IIEECP

A Signature Program of IUCEE

IUCEE International Engineering Educators Program

GLIMPSE OF IIEECP

Started in 2015

1891
Faculties completed Phase - 1

863
Certified faculties of Phase - 3

Institutions participated from all over India

57

Certified by

IGIP

Austria

MAPPING WITH NEP 2020

Motivated, Energized, and Capable Faculty

- The most important factor in the success of higher education institutions is the quality and engagement of its faculty.

- Empowering the faculty to conduct innovative teaching, research, and service as they see best will be a key motivator and enabler for them to do truly outstanding, creative work.
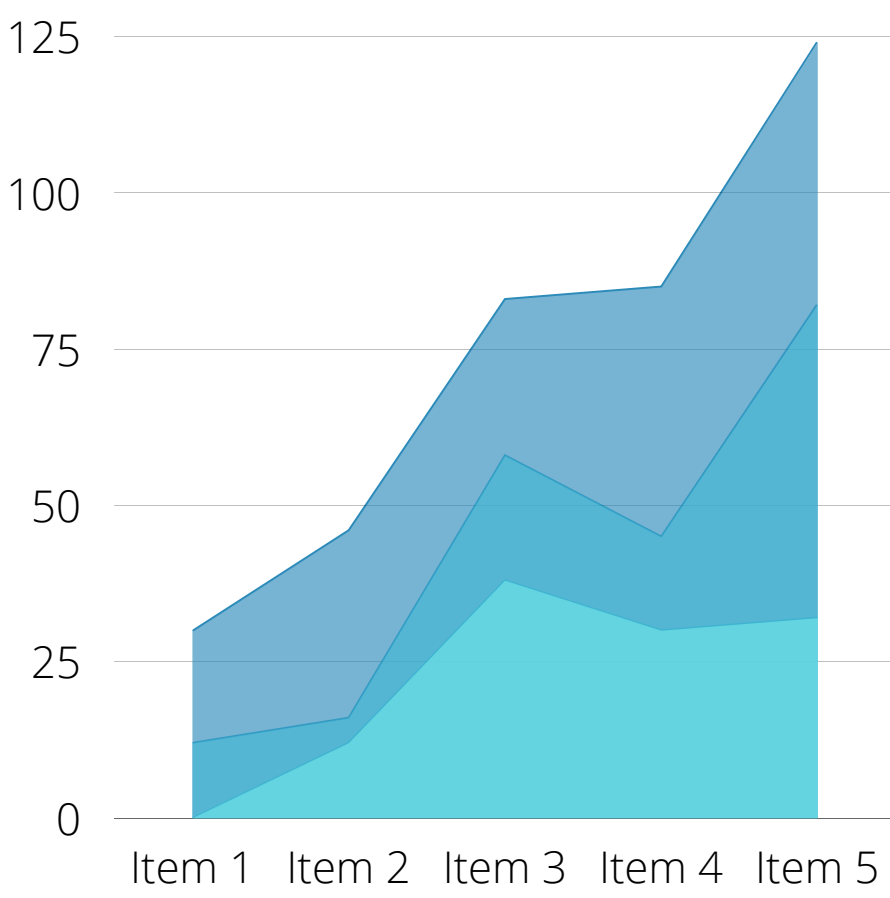
AICTE has already launched an excellent programs in 2020 for Inductee Teachers: National Initiative for Training of Technical Teachers: https://www.aicte-india.org/schemes/staff-development-schemes

