SYLLABUS FOR SPECIAL TEST IN SANITATION SCIENCE, TECHNOLOGY AND MANAGEMENT

Environmental Pollution
Cause, effects and control measures of:-Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards, Solid waste Management: Causes, effects and control measures of urban and industrial wastes, Role of an individual in prevention of pollution. **Reference books:** Erach Bharucha, Text book for Environmental Studies, University Grants Commission, New Delhi, India, 2004
Water and Wastewater Treatment
Water and wastewater characteristics; Basic unit processes and operations for water treatment; Drinking water standards; Distribution of water; Sewage and sewerage treatment; Primary, secondary and tertiary treatment of wastewater, effluent discharge standards; Sludge disposal. **Reference books:** Water Supply Engineering and Wastewater Engineering by B. C. Punmia. Laxmi Publications (P) Ltd., New Delhi. Water Supply Engineering and Sewage & Wastewater Disposal Engineering by S. K. Garg. Khanna Publishers, Delhi, Environmental Engineering by H.S. Peavy. McGraw Hill International editions.
Measurement of Water Quality
Sampling, Dissolved Oxygen, Biochemical Oxygen Demand, Chemical Oxygen Demand, Total Organic Carbon, Turbidity, Color, Taste, and Odor, Alkalinity, Solids, Nitrogen and Phosphorus, Pathogens, Heavy Metals, Other Organic Compounds **Reference books** Ruth F Weiner and Robin A Matthews., Environmental Engineering, Fourth Edition, 2003. Butterworth and Heinemann
Sludge Treatment and Disposal
Sources of Sludge, Characteristics of Sludges, Sludge Treatment, Ultimate Disposal **Reference books:** Ruth F Weiner and Robin A Matthews., Environmental Engineering, Fourth Edition, 2003. Butterworth and Heinemann
Solid Waste Management
Quantities and Characteristics of Municipal Solid Waste, Collection, Disposal Options **Reference books:** Ruth F Weiner and Robin A Matthews., Environmental Engineering, Fourth Edition, 2003. Butterworth and Heinemann

SYLLABUS FOR SPECIAL TEST IN SOFTWARE SYSTEMS