



Jansons Institute of Technology

Department of
Mechanical Engineering



Mech. Letters

(Half yearly newsletter)

Volume : 4 Issue : 1

May / June 2020

Editor

Mr.F.Alexander (AP/Mech)

Advisor Committee

Dr.M.Muthukumaran (Prof / Mech)

Mr.S.J.Davis Hans (AP/Mech)

Students Coordinator

Mr. Sanjuvishaal S (IV Mech)

Mr. Hariharan G (III 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)

Hemanathan A K	Mech / II	Won First place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Arun Eswar M	Mech / II	Won Second place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Vivekanandhan K	Mech / II	Won Third place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Dhanush B	Mech / II	Won Four place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Vignesh S	Mech / II	Won Five place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Baskar R	Mech / III	Won First place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Manoj T	Mech / III	Won Second place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Sri Krishnan Adhithya N	Mech / III	Won Third place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Hariharan.G	Mech / III	Won Four place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Kilinton R	Mech / III	Won Five place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Ashok Kumar A	Mech / IV	Won First place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Sathishkumar T	Mech / IV	Won Second place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Prasanth S	Mech / IV	Won Third place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Sanjuvishaal S	Mech / IV	Won Four place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology
Muthumani K	Mech / IV	Won Five place in Top Rank Holders in the Career Quotient Test organised by Jansons Institute of Technology



Patents, Innovative solutions and concepts approved (student/faculty)

Name	Title	Patent No. / Competition
M.M.Matheswaran	Device for Heating Air Using Solar Evacuated Tube	Application No & Publication Date:202041049838 A & 27/11/2020
Dr.L.ANOJ KUMAR Mr.R.DARSHAN KUMAR Mr.M.KRISHNA KUMAR Mr.K.MAADESH KUMAR Mr.K.KRISHNA KUMAR Dr.P.GOWTHAM Mrs.S.ARUNA	Areca Leaf Shredding Machine	Application No.: 202141007807 A Publication Date : 05/03/2021
Dr.L.ANOJ KUMAR	Smart Care Intravenous Infusion System	202141004805
Mr.M.Magesh	Smart Care Intravenous Infusion System	202141004805
M.M.Matheswaran	Development of Twisted Micro-fins Evacuated Tube Solar Air Heater	Application No & Filled Date:2020104031& 12/12/2020
M.M.Matheswaran	Longitudinal Fins Evacuated Tube Solar Air Heater	Application No & Filled Date: 2021100087 &: 07/01/2021.
M.M.Matheswaran	Evacuated Tube Solar Air Heater with Jet Impingement System,	publication No & Publication Date: 202021054885A & 22/01/2021
Dr.M.Muthukumaran Dr.A.Velayudham Ms.M.Pavithra	On-Site Automated Hazardous Medical Waste Detection by Smart Sensors and Waste Categorization Technique Using a Machine Learning Algorithm	Publication No & Publication Date: No.202121015632 A & 09/04/2021



Students Participation in Extracurricular Activities (Technical and Non-Technical)

Student Name	Year	Event Name	Organized by	Position/Status
Ajith.M	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Ajith.M	IV	India Independence	Heritage & more	Participation
Akash Deep Rajkhowa	IV	Air pollution – a Global Threat to our Health	Coursera	Participation
Akash Deep Rajkhowa	IV	Manufacturing Process with Atudesk 360	Coursera	Participation
Akash Deep Rajkhowa	IV	Renewable Energy and Green Building Entrepreneurship	Coursera	Participation
Ashok Kumar. A	IV	Air pollution – a Global Threat to our Health	Coursera	Participation
Ashok Kumar. A	IV	Product Life Cycle	SRM Institute of Science and Technology	Participation
Ashok Kumar. A	IV	3D Prinitng revolution	Coursera	Participation
Ashok Kumar. A	IV	Application of CFD using ANSYS Fluent	CAD solutions	Participation
Ashok Kumar. A	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Bharath	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Bharath	IV	Aptitude	Joginpally B.R.Engineering College	Participation



Student Name	Year	Event Name	Organized by	Position/Status
Gokul. N	IV	India Independence	Heritage & more	Participation
Hari Karthick. R	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Hari Prasad. S	IV	Manufacturing Science	Seth Vishambhar Nath institute of Science and Technology	Participation
Hari Prasad. S	IV	Basic concepts of Mechanical Engineering	Everest Educational Society's Group of Institutions College of Engineering and Technology	Participation
Hari Prasad. S	IV	Mechanical Engineering	Arulmigu Meenakshi Amman College of Engineering	Participation
Hari Prasad. S	IV	Hydraulics and Pneumatics	Ramco Institute of Technology	Participation
Hari Prasad. S	IV	Basic concepts of Mechanical Engineering	Kaktiya Institute of Technology and Science	Participation
Hari Prasad. S	IV	Building Digital Media using Graphic Design in Google Slides"	Coursera	Participation
Hari Prasad. S	IV	Introduction to Project Management	Coursera	Participation
Hari Prasad. S	IV	Renewable Energy and Green Building Entrepreneurship	Coursera	Participation
Hari Prasad. S	IV	AI for Everyone	Coursera	Participation
Hari Prasad. S	IV	Air pollution – a Global Threat to our Health	Coursera	Participation



