

VVCE IUCEE Student chapter

In continuation of VVCE emphasis on best practices for improving the quality of engineering education, VVCE is a part of IUCEE community by having IUCEE Consortium Membership. The IUCEE Consortium is a network of institutions forming the core of the ecosystem for transformation with focus on faculty development, student development, curriculum development, as well as improved teaching technologies & engineering education research.

About IUCEE

Indo Universal Collaboration for Engineering Education (IUCEE) was conceptualized in 2007 by over 150 leaders of engineering education and businesses from US and India. The name was modified as Indo US Collaboration for Engineering Education in 2016 to reflect the more global nature of the collaborations. The IUCEE is one of the founder members of IFEES (International Federation for Engineering Education Societies), which was the primary facilitator for the growth and development of IUCEE.

The vision of IUCEE is to improve the quality and global relevance of engineering education in India.

The IUCEE is guided by a team of Indian and International Experts from academia-Global Academic Advisory Forum (GAAF), and industry-Global Industrial Advisory Forum (GIAF). A fundamental strength of IUCEE is its network of engineering educators across the world who are passionate about the quality of engineering education, and its ties with global organizations such as International Federation of Engineering Education Societies (IFEES), Global Engineering Deans Council (GEDC), American Society for Engineering Education (ASEE), Accreditation Board for Engineering and Technology (ABET), International Society for Engineering Pedagogy (IGIP), Engineering Projects in Community Service (EPICS), Research in Engineering Education Network (REEN) and Engineers Without Borders (EWB) and the Deshpande Foundation. Leadership and experts from these organizations are regular participants of IUCEE events and programs.

Dr. Vedula is co-founder and executive director of IUCEE. Dr. Krishna Vedula has B.Tech (IIT Bombay, India, 1967), M.S. (Drexel University, 1969) and Ph.D. (Michigan Tech University, 1980) degrees in Materials/Metallurgical Engineering. He has 25 years academic teaching and research experience in materials science and engineering, including 10 years as a faculty member at Case Western Reserve University, 5 years as chair of the materials science and engineering department at Iowa State University and 8 years as dean of an engineering college at UMass Lowell. In addition he has spent 2 years managing federal research and educational programs.

The VVCE-IUCEE student chapter was inaugurated in online mode on Saturday 27th November 2021 at 4 pm. The Chief guests were Dr. Krishna Vedula, Executive Director, IUCEE and Ms. Sampada Pachaury, Global Industry Advisory Member IUCEE. Guest of honor Er. P Vishwanath, Hon. Secretary, VVS, Mysuru.. Convenor Dr. B Sadashive Gowda, Principal, VVCE, Mysuru and Coordinator Dr. Suchitra M, Professor Dept of ECE, VVCE, Mysuru.

VISION:

The VVCE IUCEE student chapter aims to aid the society with emerging technology for sustainable development

MISSION:

1. To encourage students to actively involve in problem and project based learning beyond the classroom
2. To bring out the leadership qualities, professional ethics and entrepreneurial skills through interdisciplinary activities for sustainable growth of society

The Student members of Student chapters of IUCEE meet on the 3rd Saturday of every month (on line) along with their Faculty Advisors at 7PM to learn and share best practices and collaborate for smarter and more engaging experiences among them.



IUCEE related activities at VVCE during 2021-22

IUCEE provides a variety of programs as part of the ecosystem for improving the quality of engineering education in India. These programs fall under the Verticals of

Faculty, Students and Leadership. These programs are made possible by a network of global experts.

Programs for students

- Student Competition on “**Oxygen Enriched Air from Plants**” during July 2021.

Objective: To design a process for producing oxygen using the process of photosynthesis and make it available to patients, particularly those convalescing.

A total of eleven teams from various departments participated in the competition. Each team included three students along with one faculty guide. The teams were given 1 month to think of possible solutions and prepare a video explaining their approach and idea.

Outcome: Students applied their design thinking to come up with various ways to increase oxygen production. Out of eleven teams 10 team were graded with B and one team A grade.





