

Indo Universal Collaboration for Engineering Education (IUCEE)

IUCEE Mantra “I am Teaching, Are They Learning ?”

Annual Review 2023-24

IUCEE Brand:

Leadership of IUCEE deliberated at a Retreat in April 2024 in Pune and developed the concept of branding IUCEE as an organization as follows:

“Nurturing Gurus who can transform engineering education for the purpose of graduating engineers capable of addressing problems facing industry and society”

Various IUCEE Programs contribute to the IUCEE Brand as follows:

IUCEE Consortium Membership:

‘Demonstrating Institutional commitment to participating in IUCEE Programs’

During 2023-24, IUCEE Consortium membership was 53 institutions

IIEECP (IUCEE International Engineering Educators Certification Program):

“Building the Foundation of the Teaching and Learning Process”

During 2023-24, the program has been scaled up and certified 347 from 85 IUCEE institutions. 41 of these were also awarded the “Ing. Paed.” title by IGIP Austria at ICTEE 2024.

INTLC (IUCEE Network of Teaching and Learning Centers):

“Developing institutional structure for promoting Teaching and Learning”

During 2023-24, IUCEE has facilitated development of Teaching and Learning Centers at 39 of its members institutions and encouraged networking among them.

TLC (Teaching and Learning Center) Symposium:

“Networking among the peers at other institutions”

During 2023-24, leadership teams from the 39 Teaching and Learning Centers met regionally to share and collaborate, as well as meet with the IIEECP Director, Dr. Veena Kumar.

ICTIEE 2024 International Conference on Transformations in Engineering Education):

“Sharing and Learning from Global peers”

During 2023-24, 443 faculty from over 100 institutions all over the world, participated; 135 papers were presented, 28 workshops were conducted and 7 keynotes and panel sessions were held. The theme of ICTIEE 2024 was “Systemic Transformation in Engineering Education”.

ICTIEE 2024 Papers:

“Showcasing Scholarship in Teaching and Learning”

During 2023-24, 135 papers were selected from over 400 submitted papers by a team of over 300 reviewers from IUCEE network. More than 30 IUCEE institutions contributed papers on scholarship of teaching and learning.

IUCEE Annual Student Forum (IASF 2024)

“Facilitating Development of Design Thinking and Leadership Skills among students”

During 2023-24, 520 students from 17 IUCEE institutions participated in design thinking projects and professional development workshops, mentored by global experts.

ICTIEE Sponsorship:

“Showing strong support for IUCEE Program”

During 2023-24, 13 IUCEE institutional sponsors joined 10 global industry sponsors to make the event a huge success.

National Education Policy (NEP) MiniCourses:

“Initiating new ideas for curriculum to adopt NEP guidelines”

NEP MiniCourses on “Design Thinking”, “Entrepreneurial Thinking”, “Artificial Intelligence for All”, “Leadership and Sustainability”, “Overview of Emerging Technologies”, “Social Emotional Learning”, “Clean and Green Campus” and “Alteryx Program” were conducted by IUCEE Global experts. The objective is to offer short interdisciplinary courses which encourage critical and innovative thinking in the students. Faculty role is to mentor and grade the work of the students. Institutions are encouraged to offer the courses to larger number of students with help of participating faculty.

During 2023-24, on average 300 students with 30 faculty from 30 institutions participated in each course delivered in the form of 8 online webinars each.

2024 Leadership Conclave:

“Ensuring leadership engagement and support for the branding”

During 2023-24, 57 members of the leadership from 29 IUCEE institutions along with 9 IUCEE Experts, reviewed the year and started planning for the coming year with emphasis on the Branding thrust of “Nurturing Gurus”.

IUCEE Transformation for Sustainable Social Impact (TESSI) Symposium:

“Piloting potential social impact projects for nurturing gurus”

During 2023-24, 29 faculty participants representing 17 institutions worked in 8 teams to develop curriculum for 1 credit courses addressing 7 different Sustainable Development Goals (SDGs).

Student Chapters:

“Facilitating Leadership Development of students”

During 2023-24, active IUCEE Student Chapters were operating in 24 IUCEE institutions, organizing a variety of programs of benefit to students.

Felder Brent Effective Teaching and Learning Course:

“Reinforcing the Foundation of the Teaching and Learning Process”

During 2023-24, more than 200 faculty from over 30 institutions are reinforcing their skills at effective teaching and learning with the help of Global Gurus, Richard Felder and Rebecca Brent of USA.

Teaching and Learning collaboration with IQAC Cluster:

“Sharing of Best Practices”

During 2023-24, this Cluster being planned to connect all IIEECP faculty with Internal Quality Assurance Programs in their institutions.

Design Thinking Cluster:

“Building on the Foundation with higher order learning outcomes”

During 2023-24, this Cluster being planned to connect all IUCEE colleges offering courses in Design Thinking.

Product Development Curriculum

“Developing faculty expertise in industry relevant curriculum”

During 2023-24, teams of faculty from 10 institutions participated in developing curriculum for product development guided by industry experts.

Engineering Education Research (EER) Course:

“Developing scholarship of teaching and learning”

During 2023-24, this Course is just getting started with over 90 participants from 30 IUCEE institutions.

Journal of Engineering Education Transformations (JEET)

“Promoting scholarship of teaching and learning”

During 2023-24, JEET, a Scopus Indexed Journal, founded with support from IUCEE, published 4 quarterly issues and one annual ICTIEE 2024 issue. These issues contained more than 200 research articles on scholarship of Teaching and Learning.

Global Webinars:

“Building Global Awareness and Connections”

During 2023-24, monthly webinars were conducted in partnership with International Federation of Engineering Education Societies (IFEES) and Global Engineering Deans Council (GEDC) on a variety of topics relevant to engineering education.