Student Name	Year	Event Name	Organized by	Position/Status
Hari Prasad. S	IV	Pro Design	Chaitanya University	Participation
Hari Prasad. S	IV	Manufacturing Technology	K.Ramakrishnan College of Engineering	Participation
Hari Prasad. S	IV	Automobile Engineering (Industry Perception)	Bharat Institute of Engineering and Technology	Participation
Jugin Shalow L	IV	Recent trends in IC engines	Rathinam technical campus	Participation
Jugin Shalow L	IV	India Independence	Heritage & more	Participation
Jugin Shalow L	IV	India Independence	Heritage & more	Participation
Jugin Shalow L	IV	Manufacturing Technology	K.Ramakrishnan College of Engineering	Participation
Kavin Kumar M	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Kishoakkumar. T.V	IV	Mechanical Series - 2	Mahatma Basaveswar Education society College of Engineering Ambajogai	Participation
Kishoakkumar. T.V	IV	Building Digital Media using Graphic Design in Google Slides	Coursera	Participation
Kishoakkumar. T.V	IV	Yantram 2 - Automobile Engineering	Dr.MGR educational and research institute	Participation
Kishoakkumar. T.V	IV	Air pollution – a Global Threat to our Health	Coursera	Participation



Student Name	Year	Event Name	Organized by	Position/Status
Kishoakkumar. T.V	IV	Introduction to Project Management	Coursera	Participation
Manikandan.S	IV	India Independence	Heritage & more	Participation
Manikandan.S	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Manikandan.S	IV	General Mathematics	Seshavee Institute of Technology	Participation
Manikandan.S	IV	Unsupervised learning with K-mean Clustering	CMR Engineering College	Participation
Manikandan.S	IV	LSTM algorithm in deep learning prediction applications	Jawaharlal Nehru College of Engineering, Karnataka	Participation
Manikandan.S	IV	Production engineering	Vaagdevi college of engineering	Participation
Nishanth. P	IV	AI for Everyone	Coursera	Participation
Nishanth. P	IV	Air pollution – a Global Threat to our Health	Coursera	Participation
Nishanth. P	IV	Create a Business Marketing Brand Kit Using Canva	Coursera	Participation
Nishanth. P	IV	Renewable Energy and Green Building Entrepreneurship	Coursera	Participation
Nishanth. P	IV	Introduction to Project Management	Coursera	Participation
Nishanth. P	IV	Initiatives of Akshaya Patra Foundation and Leadership Talk Series : Learn from Leaders	MHRD's Institution Council, Gulzar Group of Institutes	All India Level 10th Rank



Student Name	Year	Event Name	Organized by	Position/Status
Nishanth. S	IV	Air pollution – a Global Threat to our Health	Coursera	Participation
Prasanth S	IV	Yantram 2 - Automobile Engineering	Dr.MGR educational and research institute	Participation
Prasanth S	IV	Introduction to Project Management	Coursera	Participation
Prasanth S	IV	Air pollution – a Global Threat to our Health	Coursera	Participation
Prasanth S	IV	India Independence	Heritage & more	Participation
Sanjiv.V	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Sathishkumar. T	IV	Application of CFD using ANSYS Fluent	CAD solutions	Participation
Sathishkumar. T	IV	Do you know your Census	MyGov	Participation
Sathishkumar. T	IV	Fluid mechanics	Visvesvaraya College of Engineering and Technology	Participation
Sathishkumar. T	IV	Production technology	Lahireddy Bali Reddy College of Engineering	Participation
Sathishkumar. T	IV	Mathematic Knowledge Carnival	Webstico Quibinar Group	Participation
Sathishkumar. T	IV	India Independence	Heritage & more	Participation
Sathishkumar. T	IV	Basics of PLC	H.S.B.P.V.T's G.O.I College of Engineering Kasthi	Participation



Student Name	Year	Event Name	Organized by	Position/Status
Sathishkumar. T	IV	Air pollution – a Global Threat to our Health	Coursera	Participation
Sathishkumar. T	IV	Mechanical Engineering	Mahavir Institute of Science and Technology	Participation
Sathishkumar. T	IV	Engineering Thermodynamics	Gopal Krishna College of Engineering and Technology	Participation
Sathishkumar. T	IV	Mechanical Series - 2	Mahatma Basaveswar Education society College of Engineering Ambajogai	Participation
Sathishkumar. T	IV	Yantram 2 - Automobile Engineering	Dr.MGR educational and research institute	Participation
Sathishkumar. T	IV	Introduction to BIW	Disenosys	Participation
Sathishkumar. T	IV	Mechanical Series - 2	Mahatma Basaveswar Education society College of Engineering Ambajogai	Participation
Sathishkumar. T	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Sathishkumar. T	IV	Machine Learning	Meritorium Knowledge Academy	Participation
Sathishkumar. T	IV	Regenerative Braking System in Electric Vehicle	Skyy rider Institution	Participation



