



# Jansons Institute of Technology

## Department of Mechanical Engineering

### *Mech. Letters*

(Half yearly newsletter)

Volume : 4 Issue : 2

Nov / Dec 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.

"Dream 2070" - A Visual Presentation Contest on October 12, 2020.



**JANSONS INSTITUTE OF TECHNOLOGY**  
 Approved by AICTE | Affiliated to Anna University  
 An ISO 9001 : 2015 Certified Institution  
 Coimbatore, Tamilnadu - 64159

**"Dream 2070"**  
 Best Presentations

**Department of Civil Engineering**

| S.No. | Students Name                                     | Position |
|-------|---|----------|
| 1.    | Karthik N and Balaiyappan H<br>IV Year            | First    |
| 2.    | Sultan Syed Ibrahim MF and<br>Rohith S<br>IV Year | Second   |
| 3.    | K Ponmani Deva<br>IV Year                         | Third    |

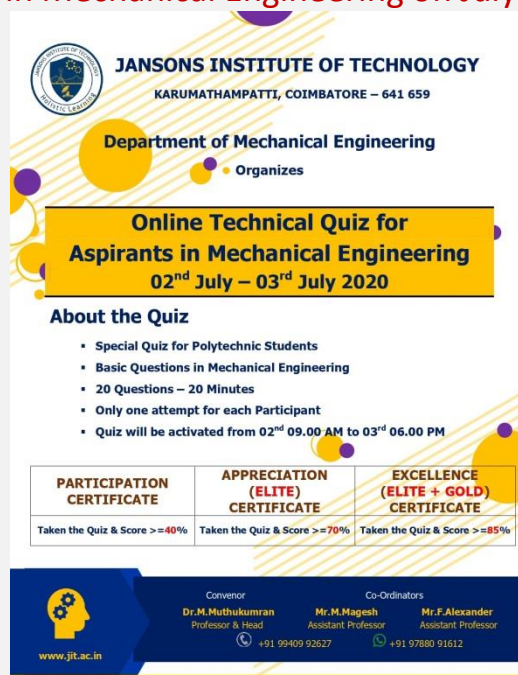
**Department of Mechanical Engineering**

| S.No. | Students Name   | Position |
|-------|---|----------|
| 1.    | Sanjuvishaal S, IV Year<br>Vishal V, Hariharan G, III Year<br>Manoj T, Santhosh T, III Year | First    |
| 2.    | Hari Prasad S<br>IV Year  | Second   |
| 3.    | Sathish Kumar T, Sanjayan J<br>IV Year  | Third    |

**Special Achievements by Students (national/international/regional)**

|                 |            |   |
|-----------------|------------|---|
| Sanjuvishaal S  | Mech / IV  | Won First Place in Dream 2070 - Contest (Presentation), organised by Jansons Institute of Technology, 24 - 29 August 2020.  |
| Vishal V        | Mech / III | Won First Place in Dream 2070 - Contest (Presentation), organised by Jansons Institute of Technology, 24 - 29 August 2020.  |
| Hariharan G     | Mech / III | Won First Place in Dream 2070 - Contest (Presentation), organised by Jansons Institute of Technology, 24 - 29 August 2020.  |
| Manoj T         | Mech / III | Won First Place in Dream 2070 - Contest (Presentation), organised by Jansons Institute of Technology, 24 - 29 August 2020.  |
| Santhosh T      | Mech / III | Won First Place in Dream 2070 - Contest (Presentation), organised by Jansons Institute of Technology, 24 - 29 August 2020.  |
| Hari Prasad S   | Mech / IV  | Won Second Place in Dream 2070 - Contest (Presentation), organised by Jansons Institute of Technology, 24 - 29 August 2020. |
| Sathish Kumar T | Mech / IV  | Won Third Place in Dream 2070 - Contest (Presentation), organised by Jansons Institute of Technology, 24 - 29 August 2020.  |
| Sanjayan J      | Mech / IV  | Won Third Place in Dream 2070 - Contest (Presentation), organised by Jansons Institute of Technology, 24 - 29 August 2020.  |

Department of Mechanical Engineering organizes an "Online Technical Quiz" for the aspirants in Mechanical Engineering on July 2 and 3, 2020.



