

CONFERENCE SCHEDULE

09:00 AM – 06:00 PM, Indian Standard Time (IST)



**THREE DAYS | EIGHT TRACKS | KEYNOTE SESSIONS | PANEL DISCUSSIONS
PAPER PRESENTATIONS | COLLABORATION | NETWORKING**

**Zoom links to the respective rooms will be shared with the registered presenters/participants*

CONFERENCE SCHEDULE AT A GLANCE

Day 1: Thursday (12-12-2024)

Timing

09:00 – 10:25 AM
11:00 – 11:45 AM
12:00 – 01:15 PM
02:00 – 02:45 PM
03:00 – 03:45 PM
04:00 – 04:45 PM
05:00 – 06:00 PM

Schedule

Inaugural Session
Keynote Address (1)
Technical Sessions I
Keynote Address (2)
Keynote Address (3)
Keynote Address (4)
Technical Sessions II

Day 2: Friday (13-12-2024)

Timing

09:25 – 09:30 AM
09:30 – 10:15 AM
10:30 – 11:30 AM
12:00 – 12:45 PM
01:30 – 02:30 PM
03:00 – 03:45 PM
04:00 – 04:45 PM
05:00 – 06:00 PM

Schedule

Prayer
Keynote Address (5)
Technical Sessions III
Keynote Address (6)
Technical Sessions IV
Keynote Address (7)
Keynote Address (8)
Open Forum:
Collaboration & Networking

Day 3: Saturday (14-12-2024)

Timing

09:00 – 09:05 AM
09:10 – 10:10 AM
10:30 – 11:15 AM
11:30 – 12:30 PM
01:30 – 02:30 PM
03:00 – 03:45 PM
04:00 – 05:00 PM

Schedule

Prayer
Technical Sessions V
Keynote Address (9)
Technical Sessions VI
Technical Sessions VII
Keynote Address (6)
Valedictory Session

Day 1 - Thursday: 12-12-2024	Timing: 09:00 AM – 06:00 PM	Venue: Room 1
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Schedule in Detail

Inaugural Session		
Event	Dignitaries	Time (IST)
	Prayer	09:00 – 09:02 AM
Welcome Address	Prof. C. Vijayan, Professor and Head, Department of Physics, IST, Chinmaya Vishwa Vidyapeeth (Deemed to be University), India	09:02 – 09:07 AM
Inaugural Address	Prof. Ajay Kapoor <i>Hon. Vice Chancellor, Chinmaya Vishwa Vidyapeeth (Deemed to be University), India</i>	09:10 – 09:15 AM
Message from the General Chair	Dr. Apparao Mukkamala <i>Managing Trustee, CVV & Clinical Professor of Radiology, College of Human Medicine at Michigan State University, USA</i>	09:20 – 09:25 AM
Message from the Conference Chairman	Dr. Sudheer Babu Yarlagadda <i>Provost, Chinmaya Vishwa Vidyapeeth (Deemed to be University), India</i>	09:30 – 09:35 AM
Message from the Registrar	Prof. T. Asokan <i>Registrar & Dean of Academics, Chinmaya Vishwa Vidyapeeth (Deemed to be University), India</i>	09:35 – 09:40 AM
Presidential Address	Prof.Dr. Jozef T. Haponiuk, <i>Professor and Head, Department of Polymer Technology, Gdansk University of technology, Poland</i>	09:40 – 09:50 AM
Message from the International Chair	Dr. Robin Augustine <i>Basic Life Research Scientist Rad/Pediatric Radiology Stanford University, Stanford, California</i>	09:50 – 10:00 AM
Message from the ICRACM Series Founding Chairman	Prof. Dr. Vijaya Kumar Srivastava <i>Professor of Mechanical Engineering Chinmaya Vishwa Vidyapeeth (Deemed to be University), India</i>	10:00 – 10:10 AM
Message from the Research Director	Prof. Savitesh Madhulika Sharma <i>Professor & Director, R&D Cell, CVV</i>	10:10 – 10:15 AM

