

*Proceedings of*

**3rd International Conference on Advances  
in Engineering and Medical Sciences 2026**

*Hybrid Conference*

*Organised by  
INTERNATIONAL SCHOOL OF  
TECHNOLOGY & SCIENCES, INDIA*

*Collaboration with  
Manipal University College , Malaysia*

*Samarkand State University, Uzbekistan*

*University of Technology and  
Applied Sciences, Ibri, Sultanate of Oman*

*April 17th & 18th, 2026*

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3rd INTERNATIONAL CONFERENCE ON  
**“ADVANCES IN ENGINEERING AND MEDICAL  
SCIENCES– 2026”**

(ICAEM - 2026) - APRIL 17<sup>th</sup> & 18<sup>th</sup> 2026

*ORGANIZED BY*

**INTERNATIONAL SCHOOL OF TECHNOLOGY AND  
SCIENCES FOR WOMEN (AUTONOMOUS)**

Approved by AICTE, New Delhi, Affiliated to JNTU, Kakinada

Accredited by NBA, NAAC, ISO

NH-16, East Gonagudem Rajanagaram, Rajhamundry East Godavari – 533294

<https://www.ists.ac.in/>

*In Association with*

**ORGANIZATION OF SCIENCE AND INNOVATIVE  
ENGINEERING & TECHNOLOGY (OSIET)**

Chennai, India

[www.ijsiet.org](http://www.ijsiet.org)

*In Collaboration*

**Samarkand State University**, Samarkand, Uzbekistan

[www.samdu.uz/en](http://www.samdu.uz/en)

&

# **MANIPAL UNIVERSITY COLLEGE, MALAYSIA**

Melaka, Malaysia

<https://manipal.edu.my>

&

**University of Technology and Applied Sciences**, Sultanate of  
Oman, Oman

<https://www.utas.edu.om/>

## **ICAEM 2026**

Proceeding of 2<sup>nd</sup> International Conference on Advances in Engineering and Medical Sciences

**17<sup>th</sup> & 18<sup>th</sup> APRIL, 2026**

**INTERNATIONAL COLLABORATION –**

**SAMARKAND STATE UNIVERSITY, UZBEKISTAN**

**UNIVERSITY OF TECHNOLOGY AND APPLIED SCIENCES, OMAN**

**MANIPAL UNIVERSITY COLLEGE, MALAYSIA**

### **Hybrid Conference:**

International School of Technology and Sciences for Women (Autonomous)

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Rajahmundry, Andhra Pradesh

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# NH-16, East Gonagudem, Rajanagaram (M), E.G.Dist, A.P.–533 294

**Sri K.Upender Reddy**

**Chairman , We are for You Society**



### MESSAGE

It is with great pleasure that I extend a warm welcome to all of you to the 3<sup>rd</sup> International Conference on Advances in Engineering and Medical Sciences.

This conference serves as a platform for the exchange of knowledge, ideas, and innovations at the intersection of engineering and medical sciences. As we gather here from around the world, we come together with a shared commitment to advancing human health and well-being through interdisciplinary collaboration and cutting-edge research.

The fields of engineering and medical sciences have witnessed remarkable advancements in recent years, thanks to the dedication and ingenuity of researchers, scientists, engineers, and healthcare professionals like yourselves. From breakthroughs in medical diagnostics and treatments to innovations in medical devices and technologies, our collective efforts have transformed the landscape of healthcare and improved countless lives.

I encourage each of you to actively participate in the sessions, workshops, and networking opportunities offered throughout the conference. Let us inspire and learn from one another as we explore new frontiers in engineering and medical sciences.

I wish you all fruitful discussions, valuable insights, and memorable experiences during the conference. May our time together be both enriching and inspiring as we work towards a future where engineering and medical sciences converge to create healthier, happier lives for all.



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**Ms V.Anusha**  
Vice Chairperson, We are for You Society



### MESSAGE

It is my honor to extend a warm welcome to all participants of the 3<sup>rd</sup> International Conference on Advances in Engineering and Medical Sciences.

I am thrilled to witness the gathering of brilliant minds from across the globe, all united by a common goal: to advance the frontiers of knowledge in the fields of engineering and medical sciences.

