

VIBRANT

An Annual Magazine of Mechons...

VOLUME 1

2018-2019

**MANAKULA VINAYAGAR
INSTITUTE OF TECHNOLOGY**
Kalitheerthalkuppam, Puducherry – 605 107

VISION:

“The Mechanical Engineering Department aspires to be acclaimed globally for renowned education and research to accelerate well qualified engineers who are creative, entrepreneurial and flourishing in advanced fields of engineering and research.”.

MISSION:

Higher Order Thinking: To assure quality education to the students and broaden their profession to make them globally competent Mechanical Engineers.

Continuous learning:

Nurturing vital state of art, research facility to provide students and faculty with outstanding opportunities to discover, illustrate, implement and disseminate wisdom.

Competency: To develop alliance with world class R&D organizations and Educational Institutions in India and overseas for teaching, research and consultancy services.

Entrepreneurship: To provide the students with academic environment of excellence, leadership and ethical guidelines needed for lifelong prospective career.

ABOUT THE DEPARTMENT

Undergraduate education (UG) course B.Tech in Mechanical Engineering is a comprehensive degree program. The goal of the Mechanical Engineering curriculum is to create a flexible undergraduate educational experience in Design, Mathematics, Modeling, computation, Quality management, Engineering science & humanities.

The Department of Mechanical Engineering has been continuously striving to make progress in Teaching and Research. The Department was started with an intake (UG) of 60 students in 2012 and 120 students from 2015. The Mechanical Department is well equipped with excellent laboratories to make the students to easily understand and study the latest research areas such as computational fluid dynamics, Mechanics of Robot, Aerospace and Defense field, etc and also has separate Department library houses best books in the technical field this vast reservoir of knowledge is a source of constant value addition to the students and faculty members the library's rich in manufacturing, design, metallurgy, drawing and materials science. To enhance the Technical Skills of the students, the Department also organizes various program such Value- added course, Quiz completion, Seminars, Workshops, Industrial visit and Guest lecturers which would make them globally competitive as well as students become an indispensable Engineer and earn the income they deserve.

GOALS AND STRATEGIES

- a. Ensuring the preeminence of learning.*
- b. Providing high quality programs that meet the evolving needs of our students, community and sector.*
- c. Ensuring scholarly and creative activity.*
- d. Making collaboration integral to our core sectors.*
- e. Creating an environment where all students have the opportunity to succeed.*
- f. Expanding connections and partnerships with our*

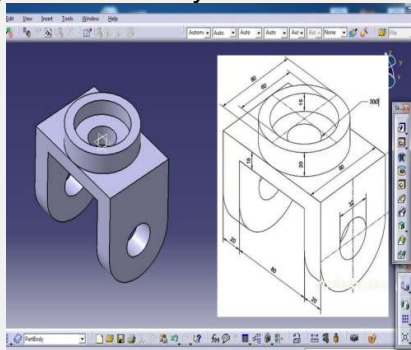
Design Competition

We use products which are designed by our engineers. The products we use in our daily life are designed and executed before they reach us.

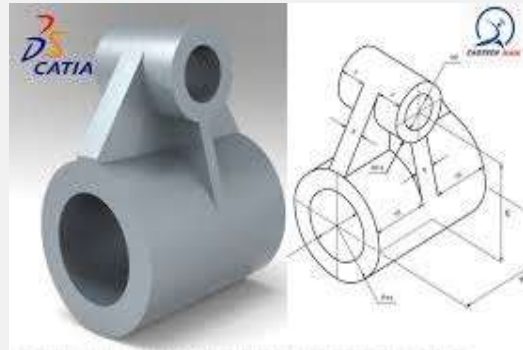
So now we conducted an AutoCAD design competition in our mechanical department. In this our friend **Mr. Guruprashanth** from 3rd year won the first place and **Mr. Shakhivel** from 3rd year won second place and they both were awarded and appreciated by presenting a pen drive to them. Here are their designs. In this design competition they allow to present a quick and finished design of an isometric object. By this creativity is allowing our self to make mistakes. Design knows which ones to keep. It motivates us to design more and learn more.

Few words from the winner,

"hi friends I am ARAVIND.A.R from 3rd b-sec, well in early periods when I joined my department I have no idea about designing but my faculties support and motivate me to learn to design and my seniors guide me in designing it was a wonderful occasion where I was awarded with a pen drive and like my seniors I also encourage my juniors and support them in every activities thank you....."



Mr. Guruprashanth



Mr. Shakhivel from

Appreciation is a wonderful thing. It makes what is excellent in others belong to us as well.

Articles

U.S.-INDIA RELATIONS

The U.S.-India partnership is founded on a shared commitment to freedom, democratic principles, equal treatment of all citizens, human rights, and the rule of law. The United States and India have shared interests in promoting global security, stability, and economic prosperity through trade, investment, and connectivity. The United States supports India's emergence as a leading global power and vital partner in efforts to ensure that the Indo-Pacific is a region of peace, stability, and growing prosperity. The strong people-to-people ties between our countries, reflected in a four million-strong Indian American diaspora, are a tremendous source of strength for the partnership. In December 2019, the United States hosted the second 2+2 Ministerial Dialogue in Washington led by the U.S. Secretaries of State and Defense and their Indian counterparts, at which both sides reaffirmed India's status as a Major Defense Partner and deepened cooperation on maritime security, interoperability, and information sharing. While the 2+2 serves as the premier dialogue mechanism between the United States and India, there are more than thirty bilateral dialogues and working groups, which span all aspects of human endeavor, from space and health cooperation to energy and high technology trade. These include the U.S.-India Counterterrorism Joint Working Group, which was established in 2000 and is among our oldest government to government dialogues, as well as the Strategic Energy Partnership, Cyber Dialogue, Civil Space Working Group, Trade Policy Forum, Defense Policy Group and many more.

