

# Mech'Časopis

Edition 3

JUNE 2017

# Mechanical Engineering

**JUNE 2017**

***PEO 1:** Graduates of the Programme will excel in technical knowledge and apply innovative skills in the field of Mechanical Engineering.*

***PEO 2:** Graduates will contribute to the technological development and research activities through “Total Quality Education”.*

***PEO 3:** Graduates of the Programme will accomplish the leadership Qualities and social responsibilities through “Life Long Learning”.*

## **Program Specific Outcomes**

***PSO 1:** Graduates will be able to Create and Analyze the Research and Development Activities related to Design and Manufacturing.*

***PSO 2:** Graduates will be able to Design and Develop need based products in Mechanical Engineering and allied Industries.*

## **Mission**

To impart highly Innovative and Technical Knowledge in the field of Mechanical Engineering to the Urban and Unreachable Rural Student folks through “Total Quality Education”

## **Vision**

To make Department of Mechanical Engineering Unique of its kind in the field of Research and Development Activities in the Prominent Fields of Mechanical Engineering in this part of the World

# DEPARTMENT OF MECHANICAL ENGINEERING

## ABOUT THE DEPARTMENT

Department of Mechanical Engineering was started in the year 2005 offering the Bachelor's Degree under Anna University and Post Graduate Degree of Master of Engineering in Manufacturing Engineering in the year 2012. The Department has 25 faculty members, who are highly

qualified in different areas of specialization. and dedicated their profession for

the students. Amongst that, 5 faculty members hold the Doctorate Degree. The

Department is nourished with the modern equipment and computing facilities with latest version of software viz., ANSYS, SOLIDWORKS, AUTOMATION STUDIO, Femap Nastran, NX MASTERCAM and AutoDesk Inventor. Value added courses are provided for the students. Our

department is an Anna University recognized Research Centre. 4 Faculty members

are recognized supervisors for guiding Ph.D., and M.S. by research

OUR DEPARTMENT IS AN  
ANNA UNIVERISTY  
RECOGNIZED RESEARCH  
CENTRE - 4495917

## NEWSLETTER

### Mech'Časopis

Initially planned as a Yearly Newsletter, owing to the hard work and contribution of the faculty members and students, this has become a Half-yearly

publication and now in its third edition.

The name Mech'Časopis is taken from the Croatian language; Časopis (Pronounced as *Chasopis*) means Newsletter.

## HEAD OF THE DEPARTMENT

Mechanical Engineering department is headed by **Dr. S. Senthil Ph.D.**, Associate professor who has completed his Doctorate degree from NIT Calicut, Calicut in the year 2014. His thematic area is Reverse Logistics, Green Manufacturing and Rapid Prototyping. He's a well distinguished Reviewer in 8 reputed Journals and has published 16 Journals and presented his research work in 31 Conferences and has successfully completed 2 Funded Projects. More than that, he holds the position of Lieutenant in National Cadet Corps.

# GUEST LECTURES & WORKSHOPS ORGANIZED FROM AUG'16 TO MAY'17

## August 2016

### AN INSIGHT TO OIL AND GAS INDUSTRY

Lectured by **Er. Venkat Pranesh**, United Kingdom

*04/08/2016*

More than 120 Students were benefitted from the Lecture.

### TECHNICAL COLLOQUIUM ENXENEIRO 16

Third National Level Technical Colloquium organized by our department – Coordinated by **Mr. R. Sakthivel Murugan**

*10/08/2016*

160 Participants from various institutions have been the part of this Mechanical Festival

### WORKSHOP ON CAD APPLICATIONS IN MODERN WORLD

Presented by **Er. Anandha Kumar**, TAFE India, Vadipatti – Coordinated by **Mr. N.R. Madhan**

*11/08/2016*

140 Students attended the Workshop and were benefitted

### 21<sup>ST</sup> CENTURY ENGINEERING EDUCATION

Lectured by **Er. Amarnath**

*19/08/2016*

More than 120 Students were benefitted from the Lecture

### EXPECTATIONS OF MECHANICAL INDUSTRIES FROM FRESH ENGINEERING GRADUATES

Lectured by **Mr. Sundarasubramaniam**, Technozen Academy, Madurai.

*31/08/2016*

Final Year Mechanical Engineering Students were benefitted from this lecture.

# GUEST LECTURES & WORKSHOPS ORGANIZED FROM AUG'16 TO MAY'17



Guest Lecture on  
“An Insight to Oil and Gas Industry”



# GUEST LECTURES & WORKSHOPS ORGANIZED FROM AUG'16 TO MAY'17

## September 2016

### FAILURE MODE EFFECT ANALYSIS AND ISO CERTIFICATION

Lectured by **Mr. N. Sundarasubramaniam** Technozen Academy, Madurai.

