



ACTIVITY REPORT

**“Two-day National Conference on
Interdisciplinary
Advances in Sustainability & Technology
(Srushti Sanjivan)”
(UNDER PM USHA SCHEME)**

**Jointly Organised by
Department of Technology
Department of Environmental Science,
Centre of Climate Change & Sustainability Studies,
Department of Geography,
Shivaji University, Vidya Nagar, Kolhapur-416004,
Maharashtra, India**

&

ISHRAE, Kolhapur Chapter



**Venue:
Rajarshi Shahu Senate Hall
Department of Technology Auditorium**

**Day and Date:
*6th and 7th March, 2025***

Workshop Invitation

Pradhan Mantri Uchchatar Shiksha Abhiyan (PM-USHA)



6th to 7th March, 2025

**Two-day National Conference titled
"National Conference on Interdisciplinary
Advances in Sustainability & Technology
(Srushti Sanjivan)"**



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Maharashtra, India
&
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• Title of the event:	Two-day National Conference on Interdisciplinary Advances in Sustainability & Technology (Srushti Sanjivan)” (UNDER PM USHA SCHEME)
• Type of event: (seminar/workshops/FDP/ STPP/conference/Training/ Alumni talks etc.):	Conference: 10 Hours duration per day
• Level:	IV
• Program theme:	Research, Innovation and Entrepreneurship
• Day and Date of the event:	6 th and 7 th March, 2025
• Objectives of the event:	<ol style="list-style-type: none"> 1. To promote interdisciplinary dialogue and collaboration. 2. To provide a platform for presenting innovative research, industrial advancements, and technological solutions 3. To encourage academic excellence and recognize impactful contributions

• Participant details:	The program was open to engineering students and faculty members.
• Participants	400
• Photographs:	Attached at the end of the report
• Key Outcomes of The Activity:	The conference successfully facilitated interdisciplinary knowledge sharing, collaboration, and innovation in support of sustainable development goals. Expert lectures and panel discussions enriched participants' understanding of key sustainability challenges. The event encouraged networking and future collaborations among academia, industry, and professional bodies.

A. Introduction:

The Department of Technology had the privilege of hosting the third National Conference, *SRUSHTI SANJIVAN*, on 6–7 March 2025. The event was organised in collaboration with the Department of Environmental Science, the Centre for Climate Change and Sustainability Studies, the Department of Geography, and the ISHRAE Kolhapur Chapter. The venue for the conference was Shivaji University, Kolhapur.

This national-level academic gathering served as a distinguished platform for researchers, engineers, academicians, and scholars at undergraduate, postgraduate, and doctoral levels to disseminate scientific knowledge, present industrial innovations, and share recent research outcomes. The conference was centred on the theme of **Sustainable Development**, addressing critical societal challenges in alignment with the United Nations Sustainable Development Goals (SDGs). The thematic areas included food security, sustainable agriculture, health and well-being, quality education, clean water and sanitation, affordable and clean energy, sustainable urban development, climate action, and biodiversity conservation.

The two-day programme featured keynote addresses by subject matter experts, technical paper presentations, and thought-provoking panel discussions. In recognition of academic excellence, awards were conferred upon the best paper presentations.

This report presents an overview of the conference proceedings, summarizing key discussions, research contributions, and insights shared during the event. It serves as a comprehensive record of the knowledge exchanged, emphasizing the role of interdisciplinary collaboration in achieving sustainability goals and shaping a resilient, eco-friendly future.

SRUSHTI SANJIVAN 2025 reaffirmed its significance as a vital forum for interdisciplinary dialogue and the advancement of knowledge in support of sustainable development initiatives.

B. Conference Thematic Areas

The conference invited research contributions and scholarly submissions on a wide range of topics aligned with the overarching theme of *Sustainable Development*. The thematic areas addressed during the conference included, but were not limited to, the following:

- Sustainable Infrastructure Development

- Urban Waste Management
- Pollution Control in Metropolitan Areas
- Environmental Engineering: Ecological Issues and Preventive Measures
- Smart Materials and Their Applications
- Structural Strengthening and Retrofitting
- Recent Advances in Concrete Technology
- Composite Structural Systems
- Application of Sensors and Satellite Technology in Disaster Management
- Geographic Information Systems (GIS) and Remote Sensing Applications
- Demolition Technologies and Innovations
- Slope Stability and Landslide Mitigation
- Wave Propagation and Structural Vibrations
- Smart City Planning and Development
- Innovative Traffic Control Mechanisms
- Decarbonization Strategies for Urban and Industrial Systems
- Net-Zero Energy Building Design
- Energy Efficiency in Building Systems and Equipment
- Analysis of Flood Causes and Mitigation Techniques
- Utilisation of Renewable Energy Sources
- Climate Change: Causal Factors and Mitigation Approaches
- Climate Perspective on Droughts and Forest Fires
- Technological Innovations for Eco-Sensitive and Fragile Zones
- Artificial Intelligence and Machine Learning Applications for Sustainability
- Food Security, Improved Nutrition, and Sustainable Agricultural Practices
- Any other topics relevant to the theme of sustainable development

These thematic areas provided a comprehensive framework for scholarly exchange, encouraging interdisciplinary approaches to contemporary environmental and technological challenges.

C. Conference Schedule:

Day 1: Thursday, 6 th March, 2025		Venue
9.00am - 10.00am	Registration & Breakfast	Rajarshi Shahu Hall (Senate Hall), Shivaji University, Main Building, Kolhapur
10.00am - 11.00am	Inauguration: Chief Guest: Managing Director, Bunkerman Global Solutions Pvt. Ltd., New Delhi, India	
11.00am - 11.30am	Key Note Address: Major General	
11.30am - 11.45am	Tea	
11.45am - 12.15pm	Expert Lecture I: Maj. Gen. Dr. Shri Pal Nagar, VSM (Retd.), Managing Director, Bunkerman Global Solutions Pvt. Ltd., New Delhi, India	
12.15pm - 12.45pm	Expert Lecture II: Maj. Gen. Dr. Shri Pal Nagar, VSM (Retd.), Managing Director, Bunkerman Global Solutions Pvt. Ltd., New Delhi, India	
12.45pm - 2.00pm	Lunch	
2.00pm - 4.00pm	Panel discussion on Day 1*	Rajarshi Shahu Hall (Senate Hall), Shivaji University, Main Building, Kolhapur
2.00pm - 4.00pm	Technical Session I*	Department of Technology
Day 2: Friday, 7 th March, 2025		Venue
09.30am - 10.00am	Breakfast	Rajarshi Shahu Hall (Senate Hall), Shivaji University, Main Building, Kolhapur
10.00am - 10.30am	Expert Lecture III: Rabindra Debnath	
10.30am - 11.00am	Expert Lecture IV: Rabindra Debnath	
11.00am - 11.15am	Tea	
11.15am - 1.15pm	Technical Session II	Department of Technology
1.15pm - 2.15pm	Lunch	
2.15 pm - 3.15pm	Panel discussion on Day 2*	Rajarshi Shahu Hall (Senate Hall), Shivaji University, Main Building, Kolhapur
2.15 pm - 3.15pm	Technical Session III	Department of Technology
3.15pm - 3.30pm	Feedback	
3.30pm - 4.00pm	Valedictory: Dr. Pratap K. Desai, President, ISTE	Rajarshi Shahu Hall (Senate Hall), Shivaji University, Main Building, Kolhapur

D. Inauguration Programme:

The inauguration ceremony of *SRUSHTI SANJIVAN 2025* was held on 6th March 2025 at the prestigious Rajarshi Shahu Senate Hall. The event commenced with a formal inauguration of the conference, followed by a warm welcome address delivered by the Director of the Department of Technology. Dignitaries on the dais were then felicitated, and the conference souvenir was officially unveiled, marking a symbolic start to the two-day national event. Dr. P.P. Phadnis, Convener of the conference, presented an insightful overview of the event, outlining its objectives, themes, and the importance of interdisciplinary collaboration in addressing sustainable development challenges.

