



# Jansons Institute of Technology

Department of Mechanical Engineering

## *Mech.Letter*

(Half yearly newsletter)

Volume : 8 Issue : 1

May/June 2024

**Editor**

- Mr.F.Alexander (AP/Mech)

**Advisor Committee**

- Dr.M.Muthukumaran (Prof / Mech)
- Mr.S.J.Davis Hans (AP/Mech)

**Students Coordinator**

- Mr. Arjun P  
Final Year Mech  
Mr. Balaji S  
Third Year Mech

### **Vision of the Department**

To groom and mould outstanding professionals in the field of mechanical engineering.

### **Mission of the Department**

M1 : To impart quality-bound technical education through knowledge and innovation to succeed in ever-advancing mechanical streams.

M2 : To sharpen young minds through state-of-the-art facilities and projects towards future challenges.

M3 : To foster ethical values through holistic learning, teamwork culture, and socio-economic standards for sustainable growth.

### **Program Educational Objectives (PEOs)**

PEO1 : Graduates will be practitioners in the design, manufacturing, service, and process industries.

PEO2 : Graduates will pursue higher education, be involved in research or become entrepreneurs.

PEO3 : Graduates will be ethically and socially responsible and contribute to society and the country.

### **Program Specific Outcomes (PSOs)**

PSO1 : Apply knowledge of mathematics, science, and engineering fundamentals to model, design, and analyse components or processes.

PSO2 : Apply the knowledge gained in mechanical engineering to the design of product components using CAD/CAE tools.

PSO3 : Apply the acquired knowledge to innovative solutions to cater to societal needs and industrial problems.

**Special Achievements by Students (National/International/Regional)**



# JANSONS INSTITUTE OF TECHNOLOGY (Autonomous)

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Approved by AICTE and Affiliated to Anna University  
Coimbatore - 641659, Tamil Nadu, India  
<https://jit.ac.in> ; [info@jit.ac.in](mailto:info@jit.ac.in) ; Ph: 0421-2264900

## *Congratulates*



### JIT SAE Team "PITTS CREEK"



**AeroTHON 2024**  
organized by  
**SAE INDIA Aerospace Forum**

Declared

- # Rank 39 of 82 colleges in India
- # Rank 11 in Tamilnadu
- # Rank 1 college in Coimbatore

### Publications by students

Mr. Gokul Krishna V Mr. Karthick R	Investigation in Fibre Treatment on Morphology and Mechanical Behaviour of Hibiscus Cannabinus / Curaua /Epoxy Resin with Nano Particles for Bio – Medical Applications
Murigipudi Madhava Surya Nandimbakam Nithin Joy	Development of IoT-based system to monitor and regulate oil quality parameters in real-time industrial applications
Mandapati Bhargav Ponguru Chaithanya Kumar Reddy Savidiboyina Gokul Valluru Vislesh	Efficient Solar Cold Storage for Horticultural Produce for Small Scale Farmers
Satvik Kumar Maliga Shaik Suleman Rajamu Sachin	Formability Study on Thin Sheet Metals
Enugonda Naveen Challakoti Nareh Depangi Balaganesh Varma	Portable Waste Paper Recycling Machine for Sustainable Clean Environment
Pasumarthy Mouneesh Shaik Musharaf Sahil Gujar Mangesh	Design and Development of a Smart Safety System for Flyovers
Yalla Chenchu Venkata Mahendra Pujari Ganesh Naik Arusuru Sudheer	Solar Air Cooler and Heater with Auto Tracking
Alla Saibabu Gopireddy Sethu Bala Sai Srinivas Reddy Somu Sai Kiran Reddy	Development of Solar Multipurpose Agricultural Vehicle
Nellore Sasank Netrambaka Venkata Nihkil Sai Sriram Vamsi	Optimisation of EDM Parameters on Machining Magnesium Alloy AZ31B for Improving Circularity, Cylindricity and Perpendicularity
Shathrak K Akash TKV Vishal SK Jesfer Arun J	Development of Energy Efficient Jet Impingement Evacuated Tube Solar Air Heater assisted dryers for dehydration of Waterhyacinth
Menati Lokesh Shaik Jafar Shaik Masthanvali	Design and analysis of differential drive wheeled mobile robot for all kinds of environment

