

ICAMGT '25

International Conference on
Advanced Materials and
Green Technologies

INNOVATIONS FOR A SUSTAINABLE FUTURE:
THE ROLE OF ADVANCED MATERIALS AND GREEN TECHNOLOGIES



DATE: JULY 23-26, 2025

PRE-CONFERENCE WORKSHOPS: JULY 23, 2025

VENUE: AMRITA VISHWA VIDYAPEETHAM,
AMRITANAGAR, COIMBATORE



[Click or
Scan here](#)

Organized by

Department of Chemical Engineering and Materials Science
&

Center of Excellence in Advanced Materials and Green Technologies (CoE - AMGT)
Amrita School of Engineering, Coimbatore

ABOUT THE CONFERENCE

ICAMGT - 2025 will explore the theme “**Innovations for a Sustainable Future: The Role of Advanced Materials and Green Technologies**”. The main purpose of the conference is to provide a platform for dialogue and collaborations between researchers, academicians, industry professionals and policy makers to deliberate upon the most pressing environmental challenges of our time. **ICAMGT - 2025** invites you to join leading experts and innovators in advanced materials and green technologies from around the world.

[Click here to visit the conference webpage](#)

THEMATIC AREAS

MATERIALS AND PROCESS DESIGN



CLEAN ENERGY



SUSTAINABLE RESOURCE MANAGEMENT



POLYMERS, COMPOSITES, AND BIOMATERIALS



CONFERENCE HIGHLIGHTS

- **Academia-Industry-Policy Connect:** Connect with distinguished researchers, academicians, industry professionals, policymakers and thought leaders shaping the future of Materials and Green Technologies
- **Industry Pavilion:** Provides a platform for industries to showcase their products, technologies and challenges, and build academia-industry collaborations
- **Academic Pavilion:** Provides a platform for educational and research institutions across the world to exhibit their contributions and present opportunities for aspiring students and for collaborations
- **Pre-conference Workshops:** Hands-on workshops related to the thematic areas of the conference

1. Electrochemical Techniques for Energy, Environment & Sustainability

Learn how electrochemical techniques are used to design, evaluate and validate new materials for energy, environmental and sustainability applications! With practical hands-on demos, data analysis and interpretation exercises!

Offered by:



Dr. Arunachala Mada Kannan
Arizona State University,
Arizona, US



Dr. Murali Rangarajan
Amrita Vishwa
Vidyapeetham, Coimbatore



Dr. Thirugnasambandam G M
Amrita Vishwa
Vidyapeetham, Coimbatore

2. Solar Energy Conversion and Storage

Solar energy systems, such as photovoltaic (PV) panels and solar thermal power plants, convert sunlight into electricity or heat for domestic applications. This workshop will demonstrate the latest technologies and processes available for the efficient conversion and storage of solar energy.

Offered by:



Dr. K Kalyanasundaram
École Polytechnique Fédérale de
Lausanne (EPFL), Lausanne,
Switzerland



