



# ISLAMIC UNIVERSITY OF SCIENCE & TECHNOLOGY AWANTIPORA, KASHMIR

## Industrial Visit of Electrical Engineering Students to Upper Sindh

### Hydroelectric Power Plant (USHP-II), Kangan

**Awantipora, October 29:** The Department of Electrical Engineering, as part of its Industry Connect initiative, organized an industrial visit for Electrical Engineering students to the Upper Sindh Hydroelectric Power Plant (USHP-II) at Kangan. During the visit, students observed the real-time operation of hydroelectric power generation and toured essential parts of the plant, including the dam, penstock, turbine mechanisms, and tail race systems that regulate water flow and enable efficient energy production.

A detailed tour of the powerhouse introduced students to critical components such as generator units and transformer stations, along with auxiliary systems like Excitation System, Battery and DC Power System, Protection System, Control and Monitoring System, Cooling and Dewatering setups essential for continuous operations. This hands-on experience gave students a comprehensive understanding of the hydroelectric process, from water intake to power generation, and underscored the importance of automation in plant management. The visit highlighted the need for stringent operational standards to ensure reliable and efficient power generation.

This industrial visit is part of the department's ongoing efforts, in collaboration with the Industry Connect Vertical under the Dean of Outreach, to provide practical exposure that complements theoretical knowledge. These visits aim to deepen students' understanding by offering a view into the advanced technologies and protocols adopted in hydroelectric power plants to meet future energy demands.

The Department of Electrical Engineering extends its gratitude to the Chief Engineer and technical team at USHP-II, Kangan, for their cooperation and for providing a comprehensive demonstration of the plant's operations and safety protocols.

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