Mr. Pramod Pungaonkar, President of ISHRAE, Kolhapur Chapter, provided a brief introduction to ISHRAE's role in promoting sustainable solutions in the HVAC&R sector and its collaboration in the conference. Dr. Rasiya Padalkar introduced the keynote speaker, highlighting his remarkable contributions to defence and sustainability. The keynote address was delivered by Chief Guest Maj. Gen. Dr. Shri Pal Nagar, VSM (Retd.), Managing Director of Bunkerman Global Solutions Pvt. Ltd., New Delhi. In his address, he emphasised the urgent need for innovative technologies and cross-sectoral efforts to address global sustainability issues, drawing on his vast experience in national service and strategic infrastructure development.

The inauguration concluded with an inspiring presidential address by Hon'ble Vice-Chancellor, Prof. (Dr.) D.T. Shirke, who praised the initiative and underscored the university's commitment to fostering research that supports sustainable growth. The ceremony came to a close with a formal vote of thanks delivered by Co-convener Er. S.B. Kale, who acknowledged the efforts of the organising committee, dignitaries, and participants for making the event a grand success.

E. Conference Overview: Interdisciplinary Advances in Sustainability & Technology

The conference on Interdisciplinary Advances in Sustainability & Technology brought together students, faculty members, industry experts, and engineers to explore cutting-edge advancements in sustainable technologies across multiple engineering disciplines. The event served as a dynamic platform for knowledge exchange, fostering collaboration between

academia and industry. This conference offered an excellent platform for researchers, engineers, academicians, & UG, PG, & Ph.D. scholars to share scientific knowledge, industrial innovations, & research outcomes. Focused on the theme of Sustainable Development, the event addresses pressing societal challenges aligned with the UN Sustainable Development Goals (SDGs), including food security, sustainable agriculture, health & well-being, quality education, clean water & sanitation, affordable & clean energy, sustainable cities, climate action, & biodiversity conservation.

The conference featured insightful paper presentations and interactive poster displays from participants in various engineering domains, including Civil Engineering, Mechanical Engineering, Computer Science & Technology, Electronics Engineering, Chemical Engineering, and Food Technology. In total, approximately 15 research papers were presented, showcasing innovative approaches to sustainability in engineering. Additionally, 6-8 posters were displayed, highlighting ongoing research and technological developments.

Key topics discussed in the sessions included sustainable infrastructure, energy-efficient manufacturing, smart computing solutions, eco-friendly chemical processes, advancements in electronics for green technologies, and innovations in food processing for sustainability. The diverse range of presentations and discussions underscored the importance of interdisciplinary collaboration in addressing global sustainability challenges.

The conference provided a valuable opportunity for participants to engage in meaningful discussions, gain insights into emerging trends, and explore potential applications of sustainable technology in real-world scenarios. With the active participation of students, researchers, and industry professionals, the event successfully promoted the exchange of ideas and the development of future-ready sustainable solutions.

F. Mapping Conference Objectives to the Theme of Sustainable Development

The **Conference on Interdisciplinary Advances in Sustainability & Technology** was structured around key objectives that align with the principles of **Sustainable Development** and the **United Nations Sustainable Development Goals (SDGs)**. The conference aimed to foster academic excellence, industry collaboration, and technological advancements in sustainability-driven solutions. The following objectives were central to the event:

1. **To Promote Interdisciplinary Dialogue and Collaboration:**

- The conference brought together experts from **Civil Engineering, Mechanical Engineering, Computer Science & Technology, Electronics Engineering, Chemical Engineering, and Food Technology** to facilitate knowledge-sharing across disciplines.
- Discussions centered on sustainability challenges such as **food security, clean energy, climate action, and AI/ML applications in sustainability**, emphasizing the need for interdisciplinary solutions.

2. **To Provide a Platform for Presenting Innovative Research, Industrial Advancements, and Technological Solutions:**

- Participants presented **approximately 15 research papers and 6-8 posters**, showcasing novel approaches to sustainability, including **renewable energy technologies, green infrastructure, waste management, smart agriculture, and AI-driven sustainability models**.
- Industry professionals and researchers shared insights into **cutting-edge technological advancements**, bridging the gap between academic research and practical industrial applications.

3. **To Encourage Academic Excellence and Recognize Impactful Contributions to Paper Presentations:**

- The event emphasized **research quality, innovation, and real-world applicability**, fostering academic excellence in sustainability-driven engineering and technology.
- Outstanding contributions were acknowledged, reinforcing the importance of impactful research that contributes to **sustainable cities, biodiversity conservation, health & well-being, and clean water & sanitation**.

By integrating these objectives with the theme of **Sustainable Development**, the conference successfully created a dynamic forum for **collaboration, knowledge exchange, and innovation**, driving forward the global sustainability agenda.

G. Valedictory Programme:

The *Valedictory Function* of *SRUSHTI SANJIVAN 2025* took place on 7th March 2025 at the Rajarshi Shahu Senate Hall, marking the formal conclusion of the two-day national conference. The ceremony began with a brief yet comprehensive overview of the conference presented by the Prof. Dr. A. B. Kolekar, Director of the Department of Technology, highlighting the key sessions, expert lectures, technical paper presentations, and the vibrant exchange of ideas that took place over the course of the event. This was followed by the *Best Paper Award* distribution, recognising outstanding research contributions made by participants across various thematic areas.

The Chief Guest, Dr. Pratap Desai, Chairman of ISTE, New Delhi, delivered an inspiring address that emphasised the importance of innovation, research excellence, and academic collaboration in shaping a sustainable future. He appreciated the initiative taken by Shivaji University and encouraged young researchers to continue contributing meaningfully to national and global challenges. The presidential address was delivered by Prof. (Dr.) S.D. Delekar, Director, Innovation, Incubation and Linkages, Shivaji University, Kolhapur. He commended the organisers for curating a highly impactful conference and reiterated the university's support for research and innovation in sustainable development.

The function concluded with a formal vote of thanks by Dr. P.P. Phadnis, Convener of the conference, who expressed gratitude to the dignitaries, invited speakers, participants, volunteers, and all contributors for their active involvement and support in making *SRUSHTI SANJIVAN 2025* a resounding success.

H. Acknowledgements:

The organisers sincerely thank the university leadership, including Prof. (Dr.) D. T. Shirke, Hon. Vice Chancellor, Prof. (Dr.) P. S. Patil, Hon. Pro-Vice-Chancellor (Hon. President, IIC SUK), Dr V. N. Shinde, Registrar, Prof. (Dr.) S. D. Delekar, (Director, Innovation, Incubation and Linkages), Prof. (Dr.) A. B. Kolekar (I/C Director, Department of Technology), Prof. Dr. G. S. Kulkarni, and Mr. Pramod Pungaonkar, President, ISHRAE, Kolhapur. The conference committee also sincerely thank Maj. Gen. (Rtd.) Shri Pal (Chief

Guest for Inauguration Programme) and Dr. Pratapsinh Desai (President, ISTE, New Delhi) the chief guest for valedictory function.

Organisers also thank Co Convener Er. S. B. Kalek and Er. S. B. Porlekar, Coordinators of various B. Tech. and M. Tech. Programmes, expert resource persons, experts, participants, volunteers and committee members for their active support and participation to make this conference successful.

