

ELECTIVE COURSE III – ENVIRONMENTAL BIOTECHNOLOGY

UNIT I:

Deterioration of Leather, wood, Textiles, metal corrosion – mode of deterioration – organisms involved – mode of prevention.

UNIT II:

Liquid waste treatment. Methods of primary, secondary – involved organisms.

UNIT III:

Types of water, microbial living system, potability of water, microbial assessment of water, quality, water born diseases. Utilization distillery wastes, cement exhaust dust effects on plants.

UNIT IV:

Account of air born transmission of microbes and diseases. Biomonitoring of Environmental pollution.

UNIT V:

Solid waste treatment – saccharification, composting – utilization of solid waste food (SCP, mushroom) fuel, (ethanol), fertilizers.

REFERENCE

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2. Baaker, KH and Herson D.S. 1994. Bioremediation, Mc.GrawHill Inc, NewYork.
3. W.C. Earnest, (1982). The environment of the deep sea vol. II J.C. Morin Rubery.
4. C.R. Leinleimer (1977) Microbial ecology of brackish water environment ecological Berlin – Heidelberg. New York.
5. William M. Lewis. Jr, James F. Saunders, David w. Crampacker Sr. and Charles Brendecke., (1984) Ecological studies – 46