Vote of Thanks	Dr. Praveen K M <i>Organizing Secretary: ICRACM-2024, Associate Professor of Mechanical Engineering, IST, Chinmaya Vishwa Vidyapeeth (Deemed to be University), India</i>	10:20 – 10:25 AM
Venue: Room 1		
Keynote Address (1)	Prof. Sunitha Grandhee <i>Dean, Life long learning & Wellness Director, Center for Applied Indian Knowledge Systems, Chinmaya Vishwa Vidyapeeth, Ernakulam, Kerala - 682313, India.</i>	11:00 – 11: 45 AM
Venue: Room 1		
Technical Sessions I	Chair: Dr. Rittin Abraham Kurien., <i>Research Scientist, Department of Materials Science and Engineering, Silpakorn University, Bangkok, Thailand</i> Session Manager: Mr. Sharath T R . <i>Department of Mechanical Engineering, CVV</i>	12:00 – 01:15 PM
Keynote Address (2)	Prof Alessandro Pegoretti <i>Department of Industrial Engineering, Trento University, Trento, Italy</i>	02:00 – 02: 45 PM
Keynote Address (3)	Dr Maya Jacob John <i>Principal Researcher and Bioplastics and Biocomposites Platform Leader, Council for Scientific and Industrial Research, Pretoria ,South Africa</i>	03:00 – 03:45 PM
Venue: Room 1		
Keynote Address (4)	Prof Miran Mozetic <i>Department of Surface Engineering, Jozef Stefan Institute, Slovenia</i>	04:00– 04:45 PM
Technical Sessions II	Chair: Dr. Harikrishnan Pulikkalparambil, <i>Assistant Professor , School of Nanoscience & Nanotechnology, Mahatma Gandhi University</i> Session Manager: Shri. Athul Ravi, <i>Department of Chemistry, CVV</i>	05:00 – 06:00 PM

Day 1 - Thursday: 12-12-2024	Timing: 12:00 PM – 01:15 PM (1.15 Hrs)	Venue: Room 1
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Technical Session I

Advanced Composite Materials and Coatings			
Chair		Dr. Rittin Abraham Kurien., <i>Research Scientist, Department of Materials Science and Engineering , Silpakorn University, Bangkok, Thailand</i>	
Session Manager		Mr. Sharath T R . <i>Department of Mechanical Engineering, CVV</i>	
No.	ICRACM ID	Name	Title of Presentation
1	ICRACM 24-122	Gopika R <i>ICAR- Central Institute of Fisheries Technology</i>	Innovative Antifouling Enhancement of Aquaculture Nets Using a Photocatalytic Carbon Dot-TiO ₂ -Fe ₂ O ₃ Composite Coating
2	ICRACM 24-108	Krishnanunni, S <i>Department of Mechanical Engineering, National Institute of Technology Calicut, Kerala 673601, India</i>	Wear Analysis on Graphene Wrapped TiO ₂ Coated Aluminium alloy
3	ICRACM 24-133	Smitha Chandran S <i>Department of Chemistry, Amrita Vishwa Vidyapeetham, Amritapuri, Kollam, Kerala</i>	Green Fabricated Silver Nanoparticles Using Fruit Extract of Sacred Fig: Approaches and its Multidisciplinary Applications
4	ICRACM 24-106	Rakesh Reghunath <i>Research Scholar, Department of Mechanical Engineering, NIT Kozhikode</i>	Cost-Effective Natural Rubber Composites: Enhancing Dielectric Properties and EMI Shielding at High Frequencies
5	ICRACM 24-184	P. Perumal <i>Polymer Composites Lab, Department of Chemistry, School of Applied Science and Humanities, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522 213, India</i>	Biobased, eco-friendly, sustainable, super-hydrophobic eugenol based polybenzoxazines composites coated on cellulose substrate for effective oil-water emulsion separation
6	ICRACM 24-186	Surbhi Mishra <i>Research scholar, Mechanical Engineering, Geetanjali Institute of Technical Studies</i>	Carboxymethyl Cellulose -Reinforced Polymer-Based matrix for Natural Fiber Composites: An Investigation based on Surface Energy

Day 1 - Thursday: 12-12-2024	Timing: 05:00 PM – 06:00 PM (1.00 Hrs)	Venue: Room I
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Technical Session II

