



# JANSONS INSTITUTE OF TECHNOLOGY

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*Department of Mechanical Engineering*

## Mech. Letters

(Half yearly newsletter)

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**Editor**

✚ Mr.F.Alexander (AP/Mech)

**Advisor Committee**

✚ Dr.M.Muthukumaran (Prof / Mech)

✚ Mr.S.J.Davis Hans (AP/Mech)

**Students Coordinator**

✚ Mr. Hari Prasad M  
(IV Mech)

✚ Mr. Hari Prasad S  
(III Mech)

The Pro-Model Contest was organized on 21<sup>st</sup> September 2019 by the Department of Mechanical Engineering, Jansons Institute of Technology, Coimbatore. The Contest was organized for final, third and second year students of Mechanical Engineering to explore the technical skills in the field of mobility, robotics, aerodynamics and fluid mechanics. The contest consists of three different dynamic events, Water Rocketry, Paper Glider and Line Follower Robot. Also project made by students; RC controlled mini aircraft and hovercraft were demonstrated.





## Special Achievements by Students

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KARTHIK M NITHIN.K	Mech / IV	Won first prize in the Paper presentation - National level technical symposium conducted by PA College of Engineering and Technology on 18.09.2019
KARTHIK M NITHIN.K	Mech / IV	Won first prize in the Interstellar Quiz - National level technical symposium conducted by PA College of Engineering and Technology on 18.09.2019
KAVIN KUMAR M Suthakaran. P	Mech / III	Won first prize in the Junk Ad Event - National level technical symposium conducted by PA College of Engineering and Technology on 18.09.2019
KAVIN KUMAR M Suthakaran. P	Mech / III	Won third prize in the Interstellar Quiz - National level technical symposium conducted by PA College of Engineering and Technology on 18.09.2019

## Publication by students

Student/students Name	Year	Details of publication
KARTHIK M NITHIN.K	IV	Presented a paper on MECHFUEGO 2K19 - National Level Symposium organised by PA College of Engineering and Technology on 18.09.2019
Revanth S, Samprasanth E, Sivasankar R, Bijin Singh S	IV	Published a journal titled "Development and Analysis of a Composite Protecting Shield with Hybridizing S-Glass and Carbon Fiber" in IJSRED, Vol 3, pp 953 - 957

## Students Participation in Extracurricular Activities

Student Name	Year	Event Name	Organized by	Position/Status
Annamalai S Baskar R Hariharan G Jagan M	II	Attended a workshop 'Applications of Thermal Engineering' from 13.09.2019 to 14.09.2019	Coimbatore Institute of Technology	Participated
Karthik Raja A Karthik T Yogies S	II	Attended a workshop 'SRiSHTi' from 28.09.2019 to 29.09.2019	PSG College of Technology	Participated



Student Name	Year	Event Name	Organized by	Position/Status
Nithish Kumar R Anish Selvan A	II	Attended a Technical workshop on Advances in Royal Enfield on 27.09.2019	SCAD Institute of Technology	Participated
Ajith.M Chandru P Nishanth. P Sanjayan.J	III	Attended a Technical workshop on Advances in Royal Enfield on 27.09.2019	SCAD Institute of Technology	Participated
Ashok Kumar. A Gokul. N Hari Prasad. S Prasanth S Sanju Vishaal. S	III	Attended a workshop 'Applications of Thermal Engineering' from 13.09.2019 to 14.09.2019	Coimbatore Institute of Technology	Participated
Ashok Kumar. A Sanju Vishaal. S	III	Attended a workshop 'Recent Trends in Vehicle Dynamics' on 07.09.2019	Government College of Technology	Participated
Manojkumar. B Mohanaprasanth G P Nishanth S Vignesh. K Oliver Jack.A	III	Participated in the Dirt bike event in Rivals-2019 on 27.09.2019	Karpagam Institute of Technology	Participated
Akash Deep Rajkhwa Bharath S Hari Prasad. S Sathishkumar. T Vishvapriyan. K Oliver Jack.A	III	Attended a workshop 'SRiSHTi' from 28.09.2019 to 29.09.2019	PSG College of Technology	Participated
Ajay Kumar S.A Anand Amarnath C Dhasapiriyam S Manivelrajan.R Manoj.P Ranjith M	IV	Attended a Technical workshop on Advances in Royal Enfield on 27.09.2019	SCAD Institute of Technology	Participated
Muthuraj K	IV	Attended a workshop	Coimbatore	Participated



Sri Balu A Jayavarthanavel E		'Applications of Thermal Engineering' from 13.09.2019 to 14.09.2019	Institute of Technology	
Muthuraj K Sri Balu A Jayavarthanavel E	IV	Attended a workshop 'Machine Learning with Artificial Intelligence' from 28.09.2019 to 29.09.2019	IIT Hyderabad	Participated
Nithin.K Karthik M	IV	Participated in the Junk Yard and Blind Spot event in MECHFUEGO 2K19 on 18.09.2019	PA College of Engineering and Technology	Participated

### Publication by Faculty

Faculty Name	Category	Details of publication
M.M.Matheshwaran	Journal	Analytical investigation of exergetic performance on jet impingement solar air heater with multiple arc protrusion obstacles. J Therm Anal Calorim 137, 253-266 (2019).
M.M.Matheshwaran	Journal	Experimental investigation of augmented thermal and performance characteristics of solar air heater ducts due to varied orientations of roughness geometry on the absorber plate, archives of thermodynamics., Vol. 41(2020), No. 3, 147-182, DOI:10.24425/ather.2020.134576
M.M.Matheshwaran	Journal	Characterization of Hybrid-nano/Paraffin Organic Phase Change Material for Thermal Energy Storage Applications in Solar Thermal Systems, Energies 2020, 13(19), 5079; <a href="https://doi.org/10.3390/en13195079">https://doi.org/10.3390/en13195079</a>
M.M.Matheshwaran	Journal	Effects of CeO <sub>2</sub> / Water Nanofluid on the Efficiency of Flat Plate Solar Collector, Chinese Journal of Mechanical Engineering; Volume 41, Issue 1 (2020 / 02 / 01), P75-83