Dr. D. Kumaresan
Amrita Vishwa Vidyapeetham,
Coimbatore

03

GOOD HEALTH
AND WELL-BEING



04

QUALITY EDUCATION



06

CLEAN WATER
AND SANITATION



07

AFFORDABLE
AND CLEAN ENERGY



09

INDUSTRY, INNOVATION
AND INFRASTRUCTURE



11

SUSTAINABLE CITIES
AND COMMUNITIES



12

RESPONSIBLE
CONSUMPTION AND
PRODUCTION



13

CLIMATE ACTION

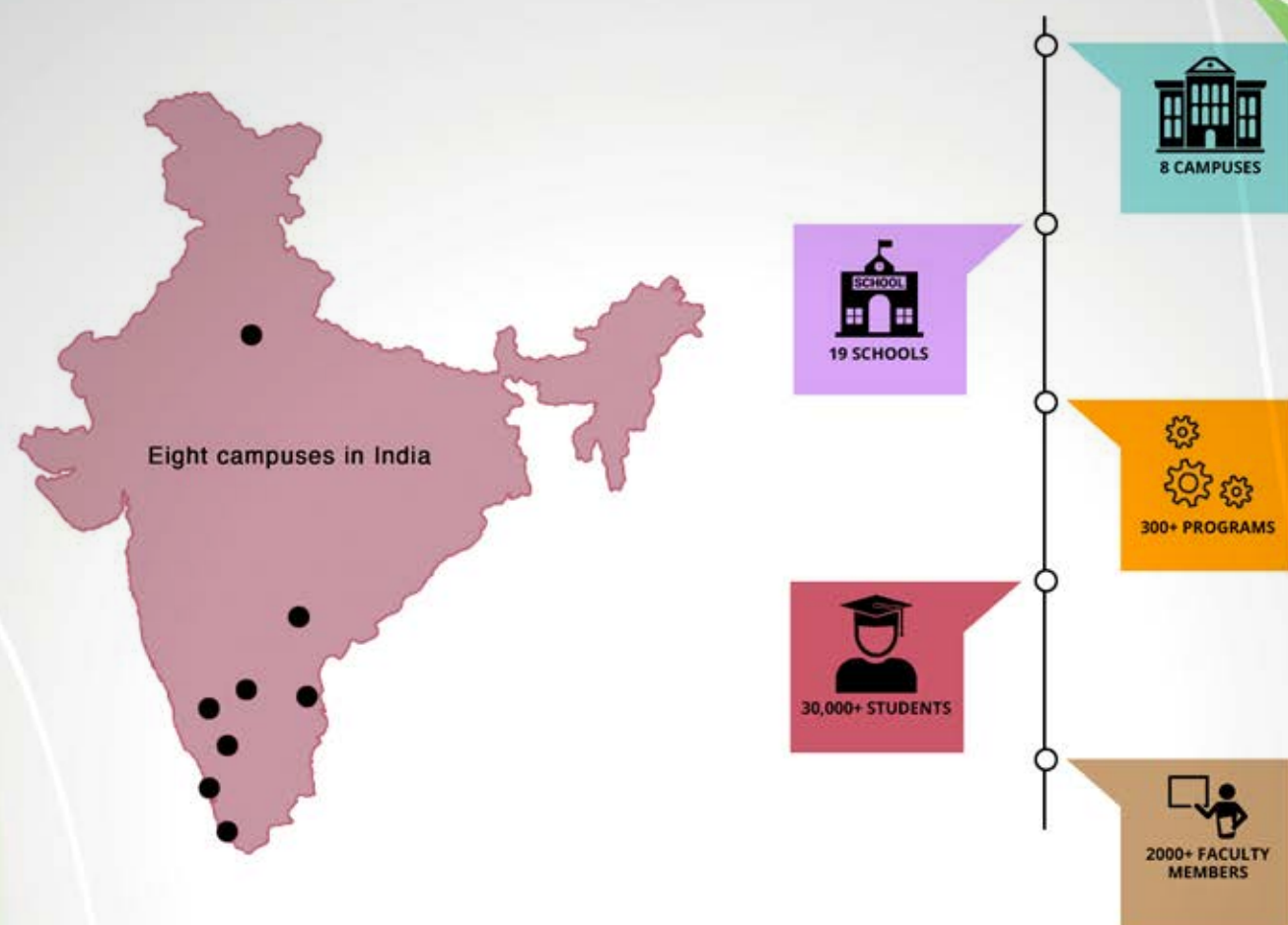


17

PARTNERSHIPS
FOR THE GOALS



EDUCATION FOR LIFE | EDUCATION FOR LIVING



nirf
GOVT. OF INDIA
7TH RANKED 2024
UNIVERSITY IN INDIA

NAAC A++
ACCREDITED

CATEGORY 1
GRADED AUTONOMY
UGC, GOVT. OF INDIA

No.1 THE
WORLD UNIVERSITY
RANKINGS 2020

No.1 THE
IMPACT
RANKINGS 2024

