



KG REDDY
College of Engineering
& Technology



UGC AUTONOMOUS

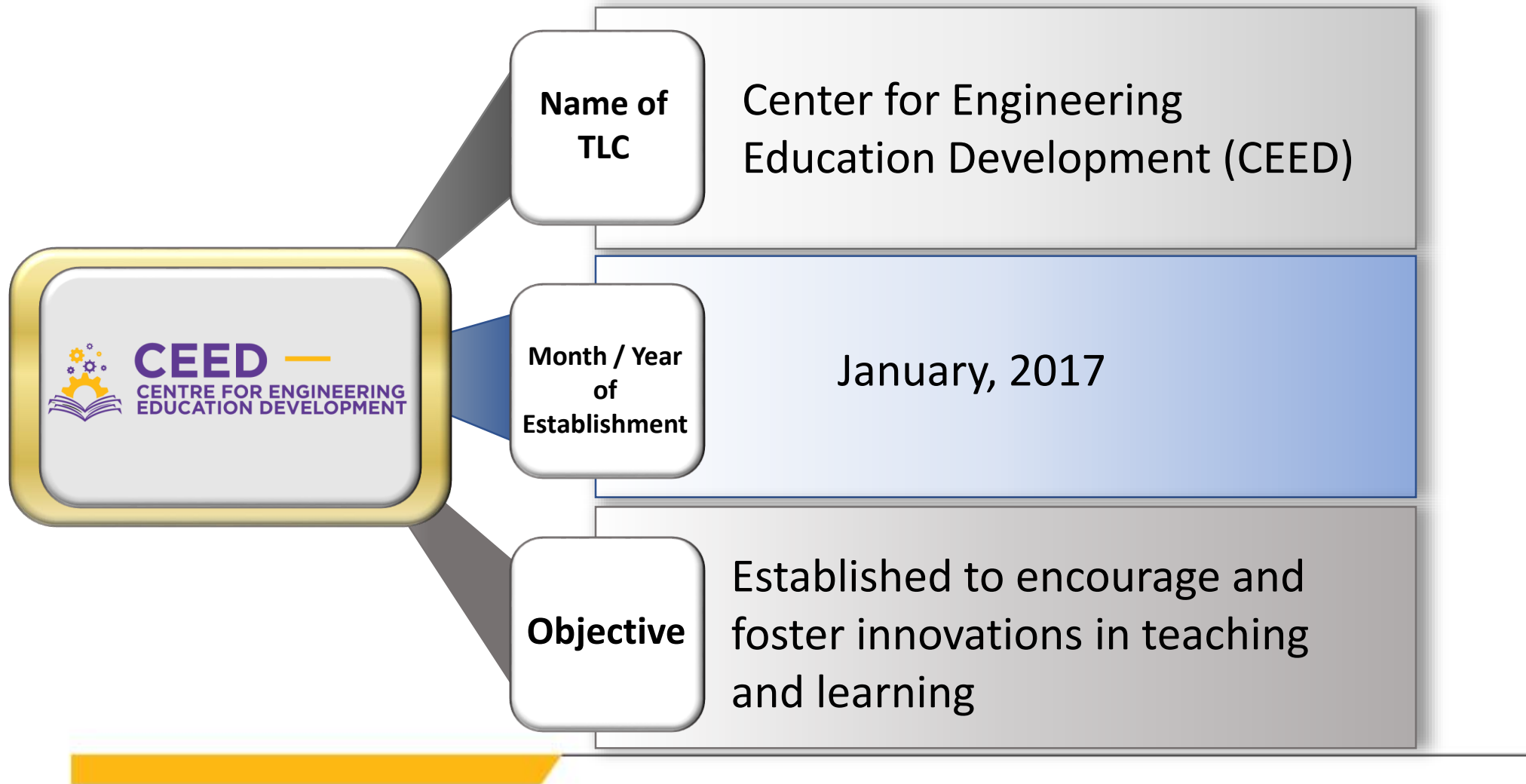


Teaching Learning Center Institutional Report (2020-21)

Mini Symposium

April 23-24, 2022

About Teaching Learning Center



About Teaching Learning Center (Cont..)



Vision

To promote research and facilitate best practices in the engineering education.

