



**NARSIMHA REDDY ENGINEERING COLLEGE**



( Affiliated to JNTU Hyderabad- Approved by AICTE, New Delhi)

Maisammaguda – 500014

**ABOUT THE DEPARTMENT:** Engineering advancements happening in the world's workshop, so with the standard of engineering consistently rising, mechanical engineering is creating ripples in the technology world. The department is established in the year 2007 with an intake of 60 and the number is increased up to 90 in 2009 and 120 in 2013. The department is headed by Dr .Venkataramana Murthy. Mechanical Engineering is a fast-growing discipline in tune with the demands in the core areas of infrastructure and Manufacturing.

### **VISION AND MISSION OF THE DEPARTMENT**

**VISION:** The vision of the department of the mechanical engineering is to generate disseminate mechanical engineer knowledge through harmonious blending of theoretical and practical knowledge.to produce mechanical engineering professionals enriched full and advanced knowledge of mechanical engineering heightened with intellectual, cultural, ethical and human sensitivities, fostering a scientific temper, professional expertise as well.

**MISSION:** The mission of the mechanical department is

1. To achieve the mechanical engineering and research
2. To generate disseminate and preserve knowledge
3. Promote learning in free thinking and innovative environments.
4. To educate train and prepare students for leadership roles in the field of mechanical engineering
5. Make the students to stand well in their profession and to bring name and fame to the department, institution and nation.

### **Program Specific Outcomes (PSOs)**

PSO1: Drafting, modeling and analysis of machine elements with Pro-E and ANSYS.

PSO2: Students will be able to design a system to meet desired needs within environmental, economic, political, ethical health and safety, manufacturability and management knowledge and techniques to estimate time, resources to complete project (Practical engineering analysis skills)

PSO3: Students will be able to work professionally in both thermal and mechanical systems areas.

### **Program Educational Objectives (PEOs)**

Mechanical Engineering graduates will be able

PEO1: To apply knowledge of fundamental sciences and engineering skills required to solve mechanical engineering problems of a complex kind

PEO2: To function as a coherent unit leading multidisciplinary design teams, and deliver results based on sound principles considering functionality, elegance, safety and sustainability.

PEO3: To have an outlook beyond mechanical engineering and step into various interdisciplinary streams and to pursue professional practices in industries

## EXTRA-CURRICULAR ACTIVITIES ORGANIZED

### Students Achievement in Sports/Cultural Events

S.No	Student Roll No.	Name of student	Name of the award/medal	National/international	sports	Cultural
1	16X05A0303	B Lakesh	Shield	National	Short Put	---
2	16X05A0303	B Lakesh	Shield	National	Rasta	---
3	16X05A0303	B Lakesh	Shield	National	100 Mrts Running	---
4	16X05A0303	B Lakesh	Bronze Cup	National	Kabaddi	---
5	16X01A0344	Y Srikanth	Shield	National	Kabaddi	---
6	16X01A0344	Y Srikanth	Bronze Cup	National	100 Mrts Running	---
7	17X01A036	V Sai Kiran	Cup trophy	National	Chess	---
8	16X01A0317	Akhil Reddy	Silver Cup	National	chess	---
9	17X01A0336	Sujith Chowhan	Silver cup	National	Bal batmiton	---
10	17X01A0357	Natti Raj Kumar	Bronze cup	National	Chess	---



