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U.S.-Pakistan

Centers for Advanced Studies in Water



USPCAS-W, MUET

Introduction:

The U.S.-Pakistan Center for Advanced Studies in Water (USPCAS-W) has recently been established at the Mehran University of Engineering and Technology (MUET) Jamshoro, with financial support of United States Agency for International Development (USAID) Pakistan under the Cooperative Agreement signed with USAID on Dec.12, 2014 for five years. The University of Utah (UU), USA is providing technical assistance to MUET for advancing the development and growth of USPCAS-W. The tangible deliverables of the Center include postgraduate degree programs, applied policy research, facilitation of public-private partnerships, and provision of policy advice in a range of water related disciplines. Main purpose of the applied research component is to deliver relevant and innovative research to meet the needs of industry, civil society and government.

Vision:

To establish a world class education and research center dedicated to solving water related problems of Pakistan and to develop strong and productive liaison with local and international organizations aiming to support Pakistan's economic development.

Mission:

To train present and future faculty, young scientists, engineers, managers and other stakeholders with state of the art techniques and cutting edge knowledge in the water sector. Through collaboration with academia, government and industry we will pursue applied research solutions to water sector problems and bring about policy reforms aiming to strengthen economy of Pakistan.

Main Components of USPCAS-W:

- ◆ Reforming curriculum for higher degree programs
- ◆ Implementing applied research agenda in water
- ◆ Strengthening capacities of faculty, students, and water practitioners
- ◆ Improving Center's governance
- ◆ Securing Center's sustainability



Elevation view of USPCAS-W Building

Partnering Universities:



USPCAS-W, MUET, Jamshoro

Objectives:

- ◆ Establish governance structures for sustainability and improved capacity of the USPCAS-W
- ◆ Improve curricula quality and strengthen use of effective teaching methods
- ◆ Apply relevant research to meet client (industry, civil society, government) needs
- ◆ Increase access for talented and economically disadvantaged students, especially women.

Masters / PhD Program at USPCAS-W:

- ◆ Hydraulics, Irrigation and Drainage (HID)
- ◆ Integrated Water Resources Management (IWRM)
- ◆ Environmental Engineering (ENVENG)
- ◆ Water, Sanitation and Health (WaSH)

Targets/Student Benefits:

- ◆ At least 250 degrees awarded by USPCAS-W in five years of the project
- ◆ At least 50 advanced research projects conducted by USPCAS-W in five years
- ◆ At least 50% USPCAS-W graduates employed in the field of water
- ◆ Specialized research / laboratory facilities established or upgraded at USPCAS-W to include the use of innovative and appropriate information and Communication Technology that supports the service and problem solving focus of the center.
- ◆ All selected students in MS and PhD programs paid Rs. 15000 /= monthly stipend
- ◆ Most of the MS and PhD program students offered one semester study course at University of Utah, United States of America with full financial support of the project.
- ◆ Industry liaison created to strengthen graduate demand in job market.
- ◆ A wide regional diversity of students trained of whom at least 50% are economically disadvantaged.
- ◆ At least 50% of the enrolled students be females to create gender balance.
- ◆ All enrolled female students are provided hostel accommodation at MUET Jamshoro.

Disclaimer:

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