Mission

1. Foster an environment in the college to encouraging innovation in teaching, learning and assessment methodologies in the classroom.
 2. Facilitate research in engineering pedagogy and publish the research work
 3. Keep faculty members updated with the best practices in teaching, learning and assessment in engineering education through training and workshops.
 4. Connect interested faculty with international experts in the field of engineering education.
 5. Conduct outreach activities such as trainings, workshops and conferences.
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Team-CEED


Name of the Member	Department	Associated with CEED	Role
Dr.Rohit Kandakatla	ECE	4 Years	Director-KGRCET & Advisor-CEED
Mr.Khamruddin Syed	EEE	4 Years	Head-CEED
Dr.Madhulita	S&H	2 Years	Member (First Year Engineering)
Ms.Sagarika	CSE	2 Years	Member (Expertise in Learning Analytics)
Ms.G Lakshmi Bhavani	ECE	6 Months	Member
Mr.Praveen Kumar	ME	6 Months	Member

Faculty Capacity Building Programs (2020-21)

Name of the Activities		
Student-Centered Learning	A one week FDP on “ <i>Effective Teaching & Learning and Modern Pedagogical Techniques</i> ”	March, 2021
Project-Based Learning	A One Day workshop on “ <i>Project Based Learning</i> ”	December, 2020
Technology-Enhanced Learning	A One week FDP on “ <i>Technology Enhanced Learning using LMS</i> ”	August, 2020
	A 3 week FDP on “ <i>Design and Teaching Engineering Courses using Canvas</i> ”	July, 2020
	A 2 week short term course on “ <i>Developing content for online asynchronous teaching</i> ”	November, 2020
Faculty Conclave	Technology Enhanced Learning-Design of Course Websites	July-August, 2020
Educational Research	Short Term Training Program on “ <i>Action Research</i> ”	May, 2021

Support Activities

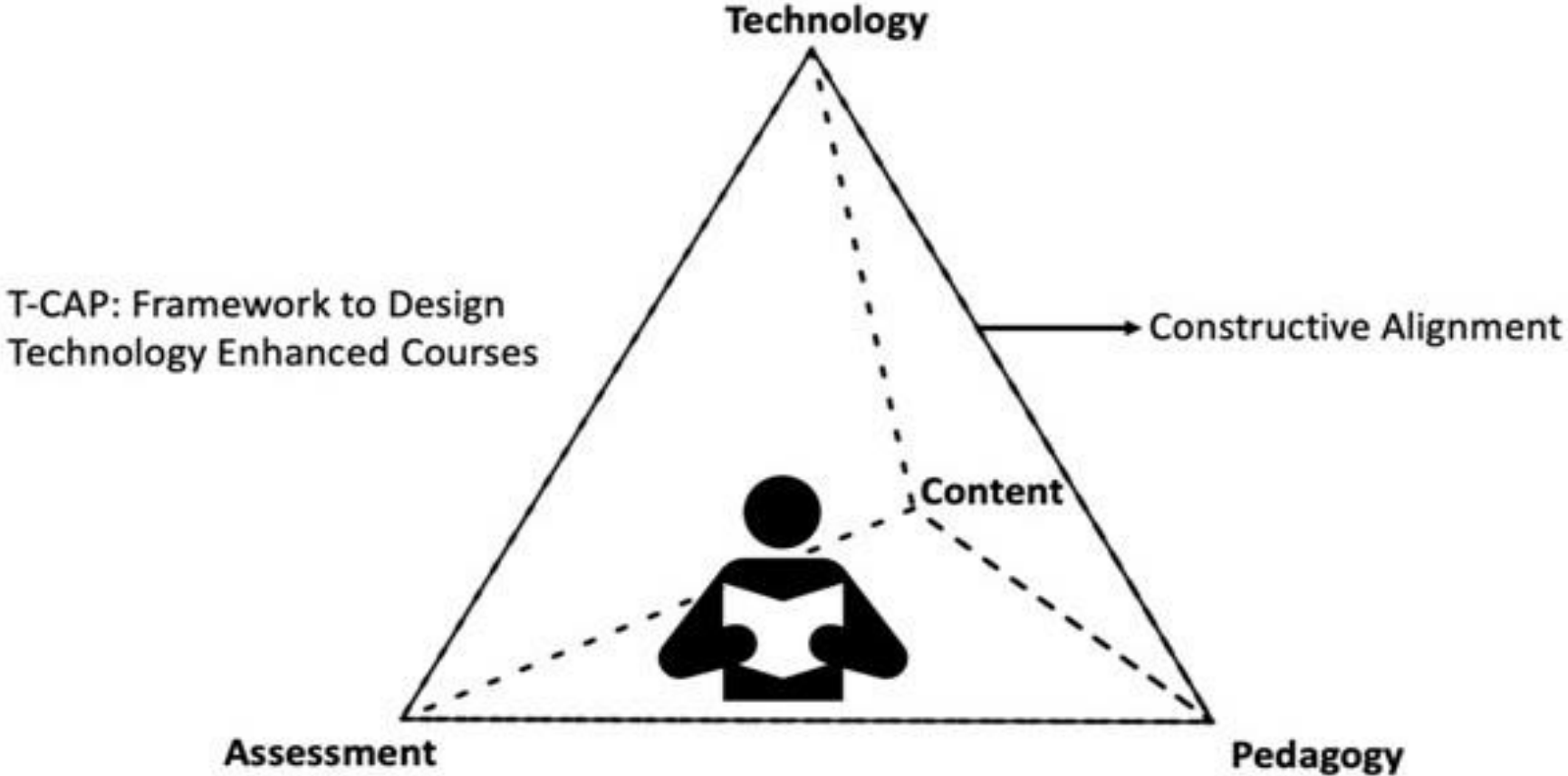
(for students and faculty during
COVID pandemic phase)





