

Date of Event	29th Jan 2022
Name and Type of Event	<ol style="list-style-type: none"> 1. Dr. Akshay Kumar on the topic “Intelligent Techniques based Automatic Generation Control in Hybrid Multi-Source Power System” 2. Prof Viranshu Kumar on the topic “Effect of deformation on microstructure and corrosion behaviour of austenitic stainless steel”
Conducted by	Dr. Anupam Kumari
Number of Participants	32

The Resource person **Dr. Akshay Kumar and Prof Viranshu Kumar** are Assistant Professor of the School of Engineering and IT, ARKA JAIN University, Jamshedpur.

The speaker gave informative and illuminating lecture with valuable content. The session was very valuable for Faculties, Researcher and Students. The distributed generations have attracted many new renewable energy sources (RESs) based power generating units with the fossil fuel-fired based power generating units. The high penetration of RESs poses a threat to power quality, stability and reliability in the existing electrical power system. RESs based power generating units do not offer any contribution to the system inertia. RESs based power generating units operate at the maximum power point (MPP) to extract the maximum available power. In distributed generations, load frequency control (LFC) is the most important issues for reliable operation. It plays an important role to keep diversified multi-source power generation units in synchronism by regulating the real power outputs.

To achieve the high strength of material through deformation processes such as forging and rolling are cost effective than the development of new alloys. Reactors like Boiling Water Reactor & Pressurized Water Reactors are made from 316L and 316LN ASS. Compared with cold forging, warm forging has the potential advantages of reduced tooling loads, reduced forging press loads, increased steel ductility. The material processed under this condition gives optimum strength and ductility also the presence of residual stresses is less. The material used in this work is 316LN and 316L austenitic stainless steel. All the experiments were performed on the as-rolled ASS samples of 8 mm thickness. The chemical compositions of the steels were obtained using optical

emission spectroscopy in wt.% . The samples were cut into the dimension of 10 x 10 x 8 mm for microstructural studies.

About the Speaker:-

Dr. Akshay Kumar is Assistant Professor of the Dept of Engg, School of Engineering and IT, ARKA JAIN University, Jamshedpur..

Prof Viranshu Kumar is Assistant Professor of the Dept of Engg, School of Engineering and IT, ARKA JAIN University, Jamshedpur.

Venue and Participants:-

Knowledge Manthan was conducted online on Google Meet Platform. **Total participants attended were 35**

Event Poster

JGI ARKA JAIN University
Jharkhand (Jamshedpur)

Department of Engineering
Presents
KNOWLEDGE MANTHAN

SPEAKER

Dr. AKSHAY KUMAR TOPIC: "Intelligent Techniques based Automatic Generation Control in Hybrid Multi-Source Power System"

PROF VIRANSHU KUMAR TOPIC: "Effect of deformation on microstructures and corrosion behaviour of austenitic stainless steel"

Saturday, January 29th, 2022 | 12.00 PM Your Local Time

CONVENER: ASHWINI KUMAR | CO-ORDINATOR: DR. ANUPAM KUMARI

Event Pics

