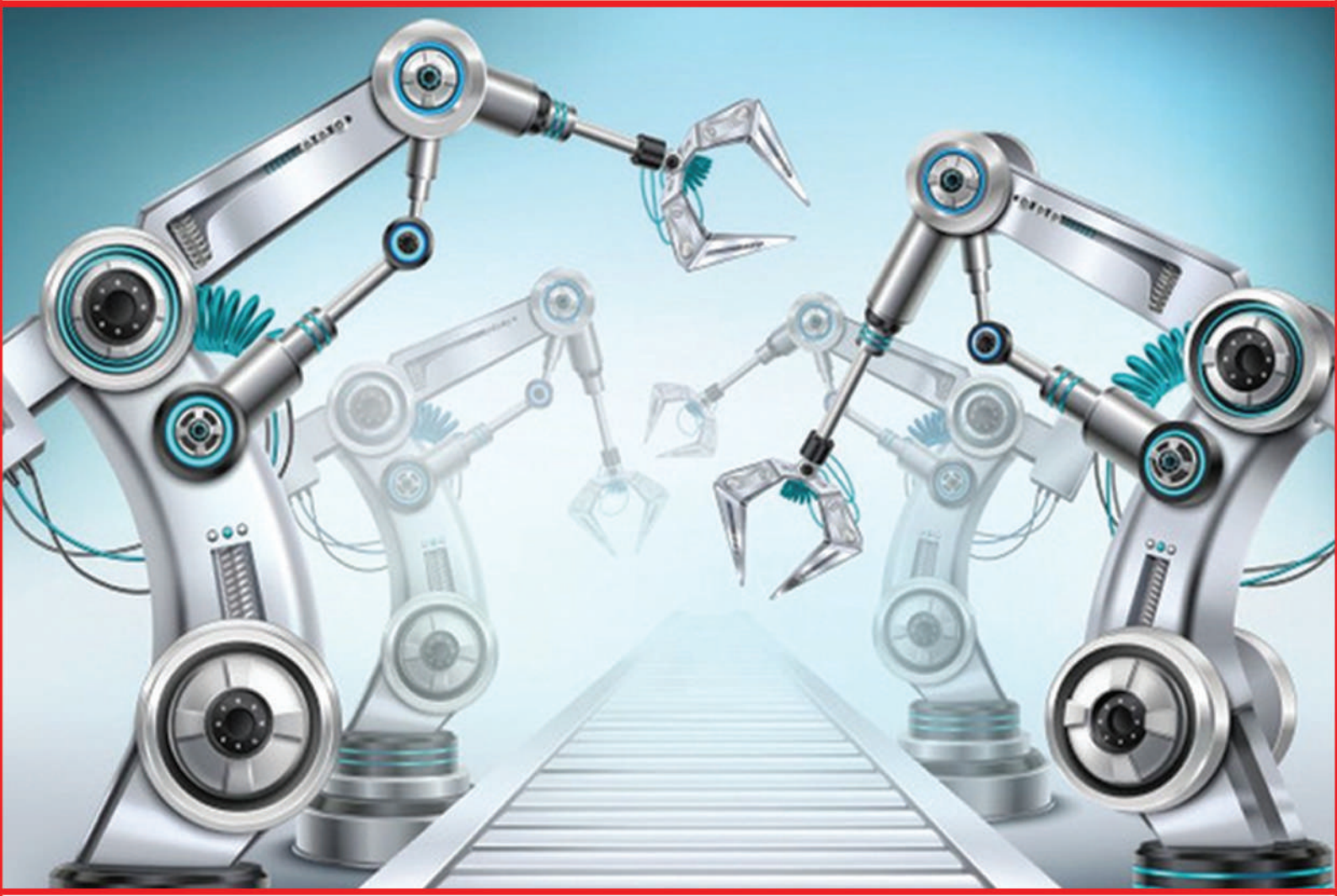
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

NAAC 'A' GRADE

RANKED 4th PRIVATE ENGINEERING COLLEGE IN A.P

TECHNICAL MAGAZINE MECH MANTRA



JANUARY TO JUNE 2021

VOLUME : 11

Department of

MECHANICAL ENGINEERING

EDITORIAL BOARD

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IV year, ME

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III year, ME

Ms. SK.Manisha
II year, ME

MESSAGES

Chairman's message

It gives me great happiness to note that the Department of Mechanical Engineering, NEC is bringing out the volume-11 of the department technical magazine, "Mech Mantra". From the first edition, I understand thatthis magazine is intended to bring out the hidden literary talents in the students and also to inculcate leadership skills among them. The newsletter has served as a platform for the students to share their knowledge and ideas. I expect the contributions to this magazine to be of high standard and quality. I wish all the success for this venture.

