

ME X PRESS



Attitude takes you to Altitude

A Half-Yearly News letter from Department of Mechanical Engineering
Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE,
Maduravoyal, Chennai-600 095.

Volume: 2 Issue: 1 January - June, 2019

Editorial Board:

Department of Mechanical
Engineering



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Dean and Addl. Dean (E & T)

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Engineering)

Technical Board:

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Message

*The first two issues of the news letter **MeXpress** for the year 2018 give a good insight of the Mechanical Department activities. I hope the subsequent issues of this news letter will be on the same lines like the issues already published. I congratulate Mechanical Engineering Department for publishing this newsletter.*

A. C. S. Arunkumar,
President,
Dr. M.G. R. Educational and Research Institute,
Chennai-600 095

Editor's Desk
Dear Readers,

*We are very happy to continue the newsletter at half-yearly interval named **MeXpress** of our Department. We thank our beloved chairman **Dr. A. C. Shanmugam** for his constant encouragement and support in launching this maiden venture. The newsletter is a brainchild of our President, who is keen in developing our Institute as a leading technical university. Your suggestions and criticisms are most welcome for embellishing this newsletter. **"Happiness is a Habit"***

TECHNICAL EVENTS ORGANIZED FOR STUDENTS

Sl. No.	Topic	Date	Resource Person
1	Tools And Tool Holders	13/02/2019	Mr. D. Kaniappan Birla Machining & Toolings Limited
2	Certificate Training Programme On "Solid Works Software"	10/02/2019 to 20/02/2019	Mr. S. Kalaiyaran Developer CAD/CAM Solutions
3	Supply Chain Management	27/02/2019	Mr. Sekar Deena, ACMA UNIDO
4	Overview of Science of Materials	06/03/2019	Mr. W.Andrew Nallayan, MGRE& RI / ME
5	Heat Recovery Process	13/03/2019	Mr. M.R.Wilson John, MGRE& RI / ME
6	Micro-Electro-Mechanical Systems (MEMS)	09/04/2019	Dr. N.Ethiraj, MGRE& RI / ME



Tools And Tool Holders



Training On "Solid Works"



Supply Chain Management



Overview of Science Of Materials



Heat Recovery Process



MEMS

1. Webinar on Steam And Gas Power System on 25-02-2019 by Professor Dr. Ravi Kumar from IIT Roorkee.
2. A Two Days National Conference on Trends And Innovations In Mechanical Engineering [Time 2019] Themed As "Unmanned Vehicles And Robotics" Organized By Professor Dr. M.Chandran on 19-03-2019 & 20-03-2019.
3. Institute Social Responsibility on Awareness on Voting Demo By Mr. V.Murugesan Addl Revenue Officer, Greate Chennai Corporation Organized By Assistant Professor Mr. D.A.Vinoth.



WEBINAR



TIME 2019



AWARENESS ON VOTING

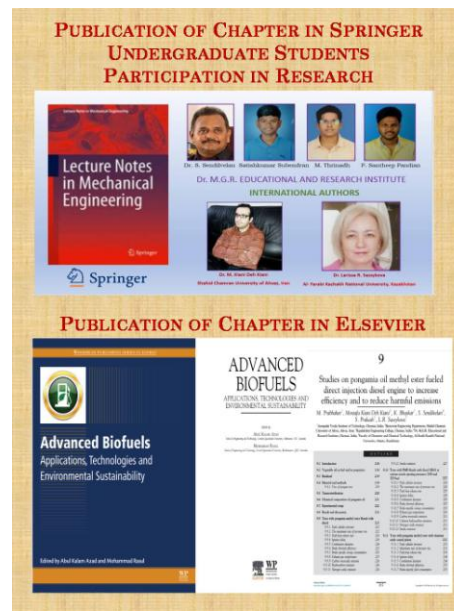
IIT PALS EVENTS

Sl. No.	EVENT	DATE	Resource Person
1	Campus Lecture life career fund as & start up creations	11/01/19	1.Mr. Deepak Miraza(Consultant ,Large Account Management, Life Coach Technology) & 2.Ms.Prathistha Jain(Community litm)
2	Campus lecture adapting to work environment and ideas for start ups	25/01/19	1.Mr.Chandrasekaran(Director, Samas Engineering Corporation Chennai) & 2.Ms.Jeyapriyadevi (MD,Kriyative Learning)
3	Campus lecture what it takes to be an profession and role of RTBI	30/01/19	1.Prof.L.S.Ganesh(Department Of Management Studies,IITM) & 2.Ms.Jayalakshmi Umadikar(Senior Manager, Academic Liaison, litm, RTBI)
4	T2P Lab to Market	05/02/19	1.Prof.Krishnan Bala Subramanian(Professor ,Mechanical Engineering, IIITM)
5	Campus lecture total productive maintenance and whose face are you wearing?	06/02/19	1.Mr.Arunachalam Natarajan(Md ,Unistrong Engineers, Puducherry) & 2. Prof.N.Sridar(Dean Chennai Business School, Chennai)
6	T2P Wind Energy	07/02/19	M.Saravanan(General Manager Regional Engineering(Wind),Siemens Gamesa)
7	EC Orientation	28/06/19	Dr. Anuradha Shankar,IIT PALS

SKILL DEVELOPMENT

Si. No	Year	Program Name	Associated Industry/Institute	No. of students attended
1	2018-19	Industrial training (2 TO 4 weeks)	AIEMA (Group of companies)	49
2	2018-19	Industrial training (2 weeks)	NSTI (ATI)	272

STUDENTS PUBLICATIONS IN RESEARCH



Reviewer in Journal



REVIEWER CERTIFICATE

JOURNAL OF
Applied Polymer
SCIENCE

THIS CERTIFICATE IS AWARDED TO

S NALLUSAMY

WE HEREBY NOTIFY THAT THE PERSON ABOVE HAS BEEN SERVING AS A REVIEWER OF
JOURNAL OF APPLIED POLYMER SCIENCE.

