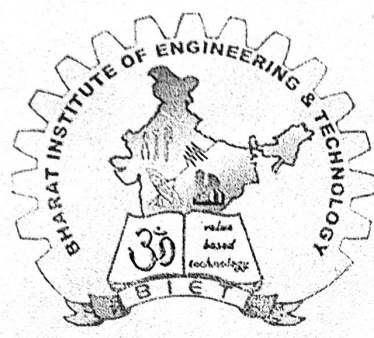


5th Mech '11

# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

SIVARAM VIHAR, GHATAKESWAR HILLS  
MOHADA, BERHAMPUR (GM.)



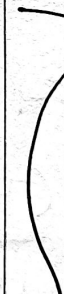
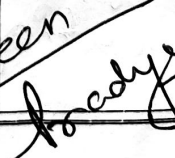


## STUDENT'S ATTENDANCE REGISTER

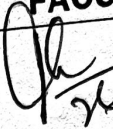







Time	9:55	9:50	11:50		
Day	10:45	9:40	11:40		
MON	L				
TUE			L		
THU		L			
SAT		L			

Year/ Session	3rd year, 2022
Semester & Branch	5th Sem, Mechanical Engey.
Subject with Code	TH-3, hydraulic machines and Industrial fluid power
Name of the Faculty Member	Pradyumna Maharana.

# B.I.E.T. SYLLABUS COVERAGE

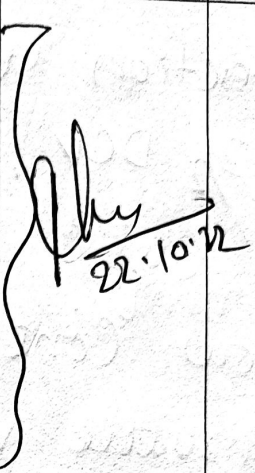
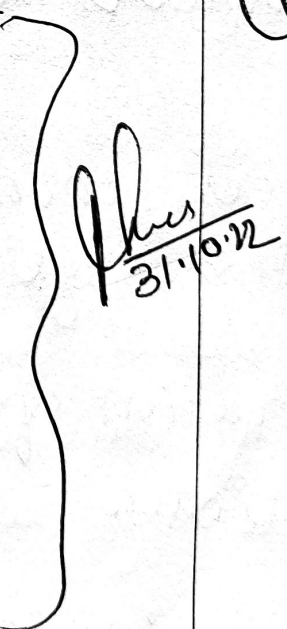
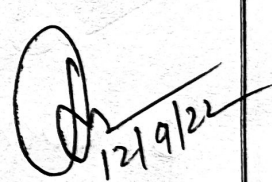
TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Definition and classification of hydraulic turbines.	19.9.22	 22.9.22	
Construction and working principle of impulse turbine.	20.9.22		
Velocity diagram of moving blades, work done and derivation of various efficiencies of impulse turbine.	22.9.22		 12/9/22
velocity diagram of moving blades, work done and derivation of various efficiencies of francis turbine.	23.9.22	 24.9.22	
velocity diagram of moving blades, work done and derivation of various efficiencies of kaplan turbine.	24.9.22		Seen  12.9.22.

# B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Numerical on above	26.9.22	 26.9.22	
Distinguish between impulse turbine and reaction turbine	27.9.22	 27.9.22	
<p style="text-align: center;"><u>CH-2</u></p> Construction and working principle of centrifugal pump.	29.9.22	 29.9.22	
work done and derivation of various efficiencies of centrifugal pump.	1.10.22	 1.10.22	 12/10/22
Numerical on above	13.10.22	 13.10.22	
<p style="text-align: center;"><u>CH-3</u></p> Describe construction & working of single acting reciprocating pump.	15.10.22	 15.10.22	
Describe construction & working of double acting reciprocating pump.	17.10.22	 17.10.22	

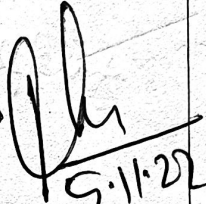
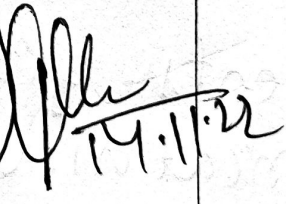

# B.I.E.T.

## SYLLABUS COVERAGE


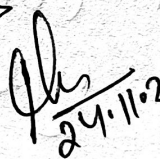


TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Derive the formula for power required to drive the pump.	18.10.22	 22.10.22	
Define slip	20.10.22		
State positive, negative slip establish relation between slip and coefficient of discharge.	22.10.22		
Solve numerical problems	25.10.22	 31.10.22	 12/9/22
<u>CH-4.</u>			
elements - filter - regulator lubrication unit	27.10.22		
pressure control valves	29.10.22		
pressure relief valves pressure regulation valves	31.10.22		

# B.I.E.T.


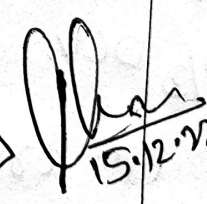
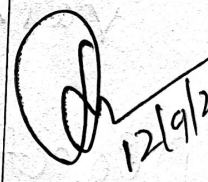
## SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Direction Control valves $3\frac{1}{2}$ DCV, $\frac{5}{2}$ DCV, $\frac{5}{3}$ DCV	1.11.22	 5.11.22	
Flow Control valves Throttle valves	3.11.22		
ISO Symbols of pneumatic components	5.11.22		
pneumatics Circuits	7.11.22	 14.11.22	 12/11/22
Direct Control of single acting cylinder.	10.11.22		
operation of double acting cylinder	12.11.22		
operation of double acting cylinder with metering in and metering out control.	14.11.22		



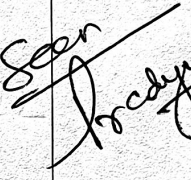
# B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
<u>CH-5.</u> Hydraulic systems, P/B merit and demerits.	15.11.22	 21.11.22	
Hydraulic accumulators.	17.11.22		
pressure control valves	19.11.22		
pressure relief valves pressure regulation valves	21.11.22		
Direction control valves	22.11.22	 24.11.22	 12/9/22
3/2 DCV	24.11.22		
5/2 DCV 5/3 DCV			
Flow control valves	25.11.22	 1.12.22	
Throttle valves	26.11.22		
Fluid power pumps	28.11.22		
External and internal gear pump.	29.11.22		
vane pump	1.12.22		

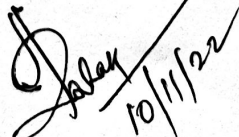
# B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Radial piston pump.	3.12.22	 8.12.22	
ISO symbols for hydraulic components.	5.12.22		
Actuators	6.12.22		
Hydraulic Circuits	8.12.22		
Direct Control of single acting cylinder	10.12.22	 15.12.22	 12/9/22
operation of double acting cylinder	12.12.22		
operation of double acting with metering in and metering out control	13.12.22		
Comparison of hydraulic and pneumatic system	15.12.22		

# B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Revision	17.12.22		
Revision	19.12.22	 22.12.22	
previous year Question practice	20.12.22		 12/19/22
previous year question practice.	22.12.22		Seen  12.9.22

AP

  
 10/11/22