



Annual Civil Engineering Fest



2021



S M A R A K

WHERE TRADITION

MEETS INNOVATION

*Organized By*



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## FACULTY ADVISOR CEST CLUB OF NITR

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**>> Dr. Subhajit Mondal**

It brings me immense pleasure that the CEST Club of NIT Rourkela, in collaboration with ICE Club, is organizing SMARAK '21, the annual civil engineering fest of NIT Rourkela. CEST Club has provided a crucial and extensive platform for holistic development by providing various opportunities to widen knowledge, gain technical expertise and explore the diverse aspects of Civil Engineering. To traverse through multiple research areas, they had organized CIVINARs on recent topics of great interest in Civil Engineering, which eminent professors from renowned institutes worldwide. Utilizing the lockdown period to improve and relay knowledge, our students released AASRAY, our annual magazine, which covers the topic of massive interest in civil engineering.

With SMARAK '21, we want to promote and propagate the boundless civil engineering aspects to the participants via events, workshops, and seminars. On behalf of the CEST Club, I welcome all to participate in the three-day extravaganza hosted in NIT Rourkela.



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## FACULTY ADVISOR ICE : UK, NITR CHAPTER

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**Dr. Pradip Sarkar <<**

It brings me colossal joy that ICE, UK: NIT Rourkela Chapter, as a team with CEST Club, is arranging SMARAK '21, the annual civil engineering fest of NIT Rourkela. ICE, UK: NIT Rourkela Chapter has established itself as an elite platform where civil engineering is innovated, enjoyed, and celebrated. Our students have participated and excelled in competitions organized by prestigious institutions across India. We have trained our students to run their hands smoothly on the latest software such as STAAD Pro, Primavera, MIDAS, during the global pandemic. We have also organized "CIVINARs", where renowned professors worldwide delivered lectures on exciting topics.

With SMARAK '21, amid numerous events in line, including competitions, seminars, and cultural fiesta, participants will get an ideal opportunity to showcase their talents. I invite all students across India to witness the three-day civil engineering festival hosted by NIT Rourkela.

# ABOUT SMARAK

SMARAK is the annual civil engineering technical fest of NIT Rourkela, organized jointly by CEST Club of NIT Rourkela & ICE, UK: NIT Rourkela Chapter, under the Technical Society, Student Activity Centre (SAC), NIT Rourkela.

In the three days mega-event, We will be celebrating the very essence of civil engineering. Eminent Scholars from across the globe will be delivering their guest lectures on topics of great interest & Professionals from the reputed organization will be conducting workshops of technical importance. Students from different IITs, NITs, GFTIs, and other reputed institutes across India are invited to attend the fest.

## OUR VISION

A vibrant student community driven by innovation and scientific thinking.

## OUR MISSION

Provide guidance and a platform to display and develop the technical skills of young minds.

## OUR OBJECTIVE

Host a variety of events including workshops, competitions and lectures.



# COMPETITIONS

## COMPETE, LEARN & WIN

## TECHNICAL EVENTS

### 1. CIVIZ



An online quiz event, covering questions from a wide range of civil engineering and general knowledge topics. It provides the best opportunity for the cognitive and quizzing genius to test their knowledge, challenging their quick thinking.

### 2. PIXCIV

A photography contest wherein participants are encouraged to capture the aesthetics of any perspective related to civil engineering. Participants will submit the photographs clicked by them and a short write-up based explaining the picture's essence. The submissions will take place online, and social media tractions will adjudge winners.



### 3. MAT.CODE



Mat. Code gives the participants a unique opportunity to use their knowledge of MATLAB software, a high-performance language for technical computing. Through this Event, Smarak provides participants with the opportunity to showcase their skills of analyzing and prototyping. Participants will solve the problem statement on the spot using plotting functions, matrix manipulation, etc.

### 4. ART-E-TECH

An event for sketching enthusiasts wherein they will draw famous architectural monuments/structures of their choice. This Event will exhibit their artistic talent of sketching and summarise the art to convey its significance to the audience.



# BRAINSTORM, BUILD & CONQUER

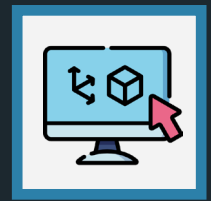
## 5. BUILDEX



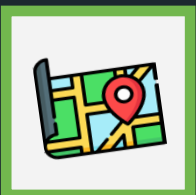
A BIM (Building Information Modelling) based structure analysis competition. BIM is an intelligent 3D-based process that gives architecture, engineering, and construction professionals the insight tools to more efficiently plan, design, construct and manage building infrastructure. This Event will test participants' knowledge in analyzing Building models/Structural elements using software like ETABS/ SAP2000/ STAAD.Pro on the spot.

## 6. CADENIGMA

In CADenigma, participants will showcase their CAD skills by designing a layout using Autocad 2D and 3D software on the spot. This competition tests the imagination and modeling abilities of participants. Experienced and knowledgeable structural design engineers will judge it.



## 7. CITY OF SMART CLANS



A unique design-based competition wherein participants use their creativity and imagination to draw a city plan according to the given problem statement, covering all necessary parameters with suitable scale and measurements.

## 8. CHRONICLE

An event where participants have to present their innovative ideas and solutions to an existing topic. This Event aims for participants to express their thoughts and theories, bringing positive change to society.





## EXPLORE, EXPERIMENT AND EXPERIENCE

### >> WORKSHOP



We know the need of the present hour is acquaintance with ever-growing software of technical importance. Keeping this in mind, In the past, we have successfully organized many workshops to train our students to get familiar with the state of the affair software likes STAAD PRO, Primavera, MIDAS, and many more. Highly trained professionals from reputed organizations have conducted these workshop sessions.

### >> TALK SESSION



Talk sessions with experienced professionals provide an enormous opportunity to gain insider knowledge about industry life. We were joined by our prestigious alumni, industry experts, and govt servants who have shared their invaluable experiences with us in the past. These sessions will help our participants in the revaluation of career paths after their graduation.

### >> GUEST LECTURE - CIVINAR



We have a rich tradition of organizing Guest lecture series from reputed scholars across India. We came up with CIVINAR - an online webinar to provide the entire civil engineering community with a diversified platform to share knowledge about trailblazing topics of current and future interests in the field of Civil Engineering. In the past, We were joined by Dr. Nemy Banthia, Dr. Sriram Narsimhan, and many more noteworthy personalities who gave insightful talks.

### >> RECREATIONAL EVENTS



After all the hardships and efforts, the participants deserve an evening of entertainment and relaxation. So, we bring a cultural fiesta night filled with aesthetic poetries, melodious songs & fun-filled Stand-Ups, all performed by students of NIT Rourkela, to end your day with fits of joy and laughter.

## PATRONS



Dr. Pradip Sarkar  
Prof., NIT Rourkela



Dr. Subhajit Mondal  
Asst. Prof., NIT Rourkela

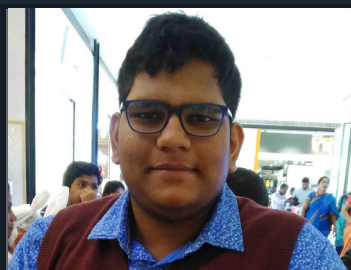


## TEAM SMARAK '21

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