

IUCEE MISSION NEP Update (Aug 6, 2022)

Implementation of NEP 2020, requires emphasis on

- Holistic and Multidisciplinary Education
- Creative and Innovative Thinking

We conducted a Pilot program with these objectives with a batch of First Year Students entering in Semester 1 of 2021-22.

Six Mini Courses on Holistic Concepts were offered biweekly by global experts during January to April 2022.

1. Leadership and Sustainability (7 sessions)

Dr. S.D. Rajan, Arizona State University; Dr. Raj Rajaram, Clean Water, Chicago; Dr. Agami Reddy, Sustainable Energy, Arizona State University; Dr. Prakasam Tata, Waste Management, Chicago

2. Clean and Green Campus (8 sessions)

Mr. Deepak Gadhia, Chairman at Sunrise CSP India Pvt. Ltd; Dr. Deepak Waikar, Tacstra Solutions Pte Ltd, Singapore, Managing Partner for EduEnergy Singapore; Dr. Gaurav Kedia, Chairman, India Biogas Association; Dr. Ajay Chandak, Certified Energy Auditor & Renewable Energy Expert

3. Artificial Intelligence for All (7 sessions)

Prof. Vemuri Rao (UC Davis, Retired)

4. Introduction to Entrepreneurial Thinking (7 sessions)

Prof Shalini Gopalakrishnan (Entrepreneur, USA) and Professor Ranji Vaidyanathan (Oklahoma State University).

5. Design Thinking and Community-Based Design (8 sessions)

Dr. William (Bill) Oakes, Director of the EPICS Program, Professor of Engineering Education at Purdue University, and a registered professional engineer.

6. Social Emotional Learning (8 sessions)

Dr. Prathiba Nagabhusan of Australian Catholic University, Mr. Aditya Bhatnagar, Edutronics, India

Important aspects of the delivery:

- Webinars were offered on Zoom and GoTo Meeting
- LMS Canvas was used for Course Materials
- Recordings were available on Canvas
- Assignments were submitted by students and graded by faculty on Canvas

1547 FY students from 34 IUCEE Institutions participated. Several Faculty from many of the institutions were identified and given orientation by the expert instructors. The role of these assistant faculty was to mentor the students from their institution and grade their work. A Mini Symposium was held to ensure that everyone understood the plan.

Outcomes

Institution	Registered	Qualified	Certified
AISSMS College of Engineering, MH	26	3	3
Atria Institute of Technology, KN	121	5	2
Anurag University, TS	31	11	4
BHG College of Engineering and Technology, GJ	59	19	7
BML Munjal University, HR	33	3	2
BVR Institute of Technology, TS	30	14	9
BVRITH College of Engineering for Women, TS	64	60	55
CMR College of Engineering and Technology, TS	30	11	6
Chitkara University, PJ	51	29	3
Hyderabad Institute of Technology And Management, TS	30	19	14
Kalasalingam Academy of Research and Education, TN	65	24	18
KGR College of Engineering and Technology, TS	30	15	7
KKW Institute of Engineering Education and Research, MH	69	13	4
KLE Technological University, KN	30	12	5
KSRM College of Engineering, AP	36	4	2
Malnad College of Engineering, KN	29	6	1
MIT Academy Of Engineering, MH	30	12	8
MLR Institute of Technology, TS	30	18	2
Marwadi University, GJ	31	2	0
Nalla Malla Reddy Engineering College, TS	60	33	30
Pune Institute of Computer Technology, MH	32	9	0
Ramco Institute of Technology, TN	30	19	10
Rajarambapu Institute of Technology, MH	62	60	53
RV College of Engineering, KN	60	51	45
Saveetha Engineering College, TN	30	10	4
St. Joseph Engineering College, KN	60	56	41
Sree Vidyanikethan Engineering College, AP	31	4	2
Thiagarajar College of Engineering, TN	30	15	5
Vidya Jyothi Institute of Technology, TS	25	7	4
Vishwakarma University, MH	256	23	1
Vidyavardhaka College of Engineering, KN	27	3	0
Vasireddy Venkatadri Institute of Technology, AP	60	55	43
TOTAL	1547	630	392

Attendance, submission of assignments and grading of assignments reduced rapidly during the duration of the program. Major factors responsible for this are believed to be:

- Concept was very new to FY students and Faculty Mentors
- Content of webinars and assignment were at higher level than FY students and Faculty Mentors were able to handle.
- FY Students and Faculty Mentors were not able to devote time required.

Roughly 40% of students Qualified for receiving Certificates based on reasonable attendance and reasonable number of assignments submitted and graded. Qualified participants were required to submit a one page reflection about what they had learnt from the course and then join me in a Zoom meeting to orally talk about their learning. Only 45 % of the qualified students were able to complete the final steps as of date. Certificates have been sent to the 282 students who made it to the finish line.