

UNIVERSITY

DEPARTMENT OF BIOSCIENCES

M.Sc. ENVIRONMENTAL SCIENCE

ESS453 ENVIRONMENTAL CHEMISTRY

ESS455 ENVIRONMENTAL HEALTH MANAGEMENT

Course Outcomes:

CO1 Gain the knowledge of water borne diseases and prevention.CO2 Know the different air borne bio-allergens.CO3 Understand the diseases of man.CO4 Get the knowledge of food borne diseases.

UNIT I (13 hours)

Environmental health: Criteria, Chemical Safety; Effects of mercury, lead, chromium, cadmium, arsenic and nitrate on human health; Water borne diseases - Prevention and protection of community health from water borne diseases.

UNIT II (13 hours)

Air borne bio-allergens, seasonal changes, mode of dispersal, disease intensity and control. Effects of Physical Environment on Accidents and Crime; Diseases of Man: Effects of temperature, humidity, ionization, ultra violet radiation and acidity of air on skin, lungs, throat, nose, eye, nervous system.

UNIT III (13 hours)

Food borne diseases: Types, symptoms and prevention. Food safety. Environmental sanitation. Effects of weather and climate on human health, working efficiency, traffic and industrial accidents.

References

- 1. Wisner, B. and Adams, J., 2002. Environmental Health in emergencies and disasters A Practical Guide, World Health Organization.
- 2. Paul R. Hunter, 1997. Waterborne disease: Epidemiology and ecology, Chichester John Wiley and Sons Ltd.
- 3. Eaton, A. D., Clesceri, L.S. & Greenberg, A.E. 1995. Standard Methods for the Examination of Water and Wastewater. APHA, Washington.
- 4. Moriarty, F., 1975. Pollutants and animals: A factual perspective. George Allan & Unwin Ltd., London.
- 5. Atlas, RM and Bartha R. Microbial Ecology. Benjamin-Cummings Sci. Press, USA.
- 6. Beven, K., 2002. Rainfall-Runoff Modeling: The Primer.
- 7. Beaglehole, R., Bonita, R. and Kjellstrome, T. 2006. Basic epidemiology
- 8. Environmental Health Emergency Response Guide, A supplement to local emergency preparedness and response plans, Advanced Practice Centres.

