



**Telangana Academy of Sciences**  
Hyderabad  
and  
**Kakatiya University, Warangal**  
Jointly Organise the Prestigious



# TELANGANA SCIENCE CONGRESS

(TSC - 2025)

19-21 August, 2025

to commemorate

**Golden Jubilee Celebrations of**

**Kakatiya University**



Focal Theme

**Innovative Skills for Empowerment -  
Science and Technology for Transforming Young India**





## Telangana Science Congress-2025 (TSC-2025)

The Telangana Science Congress (TSC) is the flagship scientific event organised by the Telangana Academy of Sciences (TAS). Since its inception, TSC has emerged as a dynamic platform for scientific exchange, innovation, and policy dialogue; and as a crucial catalyst for advancing science & technology. Before the state bifurcation, since 1963, it was called "AP Science Congress". On earlier occasions, the Science Congress focused on themes related to Science and technology, All-Around Development, and Sustainable Development of the state. This year, the "Telangana Science Congress-2025" will be held at the Kakatiya University, Warangal, during August 19-21, 2025. This upcoming Science Congress coincides with the Golden Jubilee Celebrations of Kakatiya University, marking 50 years of academic excellence and contributions to higher education in Telangana. The event aims to bring together scientists, researchers, academicians and students to discuss contemporary scientific challenges and advancements, foster interdisciplinary collaboration, and to promote scientific temper among the youth and the general public.

The core objectives of the TSC include promoting interdisciplinary collaboration, encouraging original research and, more importantly, nurturing a scientific temper among youth and the public in general. It offers a vital space for scientists, researchers, educators, and students to showcase their work and discuss pressing scientific and societal challenges, thereby playing a significant role in shaping society's scientific mindset.

The TSC draws participants from a broad spectrum, including renowned scientists, young researchers, industry leaders, educators and policy-makers. This diversity enriches the Science Congress, transforming it into a convergence point for knowledge exchange and networking. The Academy envisions, through "Science Congress", increased academia-industry collaborations, international partnerships and a greater focus on frontier areas such as artificial intelligence, data science, biotechnology and climate science. The integration of digital platforms is being explored to amplify access and inclusivity, which will allow for virtual participation and engagement, breaking down geographical barriers and reaching to wider audience.

## About the Telangana Academy of Sciences (TAS)

The Telangana Academy of Sciences (TAS) was established in 2015 following the bifurcation of the Andhra Pradesh Academy of Sciences, which was founded in 1963. TAS is headquartered at Osmania University, Hyderabad and has been operating independently since April 30, 2015.

TAS is dedicated to advancing science and technology in Telangana by providing a forum for discussing scientific developments, propagating scientific knowledge among the public and publishing scientific literature and to contribute to policy matters. It covers various scientific disciplines, such as Physical and Mathematical Sciences; Engineering Sciences; Chemical Sciences; Life Sciences (including Agricultural Sciences); Medical, Health & Pharmaceutical Sciences; and Earth, Ocean, Atmospheric & Environmental Sciences.

TAS has established seven Zonal Centres namely Kaleshwaram, Basara, Rajanna Sircilla, Bhadrachalam, Yadadri, Charminar, and Jogulamba to facilitate its mission. The Zonal Coordinators of these centres actively organise seminars, workshops and outreach programs, ensuring widespread participation and engagement across all the 33 districts of Telangana.

TAS also recognises and honours scientific excellence through its fellowship programs. Each year, the academy inducts new Fellows and Associate Fellows, acknowledging their significant contributions to various scientific fields. Additionally, TAS presents Young Scientist Awards to emerging researchers, fostering a culture of innovation and research among the youth. The Telangana Academy of Sciences (TAS) has consistently championed integrating science with societal impact through events and initiatives. On May 22, 2024, TAS celebrated the Golden Jubilee of 'Smiling Buddha,' reflecting on India's scientific achievements. On October 16, 2024, TAS, in collaboration with the NIT, Warangal, commemorated World Food Day with a program centred on "Functional Foods and Smart Proteins: The Future of Nutrition", highlighting advancements in nutrition science and food innovation. On November 7, 2024, TAS organized an event themed "Innovating for Impact: Bridging Science, Industry and Society," focusing on the role of scientific innovation in sustainable development.

Early in the year, TAS conducted a seminar on "Environmental Issues and Challenges", addressing pressing ecological concerns. The academy has been organising several programs across the state to celebrate the National Science Day; several distinguished speakers visited schools and colleges to deliver National Science Day lectures to inspire the young generation.

One of the flagship programs of the Academy is the "MVN Shirodkar Memorial Lecture" organised every year; these lectures are given by global leaders of science, including Nobel Laureates. The commitment of TAS to fostering scientific discourse is evident through its regular organization of several endowment lectures in honor of Dr. Nayudamma, Dr. P. Shiva Reddy, Sri Darshan Ranganathan, Sri Balakrishna, and others.