Sustainable and Bio-Inspired Composites			
Chair		Dr. Harikrishnan Pulikkalparambil , <i>Assistant Professor , School of Nanoscience & Nanotechnology, Mahatma Gandhi University</i>	
Session Manager		Shri. Athul Ravi , <i>Department of Chemistry, CVV</i>	
S No.	CRID	Name	Title of Presentation
1	ICRACM 24-127	D.V.Lohar <i>Dept. Mechanical Engineering, Shri.H.H.J.B.Polytechnic, Chandwad(Nashik), Maharashtra ,India</i>	Comparative analysis of properties of Polylactic acid (PLA) reinforced with Walnut shell and White Marble fine powder
2	ICRACM 24-179	Vikas Prabhakar <i>Research Scholar, Department of Civil Engineering, Netaji Subhas University of Technology, New Delhi, India.</i>	Composite Fly Ash Bricks Developed Using Kiln Wastes: A Sustainable Approach
3	ICRACM 24-145	Kashish Krushna Badole <i>Department of Defence Technology, Veermata Jijabai Technological Institute Matunga, Mumbai 400019, India</i>	Development of cyanate ester-based polymer blends for high temperature applications.
4	ICRACM 24-193	Anjitha V V <i>Project Associate, Department of Chemistry, Vignan's Foundation For Science, Technology & Research</i>	Bioderived Plasticizer For Optimizing Elongation At The Break And Mechanical Resilience In Chitosan Films
5	ICRACM 24-196	Saju Daniel <i>St. Xavier's College Vaikom, Kottayam, Kerala</i>	Innovative Polymer Composites Enhanced with Hybrid Nanofillers for a Sustainable Future

Day 2 - Friday: 13-12-2024	Timing: 09:25 AM – 06:00 PM	Venue: Room I
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Schedule in Detail

Event	Dignitaries	Time (IST)
Prayer		09:25 – 09:30 AM
Keynote Address (5)	Prof. Yuri Bazilevs, <i>E. Paul Sorensen Professor of Engineering, Co-Director of the Mechanics of Undersea Science and Engineering Center, School of Engineering, Brown University, USA</i>	09:30 – 10:15 AM
Venue: Room 1		
Technical Sessions III	Chair: Dr. Seiko Jose, <i>Scientist (Textile Chemistry) Textile Manufacture and Textile Chemistry Division Central Sheep and Wool Research Institute(CSWRI) Indian Council of Agricultural Research (ICAR), Govt. India</i> Session Manager: Mr. Yugandhar R. Dhande., <i>Assistant Professor, Department of Computer Science and Engineering, CVV</i>	10:30 – 11:30 AM
Keynote Address (6)	Dr. Kalappa PRASHANTHA <i>Professor and Dean, Center for Research and Innovation Adichunchanagiri University, Mandya district, India</i>	12:00 – 12:45 PM
Venue: Room 1		
Technical Sessions IV	Chair: Dr. Ajay Vasudeo Rane, <i>Scientific Managing Editor, ELSEVIER</i> Session Manager: Dr. Shiju E. <i>Assistant Professor, Department of Physics, CVV</i>	01:30 – 02:30 PM
Keynote Address (7)	Prof. Valter Carvelli <i>Department of Architecture and Built Environment and Construction Engineering, Politecnico di Milano, Italy</i>	03:00 – 03:45 PM
Venue: Room 1		
Keynote Address (8)	Dr. Binsi P.K. <i>Senior Scientist, Fish Processing Division ICAR- Central Institute of Fisheries Technology, Kochi</i>	04:00 – 04:45 PM
Venue: Room 1		
Open Forum: Collaboration and Networking		5.00PM-6.00PM

Day 2 - Friday: 13-12-2024	Timing: 10:30 AM – 11:30 AM (1.15 Hrs)	Venue: Room I
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Technical Session III

