

## VISION

To prepare mechanical engineers with global competency and desire to serve the society.

## MISSION

- ✦ **DM1:** Transforming students as Mechanical Engineers with professional attitudes, Industrial adoptability, and leadership abilities.
- ✦ **DM2:** Providing Quality Education with state-of-art facilities.
- ✦ **DM3:** Inculcating ethical values, ability to lifelong learning and social responsibilities.

## PROGRAM EDUCATIONAL OBJECTIVES

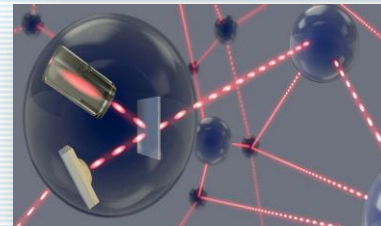
- ✦ **PEO1:** To pursue successful careers or higher studies in Mechanical engineering through their strong foundation in mathematics, science and engineering.
- ✦ **PEO2:** To analyze and design appropriate solutions for socially relevant problems by using current engineering techniques.
- ✦ **PEO3:** To exhibit professionalism, ethical attitude, communication, managerial skills, team work and social responsibility in their profession and adapt to current trends by engaging in continuous learning.
- ✦ **PEO4:** To grab an opportunity to expand their horizon beyond Mechanical engineering.

## PLACEMENTS

NAME	ROLL NUMBER	COMPANY	DATE OF DRIVE
S. Naga Sai Kiran	158T1A0355	GlenWood	11.11.2018
G.Rishidhar	158T1A0375	Jaro	18-11-2018
R.Rajasekahara Reddy	158T1A0368	Balaji Industries	29.11.2018
K.Ranjith	158T1A0371	Balaji Industries	29.11.2018
K.Shiva Shankar	158T1A0395	Balaji Industries	29.11.2018



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*There are only two ways to live your life. One is as though nothing is a miracle. The other is as though everything is a miracle. ≈≈ Albert Einstein ≈≈*

## Quantum Supremacy

The focus of researchers based at the Center for Hybrid Quantum Networks (Hy-Q) at the University of Copenhagen's Niels Bohr Institute has invented a component, called a **Nano Mechanical router**, that emits quantum information carried by light particles (photons) and routes them into different directions inside a photonic chip. Photonic chips are like computer microchips -only, they use light instead of electrons. The component merges Nano-opto-mechanics and quantum photonics i.e. two areas of research that, until now, have never been combined. Most spectacular of all, is the size of the component, just a tenth that of a human hair. It is this microscopic size that makes it so promising for future applications. To exploit quantum mechanical laws to e.g., to build a quantum computer or a quantum internet, many nanomechanical routers must be integrated in the same chip. About 50 photons are required to have enough power for achieving what is known as "quantum supremacy."

"We have calculated that our nanomechanical router can already be scaled up to ten photons, and with further enhancements, it should be able to achieve the 50 photons needed to reach 'quantum supremacy.'" The invention is also a major leap forward in controlling light in a chip. Existing technology allows for only a few routers to be integrated on a single chip due to the large device footprint. Nanomechanical routers, on the contrary, are so small that several thousand can be integrated in the same chip.

--- Article by **CH.THRINADH (168T1A0312)**

## EVENTS CONDUCTED

### ISHRAE State Level Quiz

Department organized ISHRAE State Level Quiz Competition on 29-09-2018. The Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE), Vijayawada sub chapter and Dhanekula Institute of Engineering & Technology conducted this event at ME seminar hall, Almost 60 Student with 23 faculty members and 07 non-teaching staff have attended in this and made the session fruitful. The session was headed by Dr. B. Satish Kumar, Dr. V.V.Subha Rao, Mr. A Pulla Rao, ISHRAE, and Vijayawada Sub-chapter.



### 3D Experience bus

Dassault 3D experience bus under governance of APSSDC has arrived in campus for a 2-day programme to train students and a brief for faculty about the skill development in area of designing and simulation in 3D catia version under the guidance of Executive director T.Anil Kumar, Chief General manger G.Ravi has conducted on 13,14<sup>th</sup> of November.



## FACULTY DEVELOPMENT PROGRAMME

Faculty development programme on the topic Fluid Dynamics conducted in department CAD lab, dated 23-11-2018 to 25-11-2018. Professors from NIT Warangal Dr.V.Vasu, Dr.A.R.K.Raju, Dr.D.Vijay Krishna have attended the programme and also gave brief about MAT lab and its importance. Faculty about 30 members from other colleges have also attended programme and got certified.

## INDUSTRIAL VISIT

Final Year Mechanical engineering both A&B Students attended an Industrial Visit to Hindustan Coca-Cola Beverages Pvt. Ltd, Vijayawada on 11-09-2018. In this particular program students got exposed to the machinery about conveyor belts, sealing and packaging of the bottles. Co-ordinate by Mr.M.Venkat Reddy and Mr.A.Pratyush.



### **Editorial & design Team**

**Faculty:** Ms.B.Mounika, Assistant Professor.

**Students:** P.Kumar Raja - IV Year  
G.Charitesh Babu - III Year  
G.Pavan Kumar - II Year