AMICE08 ENVIRONMENTAL MONITORING INSTRUMENTS

UNIT-1 POLLUTANTS PRODUCED BY HUMAN AND INDUSTRIAL ACTIVITIES

- 1.1 need for monitoring classification- ambient environmental monitoring
- 1.2 Source monitoring- in plan environmental monitoring- personal monitoring.

UNIT-2 AIR POLLUTION

- 2.1 Different air pollutants- effects- monitoring and abatement conductivity
- 2.2 Coulometry- electrochemical cell- piezoelectric-optical methods instruments and case study.

UNIT-3 WATER POLLUTION

- 3.1 Water pollutants- health hazards.
- 3.2 Detection techniques emission spectroscopy- atomic absorption spectroscopy
- 3.3 Polarography- chromatography computer methods- waste water treatment.

UNIT-4 SOIL POLLUTION

- 4.1 Industrial solid pollutants- pesticides Engineer 2ndio
- 4.2 Their effect on agricultural products- salinity nutrients- residuals- monitoring- control.

UNIT-5 NOISE POLLUTION AND MEASUREMENT

5.1 The effect of noise on human beings and environment – source of noise- method to measure and reduce the noise.

References Books:

- 1. S.P. Mahajan Pollution Control in Process Industries Tata McGraw Hill.
- 2. J. F. Andrew, P. Briggs and S.H. Jankrins Instrumentation for Control and Automation for water waste water Treatment System Pergamon Press
- 3. C.S. Arthur Air Pollution Academic Press.