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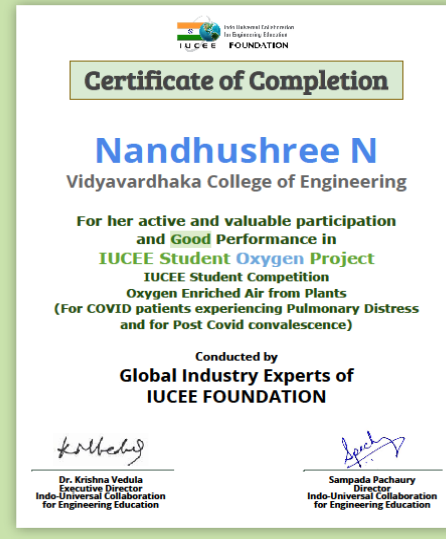
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- Five projects were defined around real world problem solving during November 2021.
 - I – low cost, field testing kits for honey quality & standards
 - II – distillation units for essential oils
 - III – toys for autistic kids
 - IV – (waste) management of perishable fruits & vegetables

V – block chain mapping of products

A total of 17 team from various departments applied for the projects. Each team included three students along with one faculty guide. The teams were guided by their Faculty guides and several experts from IUCEE to arrive at feasible solution/s. These teams were given mentoring sessions.

Outcome: Students have undergone a PBL process while coming up with realistic solutions and ideas. They submitted their preliminary understanding of the problem statements and presented their Abstracts during the Student Summit. One of the project team was selected among the Top 20 Student Chapter Projects and was invited to present their project at the IUCEE Annual Student Forum 2022 on 8th Jan 2022. The paper presented by the team is expected to be published in JEET (Journal for Engineering Education Transformations) Scopus Indexed Journal





- PBL is the foundation for implementing the NEP Guidelines of “Holistic and Multidisciplinary Education” and has to start with first year engineering students. The first year students in the pilot were offered several mini courses by international experts and assisted by faculty from the institutions. Mini courses included the following:
Artificial Intelligence for All
Student Leadership
Design Thinking
Social Emotional Learning
Clean and Green Campus
Entrepreneurial Thinking
Six interdisciplinary teams, one each for all the courses, have enrolled. They are assisted by Faculty guides and several experts from IUCEE. The mini Courses schedule from January 10 to April 26, 2022 (one webinar class every 2 weeks). The preparatory webinars have ensured that students and faculty are ready to use the online meeting platform as well as the LMS platform.

Outcome: These courses will include students working on projects in order to experience holistic and multidisciplinary thinking.

- IUCEE Course on Engineering Ethics during Dec 2021- Jan 2022 was successfully completed by six teams. Each team included 1 Faculty member + up to 3 students per faculty member. Lectures are given by global experts and the topics included were the following:
 - 9 December: **Ethics for Environment and Sustainability** (Dr. Raj Rajaram, Chicago)
 - 16 December: **Ethics in designing, software engineering, and product designing** (Ms. Sheetal Sohoni, Arizona State University)
 - 23 December: **Ethics in Emerging Technologies, Development, Urbanization, Innovation and Modularity** (Ms. Sampada Pachaury, IUCEE)



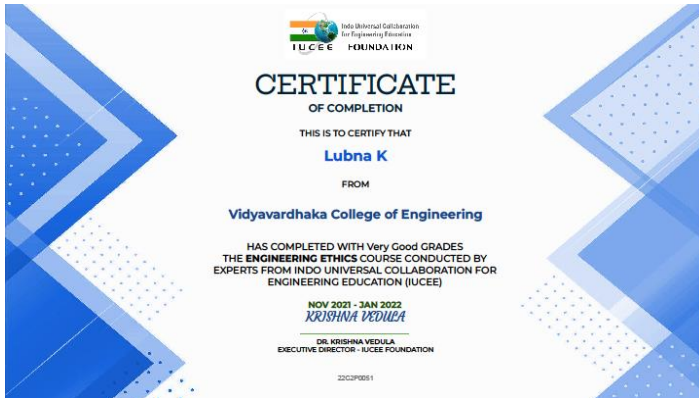
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- iv 30 December: **Upholding Institutional Values/ Corporate Social Responsibility** (Mr. Anil Pandit, GE Retd)
- v 6 January: **Introducing Survival Ethics into Engineering Education and Practice** (Dr. John Tharakan, Howard University)



- A Mini-Symposium on Smart, Clean, Green, and Sustainability on 5th and 6th February 2022.





