals entry petty cash book , P & L ACCOUNTS. Balances sheets		
7th	1st	brief idea about according terminologies : book keeping , journals entry petty cash book , P & L ACCOUNTS,		
		marketing management : concept of marketing marketing management KET SURVEY AND OPPORTUNITY		
	2nd	INDENTIFICATION 9BUSINESS PLANNING): -Bussiness planning		
	3rd	concept of 4p s,maketing techniquies		
	4th	human reasource management ,function of personal manage manent		
8th		man power planning , requirment , sources of man power, selection process , methods of testing methods of		
	1st	training & development ,payment of wages		
	2nd	LEADERSHIP &MOTIVATION: LEADERSHIP: defination need /importance		
	3rd	qualities and function of a leader		
9th	4th	importance of motivation		
500	2nd	factors affecting motivation		
	3rd	theorities of motivation method of improving motivation		
	4th	importance of communication in bussiness		
10th	1st	types and barriers of communications inbussiness		
	2nd	WORK ,CULTURE ,TQM & SAFETY: human relationship and performance in organization		
	3rd	WORK ,CULTURE ,TQM & SAFETY: human relationship and performance in organization		
	4th	relationships with peers , superiors and sub ordinatets		
11th	1st	relationships with peers , superiors and sub ordinatets		
	2nd	TQM concepts : qualities policy ,quality management ,quality system		
	3rd	TQM concepts : qualities policy ,quality management ,quality system		
	4th	Accident and safety , causes ,preventatives ,measures general safety ,rural personal protection equipment		
12th	1st e	Accident and safety , causes ,preventatives ,measures general safety ,rural personal protection equipment		
	2nd	Accident and safety , causes ,preventatives ,measures general safety ,rural personal protection equipment		
	3rd	legislations : intellecutual property , patents ,trade mark , copy right		
	4th	legislations : intellecutual property , patents ,trade mark , copy right		
13th	1st	legislations : intellecutual property , patents ,trade mark , copy right		
	2nd	feactures of factories act 1948 with amendenment		
	3rd	feactures of factories act 1948 with amendenment		
	4th	feactures of factories act 1948 with amendenment		

1st	feactures of payment of wages act 1936 (only silents point)	
2nd	feactures of payment of wages act 1936 (only silents point)	
3rd	feactures of payment of wages act 1936 (only silents point)	
4th	feactures of payment of wages act 1936 (only silents point)	
1st	SMART TECHNOLOGY : Concept of IOT ,how IOT works	
2nd	SMART TECHNOLOGY : Concept of IOT ,how IOT works	
	SMART TECHNOLOGY : Concept of IOT ,how IOT works	
3rd	component of IOT, characteristics of IOT , categories of IOT	
4th	applictions of IOT -smart cities ,smart aggriculture , smart enargy mans	

Chart 23