		A STATE OF THE PARTY OF THE PAR	LESSON PLAN				
DISCIPLINE: CIVIL ENGINEERING	SEMEST	ER: 5 th	NAME OF THE TEACHING FACULTY: Er. Abhisek Muni				
SUBJECT: Estimation & Cost Evaluation -II	NO. OF DAY/WE CLASS A 05	EEK ALLOTED:	SEMESTER FROM DATE: 01-08-2023 TO DATE: 30-11-2023 NO. OF WEEKS: 15				
WEEKS	CLASS DATE		THEORY / PRACTICAL TOPIC				
	1st	2/8/23	Introduction culvert & bridge				
	2nd	4/8/23	RCC slab culvert earthwork excavation, 1st class brick work				
First	3rd	5/8/23	1st class brick work, Cement concrete				
	4th	7/8/23	RCC slab culvert RCC work, Steel Bar				
	5th						
Lance of the second	1st	9/8/23	RCC slab cement concrete wearing coat, Cement pointing				
	2nd	11/8/23	Estimate cost of RCC slab				
Second	3rd	12/8/23	Doubt clear class				
	4th	14/8/23	Revision				
	5th						
	1st	16/8/23	Introduction of hume pipe culvert				
	2nd	18/8/23	Humepipe earthwork excavation, cement concrete				
Third	3rd	19/8/23	1st class brick work				
	4th	21/8/23	Cement pointing				
1	5th	10 10 0					
=	1st	23/8/23	Abstract estimate of humepipe				
	2nd	25/8/23	Doubt clear class Revision / Practice				
Fourth	3rd	26/8/23	Introduction vertical fall				
	4th	28/8/23	Introduction vertical fan				
	5th	04/0/22	Earthwork excavation				
A second	1st		Cement Concrete, 1st class brickwork				
	2nd	02/9/23	Brick on edge floor, Cement pointing				
Fifth	3rd	04/9/23	Drick off edge from, committee permittee				
e e e	4th						
	5th	08/9/23	Brick Pitching, Abstract				
	1st	08/9/23	Revision				
	2nd	11/9/23	Surprise Test				
Sixth	3rd		Introduction Syphon				
人	4th	13/9/23	Earth excavation, cement concrete				
	5th	15/9/23	1st class brick work, RCC slab				
	1st	16/9/23	Brick Floor, Cement Struck				
	2nd	18/9/23	Brick Pitching, Abstract				
Seventh	3rd	22/9/23	Revision				
\$ · !	4th	23/9/23	KCYISIOH				
	5th	25/0/22	Introduction WBM road				
	1st	25/9/23	Problem solve				
100	2nd	27/9/23	Problem solve Problem solve				
Eighth	3rd	29/9/23	Theory Discussion				
	4th	30/9/23	THEORY DISCUSSION				
	5th						

	1	Ist	04/10/23	Introduction of flexible pavement	
		2nd	CONTRACTOR OF THE PROPERTY OF	Methods of Cutting/Filling	
	Ninth	3rd	07/10/23	SELECT OF THE PROPERTY OF THE	
	2 - 221-24	4th	09/10/23	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	
		5th	and the state of t		
		lst	11/10/23	Introduction of Septic tank, Soak pit	
	e de la companya de l	2nd	13/10/23	Earthwork excavation, Cement concrete, 1st class brickwork	
	Tenth	3rd	16/10/23	R.B work, RCC work, Plastering, CC flooring	
		4th	The state of the s		
		5th	Taylor &	<u> </u>	
		lst	18/10/23	2nd class brickwork, Jhama brick	
	Land In	2nd	20/10/23	Introduction tube well	
	Eleventh	3rd	30/10/23	Piles & pile cap	,
	1	4th		1	
-		5th	- Control of the Cont		
	in i	lst	01/11/23	Isolated footing	-
Twelfth		2nd	03/11/23	Combined footing	
	Twelfth	3rd	04/11/23	Problems	
Service Control	Ť	4th	06/11/23		
The same of the sa	4	5th			*
T		1st	08/11/23	Surprise test	
	=	2nd	10/11/23	Classification of works	
No.	Thirteenth	-	-	Concept method of execution of works through contractor	
MCD-man	1		-	Explanation of various terms	
Picketon.	Thirteenth 3rd 11/11/23 4th 13/11/23 5th	20, 22, 20	2. Parameter and the second se	311	
-		1st	15/11/23	Continue various terms	
		2nd	17/11/23	Measurement book use & maintenance	
S SAN SAN SAN SAN SAN SAN SAN SAN SAN SA	Fourteenth:	3rd	18/11/23	Muster roll	4
	I our teenting	4th	20/11/23	Acquittance roll	
	1	5th	20/11/23	Acquittance for	
	1	-	22/11/22	Labour & labour report	
	A I	1st			
		2nd			
	Fifteenth	3rd		Building by laws & regulatory bodies	
	-	4th	29/11/23	Revision	100
		5th			1
		1st	,	3.	
		2nd	1-	No. of the second secon	203
	Sixteenth	3rd	1, 11, 1		
		4th			
		5th			
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			LESSON PLAN					
DISCIPLINE: CIVIL ENGINEERING	SEMESTER: 4th		NAME OF THE TEACHING FACULTY: Er. Abhisek Muni					
SUBJECT: Highway	DAY	O. OF AVEEK LASS	SEMESTER FROM DATE: 16-01-2024 TO DATE: 26-04-2024 NO. OF WEEKS: 15					
Engineering		TED: 04						
WEEKS	CLASS DAYS	DATE	THEORY / PRACTICAL TOPIC					
	lst	16/01/24	Importance of highway transportation					
	2nd	17/01/24	Functions of IRC					
First	3rd	18/01/24	IRC classification					
	4th	19/01/24	Organisation of state highway department					
19	5th							
	1 st	22/01/24	Road Geometrics, various terms used					
	2nd	24/01/24	Right of way, Formation width, road margin					
Second	3rd	25/01/24	Road shoulder, Carriage way, side slope etc.					
	4th		Table Sales					
71,	5th		Technology (In the Control of the Co					
	1st	29/01/24	Design & avg. running speed, SSD & problems.					
	2nd	31/01/24	OSD & related problems.					
Third	3rd	01/02/24	Necessity of curve, horizontal & vertical curve					
	4th							
4 42	5th		to ation related problems					
	1st	05/02/24	Transition curve, super elevation, related problems.					
	2nd	07/02/24	Different types of road materials, soil, aggregate					
Fourth	3rd	08/02/24	Function of soil as highway sub-grade					
	4th	09/02/24	CBR test how to find CBR value					
	5th	100 100	The state of a program types of all test					
	1st		Testing of aggregate, types of all test Road pavements, types of pavement, merits & demerits.					
	2nd	15/02/24	Typical cross section, function of various components.					
Fifth	3rd	16/02/24	Typical cross section, function of various components.					
	4th							
	5th	100 100	C. L. avada proparation					
	1st	19/02/24	Sub grade preparation					
	2nd	21/02/24	Continue previous class Sub base course, necessity of sub base					
Sixth	3rd	22/02/24						
	4th	23/02/24	Type of stabilization					
A CONTRACTOR OF THE CONTRACTOR	5th	20122121	Base Course, Preparation of base course					
8.	1st	26/02/24	WBM & WMM, difference, how to construct					
	2nd	28/02/24	Bituminous constructions: types					
Seventh	3rd	29/02/24						
	4th	01/03/24	Surfacing, surface dressing					
	5th	0.100.10	Bituminous concrete, discussion previous class topic					
	lst	04/03/24	Greating how it is used					
A Company	2nd	06/03/24	Grouting, how it is used					
Eighth	3rd	07/03/24	Surprise test					
	4th	The state of the state of						
	5th							

lst	** TRANSPORT AND	Rigid pavement fundamental idea
2nd	13/03/24	Concept of concrete roads as per IRC
3rd	14/03/24	Continue previous class
4th	15/03/24	Hill road, introduction, typical cross section
5th	Spharocopy and Committee Committee Committee	and the control of th
lst	18/03/24	Continue
2nd		Different parts of hill roads.
3rd		Repeat & discuss previous class
	22/03/24	Necessity of road drainage
-		
		Class test
	28/03/24	Cross Drainage work how it is constructed
		continue
		Surface & sub surface drains, how it is constructed
	05/04/24	Storm water discussion
5th		
1st	08/04/24	Location, spacing of drains
2nd	10/04/24	Typical details of side drains
3rd	12/04/24	How side drains constructed etc
4th		
5th		
1st	15/04/24	Side ditches for surface drainage
2nd	18/04/24	Intercepting drains, Pipe drains ion hill roads
3rd	19/04/24	Details of drains in cutting embankment
4th	1 1	
	2 4 14	·
	22/04/24	Typical cross section of drainage system
		Asphalt mixer & tar boilers, maintenance of concrete road
5th	20/04/24	
	2nd 3rd 4th 5th 1st 2nd 3rd	2nd 13/03/24 3rd 14/03/24 4th 15/03/24 5th 181 18/03/24 2nd 20/03/24 3rd 21/03/24 4th 22/03/24 5th 1st 27/03/24 2nd 28/03/24 3rd 4th 5th 1st 03/04/24 2nd 04/04/24 3rd 05/04/24 4th 5th 1st 08/04/24 4th 5th 1st 15/04/24 4th 5th 1st 27/03/24 4th 5th 1st 28/03/24 3rd 10/04/24 3rd 10/04/24 3rd 10/04/24 3rd 10/04/24 3rd 12/04/24 4th 5th 1st 22/04/24 4th 5th 1st 22/04/24 3rd 19/04/24 3rd 19/04/24 3rd 19/04/24 3rd 19/04/24 3rd 24/04/24 3rd 25/04/24