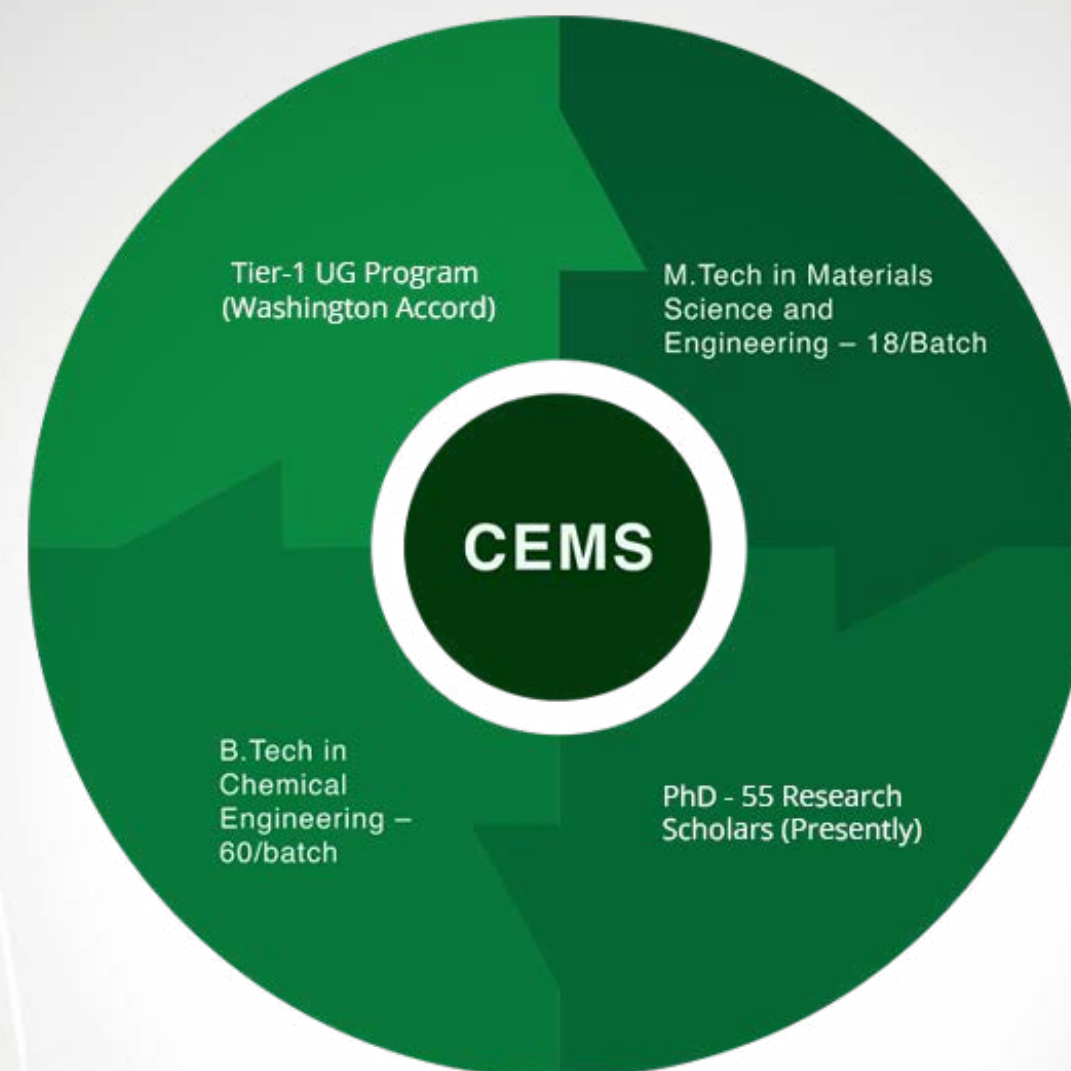
No.1 THE
WORLD UNIVERSITY
RANKINGS 2020



[WEBSITE](#)

DEPARTMENT OF CHEMICAL ENGINEERING AND MATERIALS SCIENCE

The department of Chemical Engineering and Materials Science (**CEMS**) has a strong focus on undergraduate and post-graduate education, with emphasis on socially conscious research. The Department has a Tier-1 (Washington Accord) undergraduate program in Chemical Engineering, accredited by the National Board of Accreditation (NBA). The department has significant research strength in the design & synthesis of next generation materials (with application in energy and sustainability technologies) and process intensification.