IIEECP objective is address the needs of the faculty who have not been able to benefit from the AICTE program, at a cost reasonably similar to the AICTE program.
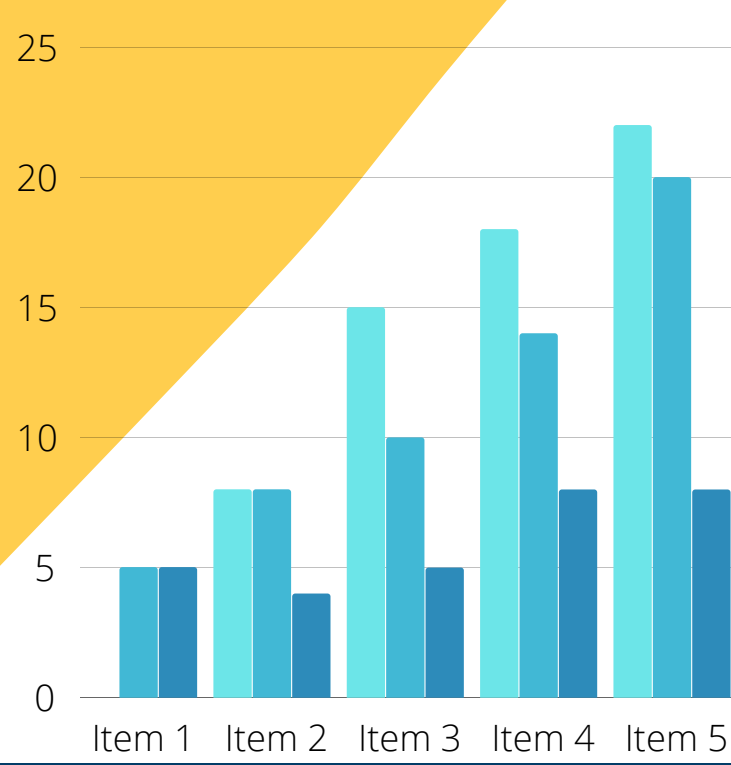
IIECP PROGRAM STRUCTURE

- The program is completed in 9 – 10 months.

- The Complete Program is offered in three Phases.

Phase I – Pre-certification Workshop

- This is a three-day online workshop designed to enable the participants to begin to understand the principles of learner-centred teaching; to design or redesign a course and its elements, emphasizing learning outcomes; to develop different teaching and active learning strategies for implementation of these elements; to design formative and summative assessment tools and rubrics for outcomes assessment.

Phase II – Six Practicum Modules

- This component is also delivered online format with one 'live ' session per week. Canvas Instructure (LMS) is used for posting readings, graded discussions and assignments. Participants are expected to be teaching a course and implement strategies learned in the different modules, during this Phase.

- Module 1: The Teaching-Learning process
- Module 2: Course Design & delivery
- Module 3: Creating a Dynamic Classroom
- Module 4: Collaborative Learning
- Module 5: Harnessing the Power of Technology
- Module 6: Effective Assessment

Phase III – The Valedictory

- During this Phase participants develop Teaching Portfolio and a one year plan of action for teaching/research and their professional development . Successful oral written and oral presentations of these will complete the certification process.

IIEECP Program Cost :

	IUCEE Consortium members	Non members
Phase I:	Rs. 1,500	Rs. 3,000
Phase II:	Rs. 6,000 (Rs. 1,000 per module)	Rs. 12,000
Phase III:	Rs. 1,500	Rs. 3,000

IIEECP FACULTY

The IIEECP program is designed and coordinated by Dr. Veena Kumar, Executive Director of IIEECP and active member of the Board of IUCEE. Dr. Veena Kumar currently teaches at the University of Maryland Global Campus, USA, and was earlier Professor and chair, Education Technology, Indian Institute of Technology, Delhi, India. IIEECP is a culmination of Dr. Kumar's 30 years of teaching, research and experience in curriculum development, e-learning, and teacher training in France, India and USA.

DR. VEENA KUMAR

Executive Director of IIEECP

- The IIEECP Assistant faculty are faculty members from Indian engineering colleges who have completed the certification program with distinction and have undergone special training. They play a very important role in sustaining the high standard of the program by closely monitoring the participants and grading assignments Over the past five years, IIEECP had developed a very large panel of Assistant Faculty members who are taking the lead in several initiatives in their own institutions.

