



# MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY

Kalitheerthalkuppam, Madagadipet, Puducherry - 605 107

## DEPARTMENT OF MECHANICAL ENGG

News letter for the year 2017 – 2018  
(Even sem)

### DEPARTMENT ACTIVITY **“VIBRANT 2K18” on the occasion of Mitilence**



VIBRANT 2K18 was organized by the Department of Mechanical Engineering on the occasion of MITILENCE A National level technical symposium conducted on 9<sup>th</sup> & 10<sup>th</sup> February 2018. The Inauguration was common for all the departments. Totally 223 registrations were made for the two days events from various colleges Pondicherry and Tamilnadu State. 103 students were participated in technical events and 120 students in Non technical events. The winners were awarded the cash prizes of Rs.1500, Rs.1000, Rs.500 and certificates.

### **PAPER PRESENTATION**

- The 50 papers were submitted out of these 17 papers was selected for the presentation. Dr.A.Kalaiselvan, Associate Professor in Mechanical Engineering, Pondicherry Engineering College and Mr.K.P.Vivekanandan, Secretary, NIQR Pondicherry Chapter as chairman and co-chairman for the paper presentation.



### **IDEA FLASH**

- The event which is having fun mixed with the technical talents and updates. This is common to all streams, the only thing how creative the team is. More and more interesting questions and definitely going to check their marketing talents of their own creation. 27 students have participated in this event.



### **POSTER PRESENTATION**

24 posters have presented in this presentation. Out of this three posters were selected for the prize distribution.



## **EVERYTHING IS DESIGN**

- Design is the creation of a plan or convention for the construction object, system or measurable human interaction. In 3D computer graphics, 3D modelling is the process of developing a mathematical representation of any surface of an object in 3 dimensions via specialized software.
- Any reputed software's can be used...
- Totally 26 participants were participated in this event.



## **BOTTLE ROCKETRIX**

- Bottle rocketrix is nothing but the aqua missile, is a type of rocket model using water as its reaction mass. The water inside the bottle is forced out by using the pressurized gas. It operates on the principle of Newton's third law of motion.
- Totally 15 participants were participated in this event.

## **THINK FUTURE**

- To update with the current technology, Present your future ideas and concept here.
- Totally 10 participants were participated

in this event.

## **I m MACHINIST**

- Machining is any of various processes in which a piece of raw material is cut into a desired final shape and size by a controlled material-removal processes.
- Only requirement is the person has to know how to work in lathe...
- Totally 30 participants were participated in this event.



## **SHERLOCK HOLMES**

- Sherlock Holmes is a fictional private detective created by British Arthur Conan Doyle, known as a "consulting detective" in the stories.
- If you are known for your detective skills, and problem solving form a team like avengers and participate, win the prizes.
- Totally 12 teams were participated in this event.



## **TROLL MANIA**

- #Troll #Tag #Template #Dubsmash #Comic #Fun



- If the person is having the comic sense the place is here...
- Totally 25 teams were participated in this event.

### **FUNK FROM JUNK**

- Creativity! Creativity!! Creativity!!!
- If you are masters in creating a new product from the junk, come and take away the prizes.
- Totally 6 teams were participated in this event.



### **FUN O FUN**

- FUN. FUN. FUN...at the same time to test ur innovative talents through some tasks.
- Totally 22 teams were participated in this event.

### **MOBILE PHOTOGRAPHY**

- Photography is the science, art, application and practice of creating durable images by recording light or other source.
- How you look the world, share with us...
- Totally 56 students were participated in this event.



### **SPECIAL EVENT-RC RACING**

- 6 teams were participated in this event.
- The Winners Were Awarded Cash Prizes Of Rs.10,000, Rs.5000 and certificates.
- Single Member Also Can Participate



- Entry Fee For Nitro Vehicle - 1,500/-
- Entry Fee For Electric Vehicle - 500/-
- 4.5cc and Below Engines Can Be Used.
- 1:10 And 1:8 Size Cars Are Only Used
- Safety Is Our First Priority, If Your Car Is Likely To Damage The Track Or Other Cars You May Be Disqualified.