The convergence of engineering and medical sciences holds tremendous promise for revolutionizing healthcare delivery, improving patient outcomes, and addressing global health challenges. It is through collaborative efforts and interdisciplinary approaches that we can unlock this potential and drive meaningful change.

As we embark on this intellectual journey, let us remain committed to the principles of scientific inquiry, innovation, and ethical conduct. Let us leverage our collective knowledge and experiences to address the complex challenges facing healthcare and society at large.

I extend my sincere gratitude to the organizing committee, keynote speakers, presenters, sponsors, and volunteers for their dedication and hard work in making this conference possible. Your contributions are invaluable in shaping the success of this event and driving progress in our shared mission.

I wish you all a stimulating and productive experience during the proceedings of the conference. May our interactions lead to meaningful collaborations, groundbreaking discoveries, and lasting impact on the advancement of engineering and medical sciences.



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**Dr Y.Rajasree Rao**

**Principal**



### MESSAGE

It is with great pleasure that I welcome you to the proceedings of the 3<sup>rd</sup> International Conference on Advances in Engineering and Medical Sciences. As we gather here, we embark on a journey of discovery, innovation, and collaboration at the forefront of these two pivotal fields.

This conference serves as a platform for leading researchers, scholars, practitioners, and enthusiasts to exchange ideas, share insights, and explore the latest advancements in engineering and medical sciences. From groundbreaking research to transformative technologies, our collective efforts will shape the future of these dynamic disciplines.

I encourage you to actively engage in discussions, forge new connections, and leverage this opportunity to expand your knowledge and expertise. Together, let us push the boundaries of possibility and drive progress towards addressing the most pressing challenges facing our world today.

I extend my heartfelt gratitude to the organizing committee, sponsors, and all contributors for their dedication and support in making this conference possible. Your commitment to excellence ensures that this gathering will be a resounding success.

May this conference inspire innovation, foster collaboration, and pave the way for a brighter, healthier future for all.

Thank you, and I wish you fruitful deliberations.



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Mr Md Ahsaan Iqbal  
Administrative Officer



### MESSAGE

It is with great pleasure and anticipation that I extend a warm welcome to all attendees of the 3<sup>rd</sup> International Conference on Advances in Engineering and Medical Sciences.

As the Administrative Officer of this prestigious event, I am honored to witness the convergence of brilliant minds from around the globe to share insights, research findings, and innovations at the forefront of engineering and medical sciences.

This conference serves as a vital platform for interdisciplinary collaboration, where experts and enthusiasts alike come together to explore the latest advancements and breakthroughs shaping the future of our fields. From cutting-edge engineering solutions to revolutionary medical discoveries, each presentation and discussion promises to inspire and enlighten.

Our esteemed speakers and panellists have dedicated themselves to pushing the boundaries of knowledge and driving positive change in their respective domains. I encourage you all to actively engage with their presentations, participate in discussions, and seize the opportunity to network with fellow professionals and researchers.

As we embark on this enriching journey of knowledge exchange and collaboration, let us remain committed to fostering an atmosphere of mutual respect, curiosity, and innovation.

Once again, I extend my heartfelt welcome to each and every one of you. May this conference be a rewarding and memorable experience for us all.



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Ms K.Sowjanya

Convener

### MESSAGE

It gives me immense pleasure to be a part of this hosting team of “3<sup>rd</sup> International Conference on Advances in Engineering and Medical Sciences (ICAEM-2026)”. The conference intends to bring together scientists, engineers and practitioners from different disciplines to discuss concerns related to various computation techniques in Engineering and Medical Science.

I take this opportunity to welcome all the delegates of the conference. On behalf of whole ICAEM-2026 team, I would like to thank all the authors, sponsors and keynote speakers for their support and co-operation. The rapid development in technologies and changes in lifestyle impose various issues in many countries. The conference ICAEM-2026 has been crafted to challenge the hurdles and we are fortunate to have leading speakers to share their experience and perspectives to achieve smart solutions through their innovation.