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			LESSON PLAN		
DISCIPLINE: CIVIL ENGINEERING	SEME	STER: 4th	NAME OF THE TEACHING FACULTY: Er. Sibani Sahu		
SUBJECT: Land Survey-1 TH-3	NO. OF DAY/WEEK CLASS ALLOTED: 05		SEMESTER FROM DATE: 01-02-2024 TO DATE: 26-04-2024 NO. OF WEEKS:13		
WEEKS	CLASS DAYS	DATE	THEORY		
	lst	01-02-24	Introduction to survey, LINEAR MEASUREMENTS, Surveying: Definition, Aims and objectives		
First	2nd	02-02-24	Principles of survey-Plane surveying- Geodetic Surveying- Instrumental surveying		
riist	3rd		Control of the contro		
They	4th	1-7-			
Marie Co	5th				
L. Salar	1st	05-02-24	Precision and accuracy of measurements, instruments used for measurement of distance, Types of tapes and chains.		
	2nd	06-02-24	Errors and mistakes in linear measurement – classification, Sources of errors and remedies.		
Second	3rd	07-02-24	Corrections to measured lengths due to-incorrect length, temperature variation, pull, sag, numerical problem applying corrections.		
	4th	08-02-24	chaining and chain survey, Equipment and accessories for chaining		
	5th	09-02-24	Ranging – Purpose, signalling, direct and indirect ranging, Line ranger – feature and use, error due to incorrect ranging.		
	1st	12-02-24	Methods of chaining – Chaining on flat ground, Chaining on sloping ground – stepping method, Clinometer-features and use, slope correction.		
	2nd	13-02-24	Setting perpendicular with chain & tape, Chaining across different types of obstacles – Numerical problems on chaining across obstacles.		
Third	3rd	15-02-24	Purpose of chain surveying, Its Principles, concept of field book. Selection of survey stations, base line, tie lines, Check lines.		
	4th	16-02-24	Offsets – Necessity, Perpendicular and Oblique offsets, Instruments for setting offset – Cross Staff, Optical Square.		
	5th	and the part of the			
	1st	19-02-24	Errors in chain surveying – compensating and accumulative errors causes & remedies, Precautions to be taken during chain surveying		
	2nd	20-02-24	Angular measurements and compass surveying, Measurement of angles with chain, tape & compass Compass – Types, features, parts, merits & demerits, testing & adjustment of		
Fourth	3rd	21-02-24	compass — Types, Teatures, parts, ments & dements, testing & adjustment of compass Designation of angles- concept of meridians — Magnetic, True, arbitrary; Concept		
	4th	22-02-24	of bearings – Whole circle bearing, Quadrantal bearing, Reduced bearing, suitability of application, numerical problems on conversion of bearings		
	5th	23-02-24	Use of compasses – setting in field- centering, levelling, taking readings, concept of Fore bearing, Back Bearing, Numerical problems on computation of interior & exterior angles from bearings.		
	1st	26-02-24	Effects of earth's magnetism – dip of needle, magnetic declination, variation in declination, numerical problems on application of correction for declination.		
i.	2nd	27-02-24	Errors in angle measurement with compass – sources & remedies.		
Fifth	3rd	28-02-24	Principles of traversing – open & closed traverse, Methods of traversing.		
	4th	29-02-24	Local attraction – causes, detection, errors, corrections, Numerical problems of application of correction due to local attraction.		
	5th		Errors in compass surveying – sources & remedies.		

	lst	04.03	
Sixth		04-03-24	Plotting of traverse - check of closing error in closed & open traverse, Bowditch's
Oixin	2nd	06-03-24	
	3rd	ALL PROPERTY OF THE PARTY OF TH	Study of direction, Scale, Grid Reference and Grid Square Study of Signs and
	4th	07-03-24	Symbols Cadastral Map Preparation Methodology
	5th	And the same of th	Options and appropriate the control of the control
	1st	and the second s	
Seventh	2nd	11-03-24	Unique identification number of parcel
- CHILI	3rd	12-03-24	Decisions of existing Control Points and its types
	4th	13-03-24	Adjacent Boundaries and Features, Topology Creation and verification. Adjacent Boundaries and Features, Topology Creation and verification.
	5th	14-03-24	PLANE TABLE SURVEYING, Objectives, principles and use of plane table surveying.
t postilist and		15-03-24	Instruments & accessories used in plane table surveying. Methods of plane table surveying – (1) Radiation, (2) Intersection, (3) Traversing,
	lst	18-03-24	(4) Resection.
	2nd	19-03-24	the second of th
Eighth	3rd	20-03-24	Errors in plane table surveying and their corrections, precautions in plane table
91111			supposing.
	4th	21-03-24	Definition of theodolite surveying
	6.1	22-03-24	Theodolite surveying, Purpose, Definition of theodolites. Transit theodolite- Description of features, component parts, Fundamental axes of a theodolite, concept of vernier, reading a vernier, Temporary adjustment of
- A	5th		a theodolite, concept of vernier, reading a vernier, remposer,
εH ₂ 1	1st		theodolite Concept of transiting –Measurement of horizontal and vertical angles.
	151	27-03-24	the service bearings detlection dilete, uncertained
	2nd	28-03-24	Measurement of magnetic bearings, deflection angles, prolonging a straight line with theodolite, Errors in Theodolite
Ninth	2	28-03-24	observations.
	3rd		
	4th	wij .	
	5th		in the Landshort deflection angle
		02-04-24	Methods of theodolite traversing with – inclined angle method, deflection angle
	1st		method, bearing method, Plotting the traverse by coordinate method, Checks for
		h .	open and closed traverse. Traverse computation – consecutive coordinates, latitude and departure, Gale's
	24	03-04-24	traverse table, Numerical problems on omitted measurement of lengths &
Touth	2nd		hassings
Tenth		04-04-24	Closing error – adjustment of angular errors, adjustment of bearings, numerical
	3rd		
	441-	05-04-24	Balancing of traverse – Bowditch's method, transit method, graphical method, axi
	4th		method, calculation of area of closed traverse
n*	5th		
	1st	08-04-24	Levelling and contouring, Definition and Purpose
İ	2nd	09-04-24	Types of levelling – concepts of level surface, Horizontal surface, vertical surface,
	2nd	7"7	datum, R. L., B.M.
Eleventh	3rd	10-04-24	Instruments used for levelling, concepts of line of collimation, axis of bubble tube
Elevenin	Jiu		axis of telescope, Vertical axis. Levelling staff – Temporary adjustments of level, taking reading with level, conce
1 4	4th	12-04-24	
* 4.			of bench mark, BS, IS, FS, CP, HI.
	5th		Field data entry – level Book – height of collimation method and Rise & Fall
	.		method, comparison, Numerical problems on reduction of levels applying both
>	lst	15 04 24	method, comparison, Numerical problems on reduction extension, numerical problems on reduction extension extension.
		15-04-24	Effects of curvature and refraction, numerical problems on application of
	2nd	16-04-24	correction
m 101		10.04.04	Resigned Levelling - principles, methods, numerical problems, precise levelling
Twelfth	2-4	18-04-24	Errors in levelling and precautions, Permanent and temporary adjustments of
190 P	3rd		different types of levels
		19-04-24	Methods of contouring, plotting contour maps, Interpretation of contour maps,
	4th	19-04-24	toposheets .Map Interpretation: Interpret Human and Economic Activities
- 277 V. July 192	The second secon		topositoto ittiop itti