**JANSONS INSTITUTE OF TECHNOLOGY**  
KARUMATHAMPATTI, COIMBATORE – 641 659

Department of Mechanical Engineering  
Organizes

**Online Technical Quiz for Aspirants in Mechanical Engineering**  
02<sup>nd</sup> July – 03<sup>rd</sup> July 2020

**About the Quiz**

- Special Quiz for Polytechnic Students
- Basic Questions in Mechanical Engineering
- 20 Questions – 20 Minutes
- Only one attempt for each Participant
- Quiz will be activated from 02<sup>nd</sup> 09.00 AM to 03<sup>rd</sup> 06.00 PM

|                                  |   |  |
|----------------------------------|---|--|
| <b>PARTICIPATION CERTIFICATE</b> | <b>APPRECIATION (ELITE) CERTIFICATE</b> | <b>EXCELLENCE (ELITE + GOLD) CERTIFICATE</b> |
| Taken the Quiz & Score >=40%     | Taken the Quiz & Score >=70%            | Taken the Quiz & Score >=85%                 |

Convenor: **Dr. M. Muthukuman**, Professor & Head (+91 99409 92627)  
Co-ordinators: **Mr. M. Magesh**, Assistant Professor (+91 97880 91612) and **Mr. F. Alexander**, Assistant Professor

www.jit.ac.in



**Jansons Institute of Technology**  
 Karumathampatti, Coimbatore - 641 659  
 Department of Mechanical Engineering  
 Organizes  
**Intra - Department Contest**

**Project Contest**  
 29 July, 2020, Wednesday  
 02.00 PM to 04.00 PM

- Maximum of 4 Members per Team
- All the Member Must Participate
- Submit the file in PDF format
- 10 Minutes per Team

**JURY**  
  
**Mr. Rathinavel Rajan S**  
 Head - Human Resources,  
 Ball Beverage Packaging (India)  
 Chennai, Tamil Nadu

**JURY**  
  
**Mr. Aswin Raj**  
 Deputy Manager,  
 Ashok Leyland Chennai,  
 Tamil Nadu

**Paper Presentation**  
 30 July, 2020, Thursday  
 10.00 AM to 12.00 AM

- Maximum of 2 Members per Team
- All the Member Must Participate
- Submit the file in PDF format
- 10 Minutes per Team