Dr. P. P. Phadnis
Conference Convener

Director
Department of Technology

PHOTOGRAPHS



Photo – Inauguration Session (from left) – Er. S. B. Kale, Dr. P. P. Phadnis, Maj. Gen (Rt) Shri Pal, Prof. Dr. D. T. Shirke (Hon. Vice Chancellor), Shri. Pungaonkar, Prof. Dr. A. B. Kolekar (Director, Department of Technology)



Photo: Shri. Pungaonkar welcoming Prof. Dr. D. T. Shirke, Hon. Vice Chancellor, Shivaji University, Kolhapur.



Photo – Prof. Dr. D. T. Shirke, Hon. Vice Chancellor felicitating Maj. Gen. (Rtd.) Shri Pal, Chief Guest.



Dr. Pratapsinh Desai, Chairman, ISTE, New Delhi during his speech. Seen from left, Dr. Pratapsinh Desai, Prof. Dr. G. S. Kulkarni, Prof. Dr. A. B. Kolekar, Prof. Dr. S. D. Delekar, Dr. P. P. Phadnis, Er. S. B. Kale



Photo - Prof. Dr. A. B. Kolekar, I/C Director, Department of Technology during his speech



Photo – Organising committee members with chief guest for valedictory function



Photo – Presentations at Food Technology



Photo – Presentations at Electronics Engineering and Technology



Photo – Presentations at Computer Science and Technology



Photo – Presentations at Chemical Engineering



Photo – Presentations at Mechanical Engineering



Photo – Presentations at Civil Engineering

CONFERENCE UPDATES IN NEWS

किफायतशीर कार्बनशोषक तंत्रज्ञान विकासाची गरज

मेजर जनरल डॉ. श्री पाल; 'सृष्टी संजीवन' राष्ट्रीय पर्यावरण परिषदेस प्रारंभ

कोल्हापूर : पुढारी वृत्तसेवा

पर्यावरणातील कार्बनचे उत्सर्जन रोखणे ही आजची महत्त्वाची गरज आहेच, पण त्याचबरोबर वातावरणातील कार्बन थेट शोषून घेणारे किफायतशीर तंत्रज्ञान विकसित करण्याच्या दिशेने संशोधनाची दिशा केंद्रित करणे आवश्यक आहे, असे प्रतिपादन विशिष्ट सेवा पदक पुरस्कृत मेजर जनरल डॉ. श्री पाल यांनी केले.

शिवाजी विद्यापीठाचा तंत्रज्ञान अधिविभाग, पर्यावरणशास्त्र अधिविभाग, हवामान बदल व शाश्वतता अभ्यास केंद्र, भूगोल अधिविभाग आणि इंडियन सोसायटी ऑफ हीटिंग रेफ्रिजरेटिंग अँड एअर कंडिशनिंग इंजिनियर्स (इशरे) संस्थेचा कोल्हापूर चाप्टर यांच्या संयुक्त विद्यमाने 'सृष्टी संजीवन' या राष्ट्रीय पर्यावरण परिषदेच्या उद्घाटन समारंभात बोलतांना ते बोलत होते. अध्यक्षस्थानी कुलगुरू डॉ. डी. टी. शिर्के होते. इशरे-



कोल्हापूर : शिवाजी विद्यापीठात सृष्टी संजीवन राष्ट्रीय पर्यावरण परिषदेच्या उद्घाटन समारंभात बोलतांना मेजर जनरल डॉ. श्री पाल. मंचावर मान्यवर.

कोल्हापूरचे प्रेसिडेंट प्रमोद पुंगावकर प्रमुख उपस्थित होते.

मेजर जनरल डॉ. श्री. पाल म्हणाले, जीवसृष्टीच्या अस्तित्वासाठी कार्बनचे प्रमाण कमी करणे आणि संतुलित राखणे अत्यावश्यक आहे. हे प्रदूषण रोखणे आवाक्यापलीकडचे वाटत असले तरी मानवासह जीवसृष्टीच्या अस्तित्वासाठी ते आपल्याला करावे लागेल.

यावेळी डॉ. पाल यांनी अत्याधुनिक बंकर तंत्रज्ञान विकास आणि उभारणी याकामी बजावलेल्या

१३० शोधनिबंध सादर

राष्ट्रीय परिषदेसाठी देशभरातील संशोधकांकडून पर्यावरणविषयक १३० शोधनिबंध प्राप्त झाले आहेत. त्यांचे पुढील दोन दिवसांत विविध सजातून सादरीकरण होईल.

कामगिरीविषयी माहिती दिली. तंत्रज्ञान अधिविभागाचे संचालक डॉ. ए. बी. कोळेकर यांनी स्वागत केले. डॉ. पुनश्री फडणीस यांनी प्रास्ताविक केले. डॉ. पी. ए. प्रभू यांनी पाहुण्यांचा परिचय करून दिला.

पृथ्वीवर २२०० सालापर्यंत जीवसृष्टी राहाणार नाही

■ मेजर जनरल डॉ. श्री पाल यांचे प्रतिपादन

प्रतिनिधी
कोल्हापूर

औद्योगिक क्षेत्र, आणि वाढत्या वाहनांमुळे हवेत कार्बनडाय ऑक्साईडचे प्रमाण खूप वाढत आहे. तसेच मोठमोठाली झाडे तोडून अनेक मजली बांधकाम उभारली जात आहेत. परिणामी पर्यावरण प्रदुषणात वाढ झाली आहे. कार्बन उत्सर्जनामुळे २२०० सालापर्यंत पृथ्वीतलावर जीवसृष्टी राहाणार नाही, असे प्रतिपादन मेजर जनरल डॉ. श्री पाल यांनी केले.

शिवाजी विद्यापीठ आणि इंडियन सोसायटी ऑफ हीटिंग, रेफ्रिजरेटिंग अँड एअर कंडिशनिंग इंजिनियर्स (इशरे कोल्हापूर चाप्टर) यांच्या



कोल्हापूर : कार्यशाळेत मेजर जनरल श्री पाल यांचा सत्कार करताना कुलगुरू डॉ. डी. टी. शिर्के, सोबत डॉ. अजित कोळेकर, डॉ. गिरीश कुलकर्णी, इशरीचे प्रमोद पुंगावकर, पुनश्री फडणीस, डॉ. सतीश काळे.

संयुक्त विद्यमाने आयोजित राष्ट्रीय पर्यावरण परिषदेच्या उद्घाटनप्रसंगी ते बोलत होते. सृष्टी संजीवन हा या परिषदेचा विषय होता. विद्यापीठातील राजर्षी शाहू सभागृहात झालेल्या परिषदेच्या अध्यक्षस्थानी कुलगुरू डॉ. डी. टी. शिर्के होते.

मेजर पाल म्हणाले, एकीकडे

वाहनांची संख्या वाढली तर दुसरीकडे जंगले, झाडांची कतल करून इमारतीचे बांधकाम होवू लागले आहे. त्यामुळे पर्यावरण प्रदुषणात वाढ होत आहे.

अध्यक्षस्थानावरून कुलगुरू डॉ. शिर्के म्हणाले, इसरेसह अन्य पर्यावरण संघटनांना बरोबर घेवून

शिवाजी विद्यापीठ कायम पर्यावरण संवर्धनाचा प्रयत्न करते. पर्यावरण संवर्धनात शिवाजी विद्यापीठ अग्रेसर असून अशा विविध परिषदा, कार्यशाळांच्या माध्यमातून पर्यावरण संवर्धनासंदर्भात जनजागृती केली जाते. पर्यावरण विभाग, डिपार्टमेंट ऑफ टेक्नॉलॉजी विभाग, भुगोल विभागासह अन्य विभागात पर्यावरण संवर्धनासंदर्भात वेगवेगळे उपक्रम राबवले जातात. त्यामुळे विद्यापीठात जैवविविधता पाहायला मिळते.

