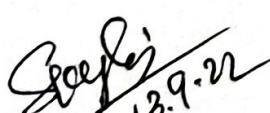
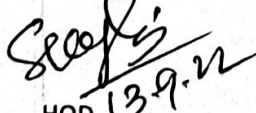
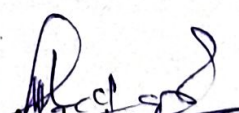
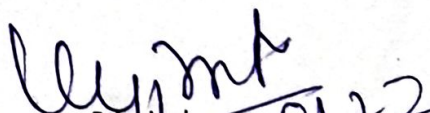


Decipline: Civil Engineering		Semester: 5th No of days/ per week class allotted: 6	Name of the Teaching Faculty: SUBRAT KUMAR PANIGRAHI
Subject: Civil Engineering Lab-II		Semester From date :15.09.2022 To Date : 22.12.2022	
		No. of Weeks: 13	
Week	Class Day (3P)	Theory/ Practical Topics	
Sept-3rd	1st	<b>1.0 TESTS ON SOIL :</b> 1.1 Determination of Specific gravity of Soil by Pycnometer /Density bottle.	
	2nd	1.2 Determination of Field Density of Soil by Core Cutter Method.	
Sept-4th	3rd	1.3 Determination of Particle Size gradation of sand/Gravel by sieve analysis.	
	4th	1.4 Wet mechanical analysis using pipette method for clay and silt.	
Oct-1st	5th	<b>Puja Holidays</b>	
	6th		
Oct-2nd	7th	1.5 Determination of Liquid Limit by soil by Casagrande"s apparatus.	
	8th	(b)Determination of Plastic limit of soil.	
Oct-3rd	9th	1.6 Determination of Shrinkage limit of soil.	
	10th	1.7 Determination of MDD & OMC of soil by using modified Proctor Test.	
Oct-4th	11th	1.8 Determination of CBR value using Laboratory CBR Testing device.	
	12th	1.9 Determination of c and $\phi$ of soil by triaxial testing device.	
Nov-1st	13th	1.10 Determination of coefficient of permeability of soil by constant head method.	
	14th	<b>2.0 HYRAULICS LABORATORY:</b> 2.1 Verification of Bernoulli's Theorem	
Nov-2nd	15th	2.3 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.	
	16th	2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe	
Nov-3rd	16th	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.	
	17th	<b>3.0 TRANSPORTATION LABORATORY:</b> 3.1 Penetration Test of Bitumen.	
Nov-4th	19th	3.2 Ductility Test of Bitumen.	
	20th	3.3 Viscosity Test of Bitumen.	
Dec-1st	21st	3.4 Bitumen content by centrifuge extractor.	
	22th	<b>4.0 PUBLIC HEALTH ENGINEERING LABORATORY:</b> 4.1 Determination of Turbidity of water Sample using Turbidimeter/Nephelometer /Jackson's Candle Turbidimeter. 4.2 Determination of pH of Water sample using (a) pH - meter (b) colour Comparator	
Dec-2nd	23rd	4.3 Determination of Chloride content of a Water sample using method of titration.	
	24th	4.4 Determination of Coagulant (Alum) dose requirement for a turbid water sample by Jar Test.	
Dec-3rd	25th	4.5 Determination of dissolved oxygen in a water sample.	
	26th	4.6 Determination of bacteriological quality of water sample by Coliform test.	
 Lecturer		 HOD Civil Engg.	
		 Academic Co-ordinator	
		 Principal GP Nabarangpur	