I hope that the conference serves as a locus for interdisciplinary, a space for discourse and collaboration. I would like to express my wishes to the organizing committee for their dedicated efforts to materialize the conference. I hope all the participants will have a fruitful and beneficial experience.

Finally, I thank to our Management and Principal for their excellent support and also thank to all the Heads of various departments, faculty, student representatives and participants for their efforts in organizing and participating in this conference and wish the conference all the success.



The technology used in various fields of engineering is advancing at a tremendous pace every passing day. There has been a boom in the usage of internet and the demand for high speed access to video and data is ever increasing. 10 years before, 3G and 4G were a distant dream, but today a lot of research is going in the field of 5G as well. In such a scenario, organizing such a conference is of paramount importance. This will enable researchers from different domains to share their views on a common platform.

I would like to congratulate International school of Technology and Sciences for Women, Rajamahendravaram for taking such a promising initiative. This will not only help the students by opening the vistas of opportunities in various fields of engineering, but also promote learning and sharing of ideas for the faculty members. I am confident that this ICAME 2026 conference will indeed generate a lot of interest among the students to explore and pursue the area of research, thereby bringing laurels to your institute and developing our society as a whole.

**DR. FAISAL RASHID SALIM AL MARZUQI**  
**PROFESSOR (VISITING PROFESSOR - KWANGWOON UNIVERSITY, SOUTH KOREA)**  
**DEPARTMENT OF CHEMISTRY**  
**UNIVERSITY OF TECHNOLOGY AND APPLIED SCIENCES (UTAS), OMAN**



Dear Colleagues and Friends,

It is a great pleasure that ISTS is conducting 3<sup>rd</sup> International Conference on Advances in Engineering and Medical Sciences 2026 at Rajahmundry, AP.

This international conference aspires to provide a platform for researchers, academicians and other experts to share their views, experience and information on recent advances with colleagues and other working in field of modern technology and trends. I firmly believe that this conference will contribute towards betterment of industrial development, future development and eventually development of nation.

I extend my warm welcome to delegates of conference and I am sure the knowledge shared will propel the growth of new ideas. Finally, I take this opportunity to request you to actively participate to add the richness of this conference and make it memorable event.

I wish this conference a grand success.

**DR. P MARAN**  
**ASSOCIATE PROFESSOR, DEPARTMENT OF ECE**  
**AMRITA VISHWA VIDYAPEETHAM**  
**CHENNAI CAMPUS, TN, INDIA**

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## 3rd INTERNATIONAL CONFERENCE ON ADVANCES IN ENGINEERING AND MEDICAL SCIENCES 2026 (ICAEM)

### LIST OF PARTICIPATING ORGANIZATION/INSTITUTION/INDUSTRY

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2	LIVERPOOL JOHN MOORES UNIVERSITY, UK
3	ADITYA UNIVERSITY, SURAMPALEM
4	AISSMS INSTITUTE OF INFORMATION TECHNOLOGY, PUNE
5	AKSHAYA COLLEGE OF ENGINEERING AND TECHNOLOGY, COIMBATORE
6	AMET UNIVERSITY, CHENNAI
7	ANANTRAO PAWAR COLLEGE OF ENGINEERING & RESEARCH, PUNE
8	BANGALORE INSTITUTE OF TECHNOLOGY, BENGALURU
9	BASAVESHWAR ENGINEERING COLLEGE, BAGALKOTE
10	BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH, CHENNAI
11	CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD
12	CMR INSTITUTE OF TECHNOLOGY, BENGALURU
13	D.K.T.E'S TEXTILE AND ENGINEERING INSTITUTE, ICHALKARANJI
14	DWARKADAS J SANGHVI COLLEGE OF ENGINEERING, MUMBAI
15	ER.PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING, HOSUR
16	G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT, PUNE
17	GITAM UNIVERSITY, BANGALORE
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19	J.P. COLLEGE OF ENGINEERING, AYIKUDY
20	JEPPIAAR INSTITUTE OF TECHNOLOGY, CHENNAI
21	JERUSALEM COLLEGE OF ENGINEERING, CHENNAI
22	JSPM RSCOE, PUNE
23	JSPM'S BHIVARABAI SAWANT INSTITUTE OF TECHNOLOGY AND RESEARCH, PUNE
24	K S INSTITUTE OF TECHNOLOGY, BENGALURU
25	K. K. WAGH INSTITUTE OF ENGINEERING EDUCATION AND RESEARCH, NASHIK
26	KAMARAJ COLLEGE OF ENGINEERING AND TECHNOLOGY, VIRUDHUNAGAR
27	KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES, COIMBATORE