Student Name	Year	Event Name	Organized by	Position/Status
Sathishkumar. T	IV	Robotics and Automation	Itronix Solutions	Participation
Sathishkumar. T	IV	Introduction to Electromagnetic Simulations Using EM-works	Itronix Solutions	Participation
Sathishkumar. T	IV	Graphic Design	Hunarpo Skills	Participation
Suthakaran. P	IV	Building Digital Media using Graphic Design in Google Slides	Coursera	Participation
Suthakaran. P	IV	Creating a Business Marketing Brand Kit Using Canva	Coursera	Participation
Vignesh. K	IV	Create a Resume and Cover Letter with Google Docs	Coursera	Participation
Vignesh. K	IV	Automobile Engineering (Industry Perception)	Bharat Institute of Engineering and Technology	Participation
Vijay.P	IV	Yantram 2 - Quiz on Automobile Engineering	Dr.MGR educational and research institute	Participation
Vijay.P	IV	India Independence	Heritage & more	Participation
Vijay.P	IV	Advance Manufacturing	Mandsaur University	Participation
Vijay.P	IV	Mechanical Series - 2	Mahatma Basaveswar Education society College of Engineering Ambajogai	Participation
Praveen R	IV	Yantram 2 - Automobile Engineering	Dr.MGR educational and research institute	Participation



Student Name	Year	Event Name	Organized by	Position/Status
Praveen R	IV	Air pollution – a Global Threat to our Health	Coursera	Participation
Praveen R	IV	Building Digital Media using Graphical Design	Coursera	Participation
Praveen R	IV	Hiring and Onboarding Employees with clickup	Coursera	Participation
Praveen R	IV	Creating a Business Marketing Brand Kit Using Canva	Coursera	Participation
Praveen R	IV	Introduction to Project Management	Coursera	Participation
Praveen R	IV	Hiring and Onboarding Employees with clickup	Coursera	Participation
Praveen R	IV	Create a Resume and Cover Letter with Google Docs	Coursera	Participation
Sanjayan.J	IV	Creating a Business Marketing Brand Kit Using Canva	Coursera	Participation
Sanjayan.J	IV	India Independence	Heritage & more	Participation
Sanjayan.J	IV	Building Digital Media using Graphic Design in Google Slides	Coursera	Participation
Sanjayan.J	IV	Introduction to Machine Learning	Panimalar Institute of Technology	Participation
Sanjayan.J	IV	Virtual Classes – Are You Ready	Sri Eshwar College of Engineering	Participation



Student Name	Year	Event Name	Organized by	Position/Status
Sanjayan.J	IV	Air pollution – a Global Threat to our Health	Coursera	Participation
Sanjayan.J	IV	AI for Everyone	Coursera	Participation
Sanjayan.J	IV	The Future of Work and Skills in the Post COVID World	Saveetha Engineering College	Participation
Sanjayan.J	IV	Hybrid Electric Vehicles – Electrifying the Mobility in India	K.S.R.M College of Engineering	Participation
Sanjayan.J	IV	Mind Control Managing Your Mental Health During Covid 19	Coursera	Participation
Sanjayan.J	IV	Create a Resume and Cover Letter with Google Docs	Coursera	Participation
Sanjayan.J	IV	Introduction to Project Management	Coursera	Participation
Sanjayan.J	IV	Renewable Energy and Green Building Entrepreneurship	Coursera	Participation
Sanjayan.J	IV	Aptitude	Joginpally B.R.Engineering College	Participation
Sanjayan.J	IV	India Independence	Heritage & more	Participation
Vijay.R	IV	Future trends in Automotive Industry	Sri Eshwar College of Engineering	Participation
Munneswaran M	IV	Mechanical Series - 2	Mahatma Basaveswar Education society College of Engineering Ambajogai	Participation



Student Name	Year	Event Name	Organized by	Position/Status
Muthumani K	IV	Mechanical Series - 2	Mahatma Basaveswar Education society College of Engineering Ambajogai	Participation
Ayyappan S	IV	National level online chess tournament	SVS college of engineering	Participation
Ayyappan S	IV	Mechanical Series - 2	Mahatma Basaveswar Education society College of Engineering Ambajogai	Participation
Sathiya Narayanan A	IV	Mechanical Series - 2	Mahatma Basaveswar Education society College of Engineering Ambajogai	Participation
Sivabalaraja K	IV	Manufacturing Technology	K.Ramakrishnan College of Engineering	Participation
Vairamutu	IV	Manufacturing Technology	K.Ramakrishnan College of Engineering	Participation
Athilingam. S	IV	Design and Development of RC Aircraft	ATL-KV AF High Grounds, Chandigarh	Participation
NAVEENKUMAR D	III	"How Technology can help in NAAC Accreditation Process"	Sri Eshwar College of Engineering on 28.07.2020.	Participation
ANISH SELVAN A	III	"Digital Business Leadership"	Sri Eshwar College of Engineering on 31.07.2020.	Participation



