Empowering Girls to Reduce the Gender Gap in IT and ITES Sectors in South Asia Region: Training and E-Content Development Programme

About Asi@Connect

Asi@Connect provides dedicated high-capacity internet connectivity for research and education communities across Asia-Pacific; operating at speeds of up to 10 Gbps, it currently interconnects universities and research centres in 21 countries/economies across the region. It also connects to the 50 million European researchers and academics served by the GÉANT network and supports collaborative programmes in areas such as earth observation, disaster warning, climate research, food security, delivery of e-health and e-learning.

About the Project

Reducing the gender gap in higher and technical education in the South Asia region is the need of the hour for the overall growth of the third world. Serious efforts are needed for greater involvement of girls in emerging technologies and future professions for the growth of the region. This project aims to bridge the gender gap in the South Asia region and create an ecosystem of collaborative learning and education by connecting people with cultural diversities and traditions.

Objectives

- Bridging the gender gap in IT and ITES domains by running skill development programmes in emerging technologies for undergraduate girl students in South Asia region.
- Training the teachers for capacity building in niche areas of IT/ITES.
- E-content development with local language support (bilingual).
- Bringing awareness amongst school going girls about opportunities in science and engineering.

Project Team

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Dr. Gaurav Trivedi, IIT Guwahati, India
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Capacity Building Programme for Faculty Members on

ICT Tools for Teaching and Research

December 5-17, 2022
"Online Mode"

About the Course

The new developments in Information Communication Technology (ICT) tools have opened-up fresh perspectives in teaching and research. The ICT tools help teachers to offer quality e-content not only in the classroom but also to large population in a structured, flexible, and interactive way. ICT tools also provide great autonomy to the researchers in identifying and solving research problems in the most creative ways. This course is aimed at building the capacity of aspiring teachers and researchers, for transforming the educational culture and teaching-research system of the Institution.

Course Contents

1. Use of ICT for Pedagogical Transformation - back to basics.
2. MOOC: Use of MOOC as an additional resource for course delivery, Building course website and content management, Use of learning management system for course management, online examination, Canvas, Grade scope etc.
3. Teaching Learning Tools and e-Content Generation: Interactive whiteboards/smart-screens, video-conferencing, Design of instructional material and presentation, Safe browser, Video content generation and dissemination, Creating quality figures and diagrams.
4. ICT Tools in Research: Identifying a research problem, Using tools for research, e-tools for data management and analytics, Results interpretation, MATLAB as an effective scientific computation and data analysis tool.
5. Writing and publishing research: Software tools for scientific writing, collaborative writing and editing tools, e.g., Google Docs, Spreadsheet for sharing data, Latex and Overleaf, Mendeley etc., Bibliography management, e-tools for plagiarism and grammar.
6. Ethical issues in content generation and research: Intellectual property rights and legal issues in using ICT, Security & software related issues in using ICT.

COURSE COORDINATORS

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The course offers a unique opportunity to interact with the eminent speakers from India, Nepal, Bangladesh, Bhutan and UAE.

Resource Persons

- Prof. Deepak B. Phatak, Padma Shri, IIT Bombay
- Prof. Mangala Sunder Krishnan, IIT Madras
- Prof. Muhammad Masroor Ali, Bangladesh University of Engineering and Technology, Dhaka
- Prof. Veena Bansal, IIT Kanpur
- Prof. Atul Gupta, IIITDM Jabalpur
- Prof. Bharat Gupta, NIT Patna
- Prof. Maya Ingle, DAVV Indore
- Prof. Prashant Kumar Jain, IIITDM Jabalpur
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- Dr. Spandhana Gonuguntla, Senior Customer Success Engineer, MathWorks India
- Dr. Neha Gour, Khalifa University, Abu Dhabi
- Dr. Lalit Kane, UPES Dehradun
- Dr. Arka P. Mazumdar, MNIT Jaipur
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- Dr. Gajendra Sharma, Kathmandu University, Nepal
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- Ms. Chaitali Moitra, Regional Director - South Asia, Turnitin India Private Limited

For details visit
https://www.iiitdmj.ac.in/asia-connect.iiitdmj.ac.in/index.html

How to apply
The course is free of cost. Preference will be given to female faculty members. Interested participants can fill the registration form available on the webpage or register using the following link on or before November 28, 2022:

https://forms.gle/AqVh6bd1YBT4EmTA6

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Indian Institute of Information Technology, Design and Manufacturing, Jabalpur
(An Institute of National Importance established by an Act of Parliament)