

17
Process Calculations : Introduction, Basic Chemical Calculation, Material Balance with and without chemical reaction, Energy Balance, Combustion, Ideal gas law.

Mechanical Operation : Introduction and concepts of Mechanical Operations, particulate solids, Screen Analysis, Size Reduction, Sedimentation, Filtration, Agitation and Mixing, Equipment set-up and maintenance.

Industrial Safety and Environmental Engineering : General Introduction & Concept of Safety, Chemical & Fire Hazards & their Control, Other hazards & occupational disease, Personal Protective Device, Introduction to pollution, Air Pollution, Water Pollution Solid waste of disposal.

Plant Utilities and Energy Engineering : Introduction, Conventional fuels, Non-conventional sources of energy, Water Steam, Air & Refrigeration, Equipment set-up and maintenance.

Computer Awareness : Applications of computers in Chemical Instrumentation and Process Control, Basic knowledge of Computer Applications, viz. MS Word, MS Excel, Power Point etc. Internet, Windows.

Communication skills : English grammar, vocabulary, oral and written communication.

mtl

~~GP~~

30/09/2024

(BRAJENDRA KUMAR)

GPP7.

g

20/9