Thirteenth	Determination of areas, computation of areas from plans. Calculation of area by using ordinate rule, trapezoidal rule, Simpson's rule. Calculation of volumes by prismoidal formula and trapezoidal formula, Prismoidal corrections, curvature correction for volumes.
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			L	LESSON PLAN			
DISCIPLINE: CIVIL ENGINEERING	SEMEST	ER: 6th	NA	NAME OF THE TEACHING FACULTY: Er. Alok Kumar Biswal			
SUBJECT: LAND SURVEY-II	NO. DAY/W CLA ALLOT	WEEK ASS	5	SEMESTER FROM DATE: 16-01-2024 TO DATE: 26-04-2024 NO. OF WEEKS:15			
WEEKS	CLASS DAYS	DATE		THEORY / PRACTICAL TOPIC			
	1st	16/1/24	Pr	rinciples, Stadia constant determination			
	2nd	17/1/24	_	tadia Tacheometry with staff held vertical			
First	3rd	18/1/24	Li	ine of sight inclined with staff vertical and normal			
	4th	1/1/24	Li	ine of sigh inclined with staff held normal			
	5th						
	1st	22/2/24		Problems			
	2nd	24/1/24		Elevation and distance of staff station and problems			
Second	3rd	24/1/24	T	Definition, use, types of curve			
	4th			All And			
The Windship	5th	R .					
	1st	29/1/24		Elements of circular curves with problems			
	2nd	30/1/24		Preparation of curve table for setting out			
Third	3rd	31/1/24		Offsets from long chord and tangent			
	4th	1/2/24		successive bisection of arc, offset from chord produced			
	5th	2/2/24	_	Rankines method of tangent angles			
	1st	5/2/24		Obstacles in curve ranging			
	2nd	6/2/24		Definition and types of scale. What is map and map scale?			
Fourth	3rd	7/2/24		How maps convey location, Extent and characteristics of feat			
	4th	8/2/24	-	How map convey spatial relationship			
	5th	9/2/24	4	Physical map, Topographic map			
	1st	12/2/24		Road map, Political map, Economic and resources map			
	2nd	13/2/24		Thematic map and climatic map			
Fifth	3rd	15/2/2		Open series map			
1 1101	4th	16/2/2		Defense series map			
	5th	10,-,					
		19/2/2	71	Quadrangle name, latitude, Longitude, UTMs			
	1st			Contour lines, Magnetic declination			
	2nd	20/2/2		C1 - 1			
Sixth	3rd	21/2/2		A talakatagraphy film scale			
	4th	22/2/2		has focal longth			
	5th	23/2/2	24	Types of aerial photography, focal length			
	1st	26/2/2		Introduction and classification of Photogrammetry			
	2nd	27/2/2					
	1 1 2 2			- 1 Dlatogrammetry			
Seventh	3rd	28/2/		ation practices			
	4th	29/2/	24	Revision and question practices			
	5th	1/3/2	24	Acquisition of imagery using aerial and satellite			

	1st	4/3/24	control survey
	2nd	6/3/24	Geometric distortion in imagery
Eighth	3rd	7/3/24	Previous year question practice
	4th		
	5th		
	1st	11/3/24	DTM generation and ortho image generation
N	2nd	12/3/24	Principle, feature of micro- optic theodolite Use of micro-optic theodolite
Ninth	3rd	13/3/24	Principle, features of digital theodolite
	4th	14/3/24	Principle, leatures of digital theodolic
	5th	15/3/24	Use of digital theodolite
	1st	18/3/24	Introduction to total station
Tenth	2nd	19/3/24	Working principle of a total station'
1 CHHI	3rd	20/3/24	Measurement angle
	4th		Revision with question practice
	5th	22/3/24	Introduction to GPS
	1st	28/3/24	Working principle, signals and errors
Eleventh	2nd	28/3/24	Wolking principle, significant
Elevelilli	3rd		
	4th		
	5th	2/4/24	Introduction to DGPS
	1st	2/4/24	Download, post-process and export gps data
m 101	2nd	3/4/24	Sequence to download, post-process and export
Twelfth	3rd	4/4/24	ETS, Distance measurement
	4th	5/4/24	E13, Distance media small
	5th	0/4/24	Leveling and angle measurement
	1st	8/4/24	Determination position, Reference network, Error
	2nd	9/4/24	Revision and question practice
Thirteenth	3rd	10/4/24	Revision and question practice
	4th	12/4/24	Introduction to GIS, spatial and attribute info
The second second	5th		
	1st	15/4/24	Three views of information system
	2nd	16/4/24	Attribute data and management and meta data concept
Fourteenth	3rd	18/4/24	Prepare and adding to Arc map, Organizing data as layer
	4th	19/4/24	Editing layer, switching layout view.
	5th		
	1st	22/4/24	Change page orientation, Removing boarders
		23/4/24	Adding Editing and finalize the map
	2nd		10 Line properties of CH-1 and LH-2
Fifteenth	3rd	24/4/24	1.0 stien proctice
	4th	25/4/24	Revision and Question practice
	5th	26/4/24	Revision and Question practice

es punhagasti na pringi vingarharini. Natu si uz takati sharinani eth vigo tast siste di Atao (Alien da Alienta			LESSON PLAN			
DISCIPLINE: CIVIL ENGINEERING	SEME	ESTER: 6th	NAME OF THE TEACHING FACULTY: Er. G Bishnu Kumari			
SUBJECT: Advance Construction Techniques& Equipments	Advance NO. OF DAY/WEEK CLASS ALLOTED: 04		SEMESTER FROM DATE: 16-01-2024 TO DATE: 26-04-2024 NO. OF WEEKS: 15			
WEEKS	CLASS DAYS	DATE	THEORY / PRACTICAL TOPIC			
	lst	16/01/2024	Advanced construction materials: Fibers and Plastics Types of fibers- Steel, Carbon, glass fibers,			
F	2nd	18/01/24	Use of fibers as construction material, properties of Fibers.			
First	3rd	19/01/24	Types of plastics- PVC, RPVC			
	4th	20/01/24	HDPE, FRP, GRP etc			
	5th		70 Ar Ar			
	1st	25/01/24	Coloured plastic sheets. Use of plastic as construction material.			
	2nd	27/01/24	Artificial Timbers – Properties and uses of artificial timber.			
Second	3rd					
	4th					
	5th		Types of artificial timber available in market			
	1st	30/01/24				
~: · ·	2nd	01/02/24	strength of artificial timber. Miscellaneous materials – Properties and uses of acoustics materials,			
Third	3rd	02/02/24	wall claddings, plaster boards,			
	4th	03/02/24	Wall Claddings, plaster boards,			
	5th	05/02/24	micro-silica, artificial sand, bonding agents, adhesives etc.			
	1st 2nd	06/02/24	Discussion QNA of CH-1			
	3rd	08/02/24	Prefabrication: Introduction, necessity and scope of prefabrication of buildings			
Fourth	4th	09/02/24	history of prefabrication, current uses of prefabrication, types of prefabricated			
		10/02/24	systems			
	5th	-				
	1st	13/02/24	classification of prefabrication			
	2nd	15/02/24	advantages and disadvantages of prefabrication			
Fifth	3rd	16/02/24	The theory and process of prefabrication			
	4th	17/02/24	design principle of prefabricated systems, types of prefabricated elements,			
	5th					
	lst	20/02/24	Indian standard recommendation for modular planning.			
	2nd	22/02/24	Discussion QNA of CH-2			
Sixth	3rd	23/02/24	Earthquake Resistant Construction: Building Configuration			
	4th	24/02/24	Lateral Load resisting structures			
	5th					
ACCOUNT OF THE PROPERTY OF THE	1st	27/02/24	Building characteristics			
	2nd	29/02/24	Effect of structural irregularities-vertical irregularities, plan configuration problems.			
Seventh	3rd	01/03/24	Safety consideration during additional construction and alteration of existing			
	4th	02/03/24	Additional strengthening measures in masonry building-corner reinforcement, lintel band, sill band, plinth band, roof band, gable band etc.			
	5th					