Through these initiatives, TAS has become a pivotal organisation in promoting science, technology and innovation and addressing societal challenges. The Telangana Academy of Sciences has been contributing significantly to Telangana's scientific and technological advancement.

## About the Focal Theme

The focal theme of the Telangana Science Congress-2025 (TSC-2025) is **"Innovative Skills for Empowerment - Science and Technology for Transforming Young India"**. A decade after the formation of Telangana as the 29th state of India on 2nd June 2014, Telangana today stands as a vibrant symbol of youthful energy, ambition, and progress. Under the visionary leadership of the Hon'ble Chief Minister, who champions the slogan "Young India", the state has strategically prioritised youth empowerment as a cornerstone for inclusive development. Science and technology (S&T) coupled with innovation and skill development, form the driving force behind the Transformation of Telangana into a knowledge-powered, future-ready society.

The focal theme of this year's Telangana Science Congress aptly captures this momentum. It highlights the integrated role of scientific advancement, hands-on skills, and empowerment initiatives in shaping the aspirations of millions of young minds. Telangana has made significant strides in infrastructure development focused on youth-oriented growth by the establishment of innovation hubs, skill development centers, or state-of-the-art research parks. Flagship initiatives such as T-Hub, TASK (Telangana Academy for Skill and Knowledge), and WE-Hub are equipping young entrepreneurs, students and professionals with access to resources, mentorship and opportunities that bridge the gap between education and employability.



This transformation is not just economic but deeply societal. By encouraging scientific temper, fostering grassroots innovation and promoting digital literacy even in rural regions, Telangana is nurturing a generation that is not only job-ready but also future-ready. The commitment to integrate science with traditional knowledge, industry collaboration and emerging technologies like AI, biotechnology, and renewable energy ensures that the youth of Telangana are empowered to lead, create and inspire. As we convene the Telangana Science Congress-2025, let this platform celebrate the spirit of Young India, a force that thrives on innovation, is skilled to compete globally and empowered to shape a sustainable and equitable future.

### About Kakatiya University

Kakatiya University was established on August 19, 1976, in Warangal, a city with a rich historical legacy of the Kakatiya dynasty. The University spans over 672 acres of lush greenery and offers a serene academic environment. The University has 8 faculties, 32 departments, and 42 Boards of Studies that design and develop 63 regular and self-finance programs offered through 19 constituent colleges and 483 affiliated colleges across 11 districts in North Telangana. In addition, 30 programs are offered in distance mode through the Centre for Distance and Online Education (CDOE).

Kakatiya University was accredited with 'A+' grade by NAAC in 2023, securing a CGPA of 3.27 for 2023-2028. The National Institutional Ranking Framework (NIRF) ranked the University in Band II (151-200). Under Urban Settings, the University holds Rank #3 in India for Sustainability as per UI Green Metrics evaluated by the University of Indonesia. The University has received several prestigious awards, including the National NSS Award (2021) from the Hon'ble President of India, the Red Cross SEVA Award (2022) from the Hon'ble Governor of Telangana, National Water Award (2019) from the Govt. of India, Water Conservation Award (2021) from the Government of Telangana, and the District Green Champion Award (2021) from MGNCRE, Government of India.

Over the past five years, Kakatiya University has undertaken 65 research projects from various funding agencies and published 3,000+ research papers in high-impact National and International journals. The University has organised 188 National and International conferences. About 10 faculty members worked in overseas universities with fellowships like Fullbright, DAD, Raman, etc. University secured 85 JRF, SRF, PDF and other student fellowships. The faculty has received 177 distinguished awards in diverse fields. The university has recently established five research centres in thrust areas and initiated 32 major research projects with an expenditure of ₹35 Crores, under the RUSA 2.0 program (For 2025-26).

With 49 years of academic excellence, Kakatiya University continues its journey towards more significant achievements. It is all set to celebrate its Golden Jubilee Year starting from August 19, 2025.

### About Warangal

Warangal, located in the Indian state of Telangana, is a city steeped in history and cultural significance. The capital of the Kakatiya dynasty, which ruled from the 12th to the 14th centuries, Warangal boasts a rich architectural heritage. The city's historical landmarks,



such as the Warangal Fort, the Thousand Pillar Temple, and the Kakatiya Kala Thoranam, reflect its glorious past and attract tourists and scholars alike. The Warangal Fort, constructed in the 13th century, is renowned for its impressive stone gateways and intricate carvings.



symbol of Telangana's cultural identity.