**FACULTY RESEARCH PUBLICATIONS: (JOURNALS) 2017-18**

S.No	Name of the Faculty	Designation	Title of the Paper	Publication Details	National/International
1	<b>Dr. P. Raghavalu</b>	<b>Professor</b>	Performance Analysis Of Two Stroke Petrol Engine On The Basis Of Variation In Carburetor Main-Jet Diameter	IJSETR,ISSN 2319-8885,VOL.06,ISSUE.32 OCTOBER-2017	International
2	<b>Dr. V P V Venkataramana Murthy</b>	<b>Professor</b>	Studies On Recycled Aluminum (Aa319) Reinforced With Recycled Glass	IJMPERD,ISSN 2249-8001,VOL.08,ISSUE.3 OCTOBER-2017	International
2	<b>Mr.P.Pramod Kumar</b>	<b>ASP</b>	An Analytical Study Of Buckling Behavior Of Nanocomposite Beams	SAE INTERNATIONAL, 9th JULY 2018, 2018-28-0050	International
			An Analytical Study Of Buckling Behavior Of Cnt/Polymer Composite Plates Using Firstorder Shera Deformation Theory	SAE INTERNATIONAL, 9th JULY 2018, 2018-28-0050	International
			Design And Cfdanalysis Of Hair Pin Heat Exchanger By Using Different Nanofluids	IJSETR,ISSN 2319-8885,VOL.06,ISSUE.31 OCTOBER-2017	International
3	<b>Mr. Golla Sathish Kumar</b>	<b>ASP</b>	Fluid ,Thermal And Static Analysis Of Radial Flow Micro Gas Turbine Using Cfd	IJIMINDS,ISSN-2349-2082,VOL-4,ISSUE-11,IMPACT FACTOR - 0.726,PAGE N0-61-67,NOV-2017,	International
			Design Optimization Of Thermal Sleeves For Desuperheating Applications	IJIMINDS,ISSN-2349-2082,VOL-4,ISSUE-10,IMPACT FACTOR - 0.726,PAGE N0-52-60,OCTOBER-2017,	International
			Thermal Analysis And Optimization Of I.C. Engine Piston Using Finite Element Analysis	IJSETR,ISSN 2319-8885,VOL.06,ISSUE.31, PAGE-6303-6307, OCTOBER-2017	International
			Design And Thermal Analysis Of Engine Cylinder Fin Through Various Fin Fabrics	IJMETMR,ISSN 2348-4845,VOL-4,ISSUE-11,PAGE 36-42,NOV-2017	International
			Performance Analysis Of Two Stroke Petrol Engine On The Basis Of Variation In Carburetor Main-Jet Diameter	IJSETR,ISSN 2319-8885,VOL.06,ISSUE.32 OCTOBER-2017	International
4	<b>Mr. Avinash Pachori</b>	<b>ASP</b>	Investigation Of Vehicle Rear Under Run Protection Device (Rupd) Using Aluminium Foam	INTERNATIONALCONFERENCE SERIES MATERIAL SCIENECE AND ENGINEERING ISSN-1757-899X,225012289 ICMAEM-2017	International
5	<b>Mr. Sharan Kumar D</b>	<b>AP</b>	Performance Test On Single Cylinder Ci-Engine Waste Plastic Fuel Blend With Diesel Fuel	IJESI, ISSN 2319-6726,VOL-7,ISSUE-5,JOURNAL NUMBER 43302,2018	International
			Enhancing The Heat Transfer For Multi Cylinder Engine Piston And Piston Rings	IJMETMR,ISSN 2348-4845,VOL-4,ISSUE-11,NOV-2017,PAGE NO-13-19	International
			Enhancing The Performance Of Engine Block By Varying Cooling	IJMETMR,ISSN 2348-4845,VOL-4,ISSUE-	International

			Fluids	11,NOV-2017,PAGE NO-30-35	
			Design And Thermal Analysis Of Engine Cylinder Fin Through Various Fin Fabrics	IJMETMR,ISSN 2348-4845,VOL-4,ISSUE-11,PAGE 36-42,NOV-2017	International
6	Mrs. T Anuradha	AP	Engine performance and emission characteristics of a single cylinder diesel engine working on different plastic fuel blends produced from catalytic pyrolysis of different waste plastics	IJRAR, ISSN 2348-1269,vol-6, issue-1,jan-march 2019	International
			Performance Test On Single Cylinder Ci-Engine Waste Plastic Fuel Blend With Diesel Fuel	IJESI, ISSN 2319-6726,VOL-7,ISSUE-5,JOURNAL NUMBER 43302,2018	International
7	Mr. S Rajesh	AP	Production, Purification, And Evaluation Of Different Plastic Bio Fuel Blended From Municipal Waste Plastic	IJMPERD,ISSN 2249-8001,VOL.08,ISSUE.3 OCTOBER-2017	International
			Thermal Analysis Of Combustion Outer Case For turbo Engine	IJMETMR,ISSN 2348-4845,VOL-4,ISSUE-11,PAGE 21-29,NOV-2017	International
			Production Of Bio Fuel Compounds From Waste Plastics By Using Catalytic Pyrolysis Process	IRJET,ISSN-2395-0056,VOL 5 ,ISSUE5,5th MAY 2018	International
8	Mr. Pavan Kumar	AP	Engine Performance And Emission Characteristics Of A Single Cylinder Diesel Engine Working On Different Plastic Fuel Blends Produced From Catalytic Pyrolysis Of Different Waste Plastics	IJRAR, ISSN 2348-1269,vol-6, issue-1,jan-march 2019	International
			Production Of Bio Fuel Compounds From Waste Plastics By Using Catalytic Pyrolysis Process	IRJET,ISSN-2395-0056,VOL 5 ,ISSUE5,5th MAY 2018	International
9	Mr P. Naveen Kumar	AP	Production,Purification,And Evaluation Of Different Plastic Bio Fuel Blended From Municipal Waste Plastic	IJMPERD,ISSN 2249-8001,VOL.08,ISSUE.3 OCTOBER-2017	International
			Engine Performance And Emission Characteristics Of A Single Cylinder Diesel Engine Working On Different Plastic Fuel Blends Produced From Catalytic Pyrolysis Of Different Waste Plastics	IJRAR, ISSN 2348-1269,vol-6, issue-1,jan-march 2019	International
			Production Of Bio Fuel Compounds From Waste Plastics By Using Catalytic Pyrolysis Process	IRJET,ISSN-2395-0056,VOL 5 ,ISSUE5,5th MAY 2018	International
10	Mr.Chinna Mohammad Basha	AP	Fabrication & Investigation On Mechanical Properties Of Aluminum Hybrid composite	IJAAS,ISSN-2313-626X,2017	International
			Design &Analysis Of Composite Leaf Spring For Jeep Military	IJMET,ISSN-0976-6340 VOL-8,ISSUE-4,PP.47-58,APRIL-2017	International