APPEN 7	lst	07/03/24	Retrofitting of Structures: Seismic retrofitting of reinforced concrete buildings
	2nd	09/03/24	Sources of weakness in RC frame building
Eighth	3rd		
Ligini	4th		
15 M2 014	5th		Classification of retrofitting techniques and their uses
	lst	CONTRACTOR OF THE PERSON OF TH	. CALL - (CLL 2
-67	2nd	14/03/24	Discussion QNA of CH-3 Building Services: Cold Water Distribution in high rise building, lay out of
Ninth	3rd	15/03/24	1 - Addition
	4th	16/03/24	Hot water supply – General principles for central plants-layout
1 1	5th	10,	
	1st	-0/03/24	Sanitation –soil and waste water installation in high rise buildings
		19/03/24	Electrical services – i) requirements in high rise buildings ii) Layout or willing
Tenth	2nd	21/03/24	types of wiring
lenui	3rd	22/03/24	iii) Fuses and their types iv) Earthing and their uses Lighting – Requirement of lighting, Measurement of light intensity
£	4th	23/03/24	
	5th		Ventilation - Methods of ventilation (Natural and artificial Systems of
	1st		atilation) problems on ventilation
		28/03/24	Mechanical Services- Lifts, Escalator, Elevators – types and uses.
	2nd	30/03/24	Mechanical Services- Lifts, Escalator,
Eleventh	3rd		
	4th		
<u>'8</u>	5th	1.0	The COLIA
The state of the s	1st	02/04/24	Discussion QNA of CH-4 Construction and earth moving equipments: Planning and selection of
	2nd		Construction and earth moving equipments
	ZIIG	04/04/24	construction equipments Study on earth moving equipments like drag line, tractor, bulldozer, Power
Twelfth	3rd	124/24	
		05/04/24	give the and uses of compacting equipments like tamping rollers,
	4th	06/04/24	
J 1	5th	1	Smooth wheel rollers, Pneumatic tired rollers and vibrating compactors
	1st	09/04/24	enerating cost - problems
	2nd	12/04/24	Di vesion ONA of CH -5
Thirteenth	3rd	13/04/24	Discussion QNA of CH -5
	4th		
	5th		COL 1 2 and 2
	lst	16/04/24	Class test of CH-1,2and 3 Soil reinforcing techniques: Necessity of soil reinforcing.
	2nd		Soil reinforcing techniques. Necessity of soil reinforcing
Fourteenth			4 Use wire mesh and geo-synthetics. 4 Use wire mesh and geo-synthetics.
1 Out	4th		Strengthening of embankments
	5th		Slope stabilization in cutting and embankments by soil reinforcing technique
	lst		Slope stabilization in cutting and crissian
	2nd		Discussion QNA of CH-6&/
Fifteenth	3rd		Class test of CH-4 5 6and7
		20,-	
	4th		

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					LESSON PLAN					
DISCIPLINE:CIVIL ENGINEERING SEMESTER:S th NAME OF THE TEACHING FACULTY: ANKITA CHOUDHURY										
UBJECT:TH-1	NO. OF CLASS A	DAY AVEEK ALLOTED:05	1		FROM DATE: 01-09-2023 - TO DATE: 30-11-23 EKS:15					
weeks	CLASS DAYS	DATE	UNIT		THEORY-TOPIC					
	1	1/8/23	1	Inti	oduction to water supply and it's necessity					
	2	2/8/23	1	Per	capita demand recasting population and water demand problem					
First	3	3/8/23	1	Fo	recasting population and water demand pro-					
,	4	4/8/23	1	Im	purities in H ₂ O, analysis of water					
	5	5/8/23	1		ater quality standards					
	1	8/8/23	2		rface source					
	2	9/8/23	2	U	nderground source					
Second	3	10/8/23	2		ield from well , problems	a 6 - 10a a 1				
	4	11/8/23	2	- Ir	takes installation	がた数(L)。 中心は10世間である。				
	5	12/8/23	2	-P	umps, types, installation ipe materials					
	1	16/8/23	2	— P	ypes of pipe joints					
	2	17/8/23	2	- 1	yes of pipe joints Detailed discussion about pipe joints					
Third	3	18/8/23	2		Germanian discussion desary is greatment					
Timu	4	19/8/23			Flow diagram of conventional water treatment Freatment process, aeration					
1	5	22/8/23	'							
n 11 - 4	. 1	23/8/23	3		Plain sedimentation Sedimentation features, operation and maintenance					
1.	2	24/8/2	3	3	Sedimentation reaction					
Fourth	3	25/8/2	3	3	Sedimentation with coagulation	49.E				
a 7 1	4	26/8/2	3	3	Types of coagulants, flocculator					
	5	29/8/2		3	Filteration, necessity, principles					
	1	31/8/2		3	Slow sand, rapid sand, pressure filter					
==, "	2	1/0/2		3	Disinfection					
7101	3	2/0/2		3	Chlorination Break point chlorination, super chlorination					
Fifth	4	5/0/2		3	Break point chlorination, super chlorid					
- **	5	= 10.10		3	Softening of water					
	1			3	Lime soda process and ion exchange					
	-	9/9/2	23	4	Types of distribution system	-				
Sixth	2	12/0		4	Gravity, direct and combined					
	3	12/0		4	Methods of supplying					
	-	14/0		4	Intermittent and continuous					
		15/0		4	tunes					
		15/9		4	- 111					
Seventh		2	0/23	-						
		The state of the s	The second second	-	Stuice, check, air valve	H 9 5				
	===	4 22/	9/23	1 '	Stude, eneck, and Detailed discussion about types of valves					

	1	26/9/23	5	Methods of connection from water mains to supply
Eighth	2	27/9/23	5	General layout of plumbing arrangement
	3	29/9/23	5	General layout of plumbing arrangement
	4	30/9/23	6	Aims & objectives of sanitary engg.
e ² set	5	3/10/23	6	Definition of related sanitary engg.
	1	4/10/23	6	System of collection
	2	5/10/23	6	Conservancy and water-carriage system
Ninth	3	6/10/23	6	Comparison suitability
	4	7/10/23	7	Quantity of sanitary sewage
	5	10/10/23	7	Variation in sewage flow
	1	11/10/23	7	Numerical problems
	2	12/10/23	7	Computation of size of sewer
Tenth	3	13/10/23	7	Computing self cleaning velocity using chezy's and manning's formula
	4	17/10/23	7	General importance, strength of sewage
	5	18/10/23	7	Characteristics of sewage
	/ 1 ·	19/10/23	7	Detailed discussion about characteristics of sewage
	2	20/10/23	7	Test of sewage
Eleventh	3	31/10/23	7	Types of test
	4	1/11/23	7	BOD, COD, DO
	5	2/11/23	8	Types of system
	1	3/11/23	8	Types of system
	2	4/11/23	8	Comparison between the types
Twelfth	3	7/11/23	8	Shapes of sewer
	4	8/11/23	8	Types of shapes of sewer
	5	9/11/23	8	Avoid, features, suitability
	1	10/11/23	8	Laying of sewer
	2	11/11/23	9	Manhole, drop manhole & lamp manhole
Thirteenth	3	14/11/23	9	Inlets, grease & oil trap
	4	15/11/23	9	Storm regulator, sewage farming
	5	16/11/23	9	Disposal on land by dilution
	1	17/11/23	10	Principle and flow diagram of treatment
	2	18/11/23	10	Primary treatment
Fourteenth	3	21/11/23	· 10	Secondary treatment
	4	22/11/23	11	Requirements of building drainage, layout
	5	23/11/23	11	Plumbing arrangement of single storied building
	1	24/11/23	11	Plumbing arrangement of multi storied building
	2	25/11/23	11	Sanitary fixtures - features, function and maintenance
Fifteen	3	28/11/23	11	Water closets, flushing cisterns
* * * * * * * * * * * * * * * * * * *	4	29/11/23	11	Urinals, inspection chamber
	5	30/11/23	11	Traps, anti-syphonage pipe

