

ICAMGT 2025 – Conference Schedule

Day 1	Time	Session	Speaker/Presenter	Topic/Title	Authors Name	Location	Session Chair	Faculty Coordinator
24.7.2025	08:30 – 09:30 AM	Registration				Amriteswari Hall		Mr. Mohankumar Govindaraj 9524420956
	9.30- 10.45 AM [1hr.15 min]	Inauguration				Amriteswari Hall		Dr. Meera Balachandran 94436 56597
	9.30 – 9.35 am	Dignitaries occupy respective seats on the dais Dr. P. Ajith Kumar, Registrar Dr. Sasangan Ramanathan, Dean Engineering Dr. Sabu Thomas (Guest of Honour) Shri. Renji Isaac (Guest of Honour) Dr. Nikhil K Kothurkar, Chairperson, CEMS Dr. Murali Rangarajan, Head, CoEAMGT						
	9.35 – 9.40 am	Prayer						
	9.40 – 9.45 am	Lighting of the lamp						
	9.45 – 9.55 am	Welcome address by Dr. Nihil K Kothurkar, Chairperson, Department of Chemical Engineering and Materials Science						
	9.55 – 10.10 am	Overview of Department of Chemical Engineering and Materials Science and Centre of Excellence in Advanced Materials and Green Technologies by Dr. Murali Rangarajan, Head, CoEAMGT						
	10.10– 10.20 am	Presidential Address by Dr. Sasangan Ramanathan, Dean Engineering, Amrita Vishwa Vidyapeetham						
	10.20–10.30 am	Felicitation by Dr. Ajith Kumar P, Registrar, Amrita Vishwa Vidyapeetham						
	10.30–10.35 am	Release of Conference Proceedings						
	10.35–10.40 am	Vote of Thanks by Conference Convener, Dr. K. Nithya						
	10.50 – 11.25 AM [35 mins]		Plenary Talk 1 Dr. Sabu Thomas (Mahatma Gandhi (MG) University, Kottayam, Kerala, India)	New Opportunities in Sustainable and Green Bio-nanomaterials and their polymer Bio-Nanocomposites: A Circular Economy Approach		Amriteswari Hall		
	11:25 - 11.45 AM [20 mins]	Tea Break						
	11. 45 – 12.20 PM [35 mins]		Plenary Talk 2 Mr. Renji Issac, (Senior VP and	Tyre Sustainability, Challenges and Role of Materials.		Amriteswari Hall		

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			Head of R&D and Technology, CEAT Tyres)					
	12.20- 12.55 PM [35 mins]		Plenary Talk 3 Dr. P V Aravind (University of Groningen, Groningen, Netherlands)	North Netherlands Hydrogen Valley and Academic Partnership Opportunities		Amriteswari Hall		
	12.55- 01.55PM [1 hr]	Lunch Break						
Track CE	02.00 – 02.30 PM [30 mins]		Plenary Talk 5 Dr. Venkata Krishnan (Indian Institute of Technology Mandi Himachal Pradesh, India)	Development of Efficient Heterogeneous Catalysts for Transfer Hydrogenation, Carbon Dioxide Conversion and Plastic Upcycling Reactions		E-101 (AB-1)	Session Chair: Dr. Venkata Krishnan and Dr. N Ponpandian	Faculty coordinator Dr. Duraisamy Kumaresan 9443979100 Student Coordinators Aswathy, Jakul
	02.30-03.00 PM [30 mins]		Plenary Talk 6 Dr. N Ponpandian (Bharathiar University, Coimbatore, Tamil Nadu, India)	Engineered NiV Layered Double Hydroxides as Electrocatalysts for Near-Neutral Water Splitting		E-101 (AB-1)		
	03.00-03.15 PM		Amrita Spotlight	Dr. Thirugnasambandam G. Manivasagam		E-101 (AB-1)		
	03.15-03.30 PM [15 mins]	Tea Break						
CE: Session 1	03.30– 03.45 PM [15 mins]	ICAMGT2025_77_CE13		Solvent-Driven WS2 - FexSy hybrid structures: A Mushroom-Like Catalyst for Bifunctional Water Splitting	Anupama A, M. Junaid Bushiri	E-101 (AB-1)	Session Chair: Dr. Venkata Krishnan	Faculty Coordinator: Dr.Duraisamy Kumaresan 9443979100
	03.45-04.00 PM [15 mins]	ICAMGT2025_95_CE17		Circular Economy: Co-Processing Bio-Sludge as An Alternative Fuel in Energy Intensive Industries	S. Rajendrakumar	E-101 (AB-1)		Student Coordinators Aswathy, Jakul
	04.00-04.15 PM [15 mins]	ICAMGT2025_44_CE07		Ultra-lean hydrogen combustion in a micro-mixing micro combustor: flame stabilization study	Sreejith S, Ratna Kishore Velamati	E-101 (AB-1)		

