

## **M.Tech. in HYDRO POWER ENGINEERING**

*This course started in 1966 with financial assistance provided by UNESCO and BHEL. Present intake of the programme is 18.*

### **Programme Educational Objectives (PEOs)**

*Programme Educational Objectives (PEOs) of the programme addresses wide aspects of Hydro Power Engineering inline with the department vision and mission. These are -*

*PEO1: To provide a strong foundation of knowledge in basic, applied and advanced fields related to Hydropower.*

*PEO2: To equip the students with capabilities required for identifying Hydropower related issues/problems and providing appropriate solutions in-accordance with societal needs/national policies.*

*PEO3: To impart modeling and computational skills and expose the students to state of art software in the field of Hydropower.*

*PEO4: To impart training to the students so as to prepare them for conducting high value research in the area of Hydropower and other related issues.*

### **Programme Outcomes(POs)**

*PO1: The students will be able to apply the knowledge of advance maths, hydrology and fluid mechanics for designing the system components of hydropower scheme.*

*PO2: Will have the ability to correctly visualize, analyse and provide appropriate design solution for hydraulic machines*

*PO3: Will have the skills for effective planning and designing of site specific hydropower schemes for sustainable development in consonance with national policies.*

*PO4: Will acquire the ability to communicate effectively with the masses using various tools.*

*PO5: Will demonstrate knowledge of interpersonal skills coupled with correct professional approach and ethical practices.*

*PO6: Will be able to model and analyze complex fluid flow problems using advance experimental method and flow simulations.*

*PO7: Will acquire the ability to perform quality research work and keep himself abreast with technological advancement.*