Branch: Down of the area and					Faculty:- " ,					
	: Drimity				,					
Machinery-II/TH-			of periods:	Total Period			80	Interna		
3	,		nrs/week	22	week: 15	al control of	assesment: 20			
chedu	led Session:	From		to		vone	8-2021			
Week		1		1 1	Topics	,			Remarks	
	1.0 Oil W	ell Drill Rig								
1-6	1st & 2nd	1.1	Give a bri	ive a brief description about different oil well drill rigs used in both offshore						
	131 0 2110	1.1	and onshe	ore.						
			Systems	used in oil well d	rill rig. (Power ge	enerating &	transmitting,	7 7		
	3rd & 4th	1.2	Rotating a	nd Feeding, Hois	sting, Tubing, Cir	culating, W	ell head, Fishing etc.)	- 1		
	2.0 Powe	ower Generating & Transmitting System								
	1st & 2nd	2.1	Explain the sources of power supply for oil well drill along with comparison							
ेनर			between	hem						
-	3rd & 4th	parties plant for all their arming								
	1st & 2nd		Explain th	lain the type of drives for power transmission in oil well drilling rig.						
3rd		_	eding Mech							
	3rd	3.1 Explain requirement rotating & feeding mechanisms in oil well drill rig							1 1	
	4th	3.2		ponents in rotati				$\perp$		
Sen.	1st & 2nd	3.3		e different syster	ns of transmission	on of power	to rotary table of oil we	# ]		
	3rd & 4th	drill.								
	1st & 2nd	3.4	Explain ro	ating and feedin	g mechanism in	top drive sy	stem			
	3rd & 4th	top drive system.								
	the state recards incentariant and explain such,									
	4.0 Hoisting Mechanism									
filth.	1st   4.1		Requirement of hoisting mechanism and Components in such (Derrick, Mast, Substructure, Hoisting line, Draw work, Travelling block, Swivel, Weight							
			Indicator e	tr.)	Draw work, Ira	veiling block	k, Swivel, Weight			
	2nd 4.2 Different types of Derrick & Mast along with field of application									
	3rd & 4th 4.3 Factors consideration in designing derrick & derrick load calculation						-			
Ten	1st & 2nd	The state of the s					-			
	3rd & 4th	Tarkle system						-		
	1st & 2nd	Company of I						-		
			types)			adiricad, cit	tell or pleak along with			
	5.0 Drill St	ring						-		
	3rd	5.1	State the components of rotary drill string and explain their functions.					+-		
		5.2	J.2 Tubings					+		
	4th & 1st		5.2,1	Kelly, Drill pipe	e, Drill collar, Dri	I string aux	iliaries along with types	100		
-				ox functions.			meries diorig with types			
51.0	2nd		5.2.2	Reason of drill		Or HALL		-		
	3rd & 4th		5.2.3	Drill string desi	ign.			1		
-	104	5.3	Bits		1-2	-v		+-		
	1st 2nd		5.3.1	State the differ	ent types of bits	used in oil	well drilling.	+		
			5.3.2	Tott design reatt	ares.			-		
	3rd 4th		5.3.3	Possible causes	of bit dullness	& remedies		-		
		Malli	5.3.4	Hit coloction m	ethods			-	1	
1206	o.o Casing & Well Head Fittings						-			
		6.1	Casing	1		1-1-		+-		
	1st		6.1.1	State the differ	ont one in			-	1 1 2	
		-		E direction	cur casing used	in oil well d	rilling & their functions.	.		
			6.1.2	explain the diffe	erent designs of	mall and		4		
	2nd	-	6.1.3	give the specific	cations of differ	ent cacinas		+-		
			6.1.4	Enumerate the	casing appliance	s used.		+-		
	3rd & 4th		6.1.5	Explain factors i	nfluence casing	da	esign criteria of casing.	-		
					asing	uesign & d	esign criteria of	1		

		6.2	Well head fittings.		
	1st		6.2.1	Explain the procedure of installation of wellhead fittings & function of wellhead fittings.	
171h	2nd		6.2.2	State the different types of B.O.P. and explain the mechanism involved.	
			6.2.3	State the function of B.O.P.	
	3rd		6.2.4	Control mechanism of B.O.P.	
	4th		6.2.5	Operational procedure of B.O.P.	
	7.0 Circulating system				
	1st	7.1	Equipment		
	2nd	7.2	Classify the	et eo disk en dike.	
1361	3rd	7.3	Derive the	, '	
	4th	7.4	Derive the		
	1st	7.5	Derive the to mud jett		
	2nd	7.6	Work out so		
	3rd	7.7	Explain the pump.	1 198	
	8.0 Fishing	5			
	4th	8.1	Define Fish		
	1st	8.2	Describe the		
	2ng	8.3	Enumerate	* *	
	3rd	8.4	Derive the f		
	4th	8.5	Explain the various techniques to be adopted for fishing operation.		

## SYLLABUS COVERAGE UP TO INTERNAL ASSESSMENT

Chapters-1&2

NOTES:-

Lecturer (Drilling) O.S.M.E., Keonjisef

Senior Lecturer (Drilling) OSME, Keonjhar