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	Andre Call		LESSON PLAN
DISCIPLINE: CIVIL ENGINEERING	CIVIL SEMESTER: 6th		NAME OF THE TEACHING FACULTY: Er. Sibani Sahu
SUBJECT: Construction management TH-2		DAY/WEEK ALLOTED: 04	SEMESTER FROM DATE: 01-02-2024TO DATE: 26-04-2024 NO. OF WEEKS:13
WEEKS	CLASS DAYS	DATE	THEORY
	1st	01-02-24	Introduction To Construction Management, Aims and objectives of construction management.
	2nd	02-02-24	Functions of construction management.
First	3rd		
	4th		
	lst	05-02-24	The construction team components-owner, engineer, architect, contractor-their functions and interrelationship and jurisdiction.
Second	2nd	07-02-24	Resources for construction management-men, machines, materials, money
	3rd	08-02-24	Constructional Planning, Importance of Construction Planning
	4th	09-02-24	Developing work breakdown structure for construction work
	1st	12-02-24	Construction Planning stages-Pre-tender stage, Post-tender stage.
	2nd	15-02-24	Construction scheduling by Bar charts-preparation of Bar Charts for simple construction works.
Third	3rd	16-02-24	Preparation of schedules for labour materials, machinery, finance for small works
	4th	The Property	
	PHI 194		
	1st	19-02-24	Limitation of Bar charts, Construction scheduling by network techniques- definition of terms
Fourth	2nd	21-02-24	PERT and CPM techniques, advantages and disadvantages of two techniques, network analysis, estimation of time and critical path, application of PERT and CPM techniques in sample construction works.
	3rd	22-02-24	Materials and Stores Management, Classification of Stores-storage of stock.
	4th	23-02-24	Issue of materials-indent , invoice, bin card
	1st	26.02.24	Construction Site Management, Job Lay out-Objectives, Review plans, specifications, Lay out of equipments.
-	2nd	26-02-24 2802-24	Location of equipment, organizing labour at site.
Fifth	2nd	29-02-24	Job lay out for different construction sites. Principle of storing material at site.
	3rd	01-03-24	Construction Organization, Introduction – Characteristics, Structure, importance
	4th	01-03-24	
	1st	04-03-24	Organization types-line and staff, functions and their characteristics
	2nd	06-03-24	Principles of organization- meaning and significance of terms- control, authorit responsibility, job & task.
Sixth	3rd	07-03-24	Leadership-necessity, styles of leadership, role of leader
	4th		
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	1st	11-03-24	Human relations-relations with subordinates, peers, Supervisors, characteristics of group behaviour, mob psychology, handling of grievances, absenteeism, labour
Seventh	2nd	13-03-24	welfare. Conflicts in organization-genesis of conflicts, types-intrapersonal, interpersonal,
	3rd	14-03-24	Intergroup, resolving conflicts. Construction Labour and Labour Management, Preparing Labour schedule
	4th	15-03-24	Essential steps for optimum labour output, Labour characteristics
		23-03-24	Essential steps for optimum labour output
	lst	18-03-24	Wages & their payment, Labour incentives
a 11 - 2 - 7	2nd	20-03-24	at the stand of motives, united the upp
Eighth	3rd	21-03-24	Equipment Management, Preparing the equipment Importance of Owning &
5	4th	22-03-24	Identification of different atternative equipment operating costs in making decisions for hiring & purchase of equipment
ī ī			5 Savinment maintenance, Quality Control
	1st	27-03-24	Inspection and testing of equipment, Equipment maintenance, Quality Control of Concept.
	2nd	28-03-24	of Concept. Quality Standards- during construction, after construction, destructive & non destructive methods.
Ninth	3rd		The second of th
	4th		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	4111		to access of work Work study, Analysis and
- X	1st	03-04-24	Monitoring Progress, Programme and progress of work, Work study, Analysis and control of physical and financial progress corrective measures.
	2md		of cafety
Tenth	2nd	04-04-24	Safety Management In Construction, Importance of Safety Causes and effects of accidents in construction works, Safety measures in Causes and effects of accidents in construction works, fabrication and erection,
	3rd	05-04-24	Causes and effects of accidents in construction works, safety worksites for excavation, scaffolding, formwork, fabrication and erection,
	Jiu		demolition.
	4th	A COLUMN TO THE STATE OF	Section 2 Sectio
	50-E-10-1-E		Development of safety consciousness, Safety legislation- Workman's
	40.14		Development of safety consciousness, compensation act, contract labour act.
	1st	08-04-24	compensation act, contract labour act. Introduction to Vulnerability Atlas of India, Concepts of natural hazards and Introduction to Vulnerability profile of India, Definition of disaster.
	2nd	10-04-24	Introduction to Vulnerability Atlas of India, Concepts disasters and vulnerability profile of India. Definition of disaster. disasters and vulnerability Magnitude and intensity scales of
	ZIIU	12.04.24	
Eleventh	3rd	12-04-24	Earthquake hazard and vulner ability, which can be comeditionally and speed and pressures, seismic zones.
	12 6 1 6 1 100	de de la constitución de la cons	A CONTROL OF THE SECOND OF THE
	4th	MAIN WILL	and evelone resistant
		S. R. William V.	hazard and cyclone occurrence maps, storm surveys and cyclone resistant
	1st	15-04-24	measures The Alice and Flood prope areas of the
	MATERIA DE	18-04-24	measures Flood hazard and vulnerability, Flood hazard and Flood prone areas of the
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2nd	10-04-24	country General protection of habitants and flood resistant construction. Landslide &
Twelfth	3 v v		General protection of habitants and flood resistants
	3rd	19-04-24	Thunderstorm incidence maps, Measures against Tsunami
	4th		· · · · · · · · · · · · · · · · · · ·
	Harata a	• 1	the literand usage of vulnerability atlas of India,
	1st	24-04-24	Housing vulnerability risk tables and usage of vulnerability atlas of India,
	2nd	25-04-24	Inclusion of vulnerability atlas in Tender documents.
100		26-04-24	Revision Class
hirteenth	3rd	20 0 7 2 7	
	4th		The state of the s

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DISCIPLINE:CIVIL ENGINEERING	SEM	ESTER:THIRD		NAME OF THE TEACHING FACULTY: ER.G. BISHNU KUMARI			
SUBJECT: TH I STRUCTURAL MECHANICS	NO. C	NO. OF DAY AVEEK CLASS ALLOTED:05		SEMESTER FROM DATE: 01-08-2023 TO DATE: 30-11-23 NO. OF WEEKS:17			
WEEKS	CLASS DAYS	DATE	UNI	THEORY-TOPIC	REMA		
	1st	1/8/23	1	Basic principle of mechanics; force, moment, support conditions			
	2nd	2/8/23	1	Basic principle of mechanics; conditions of equilibrium, C.G & MI			
First	3rd	3/8/23	1	Free body diagram, review of C.G & MI of different sections	-		
-	4th	5/8/23	1	Review of C.G & MI of different sections	-		
	5th			- Containly	-		
	1st	7/8/23	2	Introduction to stresses and strains, Mechanical properties of materials	1		
	2nd	8/8/23	2	Mechanical properties of materials ,types of stresses	1		
Second	3rd	9/8/23	2	Types of stresses, Types of strains	\vdash		
	4th	10/8/23	2	Complimentary shear stress – compressive stresses due to shear Elongation and contraction, longitudinal and lateral strains, Poisson's ratio			
	5th	12/8/23	2				
	1st	14/8/23	2	Volumetric strain, computation of stress, strain			
	2nd	16/8/23	2	Hooke's law-elastic constant Derivation of relationship between the elastic constants	\top		
Third	3rd	17/8/23	2	Behaviour of ductile and brittle materials under direct loads "Stress strain curve of ductile material	\vdash		
		19/8/23	2	Limit of proportionality ,elastic limit , yield stress , ultimate stress ,breaking stress,	-		
	4th 5th				╀		
		21/8/23	2	Percentage elongation and reduction in area and its significance, deformation of prismatic bars due to its self weight and axial load	_		
	1st	22/8/23	2 1	Numerical			
Fourth	2nd	23/8/23	2	2.1			
104	3rd			Numerical Principal stresses and strains- concept and oreintation	_		
	4th	24/8/23	2	Mohr's circle and its application to solve problems of complex stresses	_		
7 <u>. 9</u> .		26/8/23 28/8/23	_	Deliver stress in beams, theory of simple bending, assumptions, moment of resistance	\perp		
	Ist		3	Equation for flexure, flexural stress distribution position of neutral axis & centroidal axis			
	2na	9/8/23	3	Flexural rigidity- significance of section modulus, Numerical			
Fifth	3rd	1/8/23					
4.5	4th	/9/23	-	Numerical	_		
1	5th		_	Shear stress distribution in beams of rectangular beams symmetrical about vertical axis	\bot		
4-	151	/9/23	3	Shear stress distribution in beams of circular and standard sections symmetrical about vertices.	al		
	2nd 5/	9/23		Shear stress distribution in occars of one-	+		
Sixth	3rd 7/	9/23	3	Numerical Solid and hollow circular sections			
		9/23	3	Numerical Concept of torsion, assumption of pure tension, torsion of solid and hollow circular sections			
-	5th			Polar moment of inertia, torsional shearing stresses, angle of twist ,torsional rigidity, equation	MI.		
		/9/23	3	Polar moment of inertia, torsional shearing stresses, angle of the property of torsion	+		
-	12	/9/23		Numerical			
Counth	2nd		<u>-</u>	Combination of stresses ,maximum and minimum stresses in sections ,conditions for no tension			
Seventh	3rd 13.	19/23					
-		9/23	3 1	.imit of eccentricity, core for square and rectangular sections			
- 1001146000	4111	9/23	3 0	.imit of eccentricity, core for square and rectangular sections, chimneys dams and retaining walls introduction			
	18	9/23	3 1	Yumerical	1		
	151	9/23	and the same of				
		9/23	4	Columns and struts -definition ,types, end condition	+		
Eighth	3rd				+		
	lth		-				
	5th						

