



पावर सिस्टम ऑपरेशन कॉर्पोरेशन लिमिटेड
Power System Operation Corporation Limited
उ.पू.क्षे.भा.प्रे.के. , शिलांग / NERLDC, Shillong
Summer Internship Programme 2021

The Report

Summer Internship was conducted by NERLDC from 28th June to 27th July 2021 as per the Gyanodaya guidelines.

40 students from institutes like National Institute of Technology (Silchar and Meghalaya), Pune Engineering Institute, North-Eastern Regional Institute of Science and Technology (NERIST), Sikkim Manipal Institute of Technology (SMIT), Motilal Nehru National Institute of Technology (NIT Allahabad) were part of this internship programme.

During the month-long programme, field experts from NERLDC delivered lectures on topics like *Overview of POSOCO, Regulatory Affairs (IEGC, Act etc.); Reactive Power Management; Reserves, Balancing Mechanisms; Scheduling & Despatch; IT in Grid Operation; Power Market in India; Black-Start and Restoration Procedure; Technical Services in RLDC; SCADA in System Operation; Synchro phasor and its application; Power System Studies with focus on Power System Security and Reliability; Post-Dispatch Analysis; Importance of Cyber Security; Metering and Settlement and Transmission Tariff in India.*

All the interns were assigned projects under the guidance of NERLDC employees. Presentation on project topics: STATCOM, Rule Based Chatbot designed for POSOCO, Blockchain in Electric Power System, Analysis on Challenges in Long scale integration of RE into the grid and its overcoming; Renewable energy Market in India; Honey net setup in NERLDC SCADA System, Market Based Ancillary Service Portal, Impact of Weather parameters on Power System and use of low cost weather data in Real-time System Operation, Pre-processing of Historical Data using Python Program and Utilization as training data in demand forecasting using ANN and Guwahati islanding Scheme were delivered by the interns on 29th July 2021 in presence of mentors, department heads and Head of Region, NERLDC.