प्रास्ताविक अजित कोळेकर यांनी केले. आभार सतीश काळे यांनी मानले. पाहुण्यांची ओळख पी. ए. प्रभू यांनी करून दिली. यावेळी डॉ. चव्हाण, महेश साळुंखे, श्रीकांत भोसले, पी. ए. प्रभू डॉ. पाटील, इशरे कोल्हापूर चाप्टरचे अध्यक्ष प्रमोद पुंगावकर, इशरे कोल्हापूर चाप्टरचे डॉ. कुलकर्णी आदी उपस्थित होते.

किफायतशीर कार्बनशोषक तंत्रज्ञान विकासाची गरज

मेजर जनरल डॉ. पाल : विद्यापीठात 'सृष्टी संजीवन' राष्ट्रीय पर्यावरण परिषदेला प्रारंभ

■ सकाळ वृत्तसेवा

कोल्हापूर, ता. ६ : पर्यावरणातील कार्बनचे उत्सर्जन रोखणे ही आजची महत्त्वाची गरज आहे. पण, वातावरणातील कार्बन घेत शोषून घेणारे किफायतशीर तंत्रज्ञान विकसित करण्याच्या दिशेने संशोधनाची दिशा केंद्रित करणे आवश्यक आहे, असे प्रतिपादन विशिष्ट सेवा पदक पुरस्कृत मेजर जनरल डॉ. श्री. पाल यांनी केले.

शिवाजी विद्यापीठाचा तंत्रज्ञान, पर्यावरणशास्त्र, भूगोल अधिविभाग, हवामान बदल व शास्त्रज्ञ अभ्यास केंद्र, इंडियन सोसायटी ऑफ हौसिंग रेग्युलेशन अँड एअर कंडिशनिंग



कोल्हापूर : शिवाजी विद्यापीठात राष्ट्रीय पर्यावरण परिषदेच्या उद्घाटन समारंभात बोलताना मेजर जनरल डॉ. श्री. पाल. यावेळी डावीकडून सतीश काळे, पुनश्री फडणीस, कुलगुरू डॉ. डी. टी. शिर्के, प्रमोद पुंगावकर, ए. बी. कोळेकर उपस्थित होते.

इंजिनिअर्स (इशरे) कोल्हापूरतर्फे आयोजित 'सृष्टी संजीवन' या राष्ट्रीय पर्यावरण परिषदेला आज प्रारंभ झाला. उद्घाटन समारंभात प्रमुख पाहुणे म्हणून बांजभाषण करताना डॉ. पाल बोलत

होते. अध्यक्षस्थानी कुलगुरू डॉ. डी. टी. शिर्के होते, तर इशरे-कोल्हापूरचे अध्यक्ष प्रमोद पुंगावकर प्रमुख उपस्थित होते. कुलगुरू डॉ. शिर्के म्हणाले, 'समाजाला घातक पर्यावरणीय

महाराष्ट्र भारतीय अणुतंत्रज्ञानाची जनकभूमी

■ मानव जातीच्याच नव्हे, तर एकूणच पृथ्वीवरील जीवसृष्टीच्या अस्तित्वासाठी कार्बनचे प्रमाण कमी करणे आणि संतुलित राखणे अत्यावश्यक आहे. महाराष्ट्र ही भारतीय अणुतंत्रज्ञानाची जनकभूमी असल्याचे मेजर जनरल डॉ. पाल यांनी सांगितले.

दुष्परिणामांपासून वाचविण्यासाठी इशरेने घेतलेला पुढाकार महत्त्वाचा आहे. उद्योग आणि औद्योगिक संस्थांनी उर्रा सहकार्यासाठी पुढे येणे हे सकारात्मक लक्षण आहे.'

तंत्रज्ञान अधिविभागाचे संचालक डॉ. ए. बी. कोळेकर यांनी स्वागत केले. डॉ. गिरीश कुलकर्णी, प्रकाश राऊत,

सचिन पन्हाळकर, एस. बी. सादळे, अतुल इंगळे, महेश साळुंखे, श्रीकांत भोसले, एस. बी. चव्हाण उपस्थित होते. समन्वयक डॉ. पुनश्री फडणीस यांनी प्रास्ताविक केले. डॉ. पी. ए. प्रभू यांनी पाहुण्यांचा परिचय करून दिला. सहसमन्वयक सतीश काळे यांनी आभार मानले.

प्रचंड खपाचे एकमेव निःपक्ष व निर्भीड वैनिक

स्थापना
१९३९

पुढारी

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ज्ञाननिर्मिती केली तरच इनोव्हेशन घडेल : देसाई

सृष्टी संजीवन राष्ट्रीय पर्यावरण परिषदेची सांगता

कोल्हापूर : पुढारी वृत्तसेवा

ज्ञाननिर्मिती केली तरच इनोव्हेशन घडेल, त्यामधून टेक्नॉलॉजी निर्माण होईल. यातून सामान्य माणसांना अनेक सुविधा देता येतील, असे प्रतिपादन आयएसटीईचे चेअरमन प्रतापसिंह देसाई यांनी केले.

शिवाजी विद्यापीठात दोनदिवसीय सृष्टी संजीवन राष्ट्रीय पर्यावरण परिषदेची सांगता झाली. याप्रसंगी ते बोलत होते. परिषदेत राष्ट्रीय स्तरावरून १३० हून अधिक शोधनिबंधांचे सादरीकरण झाले. संशोधकांनी पोस्टर प्रेसंटेशन केले.

डॉ. देसाई म्हणाले, भारतामध्ये दरवर्षी १७ लाख अभियंते तयार होतात. तथापि प्रत्यक्ष जीवनातील समस्या सोडवण्याची क्षमता बाळगणारे अभियंते तुलनेने कमी असतात. जगप्रसिद्ध अनेक कंपन्यांमध्ये ३० टक्के भारतीय अभियंते आहेत. या

कंपन्यांचे सी.ई.ओ. भारतीय आहेत. याचा अर्थ आपल्यामध्ये ती क्षमता आहे.

डॉ. गिरीश कुलकर्णी यांनी शिक्षक हेच अपेक्षित बदल विद्यार्थ्यांमार्फत करू शकतात, असे मत व्यक्त केले. अध्यक्षस्थानावरून बोलताना प्रा. सागर डेळेकर यांनी शिवाजी विद्यापीठ राबवत असलेल्या नावीन्यपूर्ण संकल्पनांचा आढावा त्यांनी घेतला. तंत्रज्ञान अधिविभागाचे प्र. संचालक प्रा. डॉ. अजित कोळेकर यांनी प्रास्ताविक केले. प्रमुख पाहुण्यांची ओळख डॉ. उत्तम बोंबले यांनी करून दिली. निमंत्रक डॉ. पुनश्री फडणीस यांनी आभार मानले. इशरे कोल्हापूर चाप्टरचे अध्यक्ष प्रमोद पुंगावकर व त्यांचे सहकारी, सहनिमंत्रक एस. बी. काळे, सागर पोर्लेकर, महेश साळुंखे, श्रीकांत भोसले यांनी परिश्रम घेतले.