	lst	25/9/23	-	
	1.50	26/9/23	4	Columns and struts- effective length ,slenderness ratio
	2nd		4	and long column
Ninth	3rd	27/9/23	4	Euler's theory of long columns ,critical load for columns with different end conditions
Ninth Tenth Eleventh Twelfth	4th	30/9/23	4	Numerical Numerical load for columns with different end conditions
	5th			
	lst	3/10/23	+-	
	2nd	4/10/23	4	Numerical
Tenth	3rd	5/10/23	5	Types of loads ,support of beams
		7/10/23	5	Types of beams based on support conditions
	4th 5th		5	Calculation of support reactions using equations of static equilibrium
	lst	9/10/23		
	131	10/10/23	5	Numerical
	2nd		5	Shear force and bending moment
Eleventh		11/10/23		SFD & BMD for captilous and in
	3rd 4th	10000	5	SFD & BMD for cantilever and simply supported beam
	5th	12/10/23	5	SFD & BMD for over hanging beams, position of maximum BM
10.00	-	16/10/23		
	lst	17/10/23	5	Point of contra flexure, relation between intensity of load, SF & BM
Twelch	2nd		5	Numerical Numerical
1 weitin	3rd	18/10/23	6	Slope and deflection – shape & nature of deflection curve
	4th	19/10/23	6	Relationship between slope, deflection & curvature, importance of Slope and deflection
	5th			deflection de cui vature, importance of Slope and deflection
	lst	30/10/23	6	Numerical
	2nd	31/10/23	6	
Thirteenth	-	1/11/23	200	Slope and deflection of cantilever and simply supported beams under concentrated and udl by double integration method
	3rd	1/11/23	6	Slope and deflection of cantilever and simply supported beams under concentrated and udl by macaulay's method
		2/11/23	100	Numerical Numerical
	4th		6	
	5th	4/11/23	6	Numerical
	1st	6/11/23	7	Indeterminate beams-indeterminacy in beams, principle of consistent deformation
	2-4	7/11/23		Analysis of propped cantilever ,fixed beam by principle of superposition
ourteenth	2nd	8/11/23	7	
	3rd 4th	9/11/23	7	Analysis of two span continuous beams by principle of superposition
	5th	11/11/23	7	SF & BM diagram point load and udl covering full span
		13/11/23	7	Numerical
	1st			Numerical
11 A. F. 12	2nd	14/11/23	8	Types of trusses, statically determine and indeterminate trusses
Fifteenth	3rd	15/11/23	8	Degree of indeterminacy, stable and unstable trusses
	4th	16/11/23	8	Stable and unstable trusses
	5th	18/11/23	8	Numerical
man to		20/11/23	S. S.	Revision of chapter 1
524	1st		A ba	Technical of enapter 1
1200 1	2110	21/11/23		Revision of chapter 2
7,00	Sid	22/11/23		Revision of chapter 2
	4th	23/11/23		Revision of chapter 3
	5th	25/11/23		Revision of chapter 4
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				TITUTE OF TECHNOLOGY(P), BERHAMPUR					
				LESSON PLAN	2.5				
DISCIPLINE:CIVIL ENGINEERING	SEN	IESTER:SIXTH		NAME OF THE TEACHING FACULTY: ER.G. BISHNU KUMARI					
SUBJECT:TH2 STRUCTURAL	1	OF DAY /WEEK	SEMESTER FROM DATE: 01-08-2023 TO DATE: 30-11-23						
DESIGN-II			NO.	NO. OF WEEKS:17					
WEEKS	CLASS DAYS	DATE	UNIT	THEORY-TOPIC					
	1st	1/8/23	1	introduction- Common steel structures ,Advantages &disadvantages, types of steel structure	REMARK				
	2nd	2/8/23	1	Properties of structural steel, Rolled steel sections, special considerations in steel design					
First	3rd	3/8/23	1	Loads &load combinations, structural analysis					
	4th				· 77 - **				
	1st	7/8/23	1	Design philosophy, Brief review of principles of Limit State Design	TAPATA				
	2nd	8/8/23	2	Bolted Connections-Classification of bolts ,advantages& disadvantages of bolted connections	34 18 1 9 1				
Second	3rd	9/8/23	2	Different terminology, types of bolted connections	The second				
	4th	10/8/23	2	Types of action of fasteners, assumptions & principles of design	3466				
s per		-							
	1st	14/8/23	2	Strength of plates in a joint, Shear capacity & bearing capacity of HSFG bolts					
	2nd	16/8/23	2	Analysis & design of joints using bearing type and HSFG bolts, Numerical	1/11/4				
Third	3rd	17/8/23	2	Numerical on analysis & design of joints using bearing type and HSFG bolts	- A LONG				
	4th								
		21/8/23	r _{an} k	Efficiency of a joint, Numerical	16.4				
	1st	22/8/23	2	Welded Connections- Advantages & Disadvantages , types of welded joints					
Fourth	2nd	-,,,,	2	Weided connections Advantages & Disadvantages , types of weided joints					
	3rd	23/8/23	2	Specifications for welding, Design stresses in welds, Strength of welded joints					
	4th	24/8/23	2	Numerical on Design stresses in welds, Strength of welded joints					
				·利 · · · · · · · · · · · · · · · · · ·	1.1.1.71				
a F	1st	28/8/23	2	Revision of chapter 2	2 200				
	2nd	29/8/23	3	Common shapes of tension members					
Fifth	3rd	31/8/23	3	Maximum values of effective slenderness ratio					
	4th		3						
	ri .				THE RESERVE				
a a ngai	1st	4/9/23	3	Analysis of tension member	346.149				
	2nd	5/9/23	3	Design of tension member					
Sixth	3rd	7/9/23	3	Numerical on analysis and design of tension member	in a large of				
	4th				Tan M				
		2 1 1 2 1			10000000000000000000000000000000000000				
	1st	11/9/23	4	Common shapes of compression members	f Physics				
		12/9/23	4	Buckling class of cross sections, slenderness ratio					
	2nd	13/9/22	A	Design compressive stress and strength of compression members					
Seventh	3rd	13/9/23							
	4th	14/9/23	4	Analysis of compression members (procedure)					
			-	The state of the s	The Paris				
	1st	18/9/23	4	Design of compression members (procedure)	1 1.475				
	2nd	21/9/23	4	Numerical on analysis and design of compression members	1 14 5 4 19				
Eighth	- 3	25/9/23	4	Numerical on analysis and design of compression members					
Ligital	3rd	26/0/22		Pevision of chanter 3 and 4	A SANTAGE				
	4th	26/9/23		Revision of chapter 3 and 4	Herrican L				

	1st	3/10/23	5	Common cross sections of start to
	11 37 3	4/10/23	and the to	Common cross sections of steel beams and their classification Deflection limit ,web buckling
	2nd		5	Benechon mint, web buckling
Ninth	3rd	5/10/23	5	Web buckling and web crippling
	146	Link Age 2		
	4th			
	No like yet	9/10/23		
	1st		5	Design of laterally supported beams against bending and shear (procedure)
	2nd	10/10/23	5	Numerical on Design of laterally supported beams against bending and shear
Tenth	3rd	11/10/23	5	Numerical on Design of laterally supported beams against bending and shear
	4th	12/10/23	P WIL	Class test
	1st	16/10/23	6	Round tubular sections & permissible stresses
		17/10/23	6	Tubular compression members
	2nd	10/10/0		
Eleventh	2-4	18/10/23	6	Tubular tension members
	3rd 4th	19/10/23	6	Joints in Tubular trusses
			- 1 O V	Johns III Tuoulai Irusses
	1st	30/10/23		Numerical or Paris of a Late of the Control of the
Twelfth		31/10/23	6	Numerical on Design of tubular steel structures
	2nd	1/11/23	6	Numerical on Design of tubular steel structures
	3rd	2/11/23	7	Class test
	4th	2/11/23	7	Introduction of masonry structures
		(11.02		- Indiana - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	1st	6/11/23	7	Design considerations for masonry walls and columns
	2nd	7/11/23	7	Numerical on Design of masonry walls and columns
Thirteenth	3rd	8/11/23	7	Numerical on Design of masonry walls and columns
	7 (5A) 7, Au	9/11/23	7	Load bearing & non- load bearing walls ,permissible stresses
	4th		72.3	
		13/11/23	9. 37.	
	1st	F 10 10 10 10 10 10 10 10 10 10 10 10 10	7	Load bearing & non-load bearing walls ,slenderness ratio ,effective length
		14/11/23	7	Load bearing & non- load bearing walls, height and thickness
Fourteenth	2nd	15/11/23	7	Numerical on analysis of Load bearing & non-load bearing walls
	3rd	16/11/23	7	Numerical on analysis of Load bearing & non-load bearing walls
	4th	10/11/25	250 15	
		20/11/23	. 7	Numerical on Design of Load bearing & non- load bearing walls
	1st			
	2nd	21/11/23		Class test
Fifteenth	3rd	22/11/23	e.,	Discussion of previous year questions
		23/11/23		Revision of chapter 2
	4th			
	lst	28/11/23		Revision of chapter 1 & 3
	2nd	29/11/23		Revision of chapter 4 & 5
		30/11/23		Revision of chapter 4 & 5 Revision of chapter 6 & 7
	3rd	33/11/23	_	Revision of chapter o & ?
	4th			

