

LESSON PLAN

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| Discipline: Civil Engg. | Semester: Fifth (5 TH) | Name of the Lab I/C: Er Malaya Ranjan Sahu/Er P K Acharya |
| Subject: Civil Engg. Lab-II | No. of days/week class allotted: Six (6) | Semester from Date: 15.09.22 to Date: 22.12.22 No. of Weeks: 15 |
| WEEK | CLASS DAY | PRACTICAL EXPERIMENTS |
| 1 st | 1 st | Determination of Specific gravity of Soil by Pycnometer/Density bottle |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | |
| | 6 th | Review class |
| 2 nd | 1 st | Determination of Field Density of Soil by Core Cutter Method. |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | |
| | 6 th | Review class |
| 3 rd | 1 st | Determination of Particle Size gradation of sand/Gravel by sieve analysis |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | |
| | 6 th | |

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| 4 th | 1 st | Determination of Liquid Limit by soil by Casagrande's apparatus. |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | |
| | 6 th | Review class |
| 5 th | 1 st | Determination of Plastic limit of soil |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | |
| | 6 th | Review class |
| 6 th | 1 st | Determination of MDD & OMC of soil by using modified Proctor Test |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | |
| | 6 th | Review class |
| 7 th | 1 st | Determination of CBR value using Laboratory CBR Testing device |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | |
| | 6 th | Review class |

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| 8 th | 1 st | Determination of coagulant (Alum) dose requirement for a turbid water sample by jar test |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | Review class |
| | 6 th | Review class |
| 9 th | 1 st | Determination of pH of Water sample using pH-meter |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | Review class |
| | 6 th | |
| 10 th | 1 st | Review class |
| | 2 nd | Determination of Turbidity of water Sample using Jackson's Candle Turbidimeter |
| | 3 rd | |
| | 4 th | |
| | 5 th | |
| | 6 th | |
| 11 th | 1 st | Review class |
| | 2 nd | Review class |
| | 3 rd | Verification of Bernoulli's theorem. |
| | 4 th | |
| | 5 th | |
| | 6 th | Review class |

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| 12 th | 1 st | Determination of co-efficient of discharge of a venturimeter. |
| | 2 nd | |
| | 3 rd | |
| | 4 th | |
| | 5 th | Review class |
| | 6 th | Review class |
| 13 th | 1 st | Review class |
| | 2 nd | Review class |
| | 3 rd | Review class |
| | 4 th | Review class |
| | 5 th | Review class |
| | 6 th | Review class |
| 14 th | 1 st | Review class |
| | 2 nd | Review class |
| | 3 rd | Review class |
| | 4 th | Review class |
| | 5 th | Review class |
| | 6 th | Review class |
| 15 th | 1 st | Review class |
| | 2 nd | Review class |
| | 3 rd | Review class |
| | 4 th | Review class |
| | 5 th | Review class |
| | 6 th | Review class |