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Mar 9, 2025 Page No. 13
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ज्ञाननिर्मिती केली तरच इनोव्हेशन होईल : प्रतापसिंह देसाई

सृष्टी संजीवन राष्ट्रीय पर्यावरण परिषदेची सांगता

लोकमत न्यूज नेटवर्क

कोल्हापूर : भारतामध्ये दरवर्षी १७ लाख अभियंते तयार होतात. प्रत्यक्ष जीवनातील समस्या सोडवण्याची क्षमता बाळगणारे अभियंते तुलनेने कमी असतात. जगप्रसिद्ध अनेक कंपन्यांमध्ये ३० टक्के भारतीय अभियंते आहेत. या कंपन्यांचे सी.ई.ओ. भारतीय आहेत. याचा अर्थ आपल्यामध्ये ती क्षमता आहे. ज्ञाननिर्मिती केली तरच इनोव्हेशन होईल, असा विश्वास आय.एस.टी.ई.चे चेअरमन प्रतापसिंह देसाई यांनी व्यक्त केला. शिवाजी विद्यापीठाचा तंत्रज्ञान अधिविभाग, पर्यावरण शास्त्र

अधिविभाग, सेंटर ऑफ क्लायमेट चेंज अँड सस्टेनेबिलिटी स्टडीज यांच्यावतीने आयोजित दोन दिवसीय 'सृष्टी संजीवन' राष्ट्रीय पर्यावरण परिषदेची शुक्रवारी सांगता झाली. यावेळी देसाई बोलत होते. या परिषदेत राष्ट्रीय स्तरावरून एकूण १३० हून अधिक शोधनिबंधांचे सादरीकरण झाले. संशोधकांनी पोस्टर प्रेझेंटेशनही केले. डॉ. गिरीश कुलकर्णी यांनी शिक्षक हेच अपेक्षित बदल विद्यार्थ्यांमार्फत करू शकतात, असे प्रतिपादन केले. प्रा. सागर डेळेकर यांनी विद्यापीठ राबवत असलेल्या नाविन्यपूर्ण संकल्पनांचा आढावा घेतला. तंत्रज्ञान अधिविभागाचे प्र. संचालक प्रा. डॉ. अजित कोळेकर यांनी प्रास्ताविक, डॉ. उत्तम बोंबले यांनी परिचय करून दिला. डॉ. पुनश्री फडणीस यांनी आभार मानले.

द. लोकमत, २ मार्च २०२५

Annexure- I

Best Paper Award

Sr No	Name of the discipline	Title of the Paper	Paper /Poster Presentation	Name of Author
1	Computer Science and Technology	Hybrid Approaches Combining soft computing techniques for handwritten signature pre-processing.	Poster Presentation	Mr.Sunil Tanaji Salunkhe
2	Mechanical Engineering	Application of AI for saving power in a conveyor: A case study by design of user interface for material based automatic belt speed selection for a conveyor.	Paper Presentation	Mr.Jos Mathew Arackal
3	Civil Engineering	Preparation of activated carbon from walnut shell by various Methods.	Paper Presentation	Ms.Pooja Rani
4	Electronics and Telecommunication Engineering	Enhanced hand gesture segmentation with YOLO architecture on Parkinson's disease patient hand Gesture Dataset	Paper Presentation	Mr.Avadhoot Ramgonda Telepatil
5	Chemical Engineering, Food Technology	1.Advances in cassia Tora gum by modification and its uses in food industry. 2.Synthesis and characterization of bio-ionic liquids.	1. Paper Presentation 2. Paper Presentation	1.Mrs.Shital Khandekar and Dr.Irrana S.Udachan 1.Ms.Pranali S.Takale
6	Physics and Any Other	1. A review on a study of numerical analysis in a elastohydrodynamical lubrication. 2.Enchanting Road Transportation network telematics for postal services.	1.Poster Presentation 2.Paper Presentation	1.Ms. Sanika Arjun Kale 2.Ms. Aditi Ranmale and Mr.Vinay Diwate

Organizing Committee members

Committee Members	Goals
1. Planning Committee	
1.1 Finance 1. Prof. (Dr.) P.D. Patil 2. Prof. (Dr.) G.S. Kulkarni	<ul style="list-style-type: none"> • To ensure that conference financial policies and procedures are followed • Establishing and continuous monitoring of conference budget • To secure funding from PG Seminar • Voucher processing, review and approval
1.2 Overall Coordination Committee 1. Prof. (Dr.) A.B. Kolekar 2. Shri. M.S. Salunkhe 3. Dr. P.P. Phadnis 4. Shri. S.B. Kale 5. Shri. S.B. Porlekar	<ul style="list-style-type: none"> • To ensure smooth conduction of conference • To invite University authorities for the program
2. Technical Committee	
2.1 Paper Evaluation and Post printing of papers in UGC approved journals 1. Prof. (Dr.) P.C. Bhaskar 2. Dr. S.B. Chavan 3. Dr. I.S. Udchan 4. Dr. D.M. Nangre 5. Dr. C.J. Awati 6. Dr. V.A. Sawant 7. Dr. G.S. Patil 8. Dr. H.P. Salunkhe 9. Dr. Vidya Swami 10. Prof. Dr. G.S. Kulkarni 11. Dr. V.S. Patil 12. Dr. P.P. Phadnis 13. Dr. J.K. Bagwan 14. Dr. P.R. Bhosale (Dept. of Env. Sc.) 15. Shri. A.S. Patil (Dept. of Geography)	<ul style="list-style-type: none"> • Establish guidelines for paper selection. • Create a list of experts for paper presentation and evaluation. • Collect abstracts and research papers from communication committee. • <i>Set guidelines for paper review.</i> • <i>Review papers with the help of respective experts if required.</i> • <i>Send request to the communication committee if the plagiarism report is unsatisfactory.</i> • <i>Send request to the communication committee for revised papers from authors if the evaluation report from the reviewer suggests revisions.</i> • <i>Check plagiarism reports if required.</i> • To coordinate all activities related to publication of manuscripts in the Journal.

<p>2.2 Program Conduction and Decoration committee</p> <ol style="list-style-type: none"> 1. Dr. S.B. Chavan 2. Shri. V.K. Kamble 3. Smt. Pooja Mane 4. Shri. N.P. Raut 5. Smt. S.P. Dehankar 6. Smt. R.J. Dhabarde 7. Mr. S.T. Patil 8. Shri. M.N. Jadhav 9. Dr. R.R. Ingavale (Dept. of Env. Sc.) 10. Shri. S.K. Powar (Dept. of Geography) 	<ul style="list-style-type: none"> • Ensure the program is conducted smoothly on the event date. • Book Senate Hall for the event. • Identify rooms for technical sessions. • Make necessary arrangements for technical session rooms (e.g., LCD/Smartboard setup). • Print flyers and arrange the stage for the inaugural and valedictory functions in Senate Hall.
<p>2.2 Conference Editor</p> <ol style="list-style-type: none"> 1. Dr. P.P. Phadnis 2. Dr. G.M. Solanki 3. Smt. T.R. Patil 4. Smt. Pooja Mane 5. Smt. V.R. Swami 6. Smt. V.S. Mohite 7. Mr. Avesahemad Husainy (ISHRAE) 8. Shri. S.V. Kumbhar (ISHRAE) 	<ul style="list-style-type: none"> • Send acceptance for abstracts • Assign papers for review to the technical committee • Send review reports to the authors • Collect revised papers from the authors • If required, send it for review to the technical committee • Send acceptance to the participants • Inform participants for registration to the conference and publication of papers • Hand over abstracts to the Souvenir committee.
<p>2.3 Printing of Souvenir</p> <ol style="list-style-type: none"> 1. Smt. N.J. Kotmire 2. Shri. S.M. Gaikwad 3. Shri. Y.S. Vatkar 4. Shri. A.V. Renavikar 	<ul style="list-style-type: none"> • Seek permission from the university press for printing the Souvenir. • Oversee the development and printing of the Souvenir. • Obtain necessary approvals for printing certificates. • Print certificates before valedictory program • Provide Institute information to journal <i>if required</i>.
<p>2.4 Resource Persons</p> <ol style="list-style-type: none"> 1. Shri. S.B. Porlekar 	<ul style="list-style-type: none"> • Collect speaker bio-data from ISHRAE, keep records, and hand them over to the Inaugural Committee. • Sending Invitations to resource persons
<p>2.5 Publicity</p> <ol style="list-style-type: none"> 1. Shri. U.A. Patil 2. Dr. P.P. Patil 3. Shri. G.R. Shinde 	<ul style="list-style-type: none"> • Publish news articles and social media posts with prior permission from university authorities.