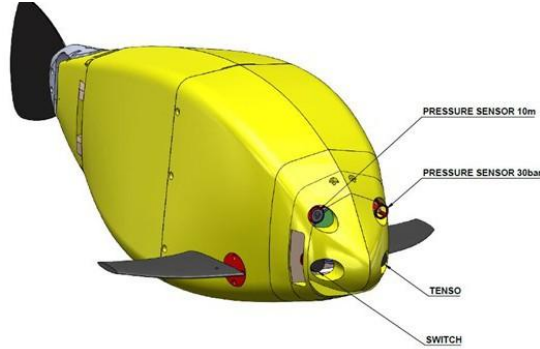
WE ARE GRATEFUL TO S NALLUSAMY FOR REVIEWING 2 MANUSCRIPTS IN 2018.

Stefan Spiegel
Editor-in-Chief

26 June 2019




WILEY

Design & Development of Autonomous Bio-mimic Robotic Fish
Funded by: Indian Institution of Technology Indore (IIT-I)
(in Collaboration with M/s. GRP Industries (Madras))



Mr.Sa.K. Vishnoo Prathap,Assistant Professor successfully completed the project.

HIGHER STUDIES ABROAD IN 2019:

<u>Student Name</u>	<u>University</u>	<u>Program</u>	<u>Photo Of Student</u>
Mr. Chaithanyaguvvala (2014-2018 Batch)	Ernst-Abbe-Hochschule Jena University of Applied Science Germany.	M.S in Scientific- Instrumentation	
Mr. Krishna Vamsiantrapargada (2014-2018 Batch)	LA Trobe University, Australia.	M.S in Manufacturing	
Mr. Sathish Kumar Subendran (2015-19 Batch)	National Cheng Kung University, Tainan City, Taiwan	M.S in Hydraulics Engineering.	

PUBLICATIONS BY FACULTY:

1. Gunji Venkata Punna Rao, S. Nallusamy and P. Raman, (2019), Enhancement of Production in Subassembly Line of a Medium Scale Industry Using Different Lean Tools and Flexsim Simulation Software- International Journal of Engineering Research in Africa, Vol. 44, Pp. 229-239
2. S. Nallusamy, S. Seenuvasa Rajan, Gunji Venkata Punna Rao and Gautam Majumdar, (2019), Study on Enhancement of Quality Level through a Lean Approach in an Original Equipment Manufacturer- International Journal of Engineering Research in Africa, Vol. 43, Pp. 145-156

3. Swetha Madhusudanan, Lilly Rose Amirtham , S. Nallusamy, (2019), "Symbiotic Outcomes of Potency and Microstructure on Nanocomposite with Microsilica and Nanosilica Additives", Journal of Nano Research, Vol. 57, Pp. 105-116
4. Usha Sivasankaran, Seetha Raman and S. Nallusamy, (2019), "Experimental Analysis of Mechanical Properties on Concrete with Nano Silica Additive", Journal of Nano Research, Vol. 57, Pp. 93-104.
5. D. Solomon Christopher, C.B. Senthilkumar and S. Nallusamy, (2019), "An assessment of consumers attitude in organic products usage purposes and dominant groups", International Journal of Mechanical Engineering and Technology, Vol. 10(1), Pp. 1331-1338.
6. .Ethiraj N, Srinivasan R, Prasanna Devi S, Manivannan S, , "Warrenty Cost Estimation Using K-Means Cluster Analysis for Automobile Industry: Technical Note", (2019), International Journal of Vehicle Structures & Systems (IJVSS), Vol.11(1), pp.36-38,<http://dx.doi.org/10.4273/ijvss.11.1.08SJR : 0.231>, Cites per doc :0.379, H Index : 10
7. Ethiraj N, Sivabalan T, Meikeerthy S, KanthiLeelaVenkata Ravi Kumar, GavvalaChaithanya, Guddeti Praveen Kumar Reddy, "Comparative Study on Conventional and Underwater Friction Stir Welding of Copper Plates"(2019), AIP Conference Proceedings, Vol.2128,30003. <https://doi.org/10.1063/1.5117946> SJR: 0.182, Cites per doc :0.396, H Index : 60.
8. Jabaraj, D.B., Devakumar, Improving mechanical performance of resistance spot welded joints of AISI 409M steel by double pulse current',. "Materials Today: Proceedings"
9. Jabaraj, D.B., Devakumar, Experimental investigation and process optimization of DSS/DSS similar metal weld joint ',. "Materials Today: Proceedings".
10. Sendilvelan, S., Sassykova, Processing fly ash from the thermal power stations for gas emissions purification from sulfur dioxide. International Journal of Mechanical and Production Engineering Research and Development
11. Sendilvelan, S., Sassykova, "Modified aluminosilicate catalysts based on cenospheres of power plants for processing fuel oil into light fractions ', International Journal of Mechanical and Production Engineering Research and Development.
12. Sendilvelan, S., Sassykova, "Research of the used methyl ester of vegetable oil and its mixtures with diesel fuel as a fuel in compression ignition engine".News of the National Academy of Sciences of the Republic of Kazakhstan, Series of Geology and Technical Sciences
13. Sendilvelan, S., Sassykova,,Metal block catalysts for complex cleaning of harmful emissions of transport and the industry" News of the National Academy of Sciences of the Republic of Kazakhstan, Series of Geology and Technical Sciences