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	04.15 -04.30 PM [15 mins]	ICAMGT2025_51_CE08		Impact Of Cd Substitution on Structural and Electrochemical Properties of Liti2 (Po4)3 As Solid Electrolyte Materials for Lithium-Ion Batteries	Kumara Dhas M	E-101 (AB-1)		
Poster Session	04.30-6.00 PM [1 hr 30 min]		Poster Judging and Assessment	ICAMGT2025_52_CE09 ICAMGT2025_71_CE12 ICAMGT2025_83_CE15 ICAMGT2025_119_CE23 ICAMGT2025_132_CE24 ICAMGT2025_141_CE27 ICAMGT2025_146_CE28 ICAMGT2025_13_CE04	Dinesh K, S Ajith Kumar, Gopika Gopakumara; R Resmi; Aadhi A, Sudip K Batabyal; Alagarsamy Pandikumar; Saravanan Sekar; Adithya C Anand, R. B. Rakhi; Srudhi Sankar, Senthilkumar, Ramasamy Reshmi Basak, Sudharshan Rayal	Seminar Hall 1	Session Chair: Dr. Thirugna-sambandam GM	Faculty Coordinator: Harsha Dinesh, 8921523211 Bhalambhiga, 9566541769 Srudhi Sankar 8943249797
CE: Session 2	03.30– 03.45 PM [15 mins]	ICAMGT2025_96_CE18		Coupled Electrical and Electrochemical Properties of Ni-Co Spinel Ferrite: Influenced Cation Substitution on Hopping Dynamics, Interfacial Polarization and Redox Activity	Sharanappa Chapi A, Murugendrappa M. V., Jyothi A goudar	E-101A (AB-1)	Session chair: Dr. N Ponpandian	Faculty Coordinator: Dr. Thirugnasambandam G. M, 9597444677 Student Coordinators Anu maria, Thangagomathi
	03.45-04.00 PM [15 mins]	ICAMGT2025_104_CE20		Hierarchical Zinc Oxide Nanorods Humidity Sensors Powered by Dye-Sensitized Solar Cells for Indoor Applications	Dr. Duraisamy Kumaresan	E-101A (AB-1)		
	04.00-04.15 PM [15 mins]	ICAMGT2025_202_CE48		Self-Powered Zn–Ag Composite Electrode-Based Flexible Rechargeable Battery Integrated with a Flexible DyeSensitized	Punathil Vasu Suneesh S.Vibavakumar	E-101A (AB-1)		

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				Solar Cell for Biomedical Microdevices				
	04.15 -04.30 PM [15 mins]	ICAMGT2025_134_CE2 5		Fluorine Doped β -Ni(OH) ₂ for Conversion and Energy Storage Applications.	Madeshwaran Mohanraj K.S. Rajni M. Ulaganathan	E-101A (AB-1)		
	04.30-4.45 PM [15 mins]	ICAMGT2025_138_CE2 6		Architectural Design of V ₂ O ₅ /Co ₃ O ₄ Nanocomposite: Enhancing Supercapacitor Performance Through Synergistic Interactions	Divyalekshmi S V Xavier T S	E-101A (AB-1)		
	04.45-05.00 PM [15 mins]	ICAMGT2025_07_CE03		Enhancement of Solar Panel Performance Through Iron-Filled Phase Change Material Composites: Thermal Storage and Efficiency Analysis	Karthik. M K	E-101A (AB-1)		
Poster Session	05.00-06.00 PM [1 hr]		Poster Judging and Assessment	ICAMGT2025_150_CE30 ICAMGT2025_151_CE31 ICAMGT2025_154_CE33 ICAMGT2025_196_CE43 ICAMGT2025_198_CE45 ICAMGT2025_204_CE49	D. Infant Jency, S., Esakki Muthua; Saravanan Sekar; Punnya; Janella Mariam Samuel, Punathil Vasu Suneesh; Architha M Punathil Vasu Suneesh; S. Sindhu	Seminar Hall 1	Session Chair: Dr. Thirugna-sambandam GM	Faculty Coordinator: Harsha Dinesh, 8921523211 Bhalamphiga,956654176 9 Srudhi sankar 8943249797
Track SRM	01.55 – 02.25 PM [30 mins]		Plenary Talk 4 Dr. Ravi Subramanian (University of Nevada, Reno, Nevada, US)			Sandeepa ni Hall (AB-2)	Session Chair: Dr. Senthil Kumar P. and Dr. Selvaraju	Faculty Coordinator: Amal G.S 9446971740

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	02.25 – 02.55 PM [30 mins]		Plenary Talk 7 Dr. Senthil Kumar P. (Pondicherry University, Puducherry, India)	A Sustainable Approach on the Removal of Emerging contaminants from water environment		Sandeepa ni Hall (AB-2)	Narayanasa my	
	02.55-03.25 PM [30 mins]		Plenary Talk 8 Dr. Selvaraju Narayanasamy (Indian Institute of Technology, Guwahati (IIT Guwahati), Assam, India)	Water Purification Technologies from Lab-Scale to Pilot-Scale		Sandeepa ni Hall (AB-2)		
	03.25-03.40 PM [15 mins]		Amrita Spotlight	Dr. Murali Rangarajan		Sandeepa ni Hall		
	03.40-03.55 PM [15mins]	Tea Break						
SRM Session 1							Session Chair: Dr. P. Senthil Kumar	Faculty coordinator: Amal G.S 9446971740
	03.55 – 04.10 PM [15 mins]	ICAMGT2025_41_SRM 18		Deep Eutectic Solvent mediated ZnO, Ag-ZnO, CuO-ZnO and Ag-CuO-ZnO for waste water treatment	Malavika Sajith Sreedha Sambhudevana	Sandeepa ni Hall (AB-2)		Student Coordinators Manoj
	04.10 – 04.25 PM [15 mins]	ICAMGT2025_115_SR M49		Enhanced Removal of Diclofenac from Aqueous Solution using Chemically Activated Biochar derived from Beetle Nuts husk	Satyajeet Arya M.G. Sujana	Sandeepa ni Hall (AB-2)		
	04.25-04.40 PM [15 mins]	ICAMGT2025_126_SR M52		Mos2-Tio2 Nanocomposites: Growth, Manufacturing, And Evaluation for Wastewater Treatment Application	Mohd. Zubair Ansari	Sandeepa ni Hall (AB-2)		