## **“PMKVY LATHE OPERATOR COURSE” AT MIT, PUDUCHERRY**

In Puducherry ManakulaVinayagar Institute of Technology, organized inaugural function for PMKVY Scheme for lathe operator and Assistant electrician was organised in collaboration with AICTE on 22<sup>nd</sup> Jan 2018 . Shri. M.DHANASEKARAN,Chairman and Managing Director, Sri ManakulaVinayagar Educational Trust, presided the function. Shri.S.V.SUGUMARAN, MLA Vice Chairman and Dr.K. NARAYANASAMY, Secretary of Sri ManakulaVinayagar Educational Trust, felicitated the program. Dr.B.Radjaram, Professor & Head, Department of Mechanical Engineering, delivered the Welcome address by inviting the participants of PMKVY scheme. Then later the honorable members of the program lightened the kuthu villaku in order to have grand opening of skill development program.

Next Mr. D.Balaji, Assistant Professor from Department of Electrical and Electronics Engineering gave introductory speech about the program and its salient features. Dr.S.Malarkkan, Principal has delivered the felicitation address by describing the importance of skill development and job market status for youth in India. The objective of Short term training in Pradhan Mantri Kaushal Vikas Yojana scheme is to provide skill training to the young people living across all states and districts of India in various sectors and job roles. This scheme primarily targets only rural youth with limited sanctioned intake of 25 candidates. The government of India has decided to implement such schemes in order to enrich the skills of youth in our country. There are many field specializations in the scheme such as automotive sector, agriculture sector, apparel etc. The main objective of skill training is to encourage the institutions for making the best use of available infrastructure of higher education system during off hours for skill training. Provide employable and certifiable skills based on National Occupational Standards (NOS) with necessary soft skills to the school dropouts who want to pursue/attain higher order skills and living in the vicinity of College. The major outcome of PMKVY is to train and guide the candidates in placing in the job after the end of course. An incentive of Rs. 475/ placed candidate given to the training providers on achieving 70% placement in the batch. These are the special highlights of the scheme which was given by the head of the institution in the function. At the end Mr. Shanmugasundaram, Associate Professor from department of Electrical and Electronics Engineering delivered the proposed vote of thanks.



**Principal discussing about the importance of PMKVY to the participants.**

## **ONE DAY WORKSHOP ON “TOTAL PRODUCTIVE MAINTENANCE IN ENGINEERING INDUSTRY” AT MIT, PUDUCHERRY**

In Puducherry ManakulaVinayagar Institute of Technology, One day workshop on “Total Productive Maintenance in Engineering Industry” was conducted for Mechanical Engineering Students on 17.2.2018. The first session was taken by Dr.P.Shahbudeen, Professor, Department Of Industrial Engineering Anna University/ Chennai has explained the concept of maintenance Simulation and the second session was taken by Mr.K.Palani Manager (safety And Environment) Ashok Leyland / Chennai and he explained about the automobile maintenance concept in industries after lunch the third session was started and it was taken by Mr.R.Ganesan Senior GMAxles India/ Chennai and he discussed about the Introduction to TPM and its importance



**Department Head honoring the chief guest**

### **Guest Lecture Program at MIT, Puducherry.**

A guest lecture was organised by the department of Mechanical Engineering and ISTE Student Chapter on the topic “Development of wheel Hub through Hot Forging Technology” at Manakula Vinayagar institute of Technology, Madagadipet, Puducherry on 26.02.2018.

Shri. M.Dhanasekar, Chairman and Managing Director, Sri Manakula Vinayagar Educational Trust, chaired the function.

Shri S.V.Sugumaran, Vice Chairman, Sri Manakula Vinayagar Education Trust, Presided over the program. Shri Narayanasamy Kesavan, Secretary, Sri Manakula Vinayagar Education Trust, Felicited the program. Dr. S. Malarkkan, Principal, Manakula Vinayagar Institute of Technology, motivated the students to develop their knowledge, projects and skills to compete in this competitive



world. Dr. B. Radjaram, Professor & Head, Department of Mechanical Engineering, welcomed the gathering and delivered a brief note about the program and chief guest.

Mr. M. Narendran, Assistant Manager, TVS-Sundaram Fasteners Limited, Puducherry, was the chief guest of the program. He has shared his industrial experience with students for improving the technical skills and briefly explained the forging and other manufacturing methods to make a product and also gave useful tips for various career opportunities for mechanical engineers in various fields and importance's of knowledge, attitude, skill, habit, communication, leadership, teamwork, strengths and limitations are considered to be the success mantra to excel in global corporate landscape. His lecture was so motivational and he created a positive aura, which moved the students towards optimism. It was a great experience and very useful lecture to the students. All the Heads of the Departments, students and staff members of Mechanical Engineering Precipitated in the special lecture. Quiz competition is conducted for mechanical Engineering students, Prizes given to the winners on this occasion.



