



Department of Electrical Engineering

Workshop Report on “Solar PV Technology” under “BSS Student Skill Training Program”

Electrical Engineering Department, G.H.Raisonni Institute of Engineering and Technology, Nagpur organized one day workshop on “Solar PV Technology” under BSS Student Skill Training Program on 01/06/2019 for Polytechnic final year students. The workshop was attended by 18 students from different institutes viz., G H Raisonni Polytechnic Nagpur, Government Polytechnic Nagpur, Shri Datta Meghe Polytechnic Nagpur & Priyadarshini Polytechnic Nagpur. Session was conducted by Asst. Prof. D. U. Sarkar, Faculty, Electrical Engineering Department.

Workshop was conducted in three session's. Session-I has been start with the introduction of basic concept of solar radiation geometry, delivered knowledge of Latitude & longitude which is more essential to understand Solar PV Technology also provide the basics knowledge of various types of Solar panels, Solar Plants as well as Maximum power point tracking techniques. Session-II has been start with the practical session at Solar PV laboratory, where first we provide the mandatory information of Solar PV laboratory with devices ratings, then explained all practical's followed by hands-on practice to students. Practical's like Solar PV module VI Characteristics, Solar Charger, Array formation to run DC motor as well as to glow LED lights. Students was taken more interest and done all practicals very well. In Session-III, Students visited to 172.5 KW Roof top Solar PV Plant at Shradha park campus where Students cleared their doubt regarding ON-Grid & OFF-Grid concept, mounting structure, Series & Parallel connection of big array, formation of solar cell-Solar module-string-Array-Structure concept. This workshop is much beneficial for them also i hope that this workshop will helps them to make their career in Renewable field.