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	04.40 – 04.55 PM [15 mins]	ICAMGT2025_110_SR M47 (Spot registration)		Transformative Copolymeric Hydrogel Technologies for Industrial Wastewater Dye Abatement	Dhanya K R, Prasanth Raghavan	Sandeepa ni Hall (AB-2)		
	04.55 – 05.10 PM [15 mins]	ICAMGT2025_25_SRM 08		Enhancing Selectivity in Trace-Level Air Pollutant Detection Using Defect-Engineered TaS ₂	Guruprasad Gorthala	Sandeepa ni Hall (AB-2)		
Poster Session	05.00-06.00 PM [1 hr]		Poster Judging and Assessment	ICAMGT2025_14_SRM04 ICAMGT2025_20_SRM06 ICAMGT2025_24_SRM07 ICAMGT2025_32_SRM12 ICAMGT2025_35_SRM14 ICAMGT2025_66_SRM22 ,	Reshmi Basak, Sudharshan Rayal; Harikrishnan.V;Dr. Murali K, Kavya C S; Krishnendhu Vinoy, Haripriya Ravikumara; Dr. Anil Kumar S.; Indumathi Mullaiselvan	Seminar Hall 1	Session Chair: Dr. Murali Rangarajan	Faculty Coordinator: Harsha Dinesh, 8921523211 Bhalamphiga,956654176 9 Srudhi sankar 8943249797
SRM Session 2	03.55 – 04.10 PM [15 mins]	ICAMGT2025_38_SRM 17		AI-Powered Population Growth and Resource Demand Forecasting Model	Sriya Nistala	Saraswati Hall (AB-2)	Session Chair: Dr. Selvaraju Narayanasa my	Faculty Coordinator:Mr. Hareesh Padayath 7506245873
	04.10 – 04.25 PM [15 mins]	ICAMGT2025_92_SRM 38		Unveiling Hidden Pollutants: An Environmental Forensics Approach to Water Contamination	Davala Tejeswara Rao Geena Prasad	Saraswati Hall (AB-2)		Student Coordinators Adhithya
	04.25-04.40 PM [15 mins]	ICAMGT2025_94_SRM 40		Enhancement Of Anti-Oxidant Activity in Fabaceae Family Upon Exposure to Ionised Species	Prasanna Ramani Amrita Harikumar Vijayakumari	Saraswati Hall (AB-2)		
	04.40 – 04.55 PM [15 mins]	ICAMGT2025_29_SRM 11		Ecological risk assessment of Chemical and metal contamination in various mangrove cultivation of Udupi,Uttara Kannada and Dakshina Kannada State, Karnataka, India	Dr.Murali K, Kavya C S	Saraswati Hall (AB-2)		

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	04.55 – 05.10 PM [15 mins]	ICAMGT2025_46_SRM 19		Community Mapping: Socio-Economic Dimensions of Urban Air Pollution in Kochi	Harikrishnan Dr. Jyothi S N, Abhinav	Saraswati Hall (AB-2)		
Poster Session	05.00-06.00 PM [1 hr]		Poster Judging and Assessment *(Each poster evaluation 7 mins)	ICAMGT2025_69_SRM24 ICAMGT2025_93_SRM39 ICAMGT2025_124_SRM50 ICAMGT2025_129_SRM54 ICAMGT2025_131_SRM55 ICAMGT2025_203_SRM80	Amrita Thakur; Ayona Jayadev, Geena Prasad, Polamada Adithya; Jeyavishnu B; Suraj Sharma; Ayona Jayadev, Geena Prasad, Tejeswara Rao D; Saravanan R	Seminar Hall 1	Session Chair: Dr. Murali Rangarajan	Faculty Coordinators: Harsha Dinesh, 8921523211 Bhalamphiga,956654176 9 Srudhi sankar 8943249797
Track MPD	02.30 – 03.00 PM [30 mins]		Plenary Talk 9 Dr. Rajesh Kumar Upadhyay (Indian Institute of Technology (Banaras Hindu University) Varanasi, Uttar Pradesh, India)	Process Intensification Approaches for Hydrogen Production in Reformation Systems		E-103 (AB-1)	Session Chair: Dr. Rajesh Kumar Upadhyay and Dr. Uday Bhaskar Reddy Ragula	Faculty Coordinator: Dr. Krishnaprasad 9443460815
	03.00 – 03.15 PM [15 mins]		Amrita Spotlight	Dr. Udaya Bhaskar Reddy Ragula		E-103 (AB-1)		
MPD Session 1	03.15 – 03.30 PM [15 mins]	ICAMGT2025_45_MPD 11(MPD2)		Physics informed Machine Learning interatomic models for metal hydride materials	Archa Santhosh	E-103 (AB-1)	Session Chair: Dr. Rajesh Kumar Upadhyay	Faculty Coordinator: Dr. Krishnaprasad 9443460815
	03.30 – 03.45 PM [15 mins]	Tea Break						
MPD Session 1	03.45 – 4.00 PM [15 mins]	ICAMGT2025_122_MP D22		Catalytic CO Oxidation from Diesel Engine Exhaust Over Dip-Coated Fe/Ni-Doped Cumnox on Ceramic Monoliths	Tarak Mondal Venkateswara Rao Bella	E-103 (AB-1)		Student Coordinators Tejas Bhat, Souparnika
	04.00 – 04.15 PM [15 mins]	ICAMGT2025_155_MP D28		Phase Field Model for Fracture Analysis of Laminate Composite in	Om Prakash Prabhakar Somnath Bhattacharyaa	E-103 (AB-1)		