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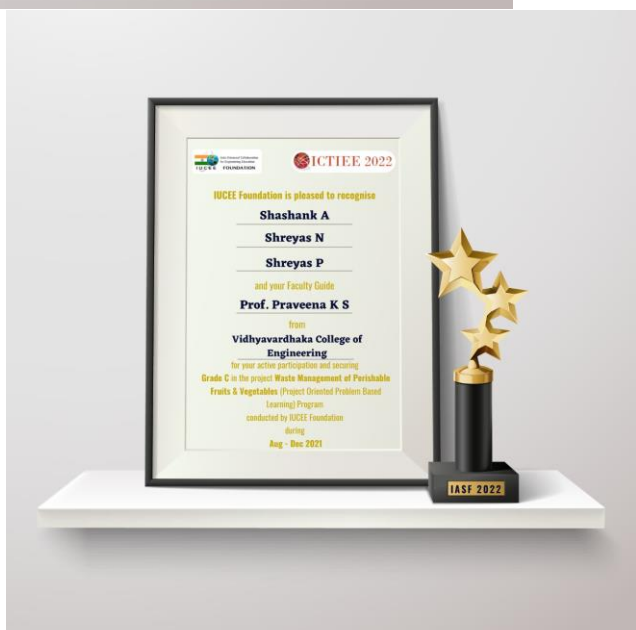
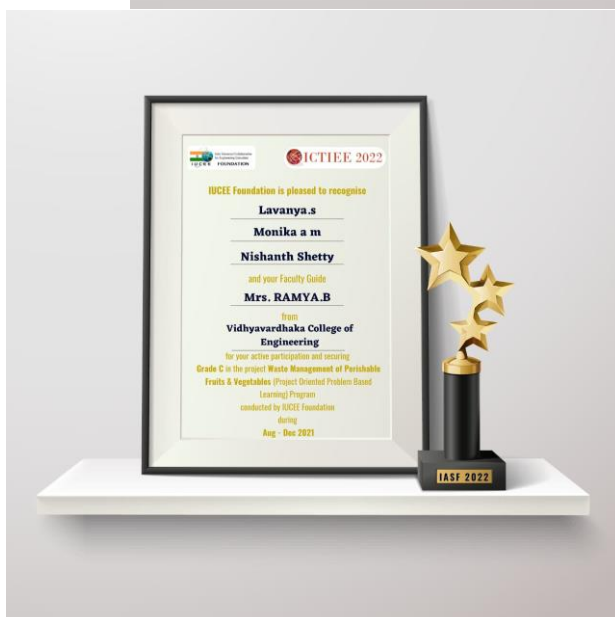
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- A total of 13 VVCE-IUCEE members have attended the ICTIEE 2022 i.e International Conference on Transformations In Engineering Education. It included student forum consisting of IUCEE Student Chapters presenting their Projects

Outcome: Improving the potential for excellence in engineering education and good communication skills.





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The VVCE-IUCEE student chapter conducted a quiz event “Quizzers panel” for VVCE students on 10th January 2022

Quiz Theme: technical and general aptitude based questions

Quiz platform: kahoot

Quiz strength: 90-100 Students

Outcome: To build professional, Communication, leadership skills and , Team work necessary for future development.

About Quizzers panel : A platform to showcase one's technicality and skills

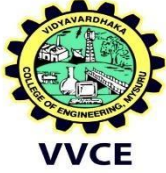
VVCE-IUCEE Student Chapter had organised its first and welcoming event named Quizzers panel to increase one's technical and general knowledge skills on branch specific subjects.

- First round which was technical round containing all questions related to specific branches and subjects . Two teams from each branch getting the highest score would be selected for the second round.
- Second round was based on general aptitude based questions ,which was conducted in kahoot platform conducted by Mr.Shrivatsa(Organizing committee head) who led the whole team and made the round a successful one.

I prize : Muhammed Aamir Naveed of ME and team

II prize : Chandana N of ECE and team

III Prize : Nagaprapthi P Shetty of CSE(AI and ML) and team



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VVCE IUCEE STUDENT CHAPTER
Cordially invites you to the

QUIZZERS PANEL

DATE: 10 JAN 2022
TIME: 3:00 pm to 5:00 pm
VENUE: ISE Seminar Hall

Student Coordinators
Shreya B S - CSE(AIML)
Jahnvi G N - CSE
For any queries contact-
SHRIVATSA
- 7019442273

Faculty Coordinators
Goutham B
Asst. Professor, Dept. of EEE
Aisiri A P
Asst. Professor, Dept. of ECE

RULES:
-3 members per team
-2 rounds
-1st Technical Round
-2nd General Round

limited seats and exciting cash prizes

Convenor
Dr. Suchitra M
Professor, Dept. of ECE

Patron
Dr. B Sadashive Gowda
Principal, VVCE

Register: shorturl.at/ajFS2
last date : 9 th Jan 9AM