Scan the QR code/click the hyperlink to visit the department website and social media pages



[WEBSITE](#)



[LINKEDIN](#)

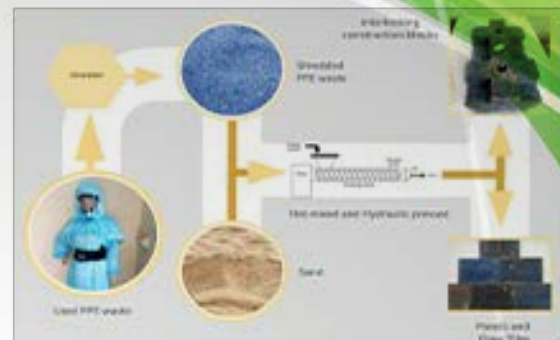


[INSTAGRAM](#)

Products from Department of CEMS



Solar-Powered Lemongrass Oil Distillation



Used PPE Kits in Construction Blocks, Panels, Tiles



Pressure-Swing-Adsorption-Based Oxygen Concentrator



Reusable, Natural Banana-Fiber-Based Sanitary Pads

Scan the QR code/click the hyperlink to visit the department website and social media pages



[WEBSITE](#)



[LINKEDIN](#)



[INSTAGRAM](#)

The department faculty, along with an interdisciplinary team, set up the Center of Excellence in Advanced Materials and Green Technologies (CoE-AMGT), with funding from the Ministry of Education in 2013. The center houses world-class research facilities enabling the design and development of advanced functional materials and sustainable technologies.

Research from Department of CEMS & CoE-AMGT



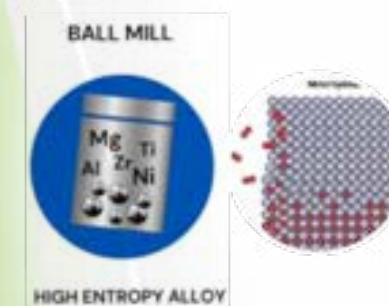
Nanomaterial based & Porous concrete filters for metal removal



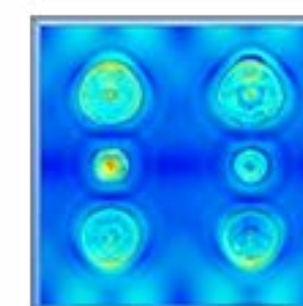
Real-Time Electrochemical/ Gas Sensors



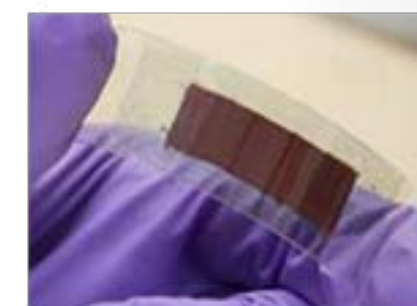
Integrated Microchannel HX/Reactors



Alloys & composites for Hydrogen Storage



Metamaterial Coatings



Screen-Printed Dye-Sensitized Solar Cells



Polymer Nanocomposites for Space and Nuclear Applications



Packed bed electrochemical reactors and AEM Water Electrolyzers

Scan the QR code/click the hyperlink to visit the Center website



[WEBSITE](#)