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				Mixed Mode with Non-linear Time Dependent Load				
	04.15 – 4.30 PM [15 mins]	ICAMGT2025_167_MP D31 (MP3)		Production of Methanol from Natural Gas by Direct Method By the ZSM-5 Based Catalysts	Shyam Sunder Rao, Rajesh Kumar Upadhayay	E-103 (AB-1)		
	04.30 – 4.45 PM [15 mins]	ICAMGT2025_184_MP D34		Machine Learning Material Heterogeneity at Micro-scale	Archit Harish Suman Dutta	E-103 (AB-1)		
Poster Session	4.45 - 6.00 PM [1 hr]		Poster Judging and Assessment *(Each poster evaluation 7 mins)	ICAMGT2025_06_MPD01 ICAMGT2025_42_MPD09 ICAMGT2025_61_MPD15 ICAMGT2025_80_MPD19 ICAMGT2025_156_MPD29	Indrajith N, Dr. Shalini Viswanathana; Balaji C Naveen Anthuvan Ra; Dr. Shinu M. R.; Vamsi Krishna Chalasani, Dr. Smita Singh; Amruthavarshini V.	Seminar Hall 1	Session Chair: Dr. Udaya Bhaskar Reddy Ragula	Faculty Coordinators: Harsha Dinesh, 8921523211 Bhalamphiga, 956654176 9 Srudhi Sankar 8943249797
MPD Session 2	03.15 – 03.30 PM [15 mins]	ICAMGT2025_08_MPD 07		Wire Arc Additive Manufacturing: Numerical and Experimental Insights on Developing A Thin Rectangular Plate	Anand H, A Sumesh	E-103A (AB-1)	Session Chair: Dr. Udaya Bhaskar Reddy Ragula	Faculty Coordinator: Dr. Senthil Kumar 9585534354
	03.30 – 03.45 PM [15 mins]	Tea Break						
	03.45 – 4.00 PM [15 mins]	ICAMGT2025_60_MPD 14		Zero Trust Implementation in Interconnected Networks using Centralized Trust Broker	Dr. Shinu M. R.	E-103A (AB-1)		Student Coordinators Aravindh, Aswin
	04.00 – 04.15 PM [15 mins]	ICAMGT2025_64_MPD 17		Engineering of Co-MOF Nanocrystals on Spatially Interconnected ITO Nanoparticles for current bottlenecks of electrocatalysts	Brindha Devi Sankar Jrjeng Ruan	E-103A (AB-1)		
	04.15 – 4.30 PM [15 mins]	ICAMGT2025_173_MP D32		Development Of Cnt-Incorporated Ptt/Pp Blends for Enhanced Electromagnetic	Dr. R. Varadhaseshan	E-103A (AB-1)		

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				Interference Shielding Performance				
	4.30 - 4.45 PM [15 mins]	ICAMGT2025_08_MPD 02		Enhancing The Longevity of Drill Pipes: The Role of Nanoparticle-Enhanced Drilling Muds in Erosion Control	Dhanush Eshwar Smita Singh P Upendra Taraka Sai	E-103A (AB-1)		
Track PCB	02.30 – 03.00 PM [30 mins]		Plenary Talk 10 Dr. Prashantha Kalappa (Adichunchanagiri University, Mandya, Karnataka, India)	Biodegradable Polymer Nanocomposites for Self-Powered Smart Systems: A Sustainable Leap in Energy Harvesting and Biomechanical Sensing		C-206 – Seminar Hall (AB-1)	Session Chair: Dr. Prashantha Kalappa and Dr. Syed Dastager	Faculty Coordinator:Dr. Sindhu S 9445239063
	03.00-03.30 PM [30 mins]		Plenary Talk 11 Dr. Syed Dastager (Council of Scientific and Industrial Research - National Chemical Laboratory (CSIR-NCL) Maharashtra, India)	Bacterial Nano Cellulose (BNC) as a sustainable technological material		C-206 – Seminar Hall (AB-1)		
	03.30 – 03.45 PM [15 mins]		Amrita Spotlight	Dr. Meera Balachandran		C-206 – Seminar Hall (AB-1)		
	03.45-04.00 PM [15 mins]	Tea Break						
PCB Session 1	04.00 – 04.15 PM [15 mins]	ICAMGT2025_111_PC B25(Spot registration)		Development Of Cnt-Incorporated Ptt/Pp Blends for Enhanced Electromagnetic Interference Shielding Performance	Ajitha A R Prasanth Raghavan	C-206 – Seminar Hall (AB-1)	Session Chair: Dr. Prashantha Kalappa	Faculty Coordinator:Dr. Meera B 09443656597
	04.15-04.30 PM [15 mins]	ICAMGT2025_109_PC B24		Smart Biopolymer Encapsulation of Acorus calamus Oil for Sustainable Pest Management: A	Thirunavukkarasu Selvamuthukumara n	C-206 – Seminar Hall (AB-1)		Student Coordinators Sameera, Fathima

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				Materials-Driven Approach Supporting SDGs				
	04.30 - 04.45 PM [15 mins]	ICAMGT2025_17_PCB 05		Enhanced Thermoelectric Properties of Free-Standing PEDOT: PSS Films through Solvent Post-Treatment	Gopinathan Anoop Soumya S	C-206 – Seminar Hall (AB-1)		
	04.45-05.00 PM [15 mins]	ICAMGT2025_16_PCB 04		PEDOT: PSS/Cu ₂ O–Based Organic/Inorganic Composites for Thermoelectric Device Applications	Gopinathan Anoop Fatima	C-206 – Seminar Hall (AB-1)		
Poster Session	05.00 - 06.00 PM [1 hr]		Poster Judging and Assessment *(Each poster evaluation 7 mins)	ICAMGT2025_140_PCB29 ICAMGT2025_177_PCB36 ICAMGT2025_179_PCB37 ICAMGT2025_180_PCB38	Farsana M, Sari P Sasidharan; A. Punit Raveendran, Anusree Giridhar ; A. Punit Raveendran, K N Sai Tejasvi, Anusree Giridhar ; A. Punit Raveendran, Rudra Modi	Seminar Hall 1	Session Chair: Dr. Murali Rangarajan	Faculty Coordinators: Harsha Dinesh, 8921523211 Bhalamphiga, 956654176 9 Srudhi sankar 8943249797
PCB Session 2	04.00 – 04.15 PM [15 mins]	ICAMGT2025_47_PCB 10		Chitosan Nanoparticle Coated with Alginate-Lignosulfonate Transdermal Hydrogel Patch for Sustained Transdermal Delivery of Levodopa	Athira K. B Siva Kumar	C-205 – Aerospace Classroom (AB-1)	Session Chair: Dr Syed Dastager	Faculty Coordinator: Dr. Nikhil Raj 9486127611 Student Coordinators Sai Gopalakrishna, Snaha
	04.15-04.30 PM [15 mins]	ICAMGT2025_48_PCB 11		Targeted and pH-Responsive Delivery of Sorafenib Using Biodegradable Polymer-Iron Oxide Nanocomposites for Hepatocellular Carcinoma Therapy	Hafsa Bahaar B Siva Kumar	C-205 – Aerospace Classroom (AB-1)		
	04.30 - 04.45 PM [15 mins]	ICAMGT2025_56_PCB 14		Biodegradable Polymeric Beads for Controlled Drug Release: A Study on Metformin Hydrochloride	Archana N S Giridhar Reddy	C-205 – Aerospace Classroom (AB-1)		