*08/09/2016*

140 Students were benefitted from this Lecture.

### KNOWLEDGE BASED CAD FOR TECHNOLOGY TRANSFER

Lectured by **Mr. Sagar V Bhavi** CADD Academy

*20/09/2016*

250 Students were benefitted by this Lecture.

## November 2016

### OPPORTUNITIES IN MARINE ENGINEERING

Lectured by **Er. Naryanan Retd.**, Chief Engineer Merchant Navy

*01/11/2016*

140 Students were benefitted from this Lecture.

## December 2016

### 3D PRINTING

Lectured by **Dr. Paras Paranthaman.**, Chief Engineer Merchant Navy

*12/12/2016*

140 Students were benefitted from this Lecture.

# GUEST LECTURES & WORKSHOPS ORGANIZED FROM AUG'16 TO MAY'17



## SNIPPETS

WHO IS THE FIRST MECHANICAL ENGINEER?

SOME WOULD SAY IT IS ARCHIMEDES, LEONARDO  
DA VINCI OR EVEN HERO OF ALEXANDRIA WHO  
INVENTED AEOLIPILE

But it probably is the man  
who invented the WHEEL!

# GUEST LECTURES & WORKSHOPS ORGANIZED FROM AUG'16 TO MAY'17

## February 2017

### SOLAR ENERGY

Lectured by **Er. N. Sankaranarayan**

*01/02/2017*

140 Students were benefitted from this Lecture.

### CAREER OPPORTUNITES IN DEPARTMENT OF ATOMIC ENERGY

Lectured by **Dr. A. Kumaresan** Scientific Offier IGCAR

*10/02/2017*

140 Students were benefitted from this Lecture.

### CHALLENGES AND INNOVATIONS IN ADVANCED POLYMERIC COMPOSITE MATERIALS

Lectured by **Delegates from different institutions** and Organized by **Dr. S.S. Saravanakumar**

*23/02/2017*

### VALUE ADDED PROGRAMME ON GEOMETRICAL DIMENSIONING AND TOLERANCE

Organized by **Mr. N.R. Madhan** as a part of SAE Collegiate Club with experts from **TAFE India Pvt. Ltd.**

Commencement of Program from *25/02/2017*

## March 2017

### NDE – INDUSTRIAL APPLICATIONS, RECENT DEVELOPMENTS AND CAREER OPPORTUNITIES

Lectured by **Shri R.J. Pardikar** Chief Manager TWI India Pvt. Ltd. and **Dr. P. Anandapadmanaban** Associate Director IGCAR

*01/02/2017*

140 Students were benefitted from this Lecture.



# GUEST LECTURES & WORKSHOPS ORGANIZED FROM AUG'16 TO MAY'17



HITLER DESIGNED THE PROTOTYPE OF BEATLE  
DESIGN FOR VOLKSWAGEN

# GUEST LECTURES & WORKSHOPS ORGANIZED FROM AUG'16 TO MAY'17

## March 2017

### SURFACE NDT – PENETRANT TESTING

Organized by **Dr. P. Manimaran** and **Mr. S. David Blessley**

Course was conducted by Experts from NDE - India

*07/03/2017 and 08/03/2017*

### 3-DAY SKILL DEVELOPMENT PROGRAMME ON BASICS OF ANSYS CFD

Organized by **Mr. N.R. Madhan** and **Mr. R. Sakthivel Murugan**

Course was conducted by Experts from ANSYS

*13/03/2017 to 15/03/2017*

### 2-DAY FACULTY DEVELOPMENT PROGRAMME APPLICATION OF ANSYS – COMPUTATIONAL FLUID DYNAMICS

Organized by **Mr. N.R. Madhan** and **Mr. R. Sakthivel Murugan**

Course was conducted by Experts from ANSYS

*16/03/2017 and 17/03/2017*

### EXPECTATION OF INDUSTRIES

Organized by **Mr. J. Balakumaran** Senior Manager Rane India Pvt. Ltd.

*29/03/2017 and 17/03/2017*

125 students participated and benefitted

### NATIONAL CONFERENCE RAME'17

Organized for Students, Academicians, Research Scholars and Industrial Experts of various fields of Mechanical Engineering and Other Allied Fields.