			Automatic Fire Sprinkler By Using Nitinol Wire	IJRAS,ISSN-2394-4404,ISSUE-2,VOL-4,PP-41-44,FEB-2017	International
			Design & Analysis Of Shock Absorber	IRJET,ISSN-23950056,VOL-04,ISSUE-01,PP-708-714,IMPACT FACTOR-5.181,JAN-2017	International
			Influence Of Titanium Carbide & Rice Husk Ash As Reinforcement In Aluminum Alloy Matrix	JARDCS,ISSN-1943-023X,ISSUE-6,PP-1504-1517,2017	International
11	<b>Mrs. Archana Mishra</b>	<b>AP</b>	Engine Performance And Emission Characteristics Of A Single Cylinder Diesel Engine Working On Different Plastic Fuel Blends Produced From Catalytic Pyrolysis Of Different Waste Plastics	IJRAR, ISSN 2348-1269,vol-6, issue-1,jan-march 2019	International
12	<b>Mr. Sai Shyam</b>	<b>AP</b>	Engine performance and emission characteristics of a single cylinder diesel engine working on different plastic fuel blends produced from catalytic pyrolysis of different waste plastics	IJRAR, ISSN 2348-1269,vol-6, issue-1,jan-march 2019	International
13	<b>Mrs. D. Krishnaveni</b>	<b>AP</b>	Production,Purification,And Evaluation Of Different Plastic Bio Fuel Blended From Municipal Waste Plastic	IJMPERD,ISSN 2249-8001,VOL.08,ISSUE.3 OCTOBER-2017	International

### Faculty Research Publications : Conferences

#### CONFERENCES 2017-2018

S.No	Name of the Faculty	Designation	CONFERENCE NAME	CONFERENCE DETAILS	National/International
1	<b>Mr. M.Venkateswar Reddy</b>	<b>ASP</b>	<b>ICADMMS-2018</b>	Advances In Design Materials ,Manufacturing And Surface Engineering For Mobility,July-2017	International
			<b>ICADMMS-2017</b>	Advances In Design Materials ,Manufacturing And Surface Engineering For Mobility,July-2017	International
2	<b>Mr.P.Pramod Kumar</b>	<b>ASP</b>	<b>ICMAEM-2017</b>	Deflection And Buckling Behaviour Of Simply Supported Nano Composite Beams Under FsdT Approach	International
3	<b>Mr. Avinash Pachori</b>	<b>ASP</b>	<b>ICAHPAFC-2017</b>	Advances In Hydrogen Production And Applications Of Fuel Cells-July-2017	International
			<b>ICMAEM-2017</b>	Investigation Of Vehicle Rear Under Run Protection Device (Rupd) Using Aluminium Foam , Internationalconference Series Material Sciencee And Engineering,Issn-1757-899x, 225012289	International