The Thousand Pillar Temple, built in 1163 CE, is a testament to the Kakatiya dynasty's architectural prowess. It features intricately carved pillars and sculptures. The Kakatiya Kala Thoranam, a majestic stone arch, has become a

In addition to its historical monuments, Warangal has several significant religious sites. The Bhadrakali Temple, dedicated to the goddess Bhadrakali, is one of the oldest temples in the region and holds immense spiritual importance. The religious landscape of the city includes the Padmakshi temple and Ramappa Temple, designated by UNESCO as a world heritage site, showcasing exquisite architecture and spiritual heritage.



Warangal's economy is primarily driven by agriculture, with rice, cotton, and chilli being the main crops cultivated in the region. The city is also witnessing growth in the information technology sector, with the establishment of IT incubation centres and the presence of companies such as Tech Mahindra and Cyient. The Enumamula Grain Market, one of the largest in Asia, underscores Warangal's significance in the agricultural trade.

Education plays a pivotal role in the development of Warangal. The city houses esteemed institutions such as the National Institute of Technology (NIT) Warangal, Kakatiya University and Kaloji Medical & Health University, Sammakka-Sarakka Central Tribal University and other deemed Universities, attracting students nationwide. In recognition of its commitment to lifelong learning, Warangal was inducted into UNESCO's Global Network of Learning Cities in 2022.

Warangal's cultural vibrancy is evident in its festivals and traditions. The Bathukamma festival, celebrated with floral arrangements and traditional songs, showcases the region's rich cultural tapestry. The city also hosts the Sammakka Saralamma Jatara, a significant tribal festival attracting millions of devotees.



Efforts to preserve and promote Warangal's heritage have been recognised nationally. In 2015, the Ministry of Tourism awarded the city with 'Best Heritage City', highlighting its commitment to cultural conservation and tourism development. With its blend of historical significance, economic growth, educational excellence and cultural richness, Warangal remains a beacon of Telangana's illustrious past and promising future.



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## Telangana Science Congress -2025

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**Dr. G. Bhanuprakash Reddy**, Vice-President, TAS, Hyderabad

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Special Session on Interaction of Scientists with Students	<b>Dr. Ch. Mohan Rao</b> President, TAS; Former Director, CCMB; & Senior Professor Emeritus, BITS-Pilani, Hyderabad	Prof. A. Ramachandraiah, Rtd. Professor of Chem, NITW , Prof. V. Kishan, Rtd. Professor of Pharmacy, KU Prof. S. Jyothi, Professor of Chemistry, KU Dr. B. Nagaraju, UCPSc., KU
Special Theme Sessions (No Abstracts)	Sectional Presidents	Sectional Secretaries
Artificial Intelligence for Everyone: Bridging the gap between the people and Technology	<b>Prof. P. Radha Krishna</b> Professor of CSE NIT, Warangal	Dr. B. Rama, Dept. of Comp. Science, KU Dr. V. Ramu, Dept. of EEE, UCE, KgdM, KU, Dr. K. Padmaja, Dept. of CSE, UCE, KgdM, KU
BioE3 (Biotechnology for Economy, Environment and Employment)	<b>Prof. A. Ramchandra Reddy</b> Former Vice-Chancellor Yogi Vemana University, Kadapa	Prof. M. Venkat Rajam, Rtd. Professor of Bot., Delhi, Univ Prof. N. Ramaswamy, Rtd. Professor of Biotech., KU Prof. M. Estari, Professor of Zoology, KU Dr. P. Srinivas, Dept. of Biotech, KU
Paradigm Shift in Space Program	<b>Dr. Prakash Chauhan</b> Director, NRSC, Hyderabad	Prof. B. Venkatram Reddy, Professor of Physics, KU Dr. E. Hari Krishna, Dept. of ECE, UCE, KgdM, KU Dr. K. Cheena, Dept. of EEE, UCE, KgdM, KU
Architectural Heritage of Telangana	<b>Prof. M. Panduranga Rao</b> Rtd. Professor of Geo-Tech, NIT, Wgl	Prof. T. Manohar, Dean, Fac. of Soc. Sciences, KU Prof. B. Suresh Lal, Director of CDOE & HOD of Economics, KU Prof. S. Narasimha Chary, Prof. of Com & BM, KU Prof. P. Srinivas Rao, HoD of Pub. Admin & HRM, KU
Women Scientists Meet	<b>Dr. N. Manjula Reddy</b> Chief Scientist, CCMB, Hyderabad	Prof. G. Shamitha, HoD of Zoology, KU Prof. J. Krishnaveni, Professor of Pharm. Sc., KU Dr. G. Padmaja , Dept. of Phys., KU
Science Teachers Meet	<b>Prof. K. Laxma Reddy</b> Retd. Professor of Chemistry, NIT, Wgl	Prof. N. Gopi Krishna, Rtd. Professor of Physics, KU Prof. C. J. Sreelatha, Professor of Physics, KU Dr. K. Mamatha, Dept. of Chem., KU
Other Activities (No Abstracts)	Coordinators	
Distinguished Lectures	Prof. V. Malla Reddy, Rtd. Professor of Pharm. Sc; Prof. A. Purushotham Rao, Rtd. Professor of Zoology; Prof. N. Prasad, Professor of Pharm. Sc.; Dr. M. Lalitha Kumari , Dept. of Botany; Dr. K. Kishor Kumar, Dept. of CSE; Dr. R. Bharavi Sharma, HoD of Maths; Dr. K. Sujatha, Dept. of Seri, KU	
Panel Discussion	Prof. A. Sadanandam, Rtd. Professor of Bot.; Prof. Ch. Sanjeeva Reddy, Rtd. Professor of Chem.; Prof. N. Vasudeva Reddy, Professor of Chem.; Dr. M. Thirumala Devi, Dept. of Maths; Dr. B. Radhika Rani, HoD of Lib. Sc., KU	
Young Scientists Meet	Dr. Y. Purushotham, Scientist 'F', C-MET, Hyderabad; Prof. G. Gangadhar Reddy, Rtd. Professor of Physics; Dr. V. Swaroopa Rani, UCPSc; Dr. B.S.L. Soujanya, Dept. of Maths; Dr. Md. Asim Iqbal, Dept. of ECE; Dr. T. Rajamani, Dept. of Chemistry; Dr. A. Raju, Dept. of Physics, KU	
S & T Expo	Dr. N. Ramana, Principal, KUCET; Dr. K. Jagan Mohan Raju, Principal, UCE, KgdM; Dr. Ch. Radhika, Dept. of ME; Dr. B. Srikanth, Dept. of ECE; Mrs. K. Sumalatha, Dept. of EEE; Dr. A. Narender, Dept. of Phys; Dr. V. Mahender, Dept. of ECE, KU,	
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## Telangana Science Congress -2025

