

Obama-Singh Knowledge Initiative Project: STEM Faculty Training in India



Purpose

The overwhelming need confronting higher-education institutions in emerging nations is world-class faculty in Science-Technology-Engineering-Mathematics education and research (STEM-ER).

A novel and unique dual-degree PhD+MEd(STEM) (Master of Education with STEM specialization) program at OSU has been established with potentially global reach.

The bi-national pilot project was launched two years ago, supported by a highly competitive award under Obama-Singh US-India 21st Century Knowledge Initiative in partnership with Aligarh Muslim University (AMU) in India.

Impact

The concurrent dual-degree program, jointly between OSU and AMU, entails (i) pedagogical methodologies for undergraduate teaching, and (ii) advanced research in a STEM discipline under an OSU faculty advisor.

The first batch of Indian students has been enrolled in the two-year program, engaged in advanced disciplinary research and undergraduate faculty training. A proposal for continuation has been submitted to Indian Government.

The model program has global appeal. In addition to a number of Indian universities, several countries such as Egypt, Saudi Arabia, Turkey, and the Republic of Georgia have expressed interest.



Sultana Nahar leading the OSU delegation at the invitation of the Saudi Arabian Government and presented the STEM-ER dual degree program at several universities and the IECHC conference.



Felicitations from an academic community organization in India, the Duty Society, in Delhi, September 2013.



AMU Vice-Chancellor Lt. Gen. Zameer Uddin Shah, Vice-Provost William Brustein and other project officials in June 2013.



AMU faculty trainees and OSU teaching and research advisors with William Brustein.

Ohio State/AMU Colleges Involved

Ohio State Colleges:
Arts and Sciences
Education and Human Ecology
Engineering
Medicine

AMU Colleges:
Faculty of Science, Engineering,
Education

Funding Sources

US-India Education Foundation
OSU and AMU costshare
Federation of India Associations
(Ohio)
Duty Society (Delhi, India)

Contact

Anil Pradhan
Professor

Arts and Sciences

pradhan.1@osu.edu

<http://go.osu.edu/obamasingh>



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