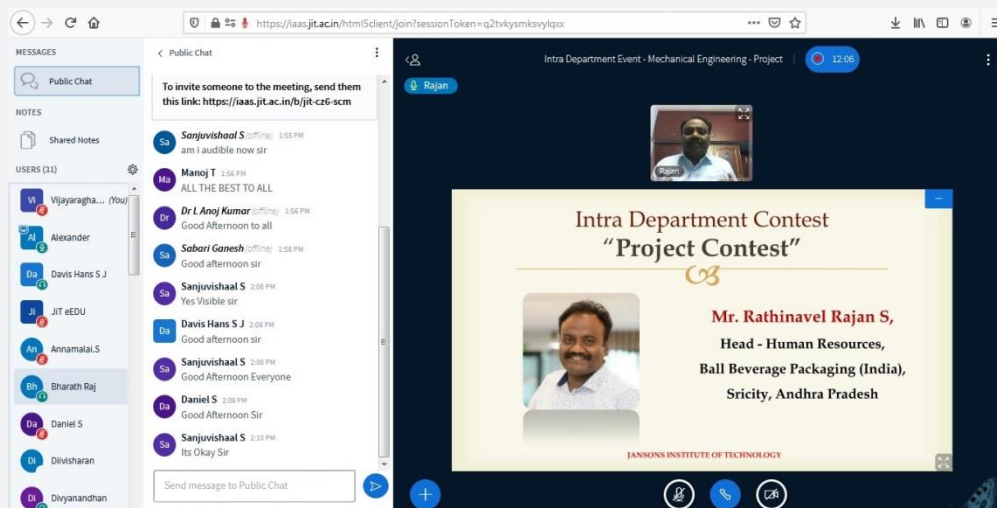
**JURY**  
  
**Mr. Saravanakumar Ravichandran**  
 Quality Control Inspector  
 Hi P Engineering,  
 Coimbatore, Tamil Nadu

**Seminar Presentation**  
 30 July, 2020, Thursday  
 10.00 AM to 12.00 AM

- Individual Participation
- Submit the file in PDF format
- 10 Minutes per Member


**Student Coordinators**  
 Project Contest : Mr. Ashwin G, Final Year, Mech Engg  
 Paper Presentation : Mr. Sabari Ganesh R, Final Year, Mech Engg  
 Seminar Presentation : Mr. Daniel S, Final Year, Mech Engg

Department of Mechanical Engineering, has organized an Intra – Department Project Contest on 29<sup>th</sup> July 2020. The Contest was presided over by the Chief Guest Mr.S.Rathinivel Rajan, Head – Human Resources, Ball Beverage Packing. He gave a motivational speech and importance of improving technical knowledge to the students.



Department of Mechanical Engineering, has organized an Intra – Department Paper Presentation Contest on 30<sup>th</sup> July 2020. The Chief Guest Mr. Aswin Raj , Deputy Manager, Ashok Leyland Chennai talk about the importance of presentation skill and how it will be helpful in the career development





**Jansons Institute of Technology**  
 Intra-Department Contest 2020  
**Winners**  
 Department of Mechanical Engineering

**Paper Presentation Contest**

| Prize           | Team members        | Year | Title                            |
|-----------------|---------------------|------|----------------------------------|
| 1 <sup>st</sup> | Sanju Vishal S      | III  | Thermodynamic Cycles             |
| 2 <sup>nd</sup> | Akash Deep Rajkhowa | III  | Water Problem Solution           |
| 3 <sup>rd</sup> | Vishal V            | II   | Are Electric Cars Really Greener |

**Seminar**

| Prize           | Team members | Year | Title                 |
|-----------------|--------------|------|-----------------------|
| 1 <sup>st</sup> | Daniel S     | III  | Solar cooling         |
| 2 <sup>nd</sup> | Gokul N      | III  | Water Jet Cutting     |
| 3 <sup>rd</sup> | Santhosh     | II   | Magneto Piston Slider |

**Project Presentation**

| Prize           | Team members  | Year | Title   |
|-----------------|---|------|---|
| 1 <sup>st</sup> | Muthuraj K<br>Naveen S<br>Sathishkumar K<br>Karthik M         | IV   | Graining Areca Powder from Disposal Areca Leaf for Manure and Food for Cattle                           |
| 2 <sup>nd</sup> | Akash Deep Rajkhowa<br>Hariprasad S<br>Vishvapriyan K         | IV   | Water Quality Management  |
| 3 <sup>rd</sup> | Divisharan P S<br>Viknesh K<br>Anburaj K<br>Jayavarthanavel E | IV   | Numerical Investigation of Flap design parameters in NACA0012 and its effect on the Performance of HALE |

Department of Mechanical Engineering will organize an Alumni Interaction Program on August 19, 2020.



**JANSONS INSTITUTE OF TECHNOLOGY**  
Karumathampatti, Coimbatore.  
Department of Mechanical Engineering  
*Cordially Invites you*

**ALUMNI INTERACTION 2020**

**Mr. E. Santhosh Kumar**  
Executive Engineer  
Mech N Tech Engineers  
Coimbatore.

**DATE**  
19 AUGUST 2020

**TIME**  
11 AM TO 12 PM

**Convenor**  
Dr. M. Muthukumaran  
Professor & Head

**Co-ordinator**  
Mr. K. Maadesh Kumar  
Assistant Professor

Department of Mechanical Engineering will organize a Webinar on the topic "Emerging technologies and changing focus areas from industries due to COVID'19" on August 26, 2020.



