



**2<sup>nd</sup> INTERNATIONAL SYMPOSIUM  
ON  
RECENT CHALLENGES IN ENGINEERING  
(ISRCE 2023)**



**30–31 December 2023**

**PERSPECTIVES AND CHALLENGES  
IN ENGINEERING ON THE MOON**

**University College of Engineering (A)  
Osmania University, Hyderabad**



**Osmania  
Foundation**



**Osmania Engineer**



## UNIVERSITY COLLEGE OF ENGINEERING

The University College of Engineering (UCE) has the distinction of being one of the oldest and the biggest among the Engineering Colleges of the country. Established in the year 1929, eleven years after the formation of Osmania University, it was the 6th Engineering College to be established in the whole of British India. The College moved to its present permanent building in the year 1947. Today it is the biggest among the campus colleges of Osmania University. The Golden Jubilee of the College was celebrated in 1979, the Diamond Jubilee in 1989 and the Platinum Jubilee in 2004. The College was made autonomous in 1994. The College offers four-year engineering degree courses leading to the award of Bachelor of Engineering (B.E.) in Biomedical Engineering, Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communications Engineering and Mechanical Engineering. The College also offers Post Graduate Programmes and Ph.D in the various branches of Engineering. As of today, there is a yearly intake of 450 undergraduate students (full-time) and 457 postgraduate (Full Time and CEEP) students. There are 116 teaching staff members, including 6 Senior Professors and 38 professors.

## OUCE ALUMNI ASSOCIATION

Once the University College of Engineering was declared autonomous the idea of having an Alumni Association, whose membership would include all past students of the College and present or past faculty members of the college, gained momentum. Under the dynamic leadership of the then Principal, Prof. D. C. Reddy the first get-together was held on Saturday the 3rd July 1996. After the revival of the Association in 2015 the two subsequent Executive Committees under the leadership of Er. Rammohan Rao, Er. P. Ram Reddy and Dr. D. Vijay Kumar with the support of Patrons, fellow Members, learned Faculty and Students has set out to fulfill the objectives of the Alumni Association. The Association works with the Univ. College of Engineering, University Staff, Students and few of the objectives are:

- Enhance the reputation of the University and OUCE in particular & enrich the emotional bondage amongst the students, faculty and alumni.
- Propose and execute special projects: Buildings, technical projects, seminars, conferences, etc.
- Support meritorious & poor/ economically backward students financially by floating scholarships.
- Inspire and invoke the spirit of innovation among the students leading to finding technical solutions to the problems of the society leading to Patents to students and the College.

To further the objectives of the Association, the Alumni Association has organized an International Conference on Emerging Trends in Engineering (ICETE 2019) successfully. In continuation to give back to its alma mater the association is organizing this first international symposium under its aegis.

## ABOUT THE SYMPOSIUM

OUCE Alumni Association (OUCEAA) assures that the alumni are significant stakeholders who can actively participate in the institution's developmental activities. The Alumni Association deems it befitting to give back to the alma mater as a sign of their gratitude and affinity towards the institution. Symposiums like this provide a platform for the alumni to mentor and share the expertise in their respective areas of study. The delegates will get an opportunity to get exposed to leading edge technologies through the pool of alumni talent. This year the International Symposium on Recent Challenges in Engineering (ISRCE) is being organized by OUCEAA. The symposium addresses the state-of-the-art topics from various branches of Engineering. In addition to the technical presentation sessions, invited talks will be held. Invited Speakers are prominent educationalists, industrialists etc. with prodigious expertise in their respective fields which helps the delegates to enhance their knowledge.

## PERSPECTIVES AND CHALLENGES IN ENGINEERING ON THE MOON

Our country's success in Chandrayan landing on Moon and data collected throws light for research and development in every sphere of engineering. The Chandrayan programme also known as Indian Lunar Exploration Programme is an ongoing series of outer space missions by the ISRO for the exploration of Moon. Scientists are seriously working on plans for building various infrastructure including roads on the moon. Plans to mine and utilize critical minerals are already being made by various agencies in the world. Success of these programs are based on the various engineering including emerging technologies. Further, growth in this area throws a number of challenges which need to be taken up by students, faculty and researchers' and UGC have already initiated programs to reach students.

Our college being one of the oldest and reputed colleges in our country has taken lead in plenty of research subjects. In this context it is proposed to conduct this year's International Symposium on the above subject.

It is proposed to invite eminent experts and organizations to deliver lectures on the challenges being faced with regard to engineering on moon. Based on the lectures an understanding will be developed on the PERSPECTIVES AND CHALLENGES IN ENGINEERING ON THE MOON.