4	Mr. N.Nagu Naik	AP	ICAHPAFC-2017	Advances In Hydrogen Production And Applications Of Fuel Cells-July-2017	International
			ICADMMS-2017	Advances In Design Materials ,Manufacturing And Surface Engineering For Mobility,July-2017	International
5	Mr. Sannayarashi Venkatesh	AP	ICMAEM-2017	Materials, Alloys And Experimental Mechanics,July-2017	International
6	Mr. M.Venkateswar Reddy	ASP	ICADMMS-2018	Advances In Design Materials ,Manufacturing And Surface Engineering For Mobility,July-2017	International
			ICADMMS-2017	Advances In Design Materials ,Manufacturing And Surface Engineering For Mobility,July-2017	International

### Special Lectures Delivered by Faculty Members

S. No.	Faculty Name	Title	Venue / Event	Date
1	Dr. V. P .Venkataramana Murthy	Bloom's Taxonomy	Narsimha Reddy Engineering College	10-Mar-18
2	Mr. Avinash Pachori	ICT Tools		
3	Dr. V. P .Venkataramana Murthy	NPTEL & SWAYAN ONLINE COURCES	Narsimha Reddy Engineering College	04-Aug-18

### E-Gallery



### Industrial visit:

S. NO.	SEMESTER	DATE	INDUSTRY VISITED	STAFF NAME	NO. OF STUDENTS
1	II SEM	14/6/2018	AIR FORCE ACADEMY HYDERABAD	AVINASH PACHORI	50
2	II SEM	24/3/2017	MAHINDRA & MAHINDRA	M.VENKATESWAR REDDY	30
3	II SEM	14/3/2018	Orbit Equipment PVT LTD	Dr. V.P.V MURTHY	40





FDP/WORKSHOP: E-Gallery



SAE EVENTS:E-Gallery





## Placement Details:

S. No.	Student Name	Organization	Salary offered (Lakh/year)
1	K.Uttej	Navata road transport pvt. Ltd.	1.8 L/A
		magnetek enter prizes pvt ltd	2.5L/A AND 3.6 L/A
		Eurekhaforbes ltd	1.5L/A
		Sri logilludeveloperspvt.ltd.	2.16 L/A
2	Md.Hameedbasha	Navata road transport pvt. Ltd.	1.8 L/A
		Ark it services	2.4 L/A
3	M.chandramohanreddy	Navata road transport pvt. Ltd.	1.8 L/A
4	T.Aakashverma	Navata road transport pvt. Ltd.	1.8 L/A
		Qspiders	
		Trans pack asia	6.8 L/A
5	P.Nikhil	Navata road transport pvt. Ltd.	1.8 L/A
6	P.Vinaykumarreddy	Navata road transport pvt. Ltd.	1.8 L/A
7	P.Nithin	Navata road transport pvt. Ltd.	1.8 L/A
		Eurekhaforbes ltd	1.5L/A
8	D.Rahul raj	Navata road transport pvt. Ltd.	1.8 L/A
		magnetek enter prizes pvt ltd	2.5L/A AND 3.6 L/A
		Eurekhaforbes ltd	1.5L/A
9	E. Vikasreddy	Navata road transport pvt. Ltd.	1.8 L/A
		magnetek enter prizes pvt ltd	2.5L/A AND 3.6 L/A
		Intelent global services	1.8 L/A
10	M.Revanth	Navata road transport pvt. Ltd.	1.8 L/A
		Eurekhaforbes ltd	1.5L/A
11	D.Naveenkumar	Eurekhaforbes ltd	1.5L/A
12	K.Sricharanreddy	Navata road transport pvt. Ltd.	1.8 L/A
		Reliance life	2.4 L/A
13	Pradeepreddy	Navata road transport pvt. Ltd.	1.8 L/A
14	Md.moinalam	paytm	1.8 L/A
15	Parashuram	Intelent global services	1.8 L/A
		Hinduja global solutions	1.2 L/A
16	Anil chowdhary	Karvy group	1.8 L/A
17	Sappaavinash	magnetek enter prizes pvt ltd	2.5L/A AND 3.6 L/A
18	Rahul tummala	magnetek enter prizes pvt ltd	2.5L/A AND 3.6 L/A
		Sri logilludeveloperspvt.ltd.	2.16 L/A
19	Vivekyadav	GENPACT	1.8 L/A

GEAR UP