



Indian Institute of Technology, Indore

Faculty Induction Program 2019

Overview

Indian Institute of Technology Indore under the guidance of the National Program Implementation Unit, a unit of the Ministry of Human Resource Development, organized Faculty Induction Program 2019 on the title “Advanced Pedagogy and Digital Tool”. The program was conducted in two phases; Phase I and Phase II Respectively.

Phase I: June 17- 21, 2019, 71 participants attended.

Phase II: June 24-28, 2019, 101 participants attended

A total of 177 participants attended the program in both the sessions.

All the faculty participants were quite enthusiastic after interacting with faculty members of IIT Indore and various external speakers. They discussed research activities with Ph. D. students over a tour of the campus visiting various laboratories. Sessions were conducted to enhance their pedagogy skills. Prof. Anand Parey and Dr. Ankhi Roy explained the importance of student wellbeing and methods to improve student performance. Participating faculty discussed placement and employability issues of students with placement officer. Participants enjoyed the interactive sessions especially the session by Gaurav Agrawal. Dr. Neelima Satyam threw light on digital tools available which aid in pedagogy. Dr. Surya Prakash took hands on training session on Moodle, introduced participants with National Digital Library of India and MOOC. Guest speaker Dr. Pritam also threw light on the topic. Dr. Pachori, Dr. Subbareaddy, Dr. Shirage discussed the importance and methods of collaborative research. All participants had a round table deliberation to sum up the carry away from the event to their institute.

Overall Suggestion: Events conducted branch wise would have more positive impact of such trainings and future collaborations amongst them.

Objectives of the Program

- To sensitize and motivate the faculty to adopt learner-centric approach of teaching and classroom management.
- To enable the faculty to conceptualize the nuances of curricular reforms, curriculum design and development in universities and colleges in the context of interdisciplinarity, with specific reference to pedagogy.
- To provide knowledge about different models of leadership to the participants in order to enhance their academic leadership skills.



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- To help the participants develop coherent and comprehensive understanding of the models of university governance and administration.

Expert Talk:

Expert knowledge was shared from across experts of varied domains.

- Dr. Sandhya Mishra
- Dr. Vilas Pol
- Mr. Gaurav Aggarwal
- Dr. Pritam Sangwan

Faculty Participation of IIT Indore:

1. Advanced Pedagogy	
❖ Understanding of the concepts and skills rather than subject knowledge	Dr. Biswarup Pathak
❖ Peer Learning: Peer-Instruction, group-study and Think- Pair-Share strategies	Dr. Nirmala Menon
❖ Carry out a pedagogical case study of one or two common courses to several engineering disciplines	Dr. Sushabhan Sadhukhan
❖ Laboratory visits and interactions with IIT faculty & students	Dr. Kiran Bala
❖ Mentorship programs, students' well-being and happiness	Prof. Anand Parey
❖ Equity Plan: Identify student weakness, remedial classes, peer learning groups, bridge courses, repeat exams, etc.	Dr. Ankhi Roy
❖ Student placement and employability issues: interaction with placement officer of IIT	Dr. Abhishek Rajput
❖ Faculty student collaboration model of IIT in various domains	Dr. I.A Palani
❖ Means for entrepreneurship development	Prof. Vimal Bhatia, Dr. Bhupesh Lad



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2. Active Learning	
❖ Faculty-student interaction and establishment of a larger educational community.	Dr. Manavendra Mahato
❖ Participate in a round table deliberation to identify the 'carry-away' for their own institutes.	Dr. Kiran Bala
❖ Engaging class activities like team projects, presentations, case study learning, brainstorming, field visits, hands-on activities etc.	Dr. Manish Kumar Goyal
❖ Active learning on topics pertaining to Mathematics in Engineering and Technology.	Dr. Parimal Kar

3. Digital Pedagogy	
❖ Technology-enhanced learning: Flipped classroom, use of software pedagogical aids.	Dr. Neelima Satyam
❖ Massive Open Online Course (MOOC), National Digital Library of India, and hands-on sessions on moodle.	Dr. Surya Prakash
❖ Annual Refresher Programs in Teaching (ARPIT).	Dr. Devendra Deshmukh
❖ Specific IIT MHRD initiatives for higher education (example national digital library at IIT Kharagpur, NPTEL at IIT Madras etc.)	Dr. Bodhisatwa Mazumdar

4. Collaborative Research and Innovation	
❖ Research Methodology and Technical Communication to develop skills which will strengthen their endeavors in the pursuit of PhD level projects, R&D and supervision of graduate students in the Masters' and Ph.D. Programmes.	Dr. Ram Bilas Pachori
❖ TEQIP initiative on Collaborative Research Scheme, how to build research community, proposal submission, implementation etc.	Dr. Subbareddy Daggumati
❖ 'Make in India' based pedagogical initiative at IIT.	Dr. Parasharam Shirage
❖ Innovation initiatives at IITs and work plan for making it feasible in respective institute through round table discussions.	Dr. Hem Chandra Jha
❖ Research outcomes: IPR, patents, and peer-reviewed publication (Impact factor, H & I index, citation etc.).	Prof. Abhinav Kranti



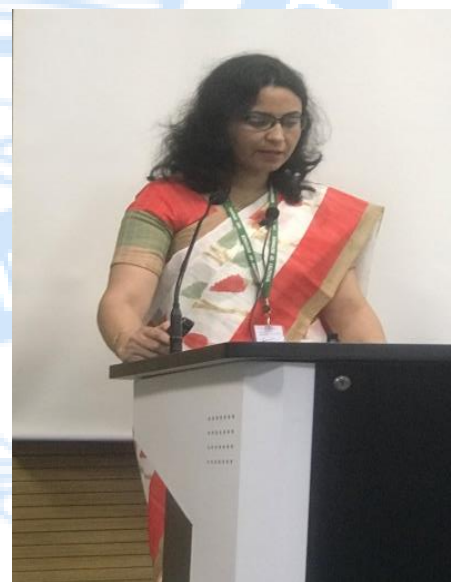
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Some glimpses of faculty induction program 2019





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TEQIP Team:

Dr. Kiran Bala (Convener)

Dr. Subbareddy Daggumati (Co-Coordinator)