INVITED SPEAKERS



Dr. Arunachala Mada Kannan
Arizona State University,
Arizona, US



Dr. P. V. Aravind
University of Groningen,
Groningen, Netherlands



Dr. Ravi Subramanian
University of Nevada, Reno,
Nevada, US



Dr. Pankaj Kumar Patro
Bhabha Atomic Research
Centre (BARC),
Mumbai, Maharashtra, India



Dr. Hari Ganesh
Indian Institute of
Technology Gandhinagar (IIT
Gandhinagar), Gujarat, India



Dr. Aravind Kumar Chandiran
Indian Institute of Technology Madras
(IIT Madras), Tamil Nadu, India



Mr. Renji Issac
Senior VP and Head of R&D and
Technology, CEAT Tyres



Dr. Kandam Ramanujachary
Rowan University, New
Jersey, US



Dr. Arumugam Sathashivan
Western Sydney University,
New South Wales, Australia



Dr. Venkata Krishnan
Indian Institute of Technology
Mandi (IIT Mandi),
Himachal Pradesh, India



Dr. Mayavan Sundar
Council of Scientific and Industrial
Research - Central Electrochemical
Research Institute Sivaganga,
Tamil Nadu, India



Dr. A Manuel Stephan
Council of Scientific and Industrial
Research - Central Electrochemical
Research Institute, Sivaganga,
Tamil Nadu, India



Dr. Sabu Thomas
Mahatma Gandhi (MG)
University, Kottayam,
Kerala, India



Dr. K Kalyanasundaram
École Polytechnique Fédérale de
Lausanne (EPFL), Lausanne,
Switzerland



Dr. S. Selvasekarapandian
Managing Director, Materials
Research Center, Coimbatore,
Tamil Nadu, India



Dr. Malini R
Council of Scientific and Industrial
Research - Central Electrochemical
Research Institute Sivaganga,
Tamil Nadu, India



Dr. Syed Dastager
Council of Scientific and Industrial
Research - National Chemical Laboratory
(CSIR-NCL) Maharashtra, India



Dr. Prasanth Raghavan
Cochin University of Science and
Technology, Kochi, Kerala, India



Dr. Vijay Kumar Thakur
Scotland's Rural College
(SRUC), Edinburgh, UK



Dr. Selvaraju Narayanasamy
Indian Institute of Technology,
Guwahati (IIT Guwahati),
Assam, India



Dr. Rajesh Kumar Upadhyay
Indian Institute of Technology
(Banaras Hindu University)
Varanasi, Uttar Pradesh, India



Dr. Prashantha Kalappa
Adichunchanagiri University,
Mandya, Karnataka, India



Dr. N Ponpandian
Bharathiar University,
Coimbatore, Tamil Nadu, India



Dr. Senthil Kumar P.
Pondicherry University,
Puducherry, India



Dr. Ragupathy Dhanusuraman
Pondicherry University,
Puducherry, India



Dr. Kaushik Ghosh
Institute of Nano Science and
Technology, Mohali, Punjab, India



Dr. Anand Narayanan Krishnamoorthy
Computational Science Researcher,
Shell, Bengaluru, Karnataka, India



Dr. Kokulnathan Thangavelu
National Taipei University of
Technology, Taipei city, Taiwan

CALL FOR PAPERS

The technical sessions will include oral/poster presentations in each of the thematic areas. Individuals interested in presenting their work are requested to submit an extended abstract.

[Please click here for the extended abstract template](#)

Scope: In each of the thematic areas, papers are invited on novel materials and/or technologies related to:

Clean Energy

- Batteries
- Supercapacitors
- Hydrogen
- Fuel Cells
- Waste to Fuel
- Solar Energy
- Wind Energy

Sustainable Resource Management

- Sensors
- Water Treatment
- Waste Management
- Circular Economy
- Air Quality Management
- Life Cycle Assessment (LCA)
- Decarbonization
- Carbon Capture, Utilization, and Storage (CCUS)

- Process Intensification & Optimization
- Process Simulation
- Catalysis and Reaction Engineering
- Computational Materials Science
- Multiscale Modeling
- AI/ML Techniques
- Multiphysics Systems
- Scientific Computing & Large Data

