Course Curriculum for Solar Thermal for Std X (Work Experience)

Objective: *An average student should be able to understand the utilization of Solar energy for heating purposes and its applications*

1. Solar cooker
2. Solar water heaters

25 Hrs

Topic
Solar Thermal- introduction a. Nature of thermal radiation b. Understanding phenomenon of heat absorption c. The heat gain and heat loss d. Temperature equilibrium ("Renewable energy technologies", A practical guide for beginners by Dr.Chetan S. SolankiChpt. 4 Pgs. 51 to 55)
Physical construction a. Solar cooking systems b. Solar concentrators c. Solar water heating systems d. Solar air heating systems e. Overall solar heating systems(pressurised non pressurised) f. Overall maintenance
Components and specification of Solar Thermal heating system a. Installation and maintenance of the system b. Introduction to Solar distillation system
Instrumentation for Solar Radiation
a. Lux meter b. Radiation meter
Innovative approach
a. Projects