**Guest Distributing prizes to the prize winners**

### **Guest Lecture**

A guest lecture is arranged by the department of mechanical engineering of Manakula Vinayagar Institute of Technology, Madagadipet, Puducherry on 24<sup>th</sup> march 2018 titled as “BIOMASS AND BIO ENERGY CONVERSION SYSTEMS”. Dr. B. Radjaram, Professor & Head, Department of Mechanical Engineering, welcomed the gathering and delivered a brief note about the program and the chief guest. Dr. L. Kumaraja, Associate Professor, Pondicherry Engineering College, chief guest for the guest lecture has delivered a crisp and informative lecture on the biomass energy conversion systems. All real time applications,

right from kitchen to industrial working systems are discussed. Students participated actively and enthusiastically for the guest lecture and made it be a grand success.



**Guest Distributing prizes to the prize winners in the quiz Competition**

**Staff and students conference activities:**

- V. Sowndarapandiyar, S. Ariharan, K. Vivekanand & P. Sivabalan guided by Dr. B. Radjaram, Professor and Head, Department of Mechanical Engineering had participated in the conference titled as AMPIE 18 in Mahendira Institute of Engineering and Technology on 14<sup>th</sup> & 15<sup>th</sup> Feb 2018 and presented their paper titled as “Improving efficiency of solar panel by automatic mist cooling system”.
- P. Aravindan, V. V. Rajan, S. Santhosh & S. Pradeep Kumar guided by Mr. K. Karthigayan, Assistant Professor had participated in the conference titled as AMPIE 18 in Mahendira Institute of Engineering and Technology on 14<sup>th</sup> & 15<sup>th</sup> Feb 2018 and presented their paper titled as “Optimization of Lead Time in Retrofitting of Cranes”.
- M. Thiyagarajan, N. Vignesh, R. Prabathu & A. Ajith Kumar guided by Dr. P. Sivasankaran, Assistant Professor had participated in the conference titled as AMPIE 18 in Mahendira Institute of Engineering and Technology on 14<sup>th</sup> & 15<sup>th</sup> Feb 2018 and presented their paper titled as “Design and optimization of screw less machine vice using DFA”.
- P. Thayanathan, S. Rajesh Kumar, N. Yuvarajan & B. Gouthaman guided by Mr. S. Ganesh Kumar,

Assistant Professor had participated in the conference titled as AMPIE 18 in Mahendra Institute of Engineering and Technology on 14<sup>th</sup> & 15<sup>th</sup> Feb 2018 and presented their paper titled as “Condensation of atmospheric air for getting pure drinking water and analyze its influencing parameter”.

- R.Pradeep kumar, S.Aravindh, E.Mugilan & S.Gurubathan guided by Mr. A. Thiagarajan, Assistant Professor had participated in the conference titled as AMPIE 18 in Mahendra Institute of Engineering and Technology on 14<sup>th</sup> & 15<sup>th</sup> Feb 2018 and presented their paper titled as “Design and fabrication of propeller and propeller shaft with alternative position And axis of ships”.
- G.Pushparaj, D.Krishnamoorthy, R.Sarath & P.Prakash guided by Mr.M.Thirunavukarasu, Assistant Professor had participated in the conference titled as AMPIE 18 in Mahendra Institute of Engineering and Technology on 14<sup>th</sup> & 15<sup>th</sup> Feb 2018 and presented their paper titled as “Fabrication of electromagnetic engine”.
- K.Krishnaraj, G.Jayakumar, B.Gokulnath & V.Aravind guided by Mr. K.Selvam, Assistant Professor had participated in the conference titled as AMPIE 18 in Mahendra Institute of Engineering and Technology on 14<sup>th</sup> & 15<sup>th</sup> Feb 2018 and presented their paper titled as “Fabrication of hybrid solar wind turbine”.
- P.Selvaganapathy, V.Anandhan, M.Srinivasan & S.Surender guided by Mr. R.Karthikeyan, Assistant Professor had participated in the conference titled as ICEMRE 18 in College of Engineering Villupuram on Jan 4 & 5 2018 and presented their paper titled Technology titled as “Design and fabrication of Magado Air conditioning System”.
- Nazil munam, J.Anandhan, T.Amerdharajan & S.Sivapugazh guided by Mr.R.Ranjit kumar, Assistant Professor had participated in the conference titled as ICEMRE 18 in Mahendra Institute of Engineering and Technology on 14<sup>th</sup> & 15<sup>th</sup> Feb 2018 and presented their paper titled as “Ultimate stress analysis of structural steel flat plates with dents”.
- V.Ravi teja, V.Sureshkumar, P.Sathish & S.Balaji guided by Mr.B.Vasanth, Assistant Professor had participated in the conference titled as MINTSEM 18 in Annamalai University on FEB 1&2 2018 and presented their paper titled as “Remodeling of petrol engine generator”.
- Mr.S.Balaje, Assistant Professor had presented a paper in the conference titled as AMPCO – 17 Indian Institute of Technology, Roorkee titled as “Tribological behavior of acrylonitrile butadiene styrene (ABS) Composites reinforced with carbon nano tube (CNT)”.
- Mr.A.Thiagarajan & Mr.R.RanjitKumar, Assistant Professors of mechanical engg department had participated in All India seminar on carbon sequestration & climate change mitigation conference organised by Pondicherry engineering college & IEI(I) on 2<sup>nd</sup> and 3<sup>rd</sup> Nov 2017.
- Mr.K.Karthigayan Assistant Professor of mechanical engg department had participated in All India



