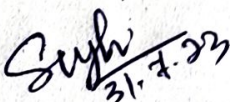

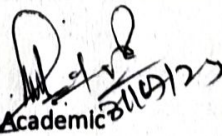



<b>Decipline:</b> Civil Engineering		<b>Semester: 5th</b> No of days/ per week class allotted: 6	<b>Name of the Teaching Faculty:</b> SUBRAT KUMAR PANIGRAHI
<b>Subject: Civil Engineering Lab-II</b>		<b>Semester From date :01.08.2023</b>	
<b>No. of Periods: 90</b>		<b>To Date : 30.11.2023</b>	
		<b>No. of Weeks: 16</b>	
Week	Class Day (3P)	Theory/ Practical Topics	
Aug-1st	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.	
Aug-2nd	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.	
Aug-3rd	7th	1.5 Determination of Liquid Limit by soil by Casagrande"s apparatus.	
	8th	(b)Determination of Plastic limit of soil.	
Aug-4th	9th	1.6 Determination of Shrinkage limit of soil.	
	10th	1.7 Determination of MDD & OMC of soil by using modified Proctor Test.	
Sept-1st	11th	<b>Record check &amp; Assessment</b>	
	12th	1.8 Determination of CBR value using Laboratory CBR Testing device.	
Sep-2nd	13th	1.8 Determination of CBR value using Laboratory CBR Testing device.	
	14th	1.9 Determination of c and $\phi$ of soil by triaxial testing device.	
Sep-3rd	15th	<b>Record check &amp; Assessment</b>	
	16th	1.10 Determination of coefficient of permeability of soil by constant head method.	
Sep-4th	17th	<b>2.0 HYRAULICS LABORATORY:</b>	
	18th	2.1 Verification of Bernoulli's Theorem 2.3 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel.	
Oct-1st	19th	2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe	
	20th	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.	
Oct-2nd	17th	<b>3.0 TRANSPORTATION LABORATORY:</b>	
	18th	3.1 Penetration Test of Bitumen. 3.2 Ductility Test of Bitumen.	
Oct-3rd	19th	<b>Record check &amp; Assessment</b>	
Oct-4th	20th	<b>Puja Holidays</b>	
Nov-1st	21st	3.3 Viscosity Test of Bitumen.	
		3.4 Bitumen content by centrifuge extractor.	
Nov-2nd	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	
Nov-3rd	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.	
Nov-4th	25th	4.5 Determination of dissolved oxygen In a water sample.	
	26th	4.6 Determination of bacteriological quality of water sample by Coliform test.	
<p style="text-align: center;">   Lecturer </p> <p style="text-align: center;">   HOD  Civil Engg. </p> <p style="text-align: center;">   Academic  Co-ordinator </p> <p style="text-align: center;">   Principal  GP Nabarangpur </p> <p style="text-align: right; font-size: 2em;">31/7/23</p>			