*30/03/2017*

140 Students were benefitted from this Lecture.

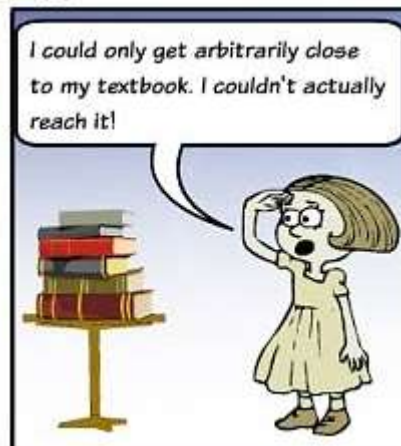
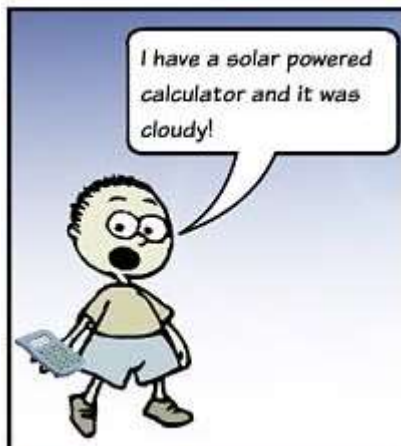
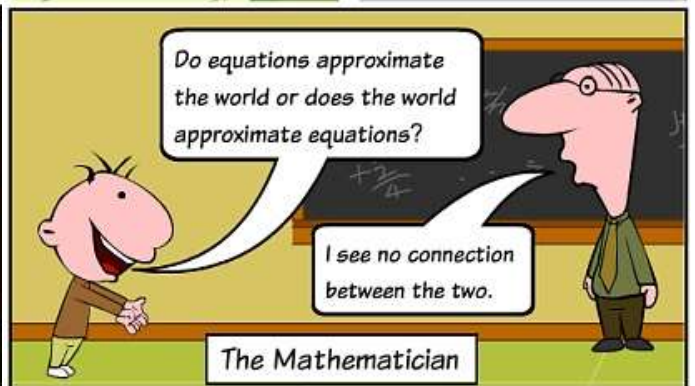
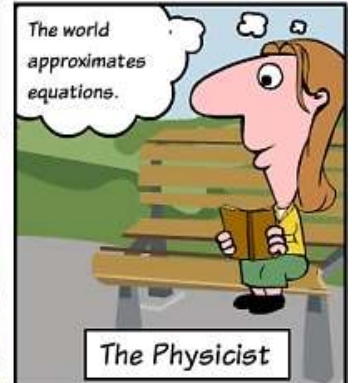
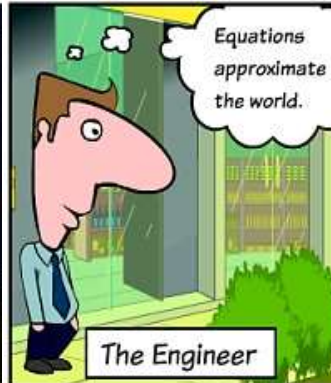
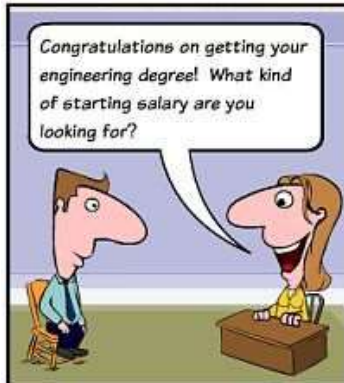
# GUEST LECTURES & WORKSHOPS ORGANIZED FROM AUG'16 TO MAY'17



HAVE YOU OBSERVED A CYLINDER WHICH IS ATTACHED TO REAR SUSPENSIONS IN BIKE?



# COMIC RELIEF



# FERRIS WHEEL

*Have you ever wondered who pioneered the construction of the Colossal yet elegant, Intricate yet Marvelous invention, the Ferris Wheel? Have you wondered why it was constructed?*

## ENTERTAINMENT... YEA or NAY

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IT definitely is a Nay if you ask me if it's build for the entertainment. It was built as an ANSWER by the Americans to the Eifel Tower. When Eifel Tower was built with such elegance, every engineer in the United States started to lose their minds! There were many proposals put forward such as a tower garlanded with rails to distant cities, enabling visitors to toboggan home; another tower from whose top guests would be pushed off in cars attached to thick rubber bands, a forerunner of bungee jumping. But they weren't enough!



To avoid humiliation, George Washington Gale Ferris Jr., a 33-year-old engineer from Pittsburgh whose company was charged with inspecting the steel used by the fair, was struck by a brainstorm and quickly sketched a huge revolving steel wheel. After adding specifications, he shared the idea with his team, who balked at the slender rods that would carry people to a height taller than the recently opened Statue of Liberty. "Too fragile," they said. Yet they decided to build it and the rest is history.



Life is like a Ferry Wheel; You have to get past your fear to enjoy the view

## Engineer Facts!

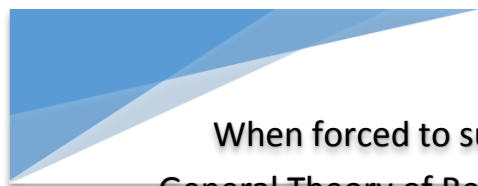
71% of the Engineers don't trust the first answer their Calculator gives them

## Editor's Note

Vimalathithan PK

Scientists and Philosophers are not very indifferent. In fact, science, art, culture and philosophy are related to each other in many ways. It is just that the cultural rituals have overshadowed the science and art behind it.

In my view, Plato, Socrates, Aristotle or David Hume are not the greatest philosophers to ever live. Einstein, Newton and Tesla are the real philosophers. If you think otherwise, go back and look at the theories and inventions by those great scientists. The truth behind every theory they proposed, every invention they made and every equation they formulated, is a great mystery of life.



When forced to summarize the  
General Theory of Relativity: Time,  
Space Graviton have no separate  
existence from Matter

Albert Einstein

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***Mech'Časopis***

*Edition 3  
June 2017*

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