S.NO	INSTITUTION/ORGANISATION/INDUSTRY
28	KASEGAON EDUCATION SOCIETY'S RAJARAMBAPU INSTITUTE OF TECHNOLOGY, SAKHRALE
29	KIT'S COLLEGE OF ENGINEERING, KOLHAPUR (EMPOWERED AUTONOMOUS)
30	KL UNIVERSITY, VIJAYAWADA
31	MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCES, MADANAPALLE
32	MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY, DELHI
33	MGM'S COLLEGE OF ENGINEERING AND TECHNOLOGY, KAMOTHE
34	MPSTME, NMIMS UNIVERSITY, MUMBAI
35	NATIONAL ENGINEERING COLLEGE, KOVILPATTI
36	NAVKIS COLLEGE OF ENGINEERING, HASSAN
37	NEERJA MODI SCHOOL, JAIPUR
38	P.S.R ENGINEERING COLLEGE, SIVAKASI.
39	PES UNIVERSITY, BENGALURU
40	PILLAI COLLEGE OF ENGINEERING, NEW PANVEL
41	PIMPRI CHINCHWAD COLLEGE OF ENGINEERING, PUNE
42	PRASAD V. POTLURI SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU
43	PRAVARA RURAL ENGINEERING COLLEGE, LONI
44	R.H.SAPAT COLLEGE OF ENGINEERING MANAGEMENT STUDIES AND RESEARCH, NASHIK
45	R.M.D. ENGINEERING COLLEGE, KAVARAIPETTAI
46	RAJALAKSHMI ENGINEERING COLLEGE, CHENNAI
47	RAJEEV GANDHI MEMORIAL COLLEGE OF ENGINEERING AND TECHNOLOGY, NANDYAL
48	RAJIV GANDHI COLLEGE OF ENGINEERING, RESEARCH AND TECHNOLOGY, CHANDRAPUR
49	RAMAIAH INSTITUTE OF TECHNOLOGY, BENGALURU
50	RAMCO INSTITUTE OF TECHNOLOGY, RAJAPALAYAM
51	RV INSTITUTE OF TECHNOLOGY AND MANAGEMENT, BANGALORE
52	SACRED HEART COLLEGE, TIRUPATUR
53	SANJIVANI COLLEGE OF ENGINEERING, KOPARGAON
54	SANTHIRAM ENGINEERING COLLEGE, NANDYALA
55	UNIVERSITY OF MUMBAI (KALYAN SUB CENTER), KALYAN
56	SIDDHARTHA ACADEMY OF HIGHER EDUCATION DEEMED TO BE UNIVERSITY, VIJAYAWADA
57	SIDDHARTHA ACADEMY OF HIGHER EDUCATION, VIJAYAWADA
58	SILVER OAK UNIVERSITY, AHMEDABAD
59	SRINIVAS UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, MANGALURU

<b>S.NO</b>	<b>INSTITUTION/ORGANISATION/INDUSTRY</b>
60	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, CHENNAI
61	SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, KATTANKULATHUR CAMPUS
62	TRINITY ACADEMY OF ENGINEERING, PUNE
63	VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE, AP
64	VELAMMAL ENGINEERING COLLEGE, CHENNAI
65	VIDYA PRATISHTHAN'S KAMALNAYAN BAJAJ INSTITUTE OF ENGINEERING & TECHNOLOGY, BARAMATI
66	VIGNAN'S LARA INSTITUTE OF TECHNOLOGY AND SCIENCE, AP
67	VILASRAO DESHMUKH FOUNDATION GROUP OF INSTITUTIONS, LATUR
68	VISHNU INSTITUTE OF TECHNOLOGY, BHIMAVARAM
69	VVIT, GUNTUR