

Paper code: ETEN 255

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Practical/viva-Voce: Environmental Chemistry & Microbiology Lab

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Based on theory courses ETEN 203 (8-10 experiments)

1. Determination of heavy metals in soil sample.
2. Determination of Total kjeldahl Nitrogen (TKN), Ammoniacal nitrogen & Organic Nitrogen in wastewater sample.
3. Determination of Phosphate & Orthophosphate using UV/Visible Spectrophotometer.
4. Optimization of coagulant dose with Jar Test for the treatment of water/ wastewater/ effluent.
5. Optimization of pH for precipitation of hydroxides of Chromium and Zinc.
6. Determination of Chromium and Zinc in industrial wastewaters Determination of effect of pH and time on adsorption of textile dye on Activated carbon.
7. Development of Adsorption Isotherms for batch operations.
8. E. coli and fecal coliforms count.
9. Sterilization and disinfection.
10. Medium preparation.
11. Basic coloring and Negative coloring.
12. Preparation of low cost adsorbents and determination of their adsorption capacity.