Materials and Process Design

- Polymers in Energy
- Polymers in Medical Application
- Smart Polymers
- Polymer Upcycling and Sustainability
- Computation and Modelling in Polymers
- Nano and Multiscale Composites
- Soft Matter
- Biomaterials

Polymers, Composites, and Biomaterials

REGISTRATION DETAILS*

CATEGORY	CONFERENCE	PRE-CONFERENCE WORKSHOPS
Students (India) – Attendee/Presenter	₹3,500/5,000	₹500
Students (International) - Offline/Online	\$150/\$80	\$50
Academics (India) – Attendee/ Presenter	₹4,000/₹8,000	₹500
Academics (International)	\$400	\$50
Industry and Non-Academic Professionals – India/International	₹15,000/\$750	1,000/\$50

***Exclusive of all taxes**
Food, including Banquet Dinner included
Accommodation not included

Important Instructions to Conference Participants:

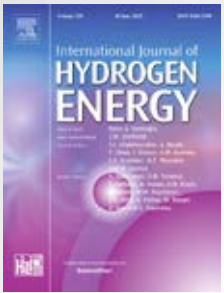
- Students and academics are required to submit a certificate or valid ID card from the affiliated academic institution.
- The student rates will be applicable for undergraduate, Masters and PhD students.
- Participants who wish to attend only as attendees (not presenting) may directly register using the link/QR code and pay the registration fees.
- Participants presenting papers are required to first submit their extended abstract to**
- Once they receive an email notification that their extended abstract is shortlisted, they can officially register for the conference using the link/QR code and pay the registration fees.**
- Each registered candidate may present a maximum of 2 papers



[Please scan the QR Code/click the hyperlink for registration](#)

PUBLICATIONS/IMPORTANT DATES

The decision regarding the acceptance of the abstract will be communicated after peer review by technical experts in the thematic area. Accepted abstracts presented in the conference will be eligible for submission as full-length manuscripts in the special issues of the Springer Journal “**Environmental Science and Pollution Research**”, IOP Journal “**Journal of Physics D: Applied Physics**” and Elsevier Journal “**International Journal of Hydrogen Energy**” for publication. Following their presentation at the conference, authors of selected abstracts will be notified regarding the journal designated for submission of their full-length papers. We are in discussions with other leading journals in the relevant domains for publication of special issues. As and when the special issues are approved, this section will be updated.



International Journal of
Hydrogen Energy
(Elsevier | Q1 | Impact
Factor: 8.1 | 95
percentile)



Environmental Science
and Pollution Research
(Springer Nature|Q1|
Impact Factor: 5.8 | 83
percentile)



Journal of Physics D:
Applied Physics (IOP
Science | Impact Factor:
3.1 | CiteScore: 6.8 | Q1
as per Cite Score)

The following are the windows for submission of full-length papers:

- Environmental Science and Pollution Research
Submission window opens on July 31, 2025, and closes on October 31, 2025
- Journal of Physics D: Applied Physics
Submission window opens on July 31, 2025, and closes on October 31, 2025
- International Journal of Hydrogen Energy
Submission can start immediately after the end of the Conference

IMPORTANT DATES

Last Date for Early Bird Abstract Submission	April 15, 2025
Last Date for Abstract Submission	June 30, 2025 July 10, 2025
Last Date of Registration	July 15, 2025
Abstract Acceptance Decisions	July 08, 2025* July 15, 2025
Pre-Conference Workshops	July 23, 2025
Dates of Conference	July 24-26, 2025

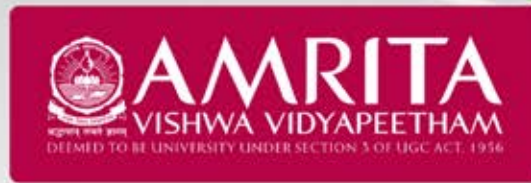
*Early submissions will be notified of their selection at an early date

CONTACT DETAILS

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