- Established in 2020 to train faculty and provide them with necessary resources to teach their courses online.
- Faculty development programs conducted
 - Creating and Facilitating Course Websites using Canvas LMS.
 - Design of online courses using T-CAP
 - Design and Development of Asynchronous Video Lectures

T-CAP Framework- To support Blended Course Design



Rohit Kandakatla. (2021). T-CAP: FRAMEWORK TO DESIGN STUDENT-CENTRIC COURSES USING EDUCATIONAL TECHNOLOGY TOOLS.

Online Education-Awareness and Implementation



Faculty

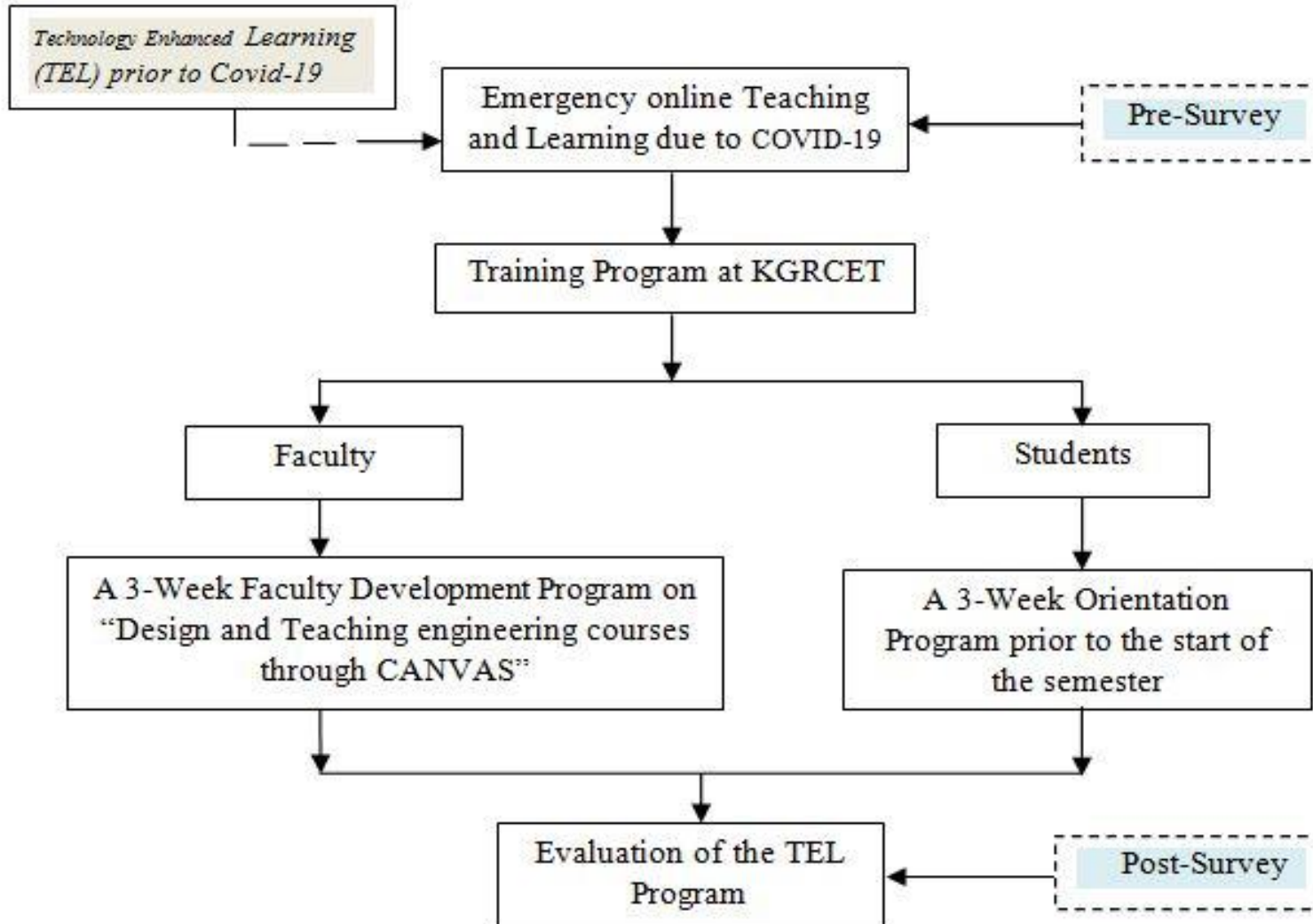
- *Design & Developing blended courses*
- *Guidelines for setting up LMS*
- *Asynchronous Recording awareness and facility*
- *Graphic Boards for faculty for easy white board write-up*