The TSC-2025 invites Abstracts of innovative and quality research papers from Academicians, Engineers, Scientists, Industrialists, Technocrats, etc., along with articles of popular science to promote scientific knowledge.

### Submission of Abstracts:

Abstracts of Scientific/Technical papers not exceeding 300 words are to be submitted online (<http://www.kakatiya.ac.in/conference/tsc2025>) on or before 26<sup>th</sup> July 2025. Please indicate the theme of the session on the top right of the Abstract page to be considered for review. For, Special Themes other than Theme Sessions, need not submit the Abstracts, only participation with due registration is allowed.

### Registration Fee:

Category	On or before 30/7/2025	After 30/7/2025 & On the Spot
Students and Research Scholars	Rs. 1,000/-	Rs. 1,200/-
University / College Teachers	Rs. 2,000/-	Rs. 2,500/-
Scientists from National / R&D Labs	Rs. 3,000/-	Rs. 3,500/-
Industry Representatives	Rs. 5,000/-	Rs. 6,000/-



Registration Fee is to be paid by scanning the QR code given above for UPI payments or through NEFT to SBI Bank A/c No. 44100940249 at Kakatiya University Branch with IFSC code: SBIN0020262.

Online registration has to be done through the conference portal after fee payment. If the Registration Fee is not paid on or before 3<sup>rd</sup> August, 2025, those abstracts will not be included in the conference proceedings. If anybody is interested to attend the Science Congress without presenting a paper, he/she is also permitted to register by paying the above mentioned Registration Fee.

### Participation & Registration:

All the delegates who wish to participate in Telangana Science Congress-2025 must register. As this is a platform where people from several scientific/technical backgrounds will be participating, the participants are encouraged to register well within the cut-off dates.

### Accommodation:

The accommodation available in the Kakatiya University campus is very limited. There are several hotels in Warangal city. The details of which are available on the conference website.

**Contact for accommodation: Dr. Srinivas Munjam, Joint Secretary, TSC-2025, E-mail: [tsc-accom@gmail.com](mailto:tsc-accom@gmail.com); Mob: 9849574166**

### Sponsorship:

Sponsorship is requested from Industries, Companies, Government Organizations and Private Organizations to promote the TSC-2025.

Category	Tariff (Rs.)	Benefits
Conference Sponsor	2,00,000/-	One full page multi-color advertisement in the Souvenir and Five delegates free plus one complementary Stall
Lunch/Dinner/Reg. Kit	1,00,000/-	One full page multi-color advertisement in the Souvenir and two delegates free
Event Sponsor	50,000/-	One full page black and white advertisement in the Souvenir
High Tea	25,000/-	Half page black and white advertisement in the Souvenir

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IMPORTANT CUT-OFF DATES	
Online Abstract Submission	26 <sup>th</sup> July, 2025
Communication of Acceptance of Abstracts	30 <sup>th</sup> July, 2025
Payment of early Registration Fee	3 <sup>rd</sup> August, 2025