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		1	EC	CHNOLOGY(P),BERHAMPUR LESSON PLAN				
DISCIPLINE:CIVII ENGINEERING	36.01	ESTER: 3rd	N/	ME OF THE TEACHING FACULTY: SATYABHAMA SETHI				
SUBJECT:TH-5 ENVIRONMENTA . STUDIES		NO. OF DAY AVEEK CLASS ALLOTED:05		SEMESTER FROM DATE: 01-09-2023 TO DATE: 30-11-23 NO. OF WEEKS:14				
WEEKS	CLASS DAYS	DATE	UN					
-	1	1/09/23	1	CH 1 definition, scope of environmental studies				
	2	2/09/23	1	The multidisciplinary nature of environmental studies				
First	3	4/09/23	1	Importance need for public awareness				
riist	4	,						
	5	¥	. 3					
4.6	1	4/0923	2	CH 2 Natural resources & associated problems				
	2	7/09/23	2	Forest resource, use and over exploitation deforestation				
Second	3	8/09/23	2	Timber extraction mining dam and their effects forests &tribal people				
Second	4	9/09/23	2					
	5	11/09/23	2	Floods, drought, conflicts over water dams benefits and problems.				
	1	13/09/23	2	Mineral Resource, use and exploitation,				
	2	14/09/23	2	Environmental effects of extracting and using mineral resource				
Third	3	15/09/23	2	Food resource :world food problems changes caused by agriculture				
	4	16/09/23	2	Food resource :over grazing, effects of modern agriculture				
	5	18/09/23	2	Food resource: fertilizers ,pesticides problems .				
	1	21/09/23		Food resource :water logging .salinity				
	2	22/09/23		Energy resources :Growing energy need				
Fouth	3	23/09/23	2	Energy resource: renewable and non renewable energy resource.				
	4	25/09/23		Energy resource: use of alternate energy sources. Case studies				
	5	27/09/23	2	Land resources: land as a resources, land degradation				
	1	29/09/23		Land resource :man induces land slides				
	2	30/09/23		Land resource: soil erosion ,and desertification				
P.A.	3	4/10/23		Role of individual in conservation of natural resources				
Fifth	4	5/10/23		Equitable use of resources for sustainable				
District Control	5							
	1	6/10/23	3	Ecosystems :concept of an ecosystem				
		7/10/23						
Sixth	3	9/10/23	3	Structure and function of an ecosystem producer consumer decomposer Energy flow in the ecosystem ecological succession, food chains food web and				
	4	11/10/23	3	Introduction type characteristic features structure and function of the of the following				
-	-		_	ecosystem				
Art San	5		_					
	1	12/10/23	3 1	Forest ecosystem aquatic ecosystem (ponds ,streams , lakes, rivers oceans ,estuarie				
Seventh	2	13/10/23	_	Biodiversity introduce definition: genetic spices and ecosystem diversity				
	3	16/10/23	4	Biographical classification of India value of biodiversity consumptive use social ethical aesthetic and option				
	4			the state of the s				
	5		\dashv					

		11	/10/23	4	Blodiversity at global national and local level
Uig)	sth	2 19	10/23	4	Timeats to biodiversity to the
		20	10/23	1	
	-	4		Mary Market Come	pollution, soil pollution, marine pollution noise pollution, thermal pollution, nuclear hazards.
	-	5	Personal State of Contraction of	-	ponution
		1 30/1	0/23	5	Solid Waste Management: causes effects and control measures of urban and
Ninth		2 1/1	/23	5	industrial wastes. Role of an individual to the second control measures of urban and
	-	3 2/11	/23	5	Role of an individual in prevention of pollution
	-	4	p- 4.		Disaster management floods, earth, quake, cyclone and landslides.
	-	5 3/11	(2.2		
	-	5/11/		6 5	ocial issues and the environment : sustainable environment
Tenth		1/11/		6 F	orm unsustainable to sustainable development.
		0,11,			
	5	0,11,	23	6 W	Vater conservation, rain water harvesting, water shed management.
L. Pro Ann	1		12	-	har vesting, water sned management.
	2	2/11/	22	6 R	esettlement and rehabilitation of people; its problems and concern.
Eleventh	3	11/11/	23	6 C	nvironmental ethics: issue and possible solutions.
	4	11/11/	23	<u> </u>	imate change, global warming acid rain, ozone layer depletion,
	5		-	-	a, ozone tayer depiction,
	1	13/11/2	3	5 Ni	Inlant at 1
	2	15/11/2		Th	c environment :
Twelfth	3	16/11/2		1	c chyllollilleni air act
	4	17/11/2		W	r (prevention and control of pollution) Act.
Act Asset	5			100	nter (prevention and control of pollution)Act.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	18/11/2:	3 6		plic awareness.
	2	20/11/23		Him	man population and in
Thirteenth	3	22/11/23		Pon	man population and the environment.
	4	23/11/23		Pon	pulation growth and variation among nation s.
hij.	5	- 1, 25	+	r op	ulation explosion –family welfare program.
10 To 17	1	24/11/23	_i	1	
	2	25/11/23	7	Liv	ironment and human health.
ourteenth	3	29/11/23	7	Val	nan rights
F	4	30/11/23		vait	e education.
<u>)</u>	5	30/11/23	+-	Kole	of information technology in environment and human health.

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		1	ECL	INOLOGY(P),BERHAMPUR			
		i i i		LESSON PLAN			
DISCIPLINE:CIVIL ENGINEERING	SEME	STER:5 th	1	E OF THE TEACHING FACULTY: SUBHASWAGATI DASH			
UBJECT:TH-1 ntrepreneurship nd management & nart technology	NO. OF DAY /WEEK CLASS ALLOTED:05			SEMESTER FROM DATE: 01-09-2023 TO DATE: 30-11-23 NO. OF WEEKS:14			
WEEKS	CLASS DAYS	DATE	UNIT	THEORY-TOPIC			
	1	1/09/23	1	Concept, need, meaning of entrepreneurship			
	2	2/09/23	1	Characteristics, qualities, functions of entrepreneurship			
First	3 2						
	4		7				
- 5	5	n ·		Comments having in antennangurchin			
	1	4/09/23	1	Types of entrepreneurship, barriers in entrepreneurship			
	2	5/09/23	1	Entrepreneurship vs manager, forms of business ownership			
Second	3	7/09/23		Sole proprietorship, partnership forms & others			
) (4	8/09/23	1	Types of industries, concept of start-ups			
7 - 2	5	9/09/23		Entrepreneurial support agencies at national, state, district, TBT			
	1	11/09/23	2	Business planning, SSI			
	2	12/09/23	+	Ancillary units, tiny units, service sector units			
Third	3	14/09/23	2	Time schedule plan, agencies to be contacted for project implementation			
	4	15/09/23		Assessment of demand and supply			
4 - 4	5	16/09/23	2	Potential areas of growth			
	1	18/09/23	2	Identify business opportunity			
Fourth	2	21/09/23		Final product selection			
rourii	3	22/09/23		Preliminary project report			
	4	23/09/23	3	Detailed project report, techno economic feasibility			
	5	y 3	14				
a	1	25/09/23		Project viability			
	2	26/09/23		Definition of management, principles of management			
Fifth	3	29/09/23	4	Principles of management, functions of management-planning, organizing			
-	4	30/09/23	4	Functions of management – staffing, directing, controlling			
-	5	- TV					
i ik	1	3/10/23	4	Level of management in an organization			
Sixth	2	5/10/23	, -	Production management – function, activities			
	3	6/10/23	5 -	Productivity, quality control			
	4	7/10/23	5	Production planning and control			
	5		-				
	Chamber of the Party of the Par	6/16/22	-	Lead of models			
	1	9/10/23	-	Inventory management – need & models			
Seventh	2	10/10/23	-THE RUN DICK	Financial management – functions , management of working capital			
-	3	12/10/23		Costing , break even analysis			
	4	13/10/23	5	Brief idea about accounting terminologies ,			
A	5		Sq.				