Students

- *Orientation on Using Course websites, Using Virtual Labs integrated in Canvas*
- *Providing Pre-recorded lectures with reflection spots*
- *Light Board recordings for mathematical oriented courses/topics*

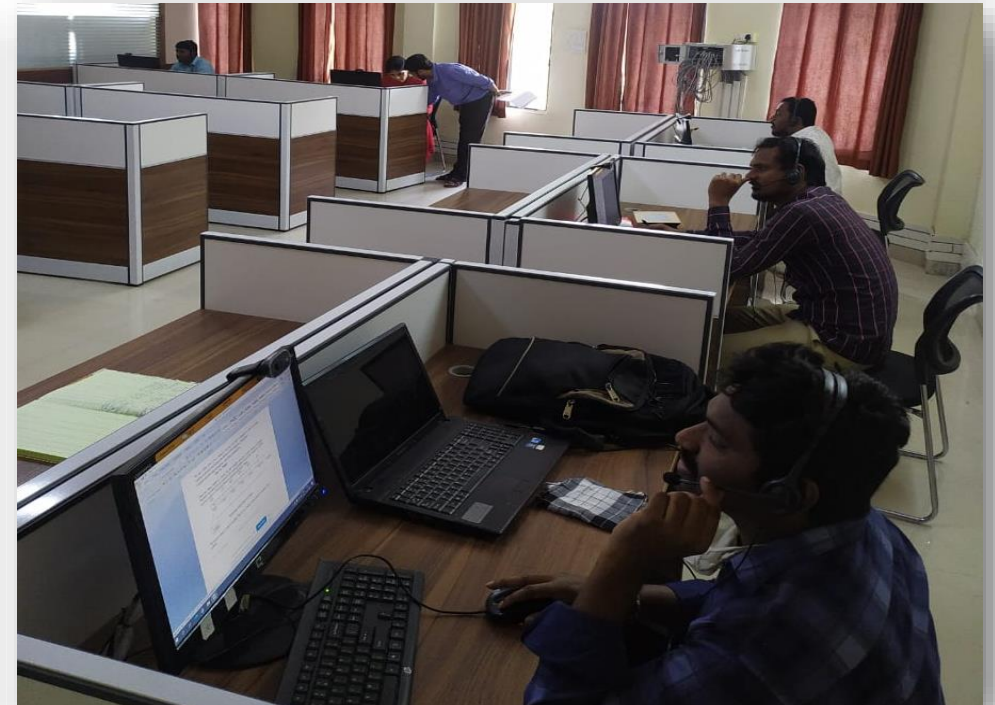
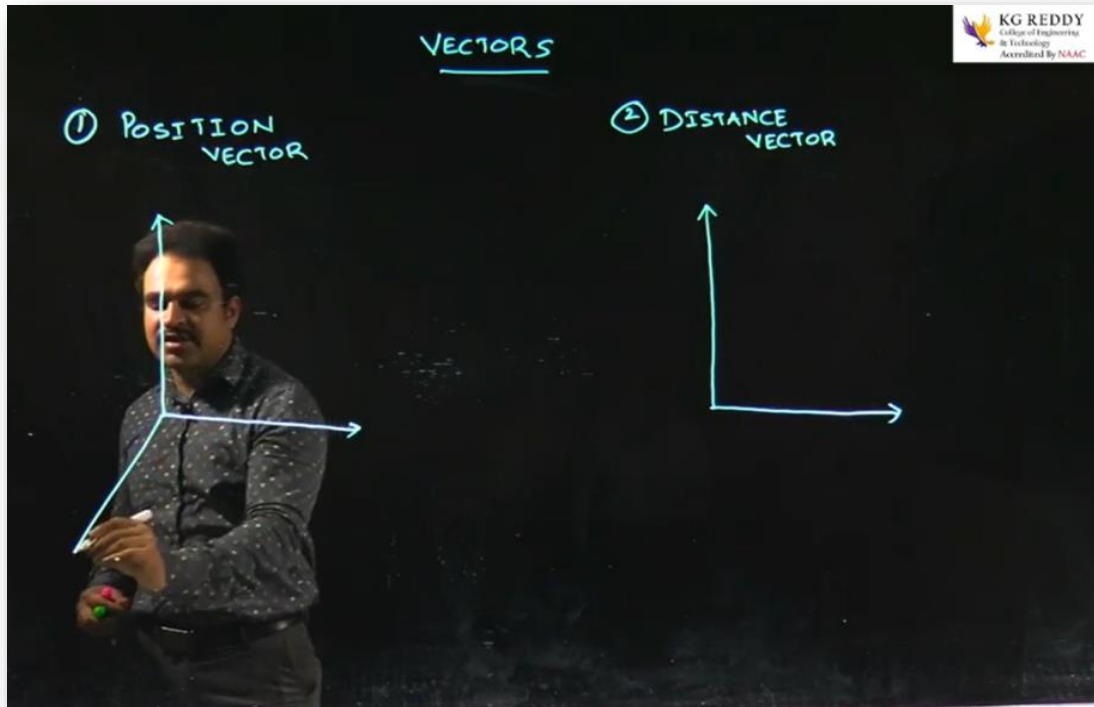
Online Education-Awareness and Implementation(Cont...)