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	04.45-05.00 PM [15 mins]	ICAMGT2025_03_PCB 02		Hydrogen production from heavy crude oil via steam reforming on Ni/Al ₂ O ₃ catalyst	Arathyram Ramachandra Kurup Sasikala	C-205 – Aerospace Classroom (AB-1)		
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Day 2	Time	Session	Speaker/Presenter	Topic/Title	Author Name	Location	Session Chair	Faculty coordinator
25.7.2025	08:30 – 09:30 AM	Registration				Amriteswari Hall		Mr. Mohankumar Govindaraj 9524420956
	9.30- 9.40 AM [10 mins]	Inauguration				Amriteswari Hall		Dr. Rajendra Kumar 8903475890
	9.40 - 10.15 AM [35 mins]		Plenary Talk 12 Dr. K. Kalyanasundaram (École Polytechnique Fédérale de Lausanne, Lausanne (EPFL), Switzerland)	Recent advances in photovoltaic solar energy harvesting		Amriteswari Hall		
	10.15 – 10.50 AM [35 mins]		Plenary Talk 13 Dr. Arunachala Mada Kannan (Arizona State University, Arizona, US)	Green Hydrogen through photoelectrochemical water splitting		Amriteswari Hall		
	10.50- 11.10 AM	Tea Break						
	11.10- 11.45 AM [35 mins]		Plenary Talk 14 Dr. Kandalam Ramanujachary (Rowan University, New Jersey, US)	Novel Electro-Catalysis for Water Splitting		Amriteswari Hall		
	11.45 – 12.20 PM [35 mins]		Plenary Talk 15 Dr. Kaushik Ghosh (Institute of Nano Science and Technology, Mohali, Punjab, India)	Tailoring the Properties of the Sn-Based Electrocatalyst for Green Hydrogen Production		Amriteswari Hall		
	12.20 – 12.55 PM [35 mins]		Plenary Talk 16 Dr. Pankaj Kumar Patro (Bhabha Atomic Research	Hydrogen the future of Green Energy		Amriteswari Hall		

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			Centre (BARC), Mumbai, Maharashtra, India)					
	12.55 – 01.55 PM [1 hr]	Lunch Break						
Track CE	01.55 - 2.25 PM [30 mins]		Plenary Talk 17 Dr. Ragupathy Dhanusuraman (Pondicherry University, Puducherry, India)	Advanced Materials for Electrochemical Energy Applications		E-101 (AB-1)	Session Chair: Dr. Ragupathy Dhanusuraman and Dr. Anand Narayanan Krishnamoorthy	Faculty coordinator: Dr. Kumaresan D 9443979100
	2.25 - 2.55 PM [30 mins]		Plenary Talk 18 Dr. Anand Narayanan Krishnamoorthy (Computational Science Researcher, Shell, Bengaluru, Karnataka, India)	Data-Driven Membrane Engineering and Electrolyte Composition Optimization through Multiscale Computational Modeling for Advanced Electrochemical Energy Systems		E-101 (AB-1)		
	2.55-3.10 PM [15 mins]		Amrita Spotlight	Dr. Duraisamy Kumaresan		E-101 (AB-1)		
CE Session 1	3.10-3.25 PM [15 mins]	ICAMGT2025_169_CE37		Hydrogen production from heavy crude oil via steam reforming on Ni/Al ₂ O ₃ catalyst	Anamika Maurya Rajesh Kumar Upadhyay Sweta	E-101 (AB-1)	Session Chair: Dr. Ragupathy Dhanusuraman and Dr. Anand Narayanan Krishnamoorthy	Faculty coordinator: Dr. Kumaresan D 9443979100
	03.25 – 03.45 PM [20 mins]	Tea Break						
	03.45-04.00 PM [15 mins]	ICAMGT2025_175_CE40		Multiscale Simulation Approaches for Designing Catalysts in Hydrogen	A Punit Raveendran	E-101 (AB-1)		Student Coordinators Jakul, Tamil

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CE Session 1				Production: Bridging Atomic Insight to Reactor Scale Optimisation				
	04.00 - 04.15 PM [15 mins]	ICAMGT2025_197_CE44 (CE3)		Screen-printed silver-zinc rechargeable micro batteries using silver nanoparticles modified graphene nanocomposite	Keerthana S Punathil Vasu Suneesh	E-101 (AB-1)		
	04.15-04.30 PM [15 mins]	ICAMGT2025_153_CE32		In2O3@NiCo LDH n-p Heterojunction Nanostructures for Efficient Urea-Assisted Water Splitting	Murali Rangarajan	E-101 (AB-1)		
	04.30-04.45 PM [15 mins]	ICAMGT2025_193_CE42 (CE3)		Zinc -Iodide Redox Flow Battery for Energy Storage Applications	Mani Ulaganathan Moothedath Aparnasree	E-101 (AB-1)		
	04.45-05.00 PM [15 mins]	ICAMGT2025_192_CE41 (CE3)		Zinc -Iodide Redox Flow Battery for Energy Storage Applications	Mani Ulaganathan Moothedath Aparnasree	E-101 (AB-1)		
Track SRM	01.55 - 02.25 PM [30 mins]		Plenary Talk 19 Dr. Hari Ganesh (Assistant Professor Department of Chemical Engineering, IIT Gandhinagar)	Advanced Explicit Model Predictive Control of a Wastewater Treatment Process		E-103 (AB-1)	Session Chair: Dr. Hari Ganesh and Dr. S. Selvasekarapandian	Faculty Coordinator: Dr. Thirugnasambandam G M 9597444677
	02.25 - 02.50 PM [30 mins]		Plenary Talk 20 Dr. Arumugam Sathaa Sathasivan (Professor, School of Engineering, Design & Built Environment)			E-103 (AB-1)		

