

**MMO 104-P MARINE ENVIRONMENT AND PUBLIC HEALTH MANAGEMENT [P]**

**Practical Course Credit : 1**

**Contact Hours : 30**

1. Estimation of major pollutants (aromatic halide) using spectrophotometry.
2. Testing the efficacy of aquaculture sanitizers.
3. Microbial pollution of water, detection and characterization of different indicator and pathogenic organisms such as *S. aureus*, *E. coli*, *V. cholerae*, *Salmonella*, *Shigella*, by conventional and rapid methods.

**Reference Books (Composite list for theory and practicals)**

6. Hester, R. E., Harrison, R. M., Marine Pollution and Human Health, Vol. 33, Issues in Environmental Science and Technology, Royal Society of Chemistry.
7. Belkin, S. and Colwell, R. R., Oceans and Health: Pathogens in Marine Environment. Springer Publishers.
8. Stoskopf, M. K., Fish Medicine, W. B. Saunders Company, Philadelphia.
9. Noga E. J., Fish Disease: Diagnosis and Treatment, Wiley-Blackwell Publishers.
10. Plumb, J., Health Maintenance and Principal Microbial Diseases of Cultured Fishes, Blackwell Publishing.
11. Subba Rao, N. S., Soil Microbiology, Oxford and IBH Publishing.
12. Rheinheimer, G., Aquatic Microbiology, John Wiley Publishers.
13. Clark, R. B., Frid, C., Attrill, M., Marine Pollution, Oxford University Press.
14. Wedemeyer, G. A., Meyer, F. P. and Smith, L., Environmental Stress and Fish Diseases, TFH Publications, Neptune, New Jersey.
15. Plumb, J.A. and Hanson, L.A. Health Maintenance and Principal Microbial Diseases of Cultured Fishes. Wiley-Blackwell Publishers.
16. Buller, N. B. and Plumb, J. A., Bacteria from Fish and Other Aquatic Animals: A Practical Identification Manual, CABI Publishing.