

ERU Laboratory

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List of Experiments

Session 1 To draw the characteristic curves of a Pelton Turbine.
Session 2 To draw the characteristic curves of a Francis Turbine.
Session 3 To draw the characteristic curves of Kaplan Turbine.
Session 4 To visit and study the operation of hybrid photovoltaic system installed in KICS-UET-Lahore.
Session 5 To calculate the energy generation of hybrid photovoltaic system installed in KICS-UET-Lahore.
Session 6 To optimize tilt angle of hybrid photovoltaic system installed in KICS-UET-Lahore
Session 7 To demonstrate PV system components and their sizing.
Session 8 To draw characteristic curves of PV system in series arrangement.
Session 9 To draw characteristic curves of PV system in parallel arrangement.
Session 10 To assemble and disassemble the hawt.
Session 11 To assemble and disassemble the vawt (darrieus rotor).
Session 12 To investigate the darg and lift of scale meodal of hawt in wind tunnel.
Session 13 To investigate the darg and lift of scale meodal of vawt in wind tunnel.
Session 14 To demonstrate working of biogas plant.
Session 15 To simulate the behaviour of solar water heater using Computer Controlled Thermal Solar Energy Unit.

SOLAR WATER HEATING SYSTEM



PV PANELS APPARATUS