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			Western Sydney University Online)					
	02.50-03.20 PM [30 mins]		Plenary Talk 21 Dr. S Selvasekarapandian (Materials Research Center, Coimbatore).	Biomaterial Electrolytes for Energy storage application		E-103 (AB-1)		
	03.20-03.35 PM [15 mins]		Amrita Spotlight	Dr. Rajendra Kumar		E-103 (AB-1)		
	03.35-03.55 PM [15 mins]		Amrita Spotlight	Dr. Nikhil Raj		E-103 (AB-1)		
	03.55-04.10 PM [15 mins]	Tea Break						
SRM Session 1	04.10 – 04.25 PM [15 mins]	ICAMGT2025_53_SRM20		Conversion of Rice Husk Ash into Silica by Physical Methods and Preparation of Silicate Glasses and Ceramics	Dr. Gadige Paramesh	E-103 (AB-1)	Session Chair: Dr Nithya K/Dr Rasana Nanoth/Dr Murali Rangarajan	Faculty Coordinator: Dr. Thirugnasambandam G M 9597444677 Student Coordinators Sajith, Anu maria
	04.25 – 04.40 PM [15 mins]	ICAMGT2025_70_SRM25		Electrodeposited PbO ₂ from E-Waste for Electrochemical Treatment of Synthetic Dye Wastewater	Kartikeya Shukla, Arunagiri Appusamy, Muthukumar Karuppan	E-103 (AB-1)		
	04.40- 04.55 PM [15 mins]	ICAMGT2025_79_SRM30		Microfiltration of Escherichia coli Using Waste Fly Ash-Based Tubular Ceramic Membrane: A Sustainable Approach to Water Disinfection	Srinath A G Pugazhenthia	E-103 (AB-1)		
	04.55 – 05.10 PM [15 mins]	ICAMGT2025_18_SRM05		Design vs. Disposal: Evaluating E-Waste Management	Gayathri G	E-103 (AB-1)		

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				Approaches of LG and Godrej				
	05.10 – 05.25 PM [15 mins]	ICAMGT2025_90_SRM36		A Comparative Study of Chemical Coagulation and Hybrid Electrocoagulation-Electrooxidation for Dye Degradation from Wastewater	Shanmugapriya muthukumar karuppana	E-103 (AB-1)		
	05.25 – 05.40 PM [15 mins]	ICAMGT2025_99_SRM43		Sustainable Sorbent Engineering: Fatty Acid-Functionalized PLA Nanofibrous Scaffolds for Enhanced Oil-Water Separation	Ranu Nayak Neha Soni	E-103 (AB-1)		
SRM Session 2	04.10 – 04.25 PM [15 mins]	ICAMGT2025_165_SRM67		A colourimetric paper-based simultaneous detection of calcium and magnesium ions in potable water	Satheesh Babu T G Resmi P E	E-103A (AB-1)	Session Chair: Dr. S. Selvasekarapandian	Faculty coordinator: Dr. Senthil Kumar 9585534354 Student Coordinators Dr.Vishnuraj, Ashwathy
	04.25 – 04.40 PM [15 mins]	ICAMGT2025_82_SRM31		Computational Fluid Dynamics Based Assessment of Chimney Flue Model Regulations to Mitigate Retrainments Within Urban Dwellings	Madhavan Vasudevan Ratna kishore Velamati	E-103A (AB-1)		
	04.40- 04.55 PM [15 mins]	ICAMGT2025_139_SRM58		From Mine Waste to Water Safety: High-Performance Arsenic Adsorbents from Thermally Modified Bauxite Mine Residues	Rutuja T. Kamble Sujana, M. Gudea	E-103A (AB-1)		

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	04.55 – - 05.10 PM [15 mins]	ICAMGT2025_72_SRM26		Smart and Solar Powered Portable RO Water Purifier	R Resmi	E-103A (AB-1)		
	05.10 – 05.25 PM [15 mins]	ICAMGT2025_125_SRM51		Enhancing Personalized Strategies for Indoor Environmental Quality and Sustainability using Virtual Sensing Approach with System on Chip	Boopathy P	E-103A (AB-1)		
	05.25-05.40 PM [15 mins]	ICAMGT2025_135_SRM57		Valorization of Crude Glycerol from Biodiesel Production via Alkyl Amine- Catalyzed Esterification for Triacetin-Based Fuel Additive	Joshua Jose Smrithy E Mohan	E-103A (AB-1)		
PCB Session 1	01.55 – 02.25 PM [30 mins]		Plenary Talk 22 Dr. Vijay Kumar Thakur (Scotland's Rural College (SRUC) Edinburgh, UK (Online))	Sustainable Materials for a Circular Bioeconomy		E-101A (AB-1)	Session Chair: Dr. Meera Balachandran and Dr. Jayanarayanan K.	Faculty Coordinator: Mr. Hareesh Padayath 7506245873 Student Coordinators Sai Gopalakrishna,
	02.25-02.40 PM [15 mins]	ICAMGT2025_186_PCB40		Enhancing Mechanical and Moisture-Barrier Properties of Epoxy Composites through Nanochitosan Integration	Sabarinath S Vysakh Raveendra Kurup	E-101A (AB-1)		
	02.40-02.55 PM [15 mins]	ICAMGT2025_194_PCB41		Nano-Biosilica from Rice Husk Ash as a Sustainable Filler for Truck Base Radial Compounds	Meera Balachandran Naveen	E-101A (AB-1)		