	<ul style="list-style-type: none"> Collect photographs from each event, store them, and hand them over to the Conference Evaluation Committee.
2.6 Conference Evaluation 1. Smt. A.A. Manjrekar 2. Shri. H.C. Pandit	<ul style="list-style-type: none"> Prepare a detailed outcome based report of the conference.
3. Operation Committee	
3.1 Registration Committee 1. Dr. A.B. Madhavi 2. Shri. N.P. Raut	<ul style="list-style-type: none"> Monitor overall activities related to registration conducted by ISHRAE.
3.2 Best Paper Award 1. Dr. R.J. Deshmukh 2. Smt. A.H. Bhosale	<ul style="list-style-type: none"> Prepare guidelines for selecting the best paper award from each stream and hand them over to the respective experts/coordinators before the start of technical sessions. Submit the final results of each stream to the Valedictory Committee.
3.3 Inaugural committee 1. Dr. P.A. Prabhu 2. Shri. A.A. Dum 3. Smt. K.S. Kamble	<ul style="list-style-type: none"> Make necessary arrangements for the inaugural function. Prepare the table program for the inaugural function with consent of University authorities. Select anchors for the inaugural function.
3.4 Valedictory committee 1. Dr. U.L. Bombale 2. Smt. Mariya Bagwan 3. Smt. Nikita Dinde	<ul style="list-style-type: none"> Make necessary arrangements for the valedictory function. Prepare the table program for the valedictory function. Select anchors for the valedictory function. Make necessary arrangements for felicitation and awards.
3.5 Discipline Committee 1. Shri. S.M. Bhosale 2. Shri. H.P. Khandagale	<ul style="list-style-type: none"> Maintain overall discipline throughout the conference.
3.6 Final submission of bills 1. Mr. Y.S. Vatkar 2. Shri. V.R. Bage	<ul style="list-style-type: none"> Collect all documents required for processing bills. Submit bills for final approval, liaising with the Director, Coordinator and Convener.
4.0 ISHRAE Sponsorship	
4.1 Fund Raising and Execution By ISHRAE Shri. M.N. Jadhav	<ul style="list-style-type: none"> Collect registration charges from various categories of participants: UG and diploma students, PG students, research scholars, academics, industrialists, and professionals. Secure sponsorships from various agencies.
4.2 Resource Persons By ISHRAE	<ul style="list-style-type: none"> Identify resource persons and send invitations.

Shri. M.N. Jadhav	<ul style="list-style-type: none"> • Arrange hospitality and accommodation for resource persons.
4.3 Hospitality By ISHRAE Shri. M.N. Jadhav	<ul style="list-style-type: none"> • Provide tea, breakfast, and lunch during the conference.

Technical Session Schedule

Two-days National Conference

on

"Conference on Interdisciplinary Advances in Sustainability & Technology_(CIAS25)

(Srushti Sanjivan)"

SCHEDULE FOR TECHNICAL SESSIONS

Branch:(E&TC,Electronics Technology, Electronics Science)

Sr.no	Name of Presenter	Email ID	Oral Presentation	Date & Time	Venue	Paper/ Poster ID
1.	NILOFAR SALIM HUNNARGI	nilofar.hunnargi@gmail.com	Power Point Presentation (PPT) Technical Session I	6 th March 2025 2.00PM to 4.00PM	Department of Technology (Room no. 318)	E01
2.	MISS. NIKITA S.PAWAGE	sas_eln@unishivaji.ac.in				E02
3.	AKHTAR ISMAIL NADAF	akhtarnadaf@gmail.com				E03
4.	PRITAM SHITAL LANGDE	langdeps@sbgimirsaj.org				E04
5.	AVADHOOT RAMGONDA TELEPATIL	avadhoottelepatil@gmail.com				E05
6.	PRIYANKA KRISHNA MORE	morepriyanka121@gmail.com				E06
7.	DR.M.A.MUQUEEM	mq.kitsw@gmail.com				E07
8.	SANA FIROZ AMIN	sana.mulla@gmail.com				E08
9.	RAHUL R JOSHI	rrj9977@gmail.com	Power Point Presentation (PPT) Technical Session II	7 th March 2025 11.15 AM to 1.15 PM	Department of Technology (Room no. 318)	E09
10.	ABHILIT SANJAY SHINDE	abhijeetshinde70@gmail.com				E10
11.	ASHVNI RAJARAM PATIL	ashu04patil@gmail.com				E11
12.	SAMADHAN PATTU GAIKWAD	spg0490@gmail.com				E12
13.	JYOTI NILKNATH TEKE	jyotiteke.suk@gmail.com				E13
14.	ROHINI ANIKET RASAL	rohinirasal312@gmail.com				E14
15.	KIRANKUMAR V PATIL	kiranvpatil5@gmail.com				E15
16.	NAYAN J.KOTMIRE	njk_tech@unishivaji.ac.in				E16
17.	ADITYA RAKESH PATEL	aas_tech@unishivaji.ac.in	Poster Presentation Technical Session III	7 th March 2025 2.15 PM to 3.15 PM	Department of Technology (E&TC LAB-204)	EP01
18.	SANKET ARVIND MALI	ashirolkar8@gmail.com				EP02
19.	BHUSHAN CHANDANE	bhushanchandane04@gmail.com				EP03
20.	LUBNA R. MUJAWAR	p hm.50660@unishivaji.ac.in				EP04
21.	NANDINI V. POTDAR	poojahmane@gmail.com				EP05
22.	AMAR APPASAHEB DUM	amardum108@gmail.com				EP06
23.	AYUSH SHINGATE	shingateayush98@gmail.com				EP07
24.	AKSHTA PATIL	sayali15sm@gmail.com				EP08
25.	SHEFALI AJAY GADDAM	gaddamshefali@gmail.com				EP09
26.	RUPALI SWAPNIL HIRIKUDE	rupalihirikude3596@gmail.com				EP10

Two-day National Conference

On

“Conference on Interdisciplinary Advances in Sustainability & Technology_(CIASST_25) (Srushti Sanjivan)”

SCHEDULE FOR TECHNICAL SESSIONS

Branch: Chemical Engineering, Food Technology, Pharmacy

Sr.no	Name of Author/Presenter	Title of the Paper	Email ID	Paper/ Poster ID	Oral Presentation	Date & Time	Venue
1.	Arvind Vilas Patil	Unlocking Biodegradability: Treatment of Dairy Industry waste water by Hydrodynamic Cavitation	arvindpatil2899@gmail.com	CH1	Power Point Presentation (PPT)	6thMarch 2025 2.00pm to 4.00pm	Department of Technology (Room no. 316)
2.	S. P. Khandekar	A Review on Novel Cassia Tora Gum-Composition, Structure, Production, Modification and its Applications in Food Industry.	snehal.khandekar5@gmail.com	F1			
3.	Padmashri C. Bhadkambekar	Development and Quality Evaluation of Airfried Multigrain Nachos	padmashrib11@gmail.com	F2			
4.	Purva H. Phalke	Development of Carbonated Whey Protein Drink	purvaphalke6@gmail.com	F3			
5.	Kshitija M. Jamadagni	Development of Iron Rich Multi-millet Cookies Fortified with Moringa Powder to Combat Iron Deficiency Anemia	kshitijajamadagni12@gmail.com	F4			
6.	Vaibhav Raju Bage	Preparation of invert syrup from jaggery	bagevaibhav@yahoo.com	F5			
7.	Pranali S. Takale	Synthesis And Characterization Of Bio-Ionic Liquids	pranalitakale07@gmail.com	PH1			
8.	Sujata Chodhari	Synthesis And Characterization Of Bio-Ionic Liquids	sujatachoudhari06@gmail.com	PH2			

