

Summer Training Program on Active Learning

From 14th May till 8th June 2018

Over View:

The curriculum to the extent of 30%, excluding active learning component. for workshop consists of three modules i.e Active Learning, Autonomy, Governance & Management, and Research & Development.

Modules:

The course will be divided in to three modules.

In module A is Active Learning following topics will be covered:

- **Engagement of students through active participation:** Sharing pedagogical experiences with subject case studies, engaging class with team assignments (projects, presentations, case study learning, brainstorming, field visits, etc.), and discussion forums.
- **Peer Learning:** Peer-Instruction, group-study and Think-Pair-Share strategies.
- **Technology-enhanced learning:** Flipped classroom, Massive Open Online Course (MOOC), use of software pedagogical aids with special emphasis on hands-on sessions of Moodle and use of National Digital Library of India.
- **Students Counselling:** Mentorship programs; Identifying student needs/ weaknesses and guiding appropriately, faculty-student interaction and establishment of a larger educational community, students' well-being and happiness, remedial classes, peer learning groups, bridge courses, repeat exams, etc.

In module B is Autonomy, Governance & Management following topics will be included:

- Academic Ecosystem, importance of autonomy and sustainability.
- Industry interaction for Student Placement & Alumni network.
- Faculty-student collaboration to achieve institutional objectives, institution building and experience sharing on autonomy, good governance, and related good practices.
- Importance of positive outlook, teamwork, and collegiality among colleagues (Philosophy of having institute's progress above the individual's interest).

In module C is Research & Development following topics will be covered:

- State-of-the-art Laboratory visits.
- Thought sharing by Senior Professors of IIT on how to continue research at this position and how to encourage young recruited faculty to do proper teaching and research.
- How to get research proposals and funding: Need finding, Innovation, Entrepreneurship, and Inter-Disciplinary research.
- Sustainable funding: Means of Industrial consultancies (R&D Project Proposal Development, addressing local needs and bottom of pyramid industry/society needs, Tapping into Corporate Social Responsibility (CSR) funding and industrial consultation/ collaboration opportunities for locally relevant R&D)
- Intellectual Property (IP) management (IPR Patents and peer-reviewed publication).

You Should Attend If....

This course is designed for Senior TEQIP- III Faculty to develop their skills.

Fees:

For TEQIP Participants its free of cost.



Dr. Abhay Sharma is the Associate Professor of Mechanical Engineering, IIT Hyderabad.



Dr. Abhinav Kumar is the Assistant Professor of Electrical Engineering, IIT Hyderabad.



Dr. Viswanath Chinthapenta is the Assistant Professor in the Dept. of Mechanical and Aerospace Engineering at IIT Hyderabad.



Dr. Maria Morris is Psychological Counsellor, Counselling Cell, IIT Hyderabad.



Dr. Mudrika Khandelwal is the Assistant Professor in the Dept. of Materials Science & Metallurgical Engineering, IIT Hyderabad.



Dr. Sparsh Mittal is the Assistant Professor in the Dept. Computer Science & Engineering, IIT Hyderabad.



Dr. Suhash Ranjan Dey is the Associate Professor Dept. of Materials Science & Metallurgical Engineering, IIT Hyderabad.



Dr. Ch. Subrahmanyam is the Associate Professor of Chemistry, IIT Hyderabad.



Dr. Tarun Kanti Panda is the Associate Professor of Chemistry, IIT Hyderabad.



Dr. Pradeep Kumar Yemula is the Assistant Professor of Electrical Engineering, IIT Hyderabad

Mr. Nitin Sharma Intellectual Property Department, Qualcomm India Pvt. Ltd, India

Course Co-ordinator

Dr. Suhash Ranjan Dey

TEQIP Coordinator

Dept. of Materials Science & Metallurgical Engineering, IIT Hyderabad

Phone No. 040-2301-6096

Email: Suhash@iith.ac.in