Nanocomposites and Nanotechnology Applications			
Chair		Dr. Seiko Jose , Scientist (Textile Chemistry), Textile Manufacture and Textile Chemistry Division, Central Sheep and Wool Research Institute(CSWRI) Indian Council of Agricultural Research (ICAR), Govt. India	
Session Manager		Mr. Yugandhar R. Dhande. , Assistant Professor, Department of Computer Science and Engineering, CVV	
S No.	CRID	Name	Title of Presentation
1	ICRACM 24-112	Teena George ICAR- Central Institute of Fisheries Technology, Cochin	COMBATING E. COLI BIOFILMS: THE POWER OF CHITOSAN-FORTIFIED MgO NANOPARTICLES WITH TETRACYCLINE
2	ICRACM 24-129	Archana M S Department of Physics, Mar Athanasius College(Autonomous), Kothamangalam	Studies of Electrospun Polyaniline(PANI)-Graphene/PS Composite Nanofibers
3	ICRACM 24-195	Mahadevi V Research Scholar, Department of Physics, Gulbarga University Kalaburagi-585106	In Situ Synthesis, Characterization, and Photocatalytic Efficiency of Polypyrrole/ZnO Nanocomposites
4	ICRACM 24-194	Preetam Datta Research Scholar, Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, JD 2, Sector III, Salt Lake, Kolkata-700106, West Bengal, India	Improved Performance of Photoelectrochemical Water Splitting through g-C3N4/CoTe Heterojunction Nanocomposite
5	ICRACM 24-140	Goutham Gopalakrishnan Master's student, School of Energy Materials, Mahatma Gandhi University, Kottayam	Synthesis and Characterization of Molybdenum Disulfide (MoS ₂) Nanoflowers Decorated with Vanadium Pentoxide (V ₂ O ₅)
6	ICRACM 24-180	Ruchir Shrivastava Influence of functionalized MWCNT on flexural strength of glass/epoxy composites	Influence of functionalized MWCNT on flexural strength of glass/epoxy composites

Day 2 - Friday: 13-12-2024	Timing: 01:30 PM –2:30 PM (1.00Hrs)	Venue: Room I
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Technical Session IV

Mechanical Behavior and Optimization of Composite Materials			
Chair		Ajay Vasudeo Rane, DEng, <i>Scientific Managing Editor, ELSEVIER</i>	
Session Manager		Dr. Shiju E., <i>Assistant Professor, Department of Physics, CVV</i>	
S No.	CRID	Name	Title of Presentation
1	ICRACM 24-142	Parshant Kumar <i>Department of Mechanical Engineering, Dr. Vishwanath Karad MIT World Peace University, Pune, Maharashtra, India</i>	Stress Field Analysis for Fiber Gap Optimization in Fiber Reinforced Composites
2	ICRACM 24-174	R. S. Ingalkar <i>Assistant Professor, Department of Civil Engineering, Prof Ram Meghe College of Engineering and Management, Badnera- Amravati, (MS), India</i>	Mechanical Tensile Properties of Hybrid Composites Reinforced with Unidirectional Bamboo and Coir Fibers
3	ICRACM 24-163	A.Maji <i>Assistant Professor, Department of Mechanical Engineering, Asansol Engineering College, Asansol, WB.</i>	A refined plate theory for nonlinear bending analysis of laminated composite plates
4	ICRACM 24-130	Mohan R Krishna <i>Department of Mechanical Engineering, R V College of Engineering, Bengaluru, India</i>	Delamination Prediction in Multiangular Composite Laminates using Cohesive Zone Surface based Modelling & XFEM
5	ICRACM 24-192	Prabhjot Sharma <i>School of Chemical Engineering and Physical Sciences, Lovely Professional University, Jalandhar- Delhi G.T Road, Phagwara, Punjab 144411 India</i>	Impact of Polymer Matrix Selection on the Mechanical and Environmental Performance of Fiber Reinforced Polymer Composites

Day 3 - Saturday: 14-12-2024	Timing: 09:00 AM – 05:00 PM	Venue: Room I
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Schedule in Detail