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	02.55-03.10 PM [15 mins]	CAMGT2025_152_PCB32(PCB1)		Novel Synthesis of Carbon Dots from the Defensive Secretion of the Beetle <i>Luprops tristis</i> : Characterization and Antimicrobial Analysis.	Anthyalam Parambil Ajaykumar Ovungal Sabira	E-101A (AB-1)		
	03.10-03.25 PM [15 mins]	CAMGT2025_176_PCB35(PCB1)		In Vitro Characterization of Serum Albumin Using Dynamic Light Scattering for Ocular Inflammation Assessment	Surekha Paneerselvam	E-101A (AB-1)		
	03.25 – 03.45 PM [20 mins]	Tea Break						
PCB Session 1	03.45 – 04.00 PM [15 mins]	ICAMGT2025_160_PCB33		Electromechanical Actuation In Self-Healing Dielectric Elastomers Under Simulated Aerospace Conditions For Pressure Sensing Applications	Dhananjay Sahu, Raj Kumar Sahu	E-101A (AB-1)		
	04.00-04.15 PM [15 mins]	ICAMGT2025_172_PCB34		Microwave Co-Pyrolysis And Solvothermal Technique For Conversion Of Discarded Reverse Osmosis Membrane To Carbon Dots	Sohom Chatterjee, Dr. Remya Neelancherry	E-101A (AB-1)		
	04.15-04.30 PM [15 mins]	ICAMGT2025_105_PCB20		Dielectric Profiling and Enhanced Electric Properties of Polyaniline-Ferrite Nanohybrids for	Thrinethra S. N Murugendrappa M. V	E-101A (AB-1)		

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				Energy Storage Applications	Sharanappa Chapi			
	04.30-04.45 PM [15 mins]	ICAMGT2025_118_PCB27		Synergistic influence of GNP nanoparticles for enhancing the EMI shielding performance of functionalized barium titanate (FBT)/epoxy nanocomposites	Meera Balachandran	E-101A (AB-1)		
	04.45-05.00 PM [15 mins]	ICAMGT2025_149_PCB31		Visible-Lightphotocatalytic Degradation of Crystal Violet and Evans Blue Dyes Using Green Synthesizedzro ₂ -Zno Nanocomposite	Shreyas B V, Prakash Chinnaiyan	E-101A (AB-1)		

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Online Presentation								
Online Presentations	01.55-02.10 PM [15 mins]	ICAMGT2025_09_SRM02		Disposal of biomedical waste essential to stop community spread of corona virus	Neema Tufchi, Yogesh Kumar Sharma Vansh Budhiraja	C-205 (Aerospace classroom)	Session Chair: Dr. Krishnaprasad	Faculty Coordinator: Dr. Sindhu S 9445239063 and Dr. Nikhil Raj 9486127611 Student Coordinators Amal G.S, Aparna
	02.10-02.25 PM [15 mins]	ICAMGT2025_54_MPD12		Influence of Cu/Ag Composition on Electrochemical CO2 Reduction Performance	Sidra Muzaffar	C-205 (Aerospace classroom)		
	02.25-02.40 PM [15 mins]	ICAMGT2025_57_PCB15		Sputter-Coated Tantalum on Ti-6Al-4V For Corrosion Protection in Orthopedic Applications	Ankit Kumar Mishra Nikhil K Kothurkar	C-205 (Aerospace classroom)		
	02.40-02.55 PM [15 mins]	ICAMGT2025_74_SRM27		Performance Evaluation of an Intermittently Fed Microalgal-Bacterial Consortium for Municipal Wastewater Treatment	Thinojah Thiruchchelvam, Arumugam Sathasivan	C-205 (Aerospace classroom)		
	02.55-03.10 PM [15 mins]	ICAMGT2025_88_CE16		Sustainable And Cost-Effective Hydrogen Storage Using Coconut Coir Substituted Nickel	K. S. Nivedhitha	C-205 (Aerospace classroom)		
	03.10-03.25 PM [15 mins]	ICAMGT2025_89_SRM35		Metal Oxide (Fe ₂ O ₃)/Biochar Materials for Waste Water - Heavy Metal Ion (Pb & As) Treatment	Leena V. Hublikar	C-205 (Aerospace classroom)		
Online Presentations	03.25-03.40 PM [15 mins]	ICAMGT2025_103_SRM46		Marine Litter Pollution In The Coastal Region Of	Taniya Ahuja	C-205 (Aerospace classroom)		

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				South Asia: Evaluating Legal Instruments And Policy Frameworks				
	03.40-03.55 PM [15 mins]	ICAMGT2025_144_SRM61		Packaging Waste and Pollution in India: Legal and Policy Imperatives for Circular Economy	Ratish Kumar Rajan Kumar	C-205 (Aerospace classroom)		
	03.55-04.10 PM [15 mins]	ICAMGT2025_166_SRM68		Designing Materials For Circular Economy: A Multiscale And Multiphysics Approach	Vaishnavi N. Halarankar Sandeep Munjal	C-205 (Aerospace classroom)		
	04.10-04.25 PM [15 mins]	ICAMGT2025_189_SRM75		Environmental and Cognitive Drivers of Electric Vehicle Adoption	Dr.R.Chitra Dr.M.Sathish	C-205 (Aerospace classroom)		
	04.25-04.40 PM [15 mins]	ICAMGT2025_199_CE46		Combustion And Emission Characteristics Of Rcci Engine Fueled With Acetylene, Hydrogen And Simarouba Nano- Biodiesel Renewable Fuels	N.R. Banapurmath	C-205 (Aerospace classroom)		
	04.40-04.55 PM [15 mins]	ICAMGT2025_205_CE50		Electrodeposition of Bi2S3 for Photoelectrocatalytic water splitting	Kanchan Pawar Archana Kalekar	C-205 (Aerospace classroom)		
	04.55-05.10 PM [15 mins]	ICAMGT2025_206_CE51		Synthesis and Modification of g- C3N4: Role of Protonation in Electrocatalytic and Photoelectrocatalytic Water Splitting	Kanchan Pawar Archana Kalekar	C-205 (Aerospace classroom)		