Student Name	Year	Event Name	Organized by	Position/Status
NAVEENKUMAR D	III	VIDYA (Science of Happiness)"	Sri Eshwar College of Engineering on 01.08.2020.	Participation
NAVEENKUMAR D	III	"Engineering Optimization"	Sri Eshwar College of Engineering on 27.07.2020.	Participation
HARIHARAN G	III	"Digital Business Leadership"	Sri Eshwar College of Engineering on 31.07.2020.	Participation
MANOJ T	III	"Digital Business Leadership"	Sri Eshwar College of Engineering on 31.07.2020.	Participation
NAVEENKUMAR D	III	Introduction on Industrial evolution 4.0"	Kings College of Engineering on 29.07.2020.	Participation
MANOJ T	III	webinar on "Geographic Information Systems"	Francis Xavier Engineering College on 03.07.2020	Participation
NAVEEN KUMAR D	III	webinar on "IT Network Infrastructure – An Overview"	Sri Eshwar College of Engineering on 05.08.2020.	Participation
NAVEEN KUMAR D	III	webinar on "An Insight into LEAN Methodology"	Sri Eshwar College of Engineering on 06.08.2020.	Participation
VISHAL V	III	National Level Quiz on "Heat and Mass Transfer"	Meenakshi College of Engineering on 08.08.2020.	Participation
NAVEEN KUMAR D	III	webinar on "New Product Development in Automotive Industry"	Pallavi Engineering College on 10.07.2020.	Participation
NAVEEN KUMAR D	III	webinar on "Enhancing Customer Experience using AI"	Sri Eshwar College of Engineering on 13.08.2020.	Participation



Student Name	Year	Event Name	Organized by	Position/Status
JAGAN M	III	webinar on "Enhancing Customer Experience using AI"	Sri Eshwar College of Engineering on 13.08.2020.	Participation
JAGAN M	III	webinar on "Evolving as a Healthy Engineer"	Sri Eshwar College of Engineering on 07.08.2020.	Participation
JAGAN M	III	webinar on "IT Network Infrastructure – An Overview"	Sri Eshwar College of Engineering on 05.08.2020.	Participation
NAVEENKUMAR D	III	webinar on "Linear Regression Model in Machine Learning"	Sri Eshwar College of Engineering on 14.07.2020.	Participation
NAVEENKUMAR D	III	webinar on "Automotive Infotainment System"	Sri Eshwar College of Engineering on 15.07.2020.	Participation
AKELASHWARAN R	III	webinar on "Automotive Infotainment System"	Sri Eshwar College of Engineering on 15.07.2020.	Participation
AKELASHWARAN R	III	webinar on "Linear Regression Model in Machine Learning"	Sri Eshwar College of Engineering on 14.07.2020.	Participation
AKELASHWARAN R	III	webinar on "What is Success?"	Sri Eshwar College of Engineering on 24.06.2020.	Participation
AKELASHWARAN R	III	webinar on "You Can Become an Entrepreneur"	Sri Eshwar College of Engineering on 23.06.2020.	Participation
AKELASHWARAN R	III	webinar on "You Can Become a Good Researcher"	Sri Eshwar College of Engineering on 29.06.2020.	Participation
AKELASHWARAN R	III	webinar on "Women in Engineering"	Sri Eshwar College of Engineering on 21.06.2020.	Participation

Student Name	Year	Event Name	Organized by	Position/Status
NAVEENKUMAR D	III	webinar on "Innovation in Education"	Sri Eshwar College of Engineering on 21.07.2020.	Participation
NAVEENKUMAR D	III	webinar on "Quantum-dot Cellular Automata"	Sri Eshwar College of Engineering on 20.07.2020.	Participation
AKELASHWARAN R	III	webinar on "Innovation in Education"	Sri Eshwar College of Engineering on 21.07.2020.	Participation
AKELASHWARAN R	III	webinar on "Future of Data Transmission - LiFi"	Sri Eshwar College of Engineering on 25.07.2020.	Participation

National Level Technical Symposium 2020 - N'IBU FEIER '20



P. Bharathraj and V. Vishal, II Year Mechanical Engineering have participated in the event "Technical Quiz" and won the "First Prize".

V. Vishal, II Year Mechanical Engineering has participated in the event "Mr. MACHINIST" and won the "First Prize".

P. Bharathraj & P. Sathasivam, II Year Mechanical Engineering have participated in the event "Mr. MACHINIST" and won the "First Prize".

Congratulations winners!!



