

FST 508: Food Industrial Waste Management (2 Units)

Various wastes of food industries i.e. solid waste and waste water, their treatment and disposal. Effect of solid waste on environment, utilization of waste as fuel, fertilizer, animal feed and cellulose acetate. Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD). Calculation in waste effluents from food processing plants. Physical treatment of waste i.e. sedimentation, centrifugation, concentration, flotation methods, absorption processes, ultra filtration, reverse osmosis and electrolysis. Chemical treatment of waste water i.e. coagulation, emission-breaking process, trickling filter, aerated lagoons, stabilization ponds, anaerobic biological processes, aerobic, facultative anaerobic process.