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 :01.08.2023
No. of Periods: 90		To Date : 30.11.2023
		No. of Weeks: 16

Week	Class Day (3P)	Theory/ Practical Topics
Aug-1st	1st	**1.0 TESTS ON SOIL :** 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	**Record check & Assessment**
	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 ϕ of soil by triaxial testing device.
Sep-3rd	15th	**Record check & Assessment**
	16th	1.10 Determination of coefficient of permeability of soil by constant head method.
Sep-4th	17th	**2.0 HYRAULICS LABORATORY:** 2.1 Verification of Bernoulli's Theorem
	18th	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	**3.0 TRANSPORTATION LABORATORY:** 3.1 Penetration Test of Bitumen.
	18th	3.2 Ductility Test of Bitumen.
Oct-3rd	19th	**Record check & Assessment**
Oct-4th	20th	**Puja Holidays**
Nov-1st	21st	3.3 Viscosity Test of Bitumen.
		3.4 Bitumen content by centrifuge extractor.
Nov-2nd	22th	**4.0 PUBLIC HEALTH ENGINEERING LABORATORY:** 4.1 Determination of Turbidity of water Sample using Turbidimeter/Nephlometer /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.

31.7.23
Lecturer

31.7.23
HOD
Civil Engg.

31/7/23
Academic
Co-ordinator

Principal
GP Nabarangpur
31/7/23