Event	Dignitaries	Time (IST)
	Prayer	09:00 – 09:05 AM
Technical Sessions V	Chair : Rony Thomas Murickan., <i>FIU Mechanical and Materials Engineering, Florida International University, Miami, USA</i> Session Manager: Bharath K, <i>Assistant Professor of School of Contemporary Knowledge Systems, CVV</i>	09:10 – 10:10 AM
Keynote Address (9)	Dr. Robin Augustine <i>Department of Radiology, Stanford Medicine, Stanford University, Palo Alto, CA</i>	10:30 – 11:15 AM
Venue: Room 1		
Technical Sessions VI	Chair : Jobin Joy., <i>Research Support Officer, Department of Mechanical Engineering, University of Malta</i> Session Manager: Mr. Sharath T R . <i>Department of Mechanical Engineering, CVV</i>	11:30 – 12:30 PM
Technical Sessions VII	Chair : Dr Unnikrishnan T G., <i>Lecturer in engineering ,Leicester College, Leicester, UK</i> Session Manager: Dr. Suvanish Kumar, <i>Assistant Professor IST, CVV</i>	01:30 – 02:30 PM
Keynote Address (10)	Prof. B. Negeshwara Rao, <i>K.L. University, Vijayawada, AP, India</i>	03:00-03:45 PM
Venue: Room 1		

Day 3 - Saturday: 14-12-2024	Timing: 09:10 – 10:10 AM (1.00Hrs)	Venue: Room I
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Technical Session V

Engineering and Structural Applications			
Chair		Rony Thomas Murickan., <i>FIU Mechanical and Materials Engineering, Florida International University, Miami, USA</i>	
Session Manager		Bharath K., <i>Assistant Professor of School of Contemporary Knowledge Systems, CVV</i>	
S No.	CRID	Name	Title of Presentation
1	ICRACM 24-131	Sarath Babu Ramachandran <i>Research Scholar, Department of Mechanical Engineering, Government Engineering College Thrissur & Assistant Professor, Vidya Academy of Science & Technology, Thrissur</i>	Corrosion Characterization of Magnesium Alloy Hybrid Composite as Temporary Bone Implant Material
2	ICRACM 24-176	S. M. Harle <i>Department of Civil Engineering, Prof Ram Meghe College of Engineering and Management, Badnera-Amravati, (MS), India</i>	Analysis of the Impact of Fiber Composites on Concrete Joints
3	ICRACM 24-177	M. V. Mohod <i>Assistant Professor, Department of Civil Engineering, Prof Ram Meghe Institute of Technology & Research, Badnera-Amravati, (MS), India</i>	Reinforcing Pervious Concrete with Carbon Fiber Composites
4	ICRACM 24-126	Umashankar, D <i>Scientist F, ASL, DRDO, Kanchanbagh P.O., Hyderabad-500058, India.</i>	Evaluation of Composite Liner de-bonds in large size flex nozzle system for its Salvage using X-Ray Radiography
5	ICRACM 24-149	Subhabrata Koley <i>Assistant Professor, Department of Aerospace Engineering and Applied Mechanics, IEST Shibpur</i>	Computational Modeling and Asymptotic Homogenization on Prepreg based Discontinuous Composite

Day 3 - Saturday: 14-12-2024	Timing: 11:30 – 12:30 PM (1.00Hrs)	Venue: Room I
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Technical Session VI

Emerging Applications and Technologies			
Chair		Jobin Joy., <i>Research Support Officer, Department of Mechanical Engineering, University of Malta</i>	
Session Manager		Mr. Sharath T R . <i>Department of Mechanical Engineering, CVV</i>	
S No.	CRID	Name	Title of Presentation
1	ICRACM 24-164	Nitish Kumar <i>Department of Civil Engineering, Nejaji Subash University of Technology, West Campus New Delhi, 73, India</i>	Use of Artificial Intelligence for Assessing Mechanical Properties of Composite Recycled Aggregate Concrete
2	ICRACM 24-104	Suresh Muthusamy <i>Department of Electrical and Electronics Engineering, Kongu Engineering College (Autonomous), Perundurai, Erode, Tamil Nadu, India</i>	Self-Powered Autonomous Robotic Vehicle for Gas Detection and Filtration
3	ICRACM 24-105	Suresh Muthusamy <i>Department of Electrical and Electronics Engineering, Kongu Engineering College (Autonomous), Perundurai, Erode, Tamil Nadu, India</i>	Floating Technology Assisted Electrochemical Reduction Using Green Energy
4	ICRACM 24-156	Varsha Geo <i>Mahatma Gandhi University, School of Energy Materials, Kottayam-686560, Kerala, India</i>	Zinc telluride with manganese Doping: Exploring new frontiers in energy applications
5	ICRACM 24-143	Aiswarya P <i>Research scholar, Research Department of Chemistry, Sri Vyasa N. S. S. College Thrissur, Kerala</i>	Application of Ni-Co-GO composite electrode synthesized through facile method for selective detection of chemical compound
6	ICRACM 24-152	Jayalakshmi C <i>Mahatma Gandhi University, School of Energy Materials, Kottayam-686560, Kerala, India</i>	A comprehensive study of mercury doped cadmium telluride for cutting edge energy technologies