**Jansons Institute of Technology**  
Karumathampatti, Coimbatore  
Department of Mechanical Engineering  
Organizes  
Webinar  
**"Emerging Technologies and Changing Focus Areas  
From Industries Due to COVID '19"**

**26 August 2020  
@ 2.00 P.M.**

**Resource Person:**  
**Mr. R. Vigram Raja, M.E.,**  
IOT and AI Evangelist,  
TATA Consultancy Services (TCS),  
Stockholm, Sweden.

**Convenor :**  
Dr. M. Muthukumaran  
Professor & Head


**Co-ordinator**  
Dr. L. Anoj Kumar  
Associate Professor  
9943570353

e-Certificates will be provided  
No Registration fee

**Registration Link:** <https://bit.ly/31Q505d>


**TUV SUD ISO 9001**

QIC and IIC Cell of JIT will jointly organize a Faculty Development Program on the topic "Faculty Development across the professional span" on August 28, 2020.



## JANSONS INSTITUTE OF TECHNOLOGY

Approved by AICTE New Delhi \* Affiliated to Anna University  
Coimbatore , Tamilnadu - 641659.



**QIC AND IIC CELL**  
*jointly organises*  
**FACULTY DEVELOPMENT PROGRAM**  
**Faculty Development across the Professional Span**

|   |   |
|---|---|
| <p><i>"Ethics and Values in Technical Education for sustainable development"</i></p> <p>Date : 24.08.2020<br/>Time : 8.45 am - 9.45 am</p> <p style="text-align: right;"><i>By</i><br/><b>Dr.S.Elangovan</b><br/>HOD/EEE</p>          | <p><i>"Pedagogical training with ICT tools"</i></p> <p>Date : 26.08.2020<br/>Time : 8.45 am - 9.45 am</p> <p style="text-align: right;"><i>By</i><br/><b>Prof R. Dharshan Kumar</b><br/>RP/Mechanical</p> |
| <p><i>"National Education Policy 2020"</i></p> <p>Date : 25.08.2020<br/>Time : 8.45 am - 9.45 am</p> <p style="text-align: right;"><i>By</i><br/><b>Dr. M. Muthukumaran</b><br/>HOD/MECH</p>  | <p><i>"7 C's for Design and Innovation"</i></p> <p>Date : 27.08.2020<br/>Time : 8.45 am - 9.45 am</p> <p style="text-align: right;"><i>By</i><br/><b>Dr.T.Meenakshi</b><br/>ASP/EEE</p>                   |
| <p><i>"How to create learning environment for Entrepreneurship and Startup initiatives"</i></p> <p>Date : 28.08.2020<br/>Time : 8.45 am - 9.45 am</p> <p style="text-align: right;"><i>By</i><br/><b>Dr P.Gowtham</b><br/>RSP/ECE</p> |   |

Department of Mechanical Engineering will organize a Webinar on the "Power of Brain" on September 2, 2020.