Internships/Industrial Training

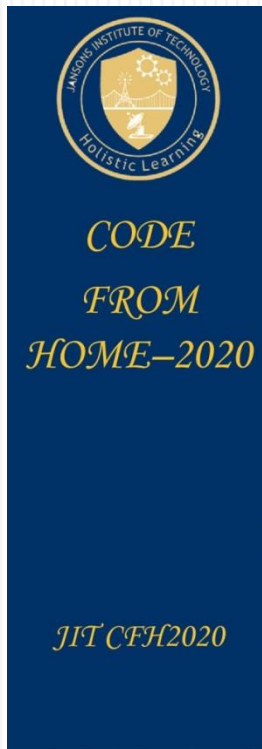
Student Name	Year	Industry	From and to date	Duration
PRADEEP.R	IV	Draup	01.10.2020 to 31.12.2020	3 months
SANJU VISHAAL. S	IV	Draup	01.10.2020 to 31.12.2020	3 months
SEENIVASAN. N	IV	Draup	01.10.2020 to 31.12.2020	3 months
HARI PRASAD. S	IV	Draup	14.10.2020 to 15.11.2021	1 month
PRASANTH. S	IV	Draup	14.10.2020 to 15.11.2021	1 month
ASHOK KUMAR. A	IV	Draup	1.12.2020 to 28.02.2021	3 months
SATHISHKUMAR. T	IV	Draup	1.12.2020 to 28.02.2021	3 months
BHARATH.S	IV	Draup	1.12.2020 to 28.02.2021	3 months
SABARI GANESH. R	IV	Draup	1.12.2020 to 28.02.2021	3 months
DANIEL.S	IV	Worksbot	22.02.2021 to 10.04.2021	45 days
HARI PRASAD. S	IV	Worksbot	22.02.2021 to 10.04.2021	45 days
AYYAPPAN S	IV	Worksbot	22.02.2021 to 10.04.2021	45 days
PRAVEEN.R	IV	Worksbot	22.02.2021 to 10.04.2021	45 days



Student Name	Year	Industry	From and to date	Duration
SEENIVASAN. N	IV	Worksbot	22.02.2021 to 10.04.2021	45 days
SRIRAM R	IV	Worksbot	22.02.2021 to 10.04.2021	45 days
SUTHAKARAN. P	IV	Worksbot	22.02.2021 to 10.04.2021	45 days
PRASANTH. S	IV	Worksbot	22.02.2021 to 10.04.2021	45 days
SATHISHKUMAR. T	IV	Tap Engineering	05.01.2021	Upto sem end
BHARATH.S	IV	Tap Engineering	05.01.2021	Upto sem end
DEVIN KUMAR T	III	Draup	01.04.2021 to 01.07.2021	3 months
BASKAR R	III	Draup	08.01.2021 to 08.04.2021	3 months
VINOTHAGAN S	III	Draup	08.01.2021 to 08.04.2021	3 months

Publications by faculty

Faculty Name	Category	Details of publication
M.M.Matheswaran	Journal	“Influence of twisted tape fins on heat transfer and friction factor characteristics for impinging jet solar air heater” Proceedings of the Institution of Mechanical Engineers 2021 ISSN: 0954-4089
M.M.Matheswaran	Journal	“Experimental and thermal performance investigations on sensible storage based solar air heater” Journal of Energy Storage, Volume 31, 2020, 101620, ISSN 2352-152X,
M.M.Matheswaran	Journal	Exergetic investigation and optimization of arc shaped rib roughened solar air heater integrated with fins and baffles, Applied Thermal Engineering, Volume 175, 2020, 115316, ISSN 1359-4311,
M.M.Matheswaran	Journal	Experimental study of thermal performance and pressure drop on a solar air heater with different orientations of arc-shape rib roughness. J Therm Anal Calorim 144, 1417–1434 (2021). https://doi.org/10.1007/s10973-020-09569-z



JANSONS INSTITUTE OF TECHNOLOGY

Karumathampatti, Coimbatore - 641659

RESULTS

POSITION	TEAM_NAME	TEAM LEAD	TEAM MEMBERS	DEPARTMENT
FIRST	WE4US	Mr. RAMANARAYANAN R	Ms. Ramya Devi N Ms. Bavadharani R Ms. VishnuPriya S	IV CSE
SECOND	Ecneics	Mr. MARTIN ROSARIO L	Mr. Nadarajan S	III CSE
THIRD	Heart warmers	Mr. VISHAL V	Ms. Madhumitha (II CSE) Ms. Logeshwari (II CSE)	II Mech