This is the article written and expressed by Gokul Raj III year Mechanical engineering and he showcased his expression through his words.

Economic Relations

The United States seeks an expanded trade relationship with India that is reciprocal and fair. In 2019, overall U.S.-India bilateral trade in goods and services reached \$149 billion. U.S. energy exports are an important area of growth in the trade relationship. In 2018 India purchased 48.2 million barrels of U.S. crude oil, a significant increase from 9.6 million in 2017. Last year, Indian students enrolled at U.S. colleges and universities contributed over \$8 billion to the U.S. economy. The total number of Indian students in the United States has more than doubled over the last decade, from 81,000 in 2008 to a record high of 202,000 in 2019.

International Cooperation

India and the United States cooperate closely at multilateral organizations, including the United Nations, G-20, Association of Southeast Asian Nations (ASEAN) Regional Forum, International Monetary Fund, World Bank, and World Trade Organization. The United States welcomes India joining the UN Security Council in 2021 for a two-year term, and supports a reformed UN Security Council that includes India as a permanent member. India is an ASEAN dialogue partner, an Organization for Economic Cooperation and Development partner, and an observer to the Organization of American States. India is also a member of the Indian Ocean Rim Association (IORA), at which the United States is a dialogue partner. In 2019, the United States joined India's Coalition for Disaster Resilient Infrastructure to expand cooperation on sustainable infrastructure in the Indo-Pacific region.

Drawing Competition

Life is the Art of Drawing sufficient conclusions from insufficient premises.

My Attitude towards drawing is not necessarily about drawing. It's about making the best kind of image I can make. It's about talking as clearly as I can. Drawing a good picture is like telling a really good lie- the key is the incidental detail.

We have conducted a drawing competition in our department of Mechanical Engineering the winners of the competition are,

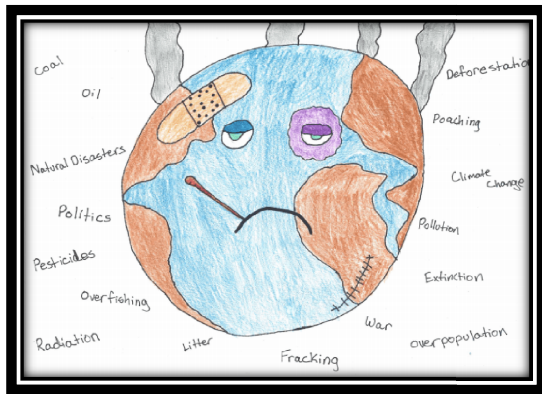
Mr. Aditya Narayanan – 1st prize

Mr. Gunaseelan – 2nd place

They responded to the competition's themes of "TREE PLANTATION AND SOLAR ENERGY" by creating something that reflects the life of a community under construction, in all senses.

A FEW WORDS FROM THE WINNERS

"Hi guys we are Aditya Narayanan and Gunaseelan from the mechanical department we are also one of them and passionate about drawing and paintings that sometimes we don't even know what we were drawing but we draw. We were very fond of drawing classes in our school days. Those were the days when we used to draw some stuff on the last page of our notebooks while the teacher was teaching some other subject. For us, Drawing and Painting is something that we can't live without."



Mr. Aditya Narayanan



Mr. Gunaseelan

SPORTS MEET (2016-2017)

Third year student Mr. Prem Kumar started an awareness campaign cycle tour to create traffic rules awareness among public.

Mr. C. Maran Superintendent of Police, Puducherry participated as a chief guest and flagged off the awareness campaign by Mr. Prem Kumar from Puducherry beach near Gandhi statue. He also said that in the current scenario, usage of vehicle is increasing and people should understand and follow the traffic rules properly to avoid accidents, it is easy for volunteers like Prem Kumar to bring it to the public and also he wished him for the awareness campaign to become a grand success.

. This cycle awareness campaign journey took place for one week via Puducherry, Cuddalore, Chidambaram, Sirkazhi, Karaikal, Nagai, Thiruvavur, Trichy, Kumbakonam, Sethiathoppu, vadalur and return back to Puducherry. It is noteworthy that Prem Kumar has already received an award for the best social services.





Mr.R.Hariharan, Mr.Purushothaman.D, Mr.Yuvaraj.R, and Mr.Sakthiperumal.M of Final year Mechanical Engineering Student has participated at paper presentation competition at Karpaga Vinayaga college of engineering & Technology and won the best paper award for the project titled as "Study of Mechanical properties of Hybrid Composite Aluminium as matrix Tungsten Carbide and graphite as reinforcement Fabricated via Friction Stir Process(FSP)".

About VIBRANT

Vibrant is a yearly magazine compiled and published among students by the students community in Manakula Vinayagar institute of Technology from the Department of Mechanical Engineering. Students from all the years can indulge in innovative and interested topic related either engineering related trends or in non technical related topics.

Students can express their own confession or any other ideas they can give for the development of Mechanical Engineering Department and the institution.

Students extracurricular and all other stuffs that they were really interested and want to develop can indulge in this magazine and show case their talent.

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