## JANSONS INSTITUTE OF TECHNOLOGY

Karumathampatti, Coimbatore



**Department of Mechanical Engineering**  
Organizes

**WEBINAR**  
**POWER OF BRAIN**

**Guest Speaker:**



**Dr. S. Sridher, MBBS,**



**02 SEPTEMBER 2020**



**1.00 P.M. - 2.00 P.M.**

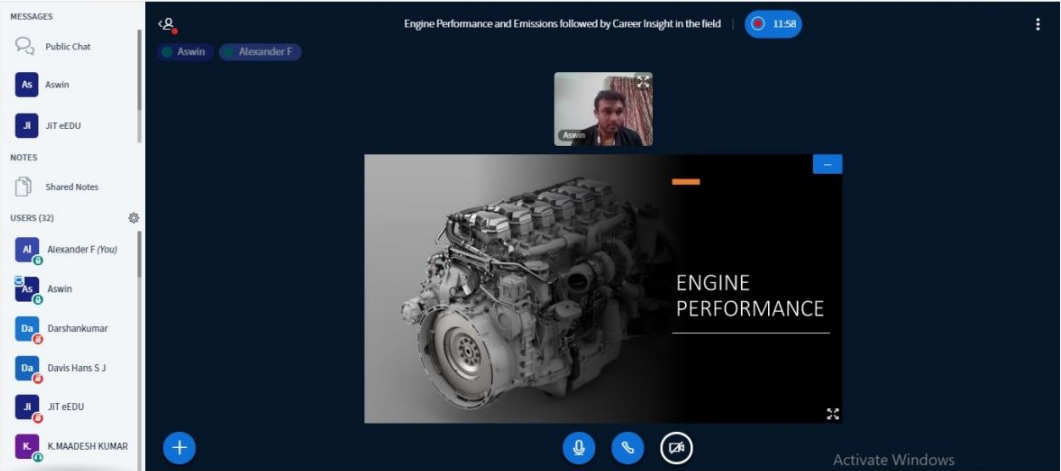
**Convenor :**  
**Dr. M. Muthukumaran**  
Professor & Head

**Co-ordinator**  
**Dr. L. Anoj Kumar**  
Associate Professor

Exclusive for JITians



A webinar has been conducted by Department of Mechanical Engineering on 11.07.2020, to connect the students towards the industry exposure under the title “Engine Performance & Emissions”. Mr. Aswin Raj, (Alumni of 2013 Batch) Deputy Manager, Ashok Leyland, Chennai acted as a resource person for the webinar



**IRC on CAD/CAM for Manufacturing**



**JANSONS INSTITUTE OF TECHNOLOGY**  
 Department of Mechanical Engineering  
**ORGANIZING**  
**INDUSTRY READINESS COURSE**  
**ON**  
**CAD/CAM FOR MANUFACTURING**  
**10/08/2020 - 14/08/2020**

|  |  |
|--|--|
| <b>Online session</b><br>Internal Faculty<br>Industry Persons / Alumni | <b>Offline Activity</b><br>Learning activity<br>Reading activity & Practice activity |
|--|--|

**MODULES**  
 # Introduction to CNC & Blue print reading  
 # Machine Shop Math Course & CNC programs  
 # CNC Milling Machine Programs & Canned Cycles  
 # CNC Programming Simulation & Precision and Advanced Measuring tools

## Who is WHO - World Health Organization?

- Mr Hariharan, 3<sup>rd</sup> Year Mech Dept

*World Health Organization (WHO) is the United Nations' specialized agency for Health. It is an inter-governmental organization and works in collaboration with its member states usually through the Ministries of Health. The World Health Organization is responsible for providing leadership on global health matters, shaping the health research agenda, setting norms and standards, articulating evidence-based policy options, providing technical support to countries and monitoring and assessing health trends.*

*India became a party to the WHO Constitution on 12 January 1948. The first session of the WHO Regional Committee for South-East Asia was held on 4-5 October 1948 in the office of the Indian Minister of Health. It was inaugurated by Pandit Jawaharlal Nehru, Prime Minister of India and was addressed by the WHO Director-General, Dr Brock Chisholm. India is a Member State of the WHO South East Asia Region.*

*WHO India Country Cooperation Strategy 2019–2023: A Time of Transition*

*'The WHO India Country Cooperation Strategy 2019–2023: A Time of Transition' has been jointly developed by the Ministry of Health and Family Welfare (MoH&FW) of the Government of India (GoI) and the WHO Country Office for India. The Country Cooperation Strategy (CCS), provides a strategic roadmap for WHO to work with the GoI towards achieving its health sector goals, improving the health of its population and bringing in transformative changes in the health sector.*