1.	Priti P. Borage	Breakthrough Analysis For Fixed Bed Adsorption System Using Adsorbents from Agricultural Wastes: A Short Review	prtiborage.1323@gmail.com	CHP1	Poster Presentation	6th March 2025 2.00pm to 4.00pm	Department of Technology (Room no. 321)
2.	Kishor P. Kumbhalkar	Cellulose from agricultural waste: A Comprehensive Study	kishorkumbhalkar2001@gmail.com	CHP2			
3.	Payal R. Patil & Seema S. Mane	A Short Review on Carbon Capture, Utilization and Sequestration	payalpatil271003@gmail.com	CHP3			

National Conference on Interdisciplinary Advances in Sustainability and Technology (CIAST_25)

Time Table Schedule

Branch:(Computer Science and Technology)

Sr.No.	Name of Author	Email ID	Oral Presentation	Date and Time	Venue	Paper/Poster ID
1	Kavita Prakash Mali	csd@unishivaji.ac.in	Paper Presentation	6th March 2025 2pm to 4pm	Department of Technology (Room no. 113)	CS01
2	Abhijit Vitthal Patil	abhipatil6001@gmail.com				CS02
3	H. P. Khandagale	hpk_tech@unishivaji.ac.in				CS03
4	H. P. Khandagale	vikram25g@gmail.com				CS04
5	Vedant Karande	aam_tech@unishivaji.ac.in				CS05
6	Swapnali Nilesh Jadhav	swapnalichavan25@gmail.com				CS06
7	Aditee Abhijeet Salokhe	aditeeasalokhe615@gmail.com				CS07
8	Jambukeshwar Suresh Pujari	pujari.jambukeshwar@kitcoek.in				CS08
9	SMRUTI ASHOK KULKARNI	wdn.smrutik@gmail.com	Paper Presentation	7th March 2025 11:15AM to 1:15 PM	Department of Technology (Room no. 113)	CS09
10	Mr. Ranjeet S. Patil	meranjit72@gmail.com				CS10
11	Meena Pundalik Sarwade	gadeaseet8@gmail.com				CS11
12	Pragati Ankush Pachore	pachorepragati@gmail.com				CS12
13	Abhijit Vitthal Patil	abhipatil211216@gmail.com				CS13
14	Shubham Bhilare	sbhilare360@gmail.com				CS14
15	Dr. Jameer Khaleel Bagwan	jkb.50658@unishivaji.ac.in				CS15
16	Syed Ahteshamuddin Quadri	syedahtesham1432@gmail.com	Poster Presentation	7th March 2025 2:15PM to 3:15 PM	Department of Technology (Lab No.201)	CSP01
17	Sneha Shivprasad Ghewari	snehaghewari.dypsn@gmail.com				CSP02
18	Rushikesh Prasad Kulkarni	rushikeshpbkulkarni@gmail.com				CSP03
19	Sunil Tanaji Salunkhe	salunkhesunil1992@gmail.com				CSP04
20	Amarja Hanumant Bhosale	amarjabhosale123@gmail.com				CSP05
21	Dr. Jameer Khaleel Bagwan	jkb.50658@unishivaji.ac.in				CSP06
22	Prital Prashant Anbhule	pritalanbhule@gmail.com				CSP07

Two-day National Conference
On
“Conference on Interdisciplinary Advances in Sustainability & Technology_ (CIAST_25) (Srushti Sanjivan)”

SCHEDULE FOR TECHNICAL SESSIONS

Branch :(Mechanical Engineering and Energy Technology)

Technical Session I

Day 1: 6th March 2025

Time: 2:00 pm to 4:00 pm

Venue: Classroom 319, Department of Technology, Shivaji University.

1	Paper ID: ME 01
	Title: Adaptive Solar Tracking System With Strom Safety Mechanism Presenter : Rushikesh Umajee Chavan
2	Paper ID: ME 02
	Title: Application of AI for saving power in a conveyor: A case study by Design of User Interface for Material based Automatic belt speed selection for a conveyor Presenter : Jos Mathew Arackal
3	Paper ID: ME 03
	Title: Performance Analysis of developed Water Cooler Test Rig Presenter : Ghanashyam Mahaling Chendke
4	Paper ID: ME 04
	Title: Predictive Condition Monitoring for Wire Cut EDM Tool Life Optimization: A Review Presenter : Ganesh Vasant Pujari
5	Paper ID: ME 05
	Title: Selection of Optimal Sustainable Materials for Ocular Prosthetics Based on the Study of Conventionally Available Materials Presenter : Niranjana Sudhakar Deshmukh
6	Paper ID: ME 06
	Title: A review: Weed removal techniques in Indian agricultural Sector Presenter : Amol Balawant Rabade

7	Paper ID: ME 07
	Title: Damping Force, Ride and Handling Characteristics of the Vehicle Equipped with Rack and Pinion based Energy Harvesting Shock Absorber Presenter : Prabhakar Dadaso Maskar
8	Paper ID: ME 08
	Title : Development and Performance Evaluation of Viscous Jaggery Filling Low-Cost Automation Workstation Presenter : Sumit Vitthal Patil
9	Paper ID: ME 09
	Title : Experimental Investigation of RCCI Engine with a Design of Experiments (DOE) Approach for Split Injection and Ethanol-butanol Energy Share Presenter : Firoz Bashir Amhad Amin
10	Paper ID: ME 10
	Title : PVDF-Reinforced Hollow Fiber Membranes for Enhanced Biogas Methane Enrichment Presenter : ANANT DATTATRAY AWASARE
11	Paper ID: ME 11
	Title : Sustainable Drilling Optimization of A286 Stainless Steel Using the Taguchi Method for Eco-friendly Manufacturing Presenter : Viddya Sunil Patil

Technical Session II

Day 2: 7th March 2025

Time: 11:15 am to 1:15 pm

Venue: Classroom 319, Department of Technology, Shivaji University

12	Paper ID: ME 12
	Title: A Comprehensive Review of Bidirectional Rectifiers and PWM Converters in Regenerative Energy Applications Presenter : Rohini Aniket Rasal
13	Paper ID: ME 13
	Title: The Enhancement in the Property of the 22-carat gold alloys –A review Presenter : Ajay Krishnarao Madhale
14	Paper ID: ME 14
	Title: Performance Analysis of a Waste Cooking Oil as a Bio-degradable cutting fluid in a CNC Machining Process by MQL (Minimum Quantity Lubrication) Technique Presenter : SUNIL SHARAD JAMADADE
15	Paper ID: ME 15
	Title: Application of Artificial Intelligence and Machine Learning in Foundry for Improvement of Casting Quality Presenter : Harshwardhan Chandrakant Pandit
16	Paper ID: ME 16
	Title: Impact of alcohol-gasoline fuel blends affect engine performance and exhaust emissions - A Review Presenter : Sagar Baburao Porlekar
17	Paper ID: ME 17
	Title: A Review on Casting Process Optimization Presenter: Mr. Mahesh Nivrutti Jadhav.

Technical Session III

Day 2: 7th March 2025

Time: 2:15 pm to 3:15 pm

Venue: Classroom 319, Department of Technology, Shivaji University

1	Paper ID: ET 01
	Title: Role of Artificial Intelligence in Sustainability Presenter : Ramchandra T. Jadhav
2	Paper ID: ET 02
	Title: Second Life Lithium-Ion Batteries for Solar DC System Presenter : Swaroop Rajendra Ghadage
3	Paper ID: ET 03
	Title: Advances in anti-erosion coating technologies for wind turbine blades: A comprehensive review. Presenter : Mr. Ganesh Rajaram Shinde
4	Paper ID: ET 04
	Title: Experimental Uncertainty Analysis for Solar Thermal Energy Storage Systems Presenter Pravin Ashok Prabhu

Rules:

- Papers must be presented by at least one of the listed authors.
- Only full-length research papers submitted and accepted for the conference are eligible.
- The paper must be original, unpublished, and free from plagiarism.