TEAM JIT CFH2020

Alumni Interaction for the Students of Mechanical Engineering

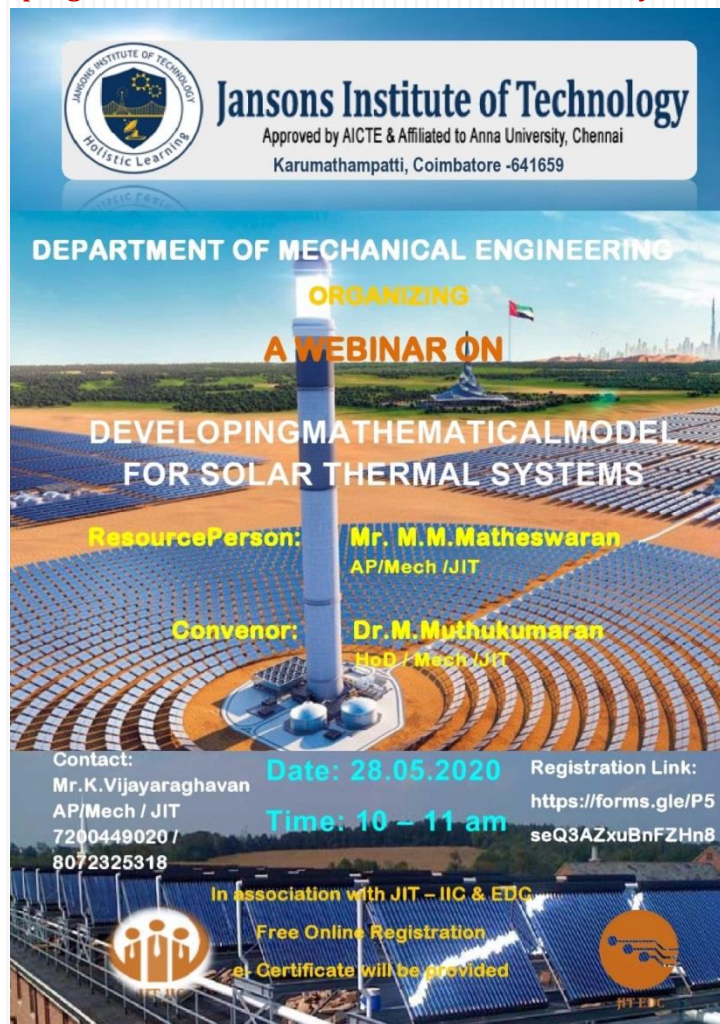


Mr. Deepak (Alumni 2015 Batch)



Mr. Balaji (Alumni 2017 Batch)

Department of Mechanical Engineering in association with JIT - IIC & EDC will organize a webinar on “Developing Mathematical Model for Solar Thermal Systems” on May 28, 2020.



Jansons Institute of Technology
Approved by AICTE & Affiliated to Anna University, Chennai
Karumathampatti, Coimbatore -641659

DEPARTMENT OF MECHANICAL ENGINEERING
ORGANIZING
A WEBINAR ON
DEVELOPING MATHEMATICAL MODEL
FOR SOLAR THERMAL SYSTEMS

Resource Person: **Mr. M.M. Matheswaran**
AP/Mech /JIT

Convenor: **Dr. M. Muthukumar**
HoD / Mech /JIT

Contact: Mr. K. Vijayaraghavan
AP/Mech / JIT
7200449020 /
8072325318

Date: **28.05.2020**
Time: **10 – 11 am**

Registration Link:
<https://forms.gle/P5seQ3AZxuBnFZHn8>

In association with JIT – IIC & EDC
Free Online Registration
Certificate will be provided

- Paper Battery -

Do you feel that the batteries we use now are bulky? , here comes the solution for the problem of bulkiness!

It is a battery that looks like a piece of paper and can be bent or twisted, trimmed with scissors or moulded into any shape.

It acts as both a high-energy battery and capacitor.

The flexible battery can function even if it is rolled up or folded and it consists mainly of paper and carbon.

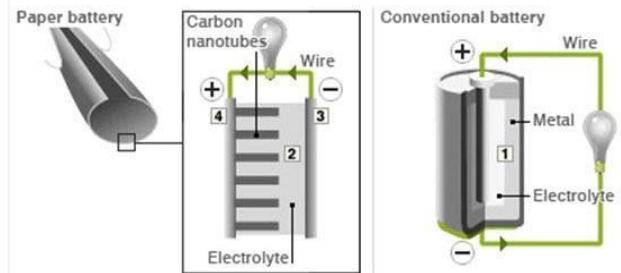
We can get 2.5 volts of electricity from a sample the size of a postage stamp

Worldwide, there are more than 15 billion paper batteries in usage.



Why paper battery?

- Ultra-thin size & flexible structure.
- Exhibits property of super-capacitor
- Operating temperature (-75 to 100 °C)
- Provide both long-term, steady power production and bursts of energy.



Working

A conventional battery or Rechargeable battery contains a number of separate components that produce electrons through a chemical reaction between the metal and the electrolyte of the battery. The Paper battery works when the paper is dipped in the ion-based liquid solution; next a chemical reaction occurs between the electrodes and liquid. The electrons move from the cathode to anode to generate electricity. The paper electrode stores energy while recharging within 10 seconds because the ions flow through the thin electrode quickly. The best method to increase the output of the battery is to stack different paper batteries one over the other.

References

<http://www.electronicshub.org/paper-battery-construction-working>

- low shear strength.

Article by T.Manoj, II Mechanical Engineering

Clearing the Air on BS6 Emission Norms - Mr K Vignesh , 3rd Year , Mech Dept

In about seven months, India will fully adopt the stricter BS6 emission norms – a transition that can be termed as the biggest technological leap the country’s auto industry has taken towards clean air. The shift, by skipping BS5, has not only happened in record time – around three and a half years – but also under great pressure, as both the oil companies and the auto industry worked relentlessly to prepare in time for the challenging deadline of April 2020.