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	05.10- 05.25 PM [15 mins]	ICAMGT2025_207_SRM81		Photocatalytic Performance of Zn and Ce Doped Cobalt Ferrite	Chetana Patil	C-205 (Aerospace classroom)		
	05.25-05.40 PM [15 mins]	ICAMGT2025_43_MPD10		AI-Driven Innovations In Bioenergy: Integrating Advanced Bioconversion Technologies, Nanomaterials, And Circular Economy For	Dr. Thanammal Indu V	C-205 (Aerospace classroom)		

ICAMGT 2025 – Conference Schedule

Day 3	Time	Session	Speaker/Presenter	Topic/Title	Author Name	Location		Faculty Coordinator
26.7.2025	9.20- 9.30 AM [10 mins]	Inauguration				Amriteswari Hall		Dr. Rajendra Kumar 8903475890
26.7.2025	9.30- 10.05 AM [35 mins]		Plenary Talk Dr. Arvind Kumar Chandiran (Associate Professor Indian Institute of Technology – Madras)	Reality of direct photoelectrochemical solar water splitting		Amriteswari Hall		Dr. Sindhu S. 9445239063
	10.05 – 10.40 AM [35 mins]		Plenary Talk Dr. Sundar Mayavan , Senior Scientist, CSIR-CECRI	Batteries for Micro-Hybrid Vehicles - Role of Nano-Carbon		Amriteswari Hall		
	10.40 - 11.00 AM [20 mins]	Tea Break						
	11.00- 11.35 PM [35 mins]		Plenary Dr. Kokulnathan Thangavelu (National Taipei University of Technology, Taipei city, Taiwan) - online	Role of Raman Spectroscopy in Electrochemical Applications		Amriteswari Hall		
	11.35- 12.10 PM [35 mins]		Plenary Talk Dr. Prasanth Raghavan (Cochin University of Science and Technology, Kochi, Kerala, India)	Hierarchically Designed Smart Textiles based Energy Harvesting and Storage Devices for a Sustainable Future		Amriteswari Hall		
	12.10 - 12.45 [35 mins]		Industry Institute Interaction Mr. Karthikeyan (TN Enviro)	Exploring Industry Participation in the Circular Economy		Amriteswari Hall		
	12.45 - 1.40 PM [55 mins]	Lunch Break						

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Session 1	1.40 - 1.55 PM [15 mins]	ICAMGT2025_157_SRM63		Kitchen Wastewater Treatment Employing Phragmites Australis In Macrophyte Based Vermifiltration System	R. Subashini S. Gajalakshmi	E-101 (AB-1)	Session Chair: Dr. Prasanth Raghavan	Faculty Coordinator: Dr. Senthil Kumar S 9585534354
	1.55 - 2.10 PM [15 mins]	ICAMGT2025_185_SRM72		Facile Synthesis of NiO/NF Electrodes for Electrocatalytic Urea Degradation and Total Nitrogen Removal: Influence of pH and Voltage	Padmavathy B, Praveena Gangadharan Dinesh Jagadeesan	E-101 (AB-1)		Student Coordinators Navaneeth, Srudhi
	2.10 - 2.25 PM [15 mins]	ICAMGT2025_201_SRM79		Low-Cost Iron Removal Using Manganese Dioxide	Nikhil K. Kothurkar	E-101 (AB-1)		
	02.25-02.35 PM [15 mins]	ICAMGT2025_195_SRM78		Process Optimization Using Response Surface Methodology for Recovery of Strategic Metals from Synthetic Li-Ion Battery Leachate	Meera Balachandran Naveen	E-101 (AB-1)		
Session 2	1.40 - 1.55 PM [15 mins]	ICAMGT2025_120_MPD21		Enhanced harvest of solar energy via the sequential growth and stacking of p-type and n-type nanocrystals on organic semiconductors for Photocatalytic Hydrogen Evolution	Jrjeng Ruan Brindha Devi Sankar	E-101A (AB-1)	Session Chair: Dr. Sundar Mayavan	Faculty Coordinator:Dr. Rajendra Kumar 8903475890
	1.55 - 2.10 PM [15 mins]	ICAMGT2025_73_MPD18 (MP3)		Role of coupled redox cycling of FE and MN species in hzsm-5 supported FE-MN composite oxide catalysts for direct methane to methanol conversion	Pranay Rajendra Chandewar , Debaprasad Shee	E-101A (AB-1)		Student Coordinators Amal, Souparnika.
	2.10 - 2.25 PM [15 mins]	ICAMGT2025_148_PCB30		Design-Driven Optimization of SPEEK–PVDF Blend Membranes for Proton Exchange Applications	Kaarthick Raaja Venkatachalam	E-101A (AB-1)		

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	2.25 - 2.40 PM [15 mins]	ICAMGT2025_123_MPD23		Catalytic Oxidation of CO From Diesel Engine Exhaust Using Spinel Catalysts (Mco ₂ O ₄) In Ceramic Monolith Reactor Via Dip-Coating	Tarak Mondal Venkateswara Rao Bella	E-101A (AB-1)		
	2.40 - 2.55 PM [15 mins]	ICAMGT2025_15_MPD04 (MPD2)		Study of Ni, Co, And Sn Doped ZnO Thin Films Synthesized Via Silar Method for Optoelectronic Applications	Dr. Sundararaman Gopalan	E-101A (AB-1)		
	02.55 – 03.25 PM		Best Paper Awards / Poster Honouring sponsors			Amriteswari Hall		
	03.25- 03.55 PM		Valedictory Function			Amriteswari Hall		