Timing for Each Paper Presentation Activity	Duration (Minutes)
Presentation by Author(s)	8 – 10 min
Q&A with Judges & Audience	3 – 5 min
Total Time Per Paper	12 – 15 min

Two-day National Conference
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SCHEDULE FOR TECHNICAL SESSION I

PowerPoint Presentation

Sr. No.	Paper ID	Title of the Paper	Name of the Presenter	Day & Date	Time Slot	Venue
1.	CE01	Reliability of Natural Rubber Latex-based Geopolymer Concrete with GGBS	Giridhar N. Narule	Thursday, 6th March 2025	Technical Session I 2:00 pm to 4:00 pm	Department of Technology Classroom No. 116
2.	CE02	Hydrological Models for Flood Mitigation: A Comprehensive Review for Watershed Development	Priyanka Pethkar			
3.	CE03	A Comprehensive Review of Demolition Techniques in Sustainable Construction	Dr. Onkar K. Chothe			
4.	CE04	Optimizing Asphalt mix with plastic coated Aggregate	Sabiha S. Tahasildar			
5.	CE05	Comparative study of PRT vs. Existing Bus Transit System in Kolhapur city	Mr. Sandeep S.Nale			
6.	CE06	Performance of Canna indica L.and Arundo donax L in Sludge treatment constructed wetland	Dr. R. M. Garud			
7.	CE07	A review of service life prediction of RCC building structures	Prashant S. Hadkar			
8.	CE08	Role of Use of Recycled Asphalt Pavement and Recycled Aggregate in the Construction of Rigid Pavements	Mr. Masudahmad Riyazahmad Sayyed, Mr. Yuvraj Kitturkar			
9.	CE09	Performance Evaluation Of Sandy Soil By Using Waste Pet Bottles As A Geocell: A Sustainable Approach	Shweta N Vantamuri			

Two-day National Conference
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“Conference on Interdisciplinary Advances in Sustainability & Technology_(CIASST_25)
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SCHEDULE FOR TECHNICAL SESSION

PowerPoint Presentation

Sr. No.	Paper ID	Title of the Paper	Name of the Presenter	Day & Date	Time Slot	Venue
10.	CE10	Assessment and Evaluation of Flood Control Dam as a Sustainable, Structural flood control measure, to the downstream side of the Koyna Dam in Maharashtra	Shree. Sanjay Doiphode	Friday, 7th March 2025	Technical Session II 11:15 am to 1:15 pm	Department of Technology Classroom No. 116
11.	CE11	Simulation-Based Analysis Of Perpetual Pavement By Using Iitpave Software	Vaibhav Uttam Patil			
12.	CE12	Geomorphic Analysis of Kumbhi River basin to Assess Basin Potential by Using Remote Sensing and GIS Techniques	Miss. Akshata Rajgonda Patil, Mr. Digvijay Gajanan wagh			
13.	CE13	Scheduling and Delay Analysis of Construction Project and Implementation of EVM by Microsoft Project Management	Mr. Milind Maruti Kamble			
14.	CE14	Preparation Of Activated Carbon From Walnut Shell By Various Methods	Pooja Rani			
15.	CE15	Development of Green Rating System for Villages in Sangli District- A Case Study for Padmale Village	Mr. Mohite Suhas Bhanudas			
16.	CE16	Deep Learning-Based Framework for Construction Cost Index Estimation: Comparative Analysis of Temporal Models and Attention Mechanisms	Ms Amruta A Bhosale			
17.	CE17	Comparative analysis of seismic response in reinforced concrete buildings with and without infill walls using adaptive pushover analysis	Udayraj J. Patil			

Two-day National Conference
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“Conference on Interdisciplinary Advances in Sustainability & Technology_(CIAST_25)
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SCHEDULE FOR TECHNICAL SESSION III

Poster Presentation

Sr. No.	Poster ID	Title of the Paper/Poster	Name of the Presenter	Day & Date	Time Slot	Venue
1.	CEP01	Sustainable Building Solutions: Transforming Agricultural Waste into Biodegradable Construction Materials	Dhairiyashil Bhosale	Friday, 7th March 2025	Technical Session III 12:15 pm to 3:15 pm	Department of Technology Classroom No. 115
2.	CEP02	Review study on non-linear behavior of castellated steel beams with different shaped openings using FRP stiffeners	Kunal Jagdale			
3.	CEP03	Review study on dynamic behavior of RCC circular elevated water tank with baffle walls	Snehal kadam			
4.	CEP04	The Future of Construction & Demolition Waste Management: A Review of Emerging Trends	Ms.Pragati K Gujar, Mr.Pranav G Khapare			
5.	CEP05	Selection of Effective Waterproofing Techniques to Reduce the Corrosion Problem in Concrete Slab	Pranav bendigeri			
6.	CEP06	Enhancement in seismic performance of high-rise buildings using tuned mass damper and base isolation system – A Review	Shivani D. Pawar			
7.	CEP07	Seismic behaviour of steel building without and with castellated beams	Samruddhi H. Patil			
8.	CEP08	Seismic Vulnerability Analysis of the RC Vertical Irregular Building using Fragility Curve	Ashutosh Phadtare			
9.	CEP09	Butterfly pea plant as natural disinfectant in water: An innovative way for water purification	Saloni. S .Shelar			
10.	CEP10	Exploring Trends In Research Augmenting The Thermal Performance For Building To Improve Indoor Air Quality With Suitable Façade Design In Hot And Humid Climate.	Ar. Sai Sanjay Naik			
11.	CEP11	Development Of Strategy For Implementation Of 3r Principles For Water As Commodity In Group Housing/Apartment Buildings.	Ar. Himanshu G. Kulkarni			

Two-day National Conference

On

“Conference on Interdisciplinary Advances in Sustainability & Technology_(CIASST_25) (Srushti Sanjivan)”

SCHEDULE FOR TECHNICAL SESSIONS

Branch: Physics & Any other

Sr.no	Name of Author/Presenter	Title of the Paper	Email ID	Paper/Poster ID	Oral Presentation	Date & Time	Venue
1.	Dr. Ramchandra T. Jadhav	Renewable Energy Utilization-For Rural Development	ramchandrajadhav_engg@yes.edu.in	PHY1	Power Point Presentation (PPT)	7 th March 2025 11:15am to 1:15 pm	Department of Technology (Room no. 213)
2.	Ms. Supriya Sadashiv Kamble	Study of S4 Index and TEC Variation using IRNSS/NavIC Signals	supriyakamble4495@gmail.com	PHY2			
3.	S. B. Patil	Exploring Global Trends In Research Data Management (RDM) Practices: A Bibliometric Study Through Openalex	sbp.lib@unishivaji.ac.in	A1			
4.	Mrs. Sneha R. Chile	Artificial Intelligence in Education: Advancing Sustainability and Ensuring Quality Education for All	snehachile84@gmail.com	A2			
1.	Ms.Sanika Arjun kale	A review on a study of numerical analysis in elastohydrodynamical lubrication	kalesanika03@gmail.com	AP1	Poster Presentation	7 th March 2025 11:15am to 1:15 pm	Department of Technology (Room no. 213)
2.	Ms.Aditi Prashant Ranmale, Vinay Vidyasagar Diwate, Ms.Yogita Manoj Jangale	Enhancing Road Transportation network using telematics for postal services	ranmaleap@gmail.com	AP2			
3.	Aditya Sharad Patil, Samad Allauddin Balekhan	Omni Directional Robot For Smart Agricultural System	adityasp1710@gmail.com	AP3			
4.	Tejanshu R. Nikam	Urban Waste Management: Challenges, solution & a case study of Kolhapur	tejanshunikam.tn@gmail.com	AP4			