*The India CCS is one of the first that fully aligns itself with the newly adopted WHO 13th General Programme of Work and its 'triple billion' targets, the Sustainable Development Goals and the WHO South-East Asia Region's eight Flagship Priorities. The CCS also captures the work of the United Nations Sustainable Development Framework for 2018–2022.*

Sorce : <https://www.who.int/india>

## COVID-19 - What Happens If You Get Coronavirus

*-Article by Prof Krishnakumar M, Mech*

*What is COVID-19?*

*COVID-19 is a disease caused by the “novel corona virus”.*

*About 80% of confirmed cases recover from the disease without any serious complications.*

*However, one out of every six people who gets COVID-19 can become seriously ill\* and develop difficulty in breathing. In more severe cases, infection can cause severe pneumonia and other complications which can be treated only at higher level facilities*

*How to avoid getting COVID-19 or spreading it?*

*a) Practice Social Distancing:*

- *Avoid gatherings such as melas, haats, gatherings in religious places, social functions etc.*
- *Maintain a safe distance of at least one Metre between you and other people when in public places, especially if they are having symptoms such as cough, fever etc. to avoid direct droplet contact.*
- *Stay at home as much as possible.*
- *Avoid physical contact like handshakes, hand holding or hugs.*
- *Avoid touching surfaces such as table tops, chairs, door handles etc.*

*b) Practice good hygiene*

- *Wash your hands frequently using soap and water: After coming home from outside or meeting other people especially if they are ill.*
- *After having touched your face, coughing or sneezing.*
- *Before preparing food, eating or feeding children.*
- *Before and after using toilet, cleaning etc.*

**Source :** <https://www.mohfw.gov.in/>

**List of Teaching Faculties Attended Training (FDP)**

| <b>S.No.</b> | <b>Name of Teacher</b> | <b>Title of the FDP /MDP/ Professional Development / Administrative Training Program</b>        | <b>Dates (from-to) (DD-MM-YYYY)</b> |
|--------------|------------------------|---|-------------------------------------|
| 1            | Dr. Matheswaran M.M.   | Online STTP : Matlab for all  | 04-06-2020 to 08-06-2020            |
| 2            | Mr.Murali.V            | Online FDP on Advanced Machining Techniques   | 22-06-2020 to 27-06-2020            |
| 3            | Mr.G.Senthilraj        | FDP on Testing of Materials for Engg Applications   | 22-06-2020 to 26-06-2020            |
| 4            | Dr. Matheswaran M.M.   | Online Workshop on Universal Human Values   | 21-09-2020 to 25-09-2020            |
| 5            | Mr.Murali.V            | Online FDP on Trends in Electrical Vehicles   | 20-07-2020 to 24-07-2020            |
| 6            | Mr.K.Maadesh Kumar     | Online FDP on 3D Printing & Design  | 06-10-2020 to 10-10-2020            |
| 7            | Mr.P.Sathish Kumar     | Online FDP on Nanomaterial Synthesis, Process, Characterization and its Functional Applications | 06-07-2020 to 11-06-2020            |
| 8            | Mr.M.Krishna Kumar     | Online FDP on Application of Mathematics  | 20-07-2020 to 25-07-2020            |
| 9            | Mr.K.Vijayaraghavan    | Online FDP on 3D Printing & Design  | 07-09-2020 to 11-09-2020            |
| 10           | Mr.R.Darshankumar      | Online FDP on Internet of Things  | 05-10-2020 to 09-10-2020            |
| 11           | Dr.M.Muthukumaran      | Online FDP on 3D Printing & Design  | 01-09-2020 to 05-09-2020            |
| 12           | Dr.Anojkumar L         | Online FDP on Waste Technology  | 26-10-2020 to 30-10-2020            |
| 13           | Mr.S.J.Davis Hans      | Online FDP on Blended learning & Flipped Classroom  | 31-08-2020 to 04-09-2020            |