seminar on carbon sequestration & climate Interdisciplinary STC under Quality improvement Programme at Pondicherry Engineering College on 6<sup>th</sup>-10<sup>th</sup> Nov 2017.

- Mr.M.Thirunavakarasu, Mr.E.Suresh, Mr.J.Sugumaran, Mr.K.Manikandan, Mr.R.Karthikeyan & Mr.B.Vasanth Assistant Professors of mechanical engg department had participated in the one day FDP on Research Perspectives in IC Engines at SRM Institute of Science and Technology on 6<sup>th</sup> dec 2017.
- Mr.A.Thiagarajan, Mr.K.Selvam & Mr.S.Ganesh kumar Assistant Professors of mechanical engg department had participated in the one week FDP on Advances in refrigeration and air conditioning at Pondicherry engineering college on 11<sup>th</sup>-15<sup>th</sup> Dec 2017.

### Student Activities :

#### Co-Curricular & Extra Curricular :

- Mr.B.Venkataboopathy of 3<sup>rd</sup> year student has attended “National Integrated Camp NIC-2018” at Karnataka organized by Department of Youth Empowerment & Sports and awarded as the **Best NSS Volunteer in Puducherry State.**



**புதுவை மாணவர்கள் பங்கேற்பு**  
 புதுச்சேரி, பிப். 8-  
 மத்திய அரசின் மனிதவள மேம்பாட்டுத்துறை சார்பில் கர்நாடக மாநிலம் ஹசனில் ஒரு வார கால தேசிய ஒருமைப்பாட்டு முகாமை நடத்தியது. இதில் புதுவை தாகூர் கலைக்கல்லூரியை சேர்ந்த கரேந்திரன், கவேதா, இந்திரா காந்தி கலை கல்லூரியை சேர்ந்த முருகவேல், ஜஸ்வர்யா, மணக்குள விநாயகர் தொழில்நுட்ப நிறுவனத்தை சேர்ந்த வெங்கடபூபதி, நிரஞ்சனி, ஆச்சார்யா கலைக்கல்லூரியை சேர்ந்த அஜித்குமார், விக்ன, சாரதா கங்காதரன் கல்லூரியை சேர்ந்த கார்த்திக் ராஜா, சுபாஷினி ஆகிய நாட்டு நலப்பணித்திட்ட தன்னார்வர்கள் பங்கேற்கின்றனர். இவர்கள் சாரதா கங்காதரன் கல்லூரி திட்ட அலுவலர் குப்புசாமி தலைமையில் கர்நாடகா புறப்பட்டு சென்றனர்.

- Mr.K.Harigaran, Mr.K.suriya, Mr.A.Meadin raj, Mr.A.Gowthaman & Mr. A. Martin of 3<sup>rd</sup> year students has participated in one day workshop on “Advance Automotive System” on 16<sup>th</sup> Mar 2018 at Pondicherry Engineering College.
- Mr.S.sakthivel and Mr.A.Jamaal Sharief of 3<sup>rd</sup> year students has participated in paper presentation on 24<sup>th</sup> Mar 2018 at Vellore Institute of Technology.