### Conference, Symposium, Workshops, Seminar, Competitions , Guest Lectures,

S.No	Date	Title of the Guest Lecture	Name of Resource Person	Industry Name and Sector
1	24.05.2024	E-Graphie 6.0 – National Level Technical Contest	Shri. V.Ramesh	Joint Director, Scientist D Bureau of Indian Standards
2	20.02.2024	Technical Session on “Futuristic Trends and Implications in Welding Technology & NDT”	Mr.R.Vishnu,	Welding Inspector, Klaus-Union Engineering India Private Ltd, Pune

### Industrial Readiness Course Conducted

S.No	Title	Category	Dates	Resource Person
1	Advanced Visualization Tools	3D Modeling and Simulation with Creo Parametric	01.04.2024 to 06.04.2024	Mr.F.Alexander, AP/Mech; Mr.V.Murali AP/Mech; Mr.K.Maadesh Kumar AP/Mech
2	Numerical Analysis Integration	Application of Matlab Programming for Mechanical Engineers	01.04.2024 to 06.04.2024	Dr.M.M.Matheswaran, ASP, Prof./Mech



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Karumathampatti, Coimbatore., Tamil Nadu





### Congratulations!...



Team JIT participated in Agri Ideathon 2k24




General category (1st prize)  
Dr.Matheswaran.M.M

**SMART AGRICULTURE (1st prize)**

- 1.Nivethitha .G .I
- 2.Nivetha .G
- 3.Someshwari .R
- 4.Shrinithi .R .M

Mentor: Ms. N. Krishnapriya

**FARM CONNECT (3 Rd prize)**

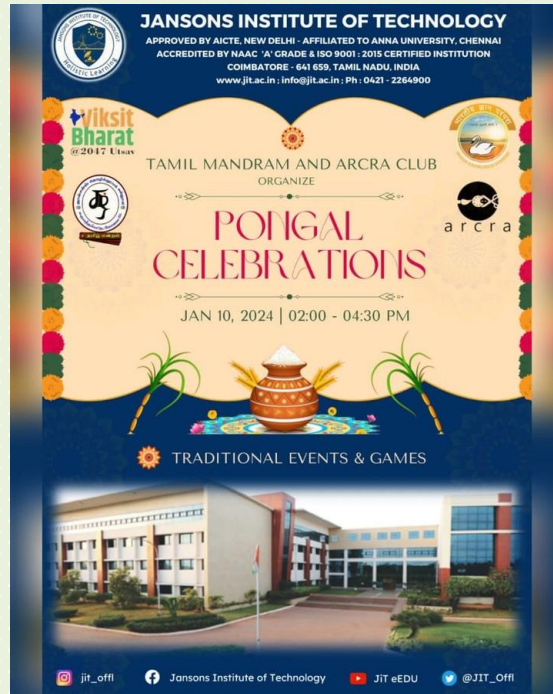
- 1.Bharathsree .S
- 2.Maha Mugesh Ananth
- 3.Murari Shetty Masthan Sathvika
- 4.Hari Prasanth
- 5.Sahana .M

Mentor: Ms. Estherpriya

**GROCYCLE ( 3 Rd Prize )**

- 1.Venkatanathan .G
- 2.Navnaath .D .A
- 3.Shyaamal .S
- 4.Sana Fathima .M
- 5.Tharshini .K


Mentor: Ms. Krishnapriya .MS



JIT Tamil Mandram and ARCRA Club organizes "Pongal Celebrations" on 10th January 2024.



A Technical Session was conducted for the III Mechanical Engineering Students by Mr.R.Vishnu, Welding Inspector, Klaus-Union Engineering India Private Ltd, Pune under the title " Futuristic Trends and Implications in Welding Technology & NDT" on 20th February 2024.




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### JIT IPR Cell


# CONGRATULATES



**Dr.N.Srinivasan**  
Associate Prof / Mechanical Engg

*Design No. : 388844-001*  
*Dt: 09/02/2024*


DEEP DRAWING SYSTEM FOR THIN SHEET METAL



**Mr.D.Sudhakar**  
Assistant Prof / Civil Engg

*Design No. : 395497-001*  
*Dt.: 30/10/2023*

SHEAR CONNECTOR IN COMPOSITE CONSTRUCTION



**Dr.M.M.Matheswaran**  
Associate Prof / Mechanical Engg

*Patent No. : 515641 ; Date of Grant : 27/02/2024*  
*Patent No. : 502027 ; Date of Grant : 23/01/2024*

DEVICE FOR HEATING AIR USING SOLAR EVACUATED TUBE  
EVACUATED SOLAR TUBE EMBEDDED WITH PIERCED TWISTED TAPE SYSTEM FOR HEATING AIR