Facilities for Online Teaching & Learning

Recording Studio's Established

- Light board Studio
- Lecture recording studio
- Data Base of Pre-recorded Lecture videos



Publications -Educational Research (2020-21)

S.No	Title of the Paper	Year of Publication	Name of the Authors	Name of the Journal
1	Responding to COVID-19 and Transitioning to Online Learning: Evaluation of an institution wide capacity building efforts on Technology Enhanced Learning	2020 - 21	Khamruddin Syed, Dr. Rohit Kandakatla, Dr. Madhulita,	Journal for Engineering Education Transformations
2	Role of learning analytics to evaluate formative assessments: using a data driven to inform changes in teaching practices	2020-21	R. Himasagarika, Dr. Rohit Kandakatla Aswini Gulhane	Journal for Engineering Education Transformations
3	Implementation of ICAP principles through technology tools: exploring the alignment between pedagogy and technology	2020-21	A Deepika, Dr. Rohit Kandakatla, Vijay Bhaskar, A Saida	Journal for Engineering Education Transformations
4	Online teaching in Engineering Institutions in India during Covid-19- a Study	2020-21	Dr.Veena Kumar, Dr. Amit Lathigara, Khamruddin Syed , Sanjeev Kavale Dr.Shaily Jain, Keith Fernandes Dr.Siddhartha Jadeja	https://iucee.org/wp-content/uploads/2020/08/Online-Teaching-during-COVID-19-a-Study.pdf

Publications -Educational Research (2020-21)

S.No	Title of the Paper	Year of Publication	Name of the Authors	Name of the Journal
5	T-CAP framework to design student-centric courses using educational technology tools	2021	Dr. Rohit Kandakatla, Dr. Ruth A. Streveler,	SEFI 2021, 49 th Annual Conference
6	Role of reflection in service learning-based engineering programs: A cross-cultural exploratory and comparative case study in India and the USA	2021	Dr. Rohit Kandakatla	2021 ASEE Annula Conference
7	Faculty Development and Community of practices: exploring their interplay to facilitate change in pedagogical practices at HEIs	2020	Dr. Rohit Kandakatla, Anurag Palla	South african institute of electrical engineers
8	Enablers and Barriers to implementing service learning in India-A Case study of two service learning models integrated into undergraduate engineering curriculum	2021	Dr.Rohit Kandakatla	WEEF 2021
9	Role of Indian higher education institutions towards Atmanirbhar India: Government policies and initiatives to promote entrepreneurship and innovation	2021	Dr. Rohit Kandakatla,	WEEF 2021