However, not all automakers have managed to make this transition fast enough, resulting in many models and powertrains being phased out. It has also entailed a significant cost, one that will inevitably be passed on to the consumer. Naturally, the talk surrounding the shift has raised many questions and left many car buyers flummoxed. But we’ll break it down and tell what you need to know.

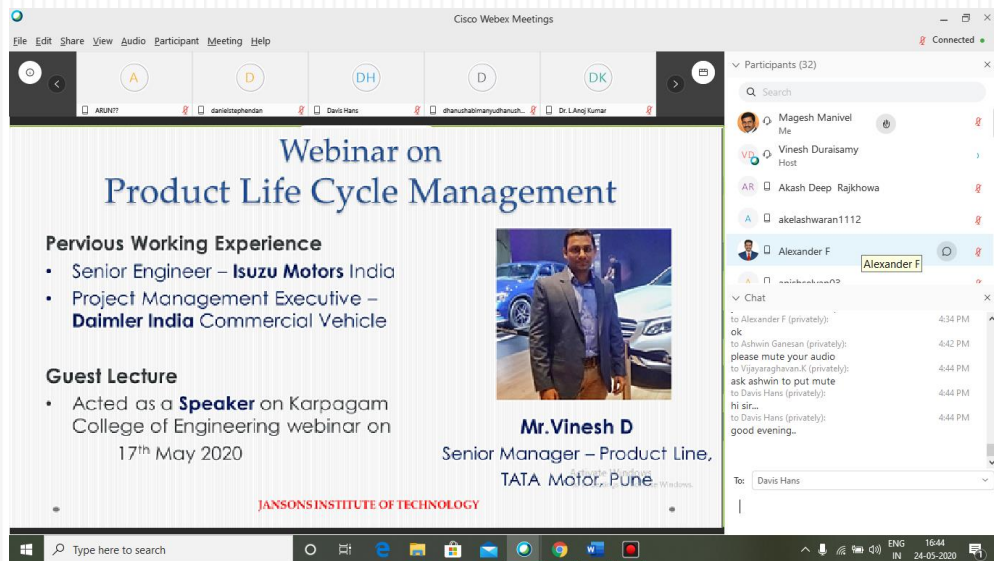


Can BS6 cars run on BS4 fuel?

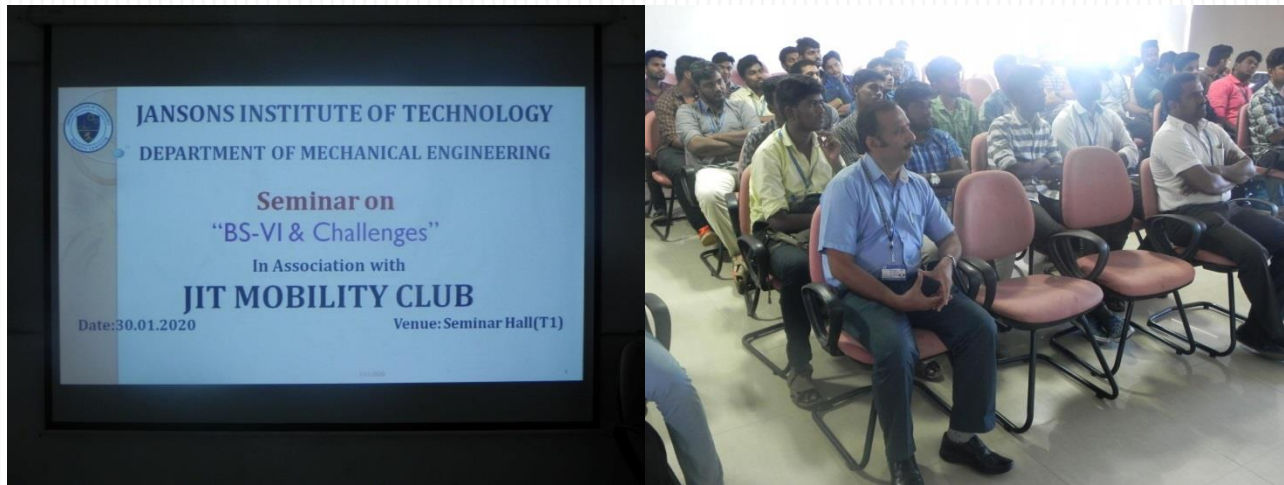
Considering that the upcoming emission norms bear greater ramifications for diesels, these engines generally employ exhaust after treatment techniques like diesel particulate filters (DPF) in conjunction with either LNT or SCR systems. Higher sulphur content in BS4 grade fuel has the potential to poison catalysts in these systems and have an adverse impact on their operation. Thus, running a BS6 diesel engine on the appropriate fuel is all the more critical. However, there are exceptions. Luxury carmaker Mercedes claims to be employing superior catalysts in its emission control devices that permits its BS6 diesel vehicles to run on a diet of BS4 fuel.