- Mr.B.Dhanasekar, Mr.G.Agilan&Mr.M.Abishek of 3<sup>rd</sup> year students has participated in one day workshop on “Kevlar Materials” on 17<sup>th</sup> Mar 2018 at Pondicherry Engineering College.
- Mr.R. Aravind Anjanee & K.Rajesh of 3<sup>rd</sup> and 2<sup>nd</sup> year students has participated in “CADD Modelling” event on 22<sup>th</sup> Mar 2018 at Rajiv Gandhi Engg College and won the 1<sup>st</sup> and 3<sup>rd</sup> prize with a cash award of Rs 2000/- Rs 500/-
- Mr.K.Rajakumaran&Mr.B.Nagaraj 3<sup>rd</sup> year students has participated in “Technical Quiz” event on 23<sup>th</sup> Mar 2018 at Pondicherry Engg College and 3<sup>rd</sup> prize with a cash award of Rs 800/-
- Mr.K.Yogesh, Mr.M.Nirmmal Kumar, Mr.A.Dileep& Mr. A. Martin of 3<sup>rd</sup> year students has participated in one day workshop on 15<sup>th</sup> Feb 2018 at Mahendra Institute of technology.
- Mr.K.Rajakumaran, Mr.B.venkataboopathy, Mr.A.Dileep, B.Ashwin & P.Balamurugan of 3<sup>rd</sup> year students has attended in six days workshop and received the certificate on the inaugural function of Vibrant 2K18 on the occasion of Mitilence.
- Mr.Rajakumaran has co-ordinated a “Driverless Cars” event in Technical Club Activity.
- Mr.G.Agilan, Mr.G.Dinesh Parekh, Mr.A.R.Aravind, Mr.K.Kumerasan, Mr.A.Aahaswaran, Mr.T.Krishanaraj and Mr.T.Devarajan of 3<sup>rd</sup> year and 2<sup>nd</sup> year Mechanical students has won the Stellars Trophy on 17.3.2018 organized by Department of Electronics and Communication MVIT.



- Mr.B.Duraimurugan & Mr.J.Edwin of 2<sup>nd</sup> year student has won the 1<sup>st</sup> prize in “Bottle Rocketrix” event on 23.3.2018 organised by Pondicherry Engineering College.
- Mr.B.Z.Jawahar of 3<sup>rd</sup> year student has participated in “Solo Singing” competition and won the 2<sup>nd</sup> prize with a cash award of Rs 1000.

- Mr.T.Devarajan, Mr.S.Govindan & S.Vignesh of 2<sup>nd</sup> year students has participated in “TATA Hackathon” on 1<sup>st</sup> march 2018 organised by Christ University Bangalore.



- Ms.K.Nilofer Jabeen & Mr.A.Aakash of 2<sup>nd</sup> year students has participated in paper presentation on “Design of solar consumer products ” on 3<sup>rd</sup> Mar 2018 organized by Technical Club & ISTE Students Chapter MVIT and won the 2<sup>nd</sup> Prize with a Cash award of Rs 1500.
- Mr.S.sakthivel and Mr.A.Jamaal Sharief of 3<sup>rd</sup> year students has participated in paper presentation on “Design of solar consumer products ” on 3<sup>rd</sup> Mar 2018 organized by Technical Club & ISTE Students Chapter MVIT and won the 3<sup>rd</sup> Prize with a Cash award of Rs 1000.



## NPTEL COURSES

- ✂ Mr. A.Jammal Sharief , Mr. M.Venkataboopathy & Mr.VigneshKumar of III year Mechanical Engineering Student has successfully completed the **NPTEL online certification** course “**Fundamentals of Manufacturing Process**” with “**Elite**” Certificate.
- ✂ Mr. S.Sakthivel of III year Mechanical Engineering Student has successfully completed the **NPTEL online certification** course “**Strength of Materials**” with “**Elite**” Certificate.
- ✂ Mr. R.Praveen Kumar of III year Mechanical Engineering Student has successfully completed the **NPTEL online certification** course on “**Strength of Materials**”
- ✂ Mr. P.Venkateswaran & Mr.K.Yogesh of III year Mechanical Engineering Student has successfully completed the **NPTEL online certification** course on “**Fundamentals of Manufacturing Process**”



