

SYLLABUS :-

Solar system. Design of solar energy operated systems for heating, cooling, distillation, drying, dehydration, water pumping and power generation for application in agriculture. Photo voltaic devices. Utilization of wind energy for generation of electricity and mechanical power. Types of wind mills and their characteristics. Mechanics of wind mills. Design of wind mills. Recycling of agricultural waste. Microbial conversion of plant materials to fuel. Bio-chemistry of anaerobic fermentation of bio-mass. Design of biogas systems for heating, lighting and running IC engines. Economics of biogas utilization. Bio-fuels.