Source: <https://www.autocarindia.com/car-news/clearing-the-air-on-bs6-413968>

A webinar has been planned to connect the students of Mechanical Engineering towards the industry exposure on 24.05.2020. Mr.D.Vinesh, Alumni (2013 Batch), Presently working as a Senior Manager – Product line, Tata Motors, Pune



JIT Mobility Club “BS VI - Challenges” on 30.01.2019



Make your Model event – IPE Club



Road Safety Awareness



JANSONS INSTITUTE OF TECHNOLOGY
 (Approved by AICTE, Affiliated to Anna University, Chennai)
 Karumathampatti, Coimbatore

DEPARTMENT OF MECHANICAL ENGINEERING
in Association with
JIT MOBILITY CLUB

WE CORDIALLY INVITE YOU FOR AN AWARENESS PROGRAMME ON
"ROAD SIGNALS AND SAFETY"

INVITED TALK

Thiru. S.M.SHANMUGAM
 Inspector of Police,
 Karumathamapatti Police Station, Coimbatore

Thiru. S.SARAVINDARAJAN
 Sub-Inspector of Police,
 Karumathamapatti Police Station, Coimbatore

Road safety

DATE : 15.02.2020 TIME : 2:00 to 3:30P.M
 VENUE : SEMINAR HALL



Winning in various technical events



Jansons Institute of Technology
 Karumathampatti, Coimbatore-641659

Congratulations!


MECTROTZ 2020

T. MANOJ & T. SANTHOSH,
 Second Year Mechanical Engineering have
 participated in event "Mr. MECHANIC"
 and won "First Prize" in a
 National Level Technical Symposium 2020

T. KARTHIK & P. SATHASIVAM,
 Second Year Mechanical Engineering have
 participated in event "Mr. MECHANIC"
 and won "Second Prize" in a
 National Level Technical Symposium 2020






Jansons Institute of Technology
 Karumathampatti, Coimbatore-641659


Congratulations!

MECTROTZ 2020

J. SANJAYAN,
 ThirdYear Mechanical Engineering has participated in event "CAD MODELLING" and won "First Prize" in a National Level Technical Symposium 2020

T. SATHISHKUMAR,
 Third Year Mechanical Engineering has participated in event "CAD MODELLING" and won "Second Prize" in a National Level Technical Symposium 2020

M. KAVIN KUMAR,
 Third Year Mechanical Engineering has participated in event "CAD MODELLING" and won "Third Prize" in a National Level Technical Symposium 2020



List of Teaching Faculties Attended Training (FDP)

S.No.	Name of Teacher	Title of the FDP /MDP/ Professional Development / Administrative Training Program	Dates (from-to) (DD-MM-YYYY)
1	Mr.M.Magesh	OnlineWebinar on E Content Development in Education Sector	20-04-2020 to 24-04-2020
2	Mr.K.Maadesh Kumar	Online FDP on Advanced NDT Technique and Applications	25-05-2020 to 29-05-2020
3	Mr.P.Sathish Kumar	OnlineWebinar on E Content Development in Education Sector	20-04-2020 to 24-04-2020
4	Mr.K.Vijayaraghavan	Online FDP on Innovation, Entrepreneurship in Industry 4.0	25-05-2020 to 29-05-2020
5	Mr.R.Darshankumar	OnlineWebinar on E Content Development in Education Sector	20-04-2020 to 24-04-2020



List of Teaching Faculties Provided with Financial Support for the Academic year 2019-20

S.No.	Name of Teacher	Name of conference/ workshop attended / Professional Body Membership Fee for which financial support provided	Amount of support received (in INR)
1	Dr.M.Muthukumar	FDP on Computational Techniques for Heat and Fluid Flow	1000
2	Dr.Anojkumar L	Design & Fabrication of Patient Friendly Custom Medical Products by Additive Manufacturing Process	300
3	Mr.K.Vijayaraghavan	Recent Developments of Carbon Nanotubes in Renewable Energy Conversion and Storage	1000
4	Mr.F.Alexander	FDP on " Product Design using Value Engineering"	1000
5	Mr.K.Maadesh Kumar	Emerging Trends in Advance Biofuel and Bioenergy for Sustainable Future	150
6	Mr.Murali.V	A National level Workshop on "Journal Writing, IPR and Patent Drafting	150
7	Mr.S.J.Davis Hans	Emerging Trends in Advance Biofuel and Bioenergy for Sustainable Future	150
8	Mr.M.Magesh	Emerging Trends in Advance Biofuel and Bioenergy for Sustainable Future	150
9	Mr.M.Magesh	SAE Membership Fee	1298
10	Mr.S.J.Davis Hans	SAE Membership Fee	1298
11	Dr. Matheswaran M.M.	FDP on Recent Developments of Carbon Nanotubes in Renewable Energy Conversion and Storage	1000
12	Mr.M.Krishna Kumar	Design & Fabrication of Patient Friendly Custom Medical Products by Additive Manufacturing Process	300
13	Mr.P.Sathish Kumar	Automation in Welding & Non Destructive Testing	350
14	Mr.R.Darshankumar	Automation in Welding & Non Destructive Testing	350