**for the Grant of Patent & Design during the AY 2023 - 2024**



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**Jansons Create Business Incubator**

# Congratulates



**Dr.M.M.Matheswaran**  
Associate Prof / Mechanical Engg

Winner of 'Idea for Change' Challenge  
organized by  
Tamil Nadu Rural Transformation Project (TNRTP)



*His Innovation selected under the Scheme &*  
**Signing a Tripartite Agreement with TNRTP**  
*for the Enhancement of*  
*Self Help Groups (SHGs) at Thoothukudi District, Tamilnadu*



**JANSONS**  
Institute of Technology



**INTERNATIONAL CONFERENCE**  
on  
**Science, Technology, Engineering and Mathematics 3.0**  
30<sup>th</sup> April 2024 | COIMBATORE, INDIA



Organized by  
Jansons Institute of Technology, Coimbatore  
in Association with  
DFT Training Institute (P) Limited, Bengaluru

Abstract  
Submission  
06<sup>th</sup> March 2024

Full Paper  
Submission  
27<sup>th</sup> March 2024

Intimation of  
Acceptance  
17<sup>th</sup> April 2024

Registration  
Deadline  
20<sup>th</sup> April 2024



**CHIEF PATRON**

**Rtn.MPHF.Shri. T.S.Natarajan, Chairman**  
Jansons Institute of Technology, Coimbatore

**PATRONS**

**Shri. T.N.Kalaimani, Vice-Chairman,**  
Jansons Institute of Technology, Coimbatore

**Shri. T.N.Thirukumar, Vice-Chairman,**  
Jansons Institute of Technology, Coimbatore

**STEERING COMMITTEE CHAIR**

**Dr.V.Nagarajan, Principal, Convener**  
Jansons Institute of Technology, Coimbatore

**STEERING COMMITTEE MEMBERS**

**Dr.S.Elangovan, Vice-Principal, Co-Convener**  
Jansons Institute of Technology, Coimbatore

**Dr.M.V.Sureshkumar, Director Admissions, Co-Convener**  
Jansons Institute of Technology, Coimbatore

**Dr.M.Muthukumar, Prof & Head - MECH, Co-Convener**  
Jansons Institute of Technology, Coimbatore

**ORGANIZING COMMITTEE**

**Dr.S.Elangovan, Prof & Head - AI&DS**  
Jansons Institute of Technology, Coimbatore

**Prof.L.Agnes Preethi, AP & Head - CIVIL**  
Jansons Institute of Technology, Coimbatore

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Jansons Institute of Technology, Coimbatore

**Dr.T.Meenakshi, Prof & Head - IIC**  
Jansons Institute of Technology, Coimbatore

Our Associates



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Jansons Institute of Technology, Coimbatore in association with DFT Training Institute Private Limited, Bengaluru organizes "International Conference on Science, Technology, Engineering and Mathematics 3.0 (ICSTEM-24)" on 30th April 2024.





Women's day celebration at NSS camp organised by NSS, Jansons Institute of Technology, Coimbatore on 08th March 2024 at Chennapachetty Pudur village.



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Karumathampatti, Coimbatore, Tamil Nadu - 641659

The Management, Faculty Members, Staff & Students  
Cordially invite you to the  
**15<sup>th</sup> Annual Day**  
to be held on  
Friday, the 29<sup>th</sup> of March 2024,  
Venue: JSB Auditorium

**Rtn. MPHF. T. S. Natarajan**  
Chairman, Jansons Foundation  
*Presides*

**Dr. A. Ramesh**  
Technology Director  
Bosch, Coimbatore  
*will be the Chief Guest*



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**10<sup>th</sup> Graduation Day**  
Batch 2018-2022

**PRESIDENT**  
**Rtn. MPHF. T. S. Natarajan**  
Chairman  
Jansons Foundation

**CHIEF GUEST**  
**Dr. S. Mohan**  
Vice Chancellor  
Puducherry Technological University  
Institute Chair Professor - IIT Madras

Date: 30<sup>th</sup> March, 2024  
Venue: Padman Auditorium  
Time: 10.30 a.m. Onwards



 <b>A GRADE</b> ACCREDITED	 <b>nirf</b> BAND 151-200 INNOVATION	 <b>IIC RATING</b>
 <b>RESEARCH</b> CENTRE	 <b>HOST</b> INSTITUTE BUSINESS INCUBATOR	 <b>PMKVY</b> Skill India Skill Hub
 <b>MINISTRY OF</b> EDUCATION Best Performing NDLI Club	 <b>SILVER BAND</b> World International SUSTAINABLE INSTITUTIONS RANKING	 <b>ISO</b> 9001:2015 (QMS) 14001:2015 (EMS) 45001:2018 (OHS)