M.M.Matheshwaran	Journal	Energy, economic and environmental investigation of a flat plate solar collector with CeO <sub>2</sub> /water nanofluid. J Therm Anal Calorim 139, 3219–3233 (2020). <a href="https://doi.org/10.1007/s10973-019-08670-2">https://doi.org/10.1007/s10973-019-08670-2</a>
M.M.Matheshwaran	Journal	Thermohydraulic performance enhancement of a new hybrid duct solar air heater with inclined rib roughness, Renewable Energy, Volume 147, Part 1, 2020, Pages 2345-2357, ISSN 0960-1481, <a href="https://doi.org/10.1016/j.renene.2019.10.007">https://doi.org/10.1016/j.renene.2019.10.007</a> .

### Technical Events (Workshops, Seminar, Guest Lectures, etc)


Title	Category	Resource Person	Date	No. of Days
Vibration Measurement and Condition Monitoring Systems	Seminar	Dr. S. Syath Abuthakeer, Associate Professor, PSG College of Technology, Coimbatore	20.07.2019	1
Importance of IoT in the Industrial Sector in Today's Competitive Era	Seminar	Mr. Vigram Raja, IoT Evangelist, Tata Consultancy Services (TCS)	29.08.2019	1
Pro-Model Contest - 2019	Technical Event	-	21.08.2019	1
Intra-Department Technical Contest [E-Graphié 2K19]	Technical Event	-	19.10.2019	1
E~GRAPHIE 2K19" - A National Level contest on Engineering Graphics	Technical Event	-	02.11.2019	1



## EGraphie 2k19 – Inter Departmental Technical Contest for the first year students of JIT



**JANSONS INSTITUTE OF TECHNOLOGY**  
DEPARTMENT OF MECHANICAL ENGINEERING



**E~GRAPHIE 2K19**  
**AN INTRA-DEPARTMENTAL TECHNICAL CONTEST ON ENGINEERING GRAPHICS**

**About the Contest**

- It's especially for the first year students of 2019 – 2023 Batch
- To enrich the young minds in the EG Subject and it will evolve from the basic concepts taught in the regular classes.

**Topics**

- Projection of Lines & Projection of Planes
- Projection of Solids
- Section of Solids & Development of Surfaces

**Staff Co-ordinators**

- Mr.S.J.Davis Hans AP /Mech
- Mr.F.Alexander AP /Mech

**Rules for the Contest**

- Two Members per Team
- Round 1**  
Online Exam [MCQ]
- Round 2**  
Technical Drawing
- Round 3**  
Make Your Model

Participation Certificates will be provided to qualifying teams of Round 1 & 1 winning Team and 2 Runner-up's will be selected & honored

Register Your Team on (or) before **Oct 16<sup>th</sup> 2019** to the **Staff Coordinators**

**DATE & VENUE**

- Round 1 - Oct 17 AN @ CC1
- Round 2 - Oct 19 FN @ DH
- Round 3 - Oct 19 AN @ DH



## EGraphie 2k19 – National Level Technical Contest for the first year students of various engineering Colleges

**JANSONS INSTITUTE OF TECHNOLOGY**  
Approved by AICTE & Affiliated to Anna University  
Karambampalli, Chittoor, India - 041609

A National Level Contest on Engineering Graphics

**e~graphié 2k19**

organized by  
Department of Mechanical Engineering  
in association with  
Indian Society for Technical Education (Tamil Nadu Section)

**2 NOVEMBER 2019**

**EG marathon**  
Projection of Lines, Planes & Solids

**Measure & draft**  
Orthographic & Isometric projection

**Make your model**  
Section & Development of Solids

**AutoCAD drafting**  
Projection of Lines, Planes & Solids

**Pro.grammi**  
Engineering Curves & Projection of Lines

**Solidus**  
Projection of Solids

**Win Trophies & Certificates**

**Guidelines for Participants**

- \* Registration fee Rs. 400 per team
- \* Maximum of two members per team
- \* Spot registration available (Limited seats)
- \* Exclusive event for 1<sup>st</sup> year B.E./B.Tech Students

**Event Coordinators**  
Davis Hans S J  
Alexander F

www.jit.ac.in/egraphie



Gralitz'19 – National level Technical Symposium on 19<sup>th</sup> Aug 2019



Participation in the Various Technical Contest by the students of Mechanical Engineering



**M.Karthick & K.Nithin**  
**Final Year Mech**



**Kavin Kumar & P.Sudhakar**  
**Third Year Mech**



## Anna University Zone IX, Foot Ball Team



### 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	Dr.M.Muthukumaran	OnlineCourse on Learn Moodle 3.7 Basics	Jul-19
2	Dr.Anojkumar L	OnlineCourse on Learn Moodle 3.7 Basics	Jul-19
3	Mr.S.J.Davis Hans	OnlineCourse on Learn Moodle 3.7 Basics	Jul-19
4	Mr.F.Alexander	NPTEL FDP on Product Design using Value Engineering	July to Aug 2019
5	Mr.M.Krishna Kumar	OnlineCourse on Learn Moodle 3.7 Basics	Jul-19