					STO	ORAG	GE ST	RUC	TURI	ES					
Off	ering 1	Branche	s	CE											
Course Category:				Honors Course							Credits:			4	
Course Type:				Theory							Lecture-Tutorial- Practical:		3-1-0		
				Nil							Continuous Evaluation:			30	
Prerequisites:											Semester End Evaluation:			70	
Course	Oute	omes									Total Ma	arks:	1	.00	
Upon s	uccess	ful com	pletion	of the	course.	the stu	dent wi	ll be al	ole to:						
C01	Desi botto	gn the som.	steel w	ater tai	nks suc	h as p	ressed	water t	ank an	d water	tanks wi	th hemis	pherica	I K6	
CO2	Desi tank	gn conc 8.	rete wa	ater tanl	ks like (elevate	d rectar	ıgular v	water ta	nk, circu	lar tank	and unde	rground	¹ K6	
<u>CO3</u>	App	ly the de	esign c	oncepts	in the	design	of steel	bunker	rs and s	ilos.				K3	
<u>CO4</u>	Desi	gn Con	crete sq	uare bu	inker ai	nd cyli	ndrical	silo						K6	
05	Desi	gn prest	ressed	concret	re circu	lar wat	er tanks	: rde ach	iovom	nt of Pr	oarom (Jutcome	,	KO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	
CO1	2	2	2	2	2	3						3	2	3	
CO2	2	2	2	2	2	3						3	2	3	
<u>CO3</u>	3	3	3	3	3	2						2	3	2	
$\frac{CO4}{CO5}$	2	2	2	2	2	3						3	2	3	
Avg.	2	2	2	2	2	3						3	2	3	
		1- Lo	ow	1	1		2-Me	dium	1			3-High	1		
UNIT-	1 -2 -2	and trar Design bottom and four CONCR Design o prces an ome - S nethods Check f	sverse of pres water t ndatior ETE V f Circu d mom taging and IS for upli	beams ssed ste ank -sid VATEI tlar tanl ents - F -Bracin methoo ft.	- Desig el wate de plate R TAN ks - Hin Hoop te ngs - R ls -Desi	gn of st r tank es - Bot KS nged an nsion - aft fou ign of u	taging - - Desig ttom pla nd fixed Design ndation indergr	Base j n of sta ates - jo d at the of intz - Desi ound ta	plates - Jo ays - Jo pints - J e base - ze tank ign of 1 nks - D	Foundat ints - De Ring gird IS meth - Dome ectangul Design of	ion and esign of ler - Des od of ca - Ring gi ar tanks base sla	anchor be hemisphe ign of sta llculating rders - C - Approx b and sid	olts - erical ging shear onical cimate e wall	CO1 CO2	
UNIT	-3 E R	STEEL BUNKERS AND SILOS Design of square bunker - Jansen's and Airy's theories - IS Codal provisions - Design of side plates -Stiffneners - Hooper - Longitudinal beams - Design of cylindrical silo - Side plates - Ring girder -stiffneners. CONCRETE BUNKERS AND SILOS Design of square bunker - Side Walls - Honper bottom - Top and bottom edge beams -								CO3					
UNIT	-4	Design of square bunch - side wans - hopper bottom - top and bottom edge beams - Design of cylindrical silo - Wall portion - Design of conical hopper - Ring beam at junction.												CO4	
UNIT	-5 P	rinciple	s of cir	cular pi	restress	ing - D	esign o	f prestr	essed c	oncrete c	ircular w	vater tank	s	CO5	
					L	earn	ing l	Reso	urce	s					
			1.	Rajago	palan K	K., Stora	age Stru	ictures,	Tata N	IcGraw-	Hill, Nev	v Delhi, 1	1998.		
		oks 2. Krishna Raju N., Advanced Reinforced Concrete Design, CBS Publishers and												nd	
Text	Book	~	Distributors, New Delhi, 1998.												
Text	Book			Distrib	utors, N	lew De	lhi, 199	98.	1.~		1 •		• .		

Books	publishers 2016
DOOKS	 Krishna Raju N., prestressed Concrete, Tata Mc graw Hill publishing company Ltd
	, New Delhi, 2018.
e-resources	1. app-u.pulsetip.com/assessing_loads_on_silos_and_other_bulk_storage_structures.pdf
Material	2. https://books.google.co.in/books?id=2iyUCgAAQBAJ

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