Day 3 - Saturday: 14-12-2024	Timing: 01:30 – 02:30 PM (1.00Hrs)	Venue: Room I
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Technical Session VII

High-Temperature and High-Performance Composites			
Chair		Dr Unnikrishnan T G., <i>Lecturer in engineering ,Leicester College, Leicester, UK</i>	
Session Manager		Dr. Suvanish Kumar, <i>Assistant Professor IST, CVV</i>	
S No.	CRID	Name	Title of Presentation
1	ICRACM 24-178	M. E. Annadorai <i>Ph.D. Research Scholar, Department of Mechanical Engineering, Vignan's Foundation for Science, Technology, and Research (Deemed to be University), Guntur-522213, AP, India.</i>	A Review of the Application and Necessity of Magnesium Alloy-Based Sandwich Composites in Aircraft Components
2	ICRACM 24-144	Sanket Tribhuwan <i>Composites Research Center, Research and Development Establishment (Engineers), DRDO, Ministry of Defence, Alandi Road, Pune - 411 015, India.</i>	Carbon fibre composites for high temperature applications through RFI process
3	ICRACM 24-151	S. Mirudhula Shree <i>Department of Physics, S.D.N.B. Vaishnav College for Women, Chrompet, Chennai, India</i>	Structural and Ionic Properties of PMMA/PEO Polymer Electrolyte using CdBr ₂ and MgO
4	ICRACM 24-128	Basil P Joy <i>Post graduate and Research Department of Chemistry, Mar Athanasius College (Autonomous) Kothamangalam, Kerala, 686666</i>	Enhancement of mechanical properties of the wool-natural rubber composites using clay as a filler via Box-Behnken experimental design
5	ICRACM 24-190	Manisha Bajpai <i>Department of Physics, SNS College, Motihari, BRABU, Muzaffarpur Bihar, India</i>	Impact of Grain Boundary Effects in PFO: MEH-PPV Polymer Blend Films for Enhanced AC Conductivity

Valedictory Session		
Room 1		
Prayer		04:00 – 04:02 PM
Introduction	Ms. Anupama Jims <i>Assistant Professor</i> <i>CVV Institute of Science and Technology</i>	04:03 – 04:07 PM
Welcome Address	Dr. Anand H S <i>Acting Principal</i> <i>CVV Institute of Science and Technology</i>	04:07 – 04:15 PM
Valedictory Note	Prof. Vishweshwar P. Kallimani <i>Senior Professor</i> <i>CVV Institute of Science & Technology</i>	04:15 PM-04:25 PM
Feedback Session		04:25 – 04:35 PM
Conference Report	Prof.Dr. Vijaya Kumar Srivastava. , <i>Professor,</i> <i>Department of Mechanical Engineering, CVV,</i> <i>Founding Director-ICRACM series</i>	04:35 – 04:45 PM
Award Ceremony	Announcement of Awards by Dr. Rajendran Perumal <i>Director- Accreditation & Quality Systems, Associate</i> <i>Professor of Management, CVV</i>	04:45 – 04:50 PM
Vote of Thanks	Dr. Praveen K M <i>Organising Secretary, ICRACM-2024,</i> <i>Associate Professor of Mechanical Engineering, CVV</i>	04:50 – 05:00 PM
National Anthem		05:00 – 05:05 PM



**Chinmaya
Vishwa Vidyapeeth**
Deemed to be University

CONFERENCE SCHEDULE




Chinmaya
Vishwa Vidyapeeth
Deemed to be University

7th
International
Conference

**Recent Advances in
Composite Materials**
(ICRACM - 2024)

12-14
December
2024



THREE DAYS | EIGHT TRACKS | KEYNOTE SESSIONS | PANEL DISCUSSIONS
PAPER PRESENTATIONS | COLLABORATION & NETWORKING