LESSON PLAN OF 5th SEMESTER(2018-21) CIVIL ENGINEERING

Discipline :- CIVIL	Semester:- 5TH	Name of the Teaching Faculty:- Mrs.SUBHASHREE SAHOO
Subject:- Pr1. CIVIL ENGINEERING LABORATORY-II	No of Periods/per Week Class Allotted :- 06	Semester From:- 01.09.2020 To:- 19.03.2021 No of Weeks:- 29

Week	Class Day	Theory Topics
1st	1st	**1.0 TESTS ON SOIL :** 1.1 Determination of Specific gravity of Soil by Pycnometer /Density bottle.
	2nd	Determination of Specific gravity of Soil by Pycnometer /Density bottle.
	3rd	Determination of Specific gravity of Soil by Pycnometer /Density bottle.
	4th	1.2 Determination of Field Density of Soil by Core Cutter Method.
	5th	Determination of Field Density of Soil by Core Cutter Method.
	6th	Determination of Field Density of Soil by Core Cutter Method.
2nd	1st	Determination of Field Density of Soil by Core Cutter Method.
	2nd	1.3 Determination of Particle Size gradation of sand/Gravel by sieve analysis.
	3rd	Determination of Particle Size gradation of sand/Gravel by sieve analysis.
	4th	Determination of Particle Size gradation of sand/Gravel by sieve analysis.
	5th	1.4 Wet mechanical analysis using pipette method for clay and silt.
	6th	Wet mechanical analysis using pipette method for clay and silt.
3rd	1st	Wet mechanical analysis using pipette method for clay and silt.
	2nd	1.5 (a) Determination of Liquid Limit by soil by Casagrande's apparatus.
	3rd	Determination of Liquid Limit by soil by Casagrande's apparatus.
	4th	Determination of Liquid Limit by soil by Casagrande's apparatus.
	5th	(b)Determination of Plastic limit of soil.
	6th	Determination of Plastic limit of soil.
4th	1st	Determination of Plastic limit of soil.
	2nd	Plastic limit & liquid limit result analysis
	3rd	1.6 Determination of Shrinkage limit of soil
	4th	Determination of Shrinkage limit of soil
	5th	Determination of Shrinkage limit of soil
	6th	Determination of Shrinkage limit of soil
5th	1st	1.7 Determination of MDD & OMC of soil by using modified Proctor Test.
	2nd	Determination of MDD & OMC of soil by using modified Proctor Test.
	3rd	Determination of MDD & OMC of soil by using modified Proctor Test.
	4th	Determination of MDD & OMC of soil by using modified Proctor Test.
	5th	Determination of MDD & OMC of soil by using modified Proctor Test.
	6th	Determination of MDD & OMC of soil by using modified Proctor Test.
6th	1st	1.8 Determination of CBR value using Laboratory CBR Testing device.
	2nd	Determination of CBR value using Laboratory CBR Testing device.
	3rd	Determination of CBR value using Laboratory CBR Testing device.
	4th	1.9 Determination of c and ϕ of soil by triaxial testing device.
	5th	Determination of c and ϕ of soil by triaxial testing device.
	6th	Determination of c and ϕ of soil by triaxial testing device.
7th	1st	1.10 Determination of coefficient of permeability of soil by constant head method