IIEECP
Mentor's Pool

DR. ARCHANA MANTRI
Chitkara University

DR. NEERAJ BUCH
Michigan State University

DR. ANIL KULKARNI
Penn State University

MR. THOMAS IWINSKY
Penn State University

DR. RAJAN SUBRAMANIAM
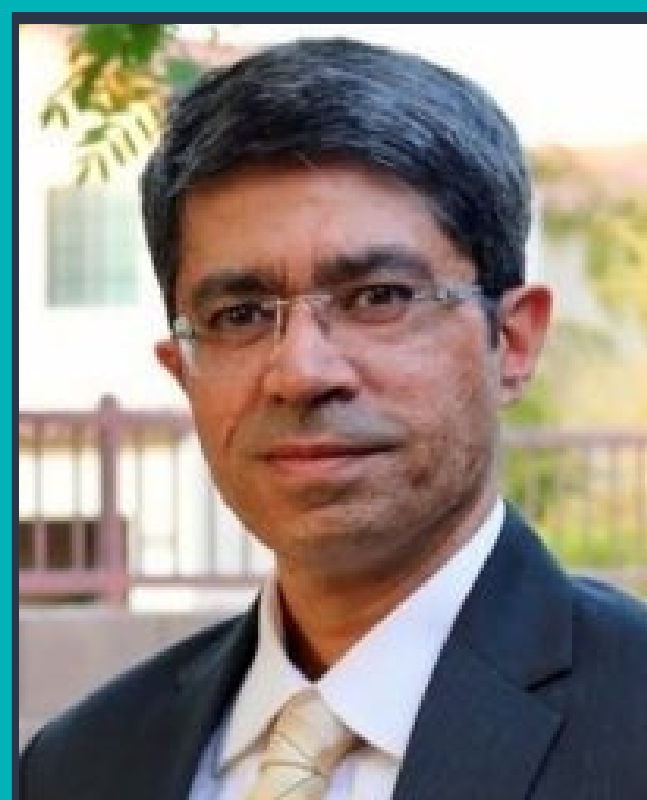Arizona State University

DR. STEPHANIE FARRELL
Rowan University

DR. CLAIRE KOMIVES
San Jose State University

DR. SOHUM SOHONI
Arizona State University

DR. RIO D'SOUZA
St. Joseph Engineering College

HOW IIEECP IS DIFFERENT FROM OTHER FACULTY DEVELOPMENT PROGRAMS ?

IIEECP IS VERY DIFFERENT FROM CONVENTIONAL FACULTY DEVELOPMENT PROGRAMS

- The faculty training is offered for a sustained period of time and includes a well-designed practicum component. Participants experience the strategies taught by actually planning, implementing & evaluating them in their own classes.

- The training is focused on developing personal and professional confidence by developing a responsible, reflective mindset that is focused on 'what I do' rather than on 'why it cannot be done.

- A significant part of the content shared in the program is developed based on the learning from diverse scholarly sources specially, from research articles by Richard Felder and Rebecca Brent. The insights, arguments and recommendations are based on over 30 years of study & personal research in education technology as well as direct interaction with Indian and international engineering and university faculty, by the Executive Director, Dr. Veena Kumar.

- The program is fully customized for Indian engineering education system

IIEECP Program Outcomes

At the end of the certification program, the participants will be able to:

- Explain how learning happens based on the major theories of learning including brain-based learning.
- Identify the learning & employability needs of the Millennial learners and to implement strategies to sustain their motivation
- Develop a personal Teaching Philosophy Statement that includes participant's short and long term goals
- Write/review course outcomes using Bloom's taxonomy and map them to program outcomes.
- Explain Lowman's 2D model for Effective Teaching and design activities for promoting Intellectual Excitement & Interpersonal Rapport.
- Plan and implement the Flipped class
- Create a dynamic classroom by using a variety of active learning strategies
- Write high quality tests and quizzes substantially based on a deeper awareness of effective assessment principles and practices
- Develop transparency in assessment by creating rubrics and providing constructive verbal and written feedback.
- Plan and implement collaborative learning activities in order to develop real world professional skills needed for employability
- Design and record lectures in the audio & video formats
- Use/create virtual labs in theory & lab. classes
- Create a dedicated course website using free resources

IIEECP IS RECOGNIZED BY IGIP AUSTRIA

- IIEECP was recognized in 2016, by IGIP (International Society for Engineering Pedagogy) Austria, a highly prestigious and respected organization in Europe. IGIP (http://www.igip.org) has more than 40 years tradition in contributing to engineering pedagogy. IGIP's members and activists have contributed to making IGIP a leading global engineering association. More than 1,500 professionals all over the globe carry the title of "IGIP International Engineering Educator -Ing.Paed.IGIP". More than 100 IIEECP certified faculty carry the Ing.Paed.IGIP" title.

Indo Universal Collaboration for Engineering Education

IUCEE FOUNDATION

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