Τ		NM Institute Of Engineering and Tochash			
		DEPARTMENT:CIVIT EN	ogy, Bhu	ıbaneswar	
LES	SON PLAN	1: Academic Year 2022-23 (Even Semester) COURSE: DIPLOMA			
Τ		Subject/Code: STRUCTURAL DESIGN-1/Th-1		EMESTER: 4TH	
	SI. N	None of the Topic to Community In	ne: Dr. JNYA	INENDRA K PRUSTY	
	_	Different methods of design of a second seco	Text Book	<b>Teaching Method</b>	Remark
c.	2	Introduction to reinforced concrete, R.C. sections their behavior.	TI	Ψ	94
. =	,	Flexural design and analysis of final analys	T2	G	210
1	ω	principles.	T2	q	3 7
	4	Concept of under reinforced, over reinforced and balanced sections.	ΤJ		5
· = (	S	LSM and WSM, Types of limit states, partial safety factors for materials strength.	1	<b>.</b>	OR
2	6	Introduction to beam, column, & footing.	R	2	らデ
	• 7	Limit state of collapse (flexure), Assumptions.	T2	G (	
	•	Nontrel and steel.	RI	G	er v
	6	reinforced section.	TI	G	·an
<u>,</u> 0	10	Concept of under- reinforced, over-reinforced and limiting section	T2	P	0.12
·	11	Analysis and design: Determination of design constants	R	G	
L.	12	Analysis and design: Moment of resistance	TI	P	A Y
	CL	Analysis and design: Area of steel for rectangular sections	T2	G	) I
	14	rectangular section	T3	G	Ì
	15	Necessity of doubly reinforced section, design of doubly reinforced rectangular section	TI	G	جر) <del>ا</del> ر ا
0	16	Design of shear reinforcement	2T	G	
-	17	Bond and types of bond, bond stress	T2	P	XX XX
• •	18	Numerical problems on Design of shear reinforcement;	ΤI	G	AU V
1	19	Numerical problems on Design of shear reinforcement;	RI	G	20
<b>—</b>	20	Analysis of singly reinforced T-Beam,	R2	G	BJ
	21 N	vithin the flange	RI	G	のえ

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ning	P: Power Point Teach			
hing	G: Green Board Teac			ł
	Method of Teaching		Problems on design of footing	45
220	P	RI	Problems on design of footing	44
· Qol	G	72	flexure and shear.	43
07	G	RI	1 ypes of footing, boundary footing of uniform thickness for	42
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OK	P	21	Reinforcement detailing of columni	38
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1		בו	Definition and classification of columns, effective length of column.	*
2	G		Assumptions in limit state of collapse- compression.	35
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015	6	11	flexure	
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0	P	TI	Design of one-way cantilever slabs and cantilevers chajjas for flexure	×
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LUN LUN		5	Problems on T-beam	Ķ
A K		=	Problems on T-beam	2
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