Students and scholars will be motivated to present their budding ideas on the above theme through a poster presentation on December 31, 2023.

The Symposium would be organised in all the seven (7) departments i.e. Biomedical Engineering, Civil Engineering, Computer Science & Engineering, Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering and Mining Engineering.

There would be Technical Presentations at respective departments on December 30, 2023 and a Poster Presentation by students on December 31, 2023

## ISRCE 2023 Committee

### CHIEF PATRON

Prof. D. Ravinder  
Vice-Chancellor, OU

### PATRONS

Prof. P. Laxminarayana  
Registrar, OU

Prof. Kumar Molugaram  
Dean, Faculty of Engineering, OU

Prof. Sriram Venkatesh  
Principal, University College of Engg. (A), OU

Prof. S. Ramachandram  
Former Vice-Chancellor, OU

Er. R. V. Rammohan Rao  
Past President, AA UCE, OU

Er. P. Ram Reddy  
Past President, AA UCE, OU

### CHAIRPERSONS

Dr. D. Vijay Kumar  
President, Alumni Association UCE, OU

Prof. A. Krishnaiah  
Director, CDAAC, UCE, OU

### CONVENERS

Dr. M. S. Venkata Ramayya  
General Secretary, Alumni Association UCE, OU

Prof. Shashikanth Kulkarni  
Dept. of Civil Engineering, UCE, OU

### ORGANISING COMMITTEE

Prof. P. Chandrashekar, Vice-Principal, UCE, OU  
Prof. M. Malini, HOD, BME, UCE, OU  
Prof. P. Raja Sekhar, HOD, CE, UCE, OU  
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Prof. Sriram Venkatesh, I/c HOD, Min, UCE, OU  
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Er. K. J. Amarnath, Mining, AA UCE, OU  
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Er. Macharaju Yeshwanth, AA UCE, OU  
Er. K. Krishna, AA UCE, OU  
Er. Sampson Theodore Cherla, AA UCE, OU

### TECHNICAL PROGRAM COMMITTEE

Dr. K. E. C. H. Vidyasagar, BME, UCE, OU  
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Dr. M. V. Ramana Rao, EE, UCE, OU  
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Dr. T. Nagaveni, ME, UCE, OU  
Er. M. Sathish Kumar, PoP, Mining, UCE, OU

### DEPARTMENT COORDINATORS

Er. Kiran Kore, BME, UCE, OU  
Er. R. Rajender, CE, UCE, OU  
Dr. B. Sujatha, CSE, UCE, OU  
Dr. C. H. Siva Kumar, EE, UCE, OU  
Er. Md. Misbahuddin, ECE, UCE, OU  
Dr. Uday Kiran, ME, UCE, OU  
Er. E. Srinivas, PoP, Mining, UCE, OU

## ISRCE 2023 - Program at a Glance

### Day1

 **Saturday, December 30, 2023**

Time	Activity
9:30 - 10:30	Inauguration at Assembly Hall, UCE, OU
10:30 - 11:00	Tea Break
11:00 - 13:00	Plenary Session
13:00 - 14:00	Lunch at Main Building Quadrangle
14:15 - 15:15	Technical Presentation-1 at Respective Departments
14:15 - 15:15	Tea Break
15:30 - 16:30	Technical Presentation-2 at Respective Departments

### Day2

 **Sunday, December 31, 2023**

Time	Activity
9:30 - 11:00	Poster Presentation on the Theme by Students of OUCE
11:00 - 11:30	Tea Break
11:30 - 13:00	Global Alumni Meet, Felicitation & Networking at Assembly Hall, UCE, OU
13:00 onward	Lunch

# Registration Details

## Fees Per Delegate

Corporate and other participants - Rs. 5000/-

Faculty and Alumni members - Rs.1000/-

Students (UG/PG/Research Scholars) - Rs. 500/-

## For further details Contact

Email: [isrce.ouce@gmail.com](mailto:isrce.ouce@gmail.com)

Call : (+91) 9440951800, (+91) 9866055943, (+91) 9490946673

URL: [www.uceou.edu/isrce2023.html](http://www.uceou.edu/isrce2023.html)

**Last Date for Registration is 15<sup>th</sup> December 2023  
(Maximum Limited to 50 Participants in Each Stream)**



ESTD: 1917

**A University Accredited with A + by the NAAC**

## Address for Communication

Convener, ISRCE2023, University College of Engineering (A),  
Osmania University, Hyderabad - 500007, Telangana, INDIA.