	- 1	16/10/23	5	Petty cash book, P&L accounts balance sheets
Eighth	2	17/10/23	5	Marketing management – concept, techniques
Eighth	3	19/10/23	5	Concept of 4Ps
	4	20/10/23	5	Human resource management – functions, manpower planning
		Service of		
	1	30/10/23	5	Recruitment, sources of manpower, selection process, method of testing
	2	31/10/23	5	Methods of training and development, payment of wages
Ninth	- 3		. 7	
	4	S	а, ъ	
	5	ar ghi	To Have	
	1	2/11/23	6	Leadership - definition and need, qualities and functions of a leader
	2	3/11/23	. 6	Manager vs leader,
Tenth	3	4/11/23	6	Style of leadership
	- 4			
	5	- 197		
	· 1.3	6/11/23	6	Motivation – definition and characteristics, importance
	2	7/11/23	6	Factors affecting motivation, theories of motivation
Eleventh	3	9/11/23	6	Methods of improving motivation
	4	10/11/23	6	Importance of communication in business
	5	11/11/23	6	Types & barriers of communication
	1	13/11/23	7	Human relationship & performance in organization
	2	14/11/23	7	Relations with peer, superiors & subordinates
Twelfth	3	16/11/23	7	TQM concepts, quality management
	4	17/11/23	7	Quality system, accidents & safety, cause, PPE
	5	18/11/23	8	Intellectual property rights, patent
	1.	20/11/23	8	Trademarks, copyrights
	2	21/11/23	8	Features of factories Act 1948 with amendment
Thirteenth	3	23/11/23	8	Features of payment wages Act 1936
	4	24/11/23	9	Concept of IOT, how IOT works
	5	25/11/23	. 9	Components of IOT, characteristics of IOT
	1	28/11/23	9	Categories of IOT, application of IOT – smart cities
	2	30/11/23	9	Smart home, smart healthcare, smart industries etc.
Fourteenth	3		. 3	, - man industries etc.
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		-		UTE OF TECHNOLOGY(P),BERHAMPUR LESSON PLAN					
DISCIPLINE: CIVIL ENGINEERING		ESTER:4TH		NAME OF THE TEACHING FACULTY: ER.G. BISHNU KUMARI					
DESIGN -I /WEE ALLO		NO. OF DAY /WEEKCLASS ALLOTED:05		SEMESTER FROM DATE: 16-01-2024 TO DATE: 26-04-2024 NO. OF WEEKS:17					
WEEKS	CLASS DAYS	DATE	UNI	THEORY-TOPIC					
	lst	16/01/24	1	Working stress method-introduction ,Objectives of design and detailing	REMARK				
First	2nd	17/01/24	1	Different methods of design of concrete structures, introduction to reinforced concrete					
	3rd	18/01/24	1	RC sections and their behavior, grades of concrete and steel					
	4th	19/01/24	1	Permissible stresses, assumption in W.S.M					
, n, a da	5th	100	, ,						
	1st	22/01/24	1 "	Flexural design and analysis of single reinforced sections from first principles					
Second	2nd	24/01/24	1	Concept of under reinforced over reinforced and balanced sections, Advantages & disadvantages of W.S.M	- 1				
	3rd	25/01/24	2	Definition, Advantages of L.S.M over W.S.M ,IS code suggestions regarding design philosophy	1				
	4th	A Charge	2	Types of limit states, partial safety factors for materials strength,					
	5th		2	Characteristic strength, characteristic load					
	1st	29/01/24	2	Design load, loading on structure as per I.S. 875,					
Third	2nd	30/01/24	2	Study of I.S specification regarding spacing of reinforcement in slab	, E				
Tillu	3rd	31/01/24	2	cover to reinforcement in slab, beam column &	-				
	4th	01/02/24	2	footing, minimum reinforcement in slab, beam & column,	1				
And the Carlo	5th	02/02/24		footing, minimum reinforcement in slab, beam & column,					
	1st	05/02/24	2	lapping, anchorage,	1				
	2nd	06/02/24	2	Effective span for beam & slab.	1				
Fourth	3rd	07/02/24		Limit state of collapse (flexure), Assumptions,					
	4th	08/02/24	3	Stress-Strain relationship for concrete and steel, neutral axis					
	5th	09/02/24		stress block diagram and strain diagram for singly reinforced section					
	164	12/02/24		Concept of under- reinforced, over-reinforced and limiting section	on				
	1st	13/02/24		Concept of under-reinforced, over-reinforced and limiting section					
Eifah	2nd	15/02/24	3	Concept of under-reinforced, over-reinforced and limiting secti	on				
Fifth	3rd	16/02/24		Neutral axis co-efficient					
	4th 5th	TOIGHT	J	House at the control of the control	7				
	1st	19/02/24	3	limiting value of moment of resistance and limiting percentage steel required for limiting singly R.C. section.	of				
Circh	2nd	20/02/24	3	limiting value of moment of resistance and limiting percentage steel required for limiting singly R.C. section.	of				
Sixth	3rd	21/02/24	3	Analysis and design: Determination of design constants					
	4th	22/02/24	3	Moment of resistance and area of steel for rectangular sections					
	5th	23/02/24							
	1st	26/02/24	3	Moment of resistance and area of steel for rectangular sections					
9- a	2nd	27/02/24	3	Necessity of doubly reinforced section					
Seventh		28/02/24	3	Design of doubly reinforced rectangular section	S. Sagar				
\$ a. 5	3rd	29/02/24		Design of doubly reinforced rectangular section					
A Secretary	7111	01/03/24	3	Nominal shear stress in R.C. section					
	J. S	i ; `	-4.0	Design shear strength of concrete, maximum shear stress, desi of shear reinforcement	gn				

Eighth	2nd	06/03/24	4	Minimum about a large	_
Eightii	3rd	07/03/24		Minimum shear reinforcement, forms of shear reinforcement	-
	4th		10.9	A DESCRIPTION OF THE PROPERTY	
	5th	r ye	300		
Ninth	1st	11/03/24	4	Bond and types of bond, bond stress	
	2nd	12/03/24	4	Check for bond stress,	_
	3rd	13/03/24	4	Development length in tension and compression	
	1.0	14/03/24	4	Anchorage value for hooks 900 hand and 4501	
	4th 5th	15/03/24		lapping of bars,	
	-	18/03/24		Charles I I	
Tenth	1st	19/03/24	4	Check for development length	
	2nd	19/03/24	7	Numerical problems on deciding whether shear reinforcement is required or not,	
	3rd	20/03/24	4	Check for adequacy of the section in shear	
	4th	21/03/24	4	Design of shear reinforcement;	_
	5th	22/03/24	4		
Eleventh	1st	27/03/24	4	Minimum shear reinforcement in beams (Explain through	
	Marcin er	28/03/24	5	<u>Jexamples only)</u>	
	2nd	20/03/24	3	General features, advantages	
	N.	- (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	5	Effective width of flange as per IS: 456-2000 code provisions	7
	3rd 4th		1	시하는 그렇게 다른 이번 얼마 지역을 즐겁게 되었다. 나는 그렇게 하게 살아 보는 이번 살아 보다 나를 하는 사람이 모든 아니다.	
	5th	A.0	5	Analysis of singly reinforced T-Beam, strain diagram	_
Salar Control	-	02/04/24	5	Street linear land Street	
Twelfth	1st	03/04/24	5	Stress diagram, depth of neutral axis,	
	2nd	03/04/24	3	Moment of resistance of T-beam section with neutral axis lying within the flange	
	3rd	04/04/24	5,	Simple numerical problems on deciding effective flange width	
	4th	05/04/24	6	Design of simply supported one-way slabs for flexure check for deflection control and shear.	N.
	5th		6	Design of one-way cantilever slabs and cantilevers chajjas for flexure check for deflection control and	
Thirteenth	1st	08/04/24	6	Check for development length and shear	
	2nd	09/04/24	6	Design of two-way simply supported slabs for flexure with corner free to lift.	
	3rd	10/04/24	6	Design of dog-legged staircase	1
	4th	12/04/24	6	Detailing of reinforcement in stairs spanning longitudinally	
	5th		7	Assumptions in limit state of collapse- compression.	
Fourteenth	1st	15/04/24	_	Definition and classification of columns, effective length of column	1
	2nd	16/04/24		7	1
	3rd	18/04/24	7	Specification for minimum reinforcement; cover	+
	4th	19/04/24	7		1
	5th	Marine Chi		8 Square and circular sections, diameter and spacing of lateral ties	+
Fifteenth	1st	22/04/24		8 Analysis and design of axially loaded short square	
	2nd	23/04/24	8	Rectangular and circular columns (with lateral ties only)	-
	3rd	24/04/24	8		
	4th	25/04/24		Design of isolated square column footing of uniform thickness for	r
	- 4th		e Pro	flexure and shear	
	5th	26/04/24		Design of isolated square column footing of uniform thickness for flexure and shear	r

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