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	2nd	Determination of coefficient of permeability of soil by constant head method
	3rd	Determination of coefficient of permeability of soil by constant head method
	4th	2.1 Verification of Bernoulli's Theorem
	5th	Verification of Bernoulli's Theorem
	6th	Verification of Bernoulli's Theorem
8th	1st	Verification of Bernoulli's Theorem
	2nd	2.2 Determination of coefficient of Discharge of a rectangular notch fitted in open Channel
	3rd	Determination of coefficient of Discharge of a rectangular notch fitted in open Channel
	4th	Determination of coefficient of Discharge of a rectangular notch fitted in open Channel
	5th	Determination of coefficient of Discharge of a rectangular notch fitted in open Channel
	6th	2.3 Determination of coefficient of Discharge of a Venturimeter fitted in a pipe
9th	1st	Determination of coefficient of Discharge of a Venturimeter fitted in a pipe
	2nd	Determination of coefficient of Discharge of a Orifice meter fitted in a pipe
	3rd	Determination of coefficient of Discharge of a Orifice meter fitted in a pipe
	4th	2.4 Determination of head Loss due to friction and coefficient of friction for flow through pipe.
	5th	Determination of head Loss due to friction and coefficient of friction for flow through pipe.
	6th	Determination of head Loss due to friction and coefficient of friction for flow through pipe.
10th	1st	Determination of head Loss due to friction and coefficient of friction for flow through pipe.
	2nd	3.0 TRANSPORTATION LABORATORY: 3.1 Penetration Test of Bitumen.
	3rd	Penetration Test of Bitumen
	4th	Penetration Test of Bitumen
	5th	Penetration Test of Bitumen
	6th	3.2 Ductility Test of Bitumen.
11th	1st	Ductility Test of Bitumen.
	2nd	Ductility Test of Bitumen.
	3rd	Ductility Test of Bitumen.
	4th	3.3 Viscosity Test of Bitumen
	5th	Viscosity Test of Bitumen
	6th	Viscosity Test of Bitumen
12th	1st	Viscosity Test of Bitumen
	2nd	3.4 Bitumen content by centrifuge extractor.
	3rd	Bitumen content by centrifuge extractor.
	4th	Bitumen content by centrifuge extractor.
	5th	Bitumen content by centrifuge extractor.
	6th	4.0 PUBLIC HEALTH ENGINEERING LABORATORY: 4.1Determination of Turbidity of water Sample using Turbidimeter / Nephlometer /Jackson's Candle Turbidimeter
13th	1st	1Determination of Turbidity of water Sample using Turbidimeter / Nephlometer /Jackson's Candle Turbidimeter
	2nd	1Determination of Turbidity of water Sample using Turbidimeter / Nephlometer

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		/Jackson's Candle Turbidimeter
	3rd	1Determination of Turbidity of water Sample using Turbidimeter / Nephlometer /Jackson's Candle Turbidimeter
	4th	4.2 Determination of pH of Water sample using (a) pH – meter
	5th	Determination of pH of Water sample using (a) pH – meter
	6th	Determination of pH of Water sample using (b) colour Comparator.
14th	1st	Determination of pH of Water sample using (b) colour Comparator.
	2nd	4.3 Determination of Chloride content of a Water sample using method of titration.
	3rd	Determination of Chloride content of a Water sample using method of titration.
	4th	Determination of Chloride content of a Water sample using method of titration.
	5th	4.4 Determination of Coagulant (Alum) dose requirement for a turbid water sample by Jar Test
	6th	Determination of Coagulant (Alum) dose requirement for a turbid water sample by Jar Test
15th	1st	Determination of Coagulant (Alum) dose requirement for a turbid water sample by Jar Test
	2nd	4.5 Determination of dissolved oxygen in a water sample.
	3rd	Determination of dissolved oxygen in a water sample.
	4th	Determination of dissolved oxygen in a water sample.
	5th	4.6 Determination of bacteriological quality of water sample by Coliform test
	6th	Determination of bacteriological quality of water sample by Coliform test
16th	1st	Determination of bacteriological quality of water sample by Coliform test
	2nd	Determination of bacteriological quality of water sample by Coliform test
	3rd	Experiments conducted in the laboratory and field.
	4th	
	5th	
	6th	
17th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
18th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
19th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
20th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	

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	5th	
	6th	
21th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
22th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
23th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
24th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
25th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
26th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
27th	1st	Experiments conducted in the laboratory and field.
	2nd	
	3rd	
	4th	
	5th	
	6th	
28th	1st	Record submission
	2nd	
	3rd	
	4th	
	5th	

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	6th				
29th	1st				
	2nd				
	3rd			Record submission	
	4th				
	5th				
	6th				

Signature of the concerned Lecturer 01.09.2020

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