

BCO 106-P BIOCHEMISTRY OF ENVIRONMENTAL POLLUTION AND REMEDIATION[P]

Practical Course Credit: 1

Contact Hours: 30

1. Assessment of water quality – analysis of BOD, COD, dissolved oxygen.
2. Detection of sewage pollution by screening for indicator organisms such as *E. coli*.
3. Composting of organic waste.
4. Biotransformation of xenobiotics.

Reference Books (Composite list for theory and practicals)

1. Dara, S.S., A text book of Environmental Chemistry and Pollution Control. S.Chand Publishers
2. E. Enger, E. D., Smith, B. E., Environmental Science: A study of Interrelationships, WCB publication, McGraw-Hill Higher Education.
3. Khopkar, S. M., Environmental Pollution Analysis. John Wiley & Sons.
4. Mitchell, R.&Cu, J. D., Environmental MicrobiologyWiley-Blackwell Publication
5. Ramesh, K. V., Environmental Microbiology. MJP Publishers, India.
6. Maier, R., Pepper, I.&Gerba, C., Environmental Microbiology. Academic Press.
7. Moore J. W.& Moore, E. A., Environmental Chemistry. Elsevier.
8. Jadhav, H.V., Elements of Environmental Chemistry: For Undergraduate Science Students of Indian University. Himalaya Publishing House.
9. Satake, M., Sethi, S.&Eqbal, S.A., Environmental Chemistr