

DISCIPLINE: CIVIL	SEMESTER: 5TH	NAME OF THE TEACHING FACULTY: SMT. SIMARANI NAYAK
SUBJECT NAME: CIVIL ENGG LAB-II	No. of Days per Week Class Allotted: 4 days	Semester From Date: 1/8/2023 To Date: 30/11/2023 No of Weeks :18
August 1st week 2nd week 3rd week 4th week September 1st week 2nd week	1st week- (1st,2nd, day) 2nd week- (1st,2nd, day) 3rd week- (1st,2nd, day) 4th week- (1st,2nd, day) 1st week- (1st,2nd, day) 2nd week- (1st,2nd, day)	1.0 TESTS ON SOIL : 1.1 Determination of Specific gravity of Soil by Pycnometer /Density bottle. 1.2 Determination of Field Density of Soil by Core Cutter Method. 1.3 Determination of Particle Size gradation of sand/Gravel by sieve analysis. 1.4 Wet mechanical analysis using pipette method for clay and silt. 1.5 (a) Determination of Liquid Limit by soil by Casagrande's apparatus. (b) Determination of Plastic limit of soil. 1.6 Determination of Shrinkage limit of soil. 1.7 Determination of MDD & OMC of soil by using modified Proctor Test. 1.8 Determination of CBR value using Laboratory CBR Testing device. 1.9 Determination of c and ϕ of soil by triaxial testing device. 1.10 Determination of coefficient of permeability of soil by constant head method
September 3rd week 4th week October 1st week	3rd week- (1st,2nd, day) 4th week- (1st,2nd, day) 1st week- (1st,2nd, day)	2.0 HYDRAULICS LABORATORY: 2.1 Verification of Bernoulli's Theorem 2.3 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel. 2.3 Determination of coefficient of Discharge of a Venturimeter, Orificemeter fitted in a pipe 2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.
October 2nd week 3rd week November 1st week	2nd week- (1st,2nd, day) 3rd week- (1st,2nd, day) 1st week- (1st,2nd, day)	3.0 TRANSPORTATION LABORATORY: 3.1 Penetration Test of Bitumen. 3.2 Ductility Test of Bitumen. 3.3 Viscosity Test of Bitumen. 3.4 Bitumen content by centrifuge extractor.
November 2nd week 3rd week 4th week	2nd week- (1st, 2nd, day) 3rd week (1st, 2nd, day) 4th week -(1st, 2nd day)	4.0 PUBLIC HEALTH ENGINEERING LABORATORY: 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. 4.3 Determination of Chloride content of a Water sample using method of titration. 4.4 Determination of Coagulant (Alum) dose requirement for a turbid water sample by Jar Test. 4.5 Determination of dissolved oxygen in a water sample. 4.6 Determination of bacteriological quality of water sample by Coliform test.

Galayak
31/07/23
PTGF Civil