

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

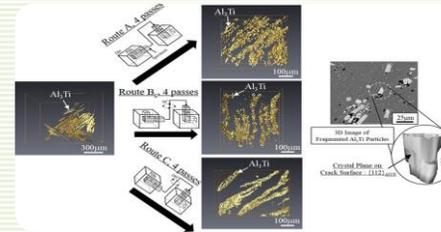
NAME	ROLL NUMBER	COMPANY	DATE OF DRIVE
P. Kumar Raja	158T1A0335	Infosys	14-12-2018
S. Sujana	158T1A0351	Raam Group	28.12.2018
Md.Ahmed	158T1A0352	Raam Group	28.12.2018
D.Devi Abhishek	158T1A0310	Raam Group	28.12.2018
P.Divya	158T1A0312	Raam Group	28.12.2018
Mahendra Reddy	158T1A0341	Raam Group	28.12.2018
T.Manoj	158T1A0347	Raam Group	28.12.2018
Chandra Sekhar	158T1A0309	Raam Group	28.12.2018
S. Sujana	158T1A0351	Regalix	29.12.2018
Rishidhar.G	158T1A0375	Amazon Effive India Pvt Ltd	28.01.2019



MECH NEWS
DEC-JAN 2018-19



Stress of stretching solids: 3D image shows how particles distribute in metals



Excellence is a continuous process and not an accident
by A.P.J.Abdul Kalam

"Strength of the composite is controlled by size, spatial distribution, and three-dimensional shape of the particles," In making the composites, such as drawing out metal alloys to make suspension wire for bridges, the materials are pressed and stressed to break apart the particles. The particles are then drawn out into a thinner rearrangement, but they must be carefully controlled to avoid losing strength or becoming brittle. This process, called **Equal Channel Angular Pressing (ECAP)**, is referred to as "deforming" the particles of the composite from their original state.

From the pots and pans on the stove to the wires suspending bridges, metal composites need to account for a variety of strength, malleability, and durability to meet human need. Now, researchers have applied 3D crystallography to visualize how individual particles shape up the composites They found that the deformed fragments re-distributed on how the scaffolding -- the matrix -- underlying the composite was broken apart and put back together, such as particles rearranging closer together as suspension wire is drawn out because the surface area is reduced.

More than that, the particle distribution in the deformed composite could actually be controlled based on material flow of its matrix. researchers saw that the deformation process for the Al-Al₃Ti composite created better grain refiner for the Al casting, but they didn't understand the mechanisms underlying the improved outcomes. Now, researchers and engineers may be able to design better grain refiner for Al casting with precise control.

"Strength and ductility of the metal-based composite strongly depend on the particle size and the spatial distribution of the particle."

--- Article by **CH.Janardhan Babu (178T5A0344)**

EVENTS CONDUCTED

Seminar

“Pradhan Mantri Kaushal Kendra(PMKK)” & “National Skill Development Corporation(NSDC)” Guest lecturer on 12.02.2019, Mechanical Engineering Department organized Guest lecture at ME seminar hall, Almost 370 Student with 12 faculty members and 04 non-teaching staff have attended in this and made the session fruitful. The session was headed by Mr. Ganesh, Training Instructor, IL& FS Skill Development Corporation (Pradhan Mantri Kaushal Kendra), Vijayawada.

DHANUSH 2K18

Department organized many Technical events like Engine Assembly, Lab view, Technical Quiz, Project Expo,contraption ,Paper presentations, Poster presentations dated on 15.12.2018 and 16.12.2018.



Kite festival and Rangoli

on the eve of sankranthi festival Institute has celebrated Kite festival and Rangoli programme in campus on 05.01.2019. Many students participated in the event with great joy and ecstasy and made the event colorful.



Republic day

Republic day was celebrated in the college on 26th January 2019. Chairman of the Institute Dhanekula Ravindranath Tagore sir and Principal Dr.kadiyala Ravi sir hoisted the flag and spoke about the importance of the day.



INDUSTRIAL VISIT

- Second Year Mechanical engineering both A&B Students attended to Harsha liners private limited, Vijayawada on 05-01-2019. In this particular program students got exposed to the manufacturing of piston cylinders liners which is done by centrifugal casting method.Co-ordinated by Mr.G. Purna Chandra rao and Mr.M.Venkat Reddy.



- Third Year Mechanical engineering both A&B Students attended to Krishna district lorry owners association, Vijayawada on 05-01-2019.In this program they got to know about traffic regulations and awareness. Co-ordinated by Mr.D.Mojeshwara Rao and Mr.G.Ashok.

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