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**Jansons Create Business Incubator**

*Congratulates*



**Dr.M.M.Matheswaran**  
Associate Professor/ Mechanical Engg

**Winner of YUKTI Innovation Challenge 2023**  
organized by  
**AICTE - MoE's Innovation Cell, New Delhi**



*for Business Model Development under his Start-up*  
**Shiniunicorns Solar Technologies Pvt. Ltd**

*with a funding support of*

**Rs.5,00,000**

*under YUKTI Innovation Challenge*

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INSTITUTION'S INNOVATION COUNCIL  
JIT - IIC  
CLUB  
CII  
YUVA Yi Young Indian! WE CAN! WE WILL!

**MoU Signing between JIT & Yi-Yuva**

**SPEAKER**  
Dr. Vivek Manoharan  
Seasoned Biomedical Scientist and Entrepreneur  
Topic : "Innovation & Start-ups"

26th April 2024,  
@ 10.30AM  
Seminar Hall 2,  
JIT

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**JANSONS INSTITUTE OF TECHNOLOGY**  
Coimbatore - 641 659, Tamil Nadu

**"E~GRAPHIE 2K24"**  
An Inter-Departmental Technical Contest on Engineering Graphics on 07-05-2024

**WINNERS LIST**

**Event : EG Marathon**

**1** Ms. Dharshna M B & Ms. Gopika S M  
I Year, CSE

**2** Ms. Vishal.N & Mr. Balaji.V  
I Year, CSE

**3** Ms. Sri Akshaya T & Ms. Shamil Samporna S  
I Year, AI&DS

**3** Ms. Rajeswari S & Ms. Nandhana Pramod  
I Year, ECE

**Event : Science via Standards**

**1** Ms. Mohitha S & Ms. Shankari R A  
I Year, AI&DS

**2** Ms. Singu Harshitha & Ms. Thanniru Bhargavi  
I Year, CSBS

**3** Ms. Ranjana K R & Ms. Mounika R  
I Year, CSBS

**Event : Standards Drafting**

**1** Ms. Radhika C & Ms. Jananitha R  
I Year, Civil

**2** Ms. Karthika N & Ms. Sasmitha S  
I Year, AI&DS

**3** Mr. Sam Jebaston R & Mr. Vijesh. R  
I Year, Mech

Department of MECH in association with BIS Standards Club & ISTE Student Chapter organizes "E-Graphie 2k24 - An Inter-Departmental Technical Contest on Engineering Graphics" on 07th May 2024.



**BUREAU OF INDIAN STANDARDS**  
(THE NATIONAL STANDARDS BODY OF INDIA)  
COIMBATORE BRANCH OFFICE  
*in association with*

**DEPARTMENT OF MECHANICAL ENGINEERING**  
&  
**JIT STANDARDS CLUB**  
*Sixth Edition of JIT Flagship Event*

**EGRAPHIE 6.0**  
NATIONAL LEVEL TECHNICAL CONTEST

**INSTRUCTIONS**

- 0 NO REGISTRATION FEE (FREE PARTICIPATION)
- 1 EXCLUSIVELY FOR FIRST YEAR B.E / B.TECH STUDENTS
- 2 MAX. OF 2 EVENTS PER PARTICIPANTS
- 3 TEAM PARTICIPATION (MAX. OF 3 MEMBERS)

TO REGISTER: [QR Code]

TO KNOW MORE: [QR Code]

6 Dynamic Events / Top 3 Places in all the 6 events / Star Performer Award in all the 6 events

Science & Standards	Standards Drafting	SP-46 Booklet
[QR Code]	[QR Code]	[QR Code]
<b>SCIENCE VIA STANDARDS</b> Learning Science Via Standards for the Given Components	<b>STANDARDS DRAFTING</b> Standardizing the Non-Standard Components	<b>QUIZ COMPETITION SP-46</b> MCQ based Quiz on SP-46 (Prelims & Finals)



Department of MECH & JIT Standards Club organizes "EGraphie 6.0 - National Level Technical Contest" on 24th May 2024.



Industrial Exposure Visit on Hydraulic Machine at Bindu Pumps, Coimbatore on Jun 07, 2024 for the Students of Second year Civil and Mechanical Engineering.