Vice Chairman's message

I feel extremely delighted to observe that the department of Mechanical Engineering is coming out with a magazine this year also with the dedicated and committed efforts of the faculty and the students of the Editorial Board. The activity depicts the commitment and involvement of students and their thirst for knowledge.

I congratulate the efforts of the members of the Editorial Board in bringing out the volume-11 of the magazine. It is because of their selfless and untiring efforts that we see the magazine enriched with variety of articles.

Principal's message

The magazine of the department is the reflection of the creativity of the students, involved in multifarious activities. It speaks about their imaginative creativity through the medium of a language given in literary and artistic shape.

I feel gratified to see that the department is doing its best in carrying out the mission of grooming the students as such professionals who are not only competent enough to combat the challenges in their life but also become good human beings with moral excellence and social sensitivity

HOD's message

I feel privileged in presenting the volume-11 of our department association magazine. Iwould like to place my sincere and heartfelt thanks to all those who have contributed tomake this effort a success. My special thanks to the Management, for their guidance which enabled us to bring out this volume-11.

The magazine has a variety of articles endowed with different subjects contributed by the students of our department and their participation in various activities round the year.

I extend my gratitude to the entire team of the Editorial Board for their constant exertion, revision and supportin bringing out the magazine in the present form.

INDEX

DESIGN & FABRICATION OF MOTORISEDROTI-MAKING MACHINE

The objective of the "Design & Fabrications of motorized roti maker", for Indian households by considered usability, easy handling, and hygiene. In the fast moving world when everything is automated, even our kitchen is turned to an unmanned atmosphere. Employed people to find it tough to cook after a tedious work culture Our system puts forward a fully automated roti making system to making roties by applying small pressures without wasting the time and energy The main objective of our project is to chapathi making machine with the help of rotating sources by electric motor . For a developing food product industries, hotels the operation performed and the parts (or) components produced should have it minimum possible production cost, and then only industry runs profitability.

M.Shashank

II Year ME

DESIGN AND FABRICATION OF TIN CRUSHER

The main aim of this project is to fabricate a Can Crusher machine to reduce the scrap volume and use the Cans so that carrying them to the recycle site becomes easy. Now-a- days, a large number of cans are used in hotels, canteens etc. and a large volume of space is required for storing or dumping the used Cans. This project includes fabrication of a Can Crusher using single slider crank mechanism which will reduce the volume of cans at least 70%. This report demonstrates the necessary calculation, assembling and fabrication of the machine. i.e. manually operated is made, regarding their efficiencies, cost of construction etc, and presented here in this report.

K.Sasi kumar,
II Year ME

FABRICATION OF MANUAL CORN PEELING MACHINE

The maintenance and service of 'Maruti-800 Engine setup' is taken as project work. The engine has horse power of 12 and engine was manufactured in 2004. The engine working was run for finding any defects and for knowing the performance of components like oil filter, oil pump, nozzle, injectors. It was found that pump, carburettor has some problems. The components were disassembled for inspection. The pump was maintained for its working as per the operation manual and the problems were rectified. Similarly the carburettor was inspected for mixing conditions and it was thoroughly cleaned and it is fitted with new spark plugs. The engine was made trail run for few hours followed by taking readings of fuel consumption, brake power. The performance parameters like thermal efficiency, volumetric efficiency, Brake specific fuel consumption were successfully measured. The engine is now in good working condition.

G.Anil
III Year ME

FABRICATION OF CRANK PEDAL OPERATING WASHING MACHINE

The crank Pedal Operated Washing Machine is the project which is best option for rural area where there is a problem of electric supply or there is shortage of electric supply. Pedal power is the transfer of energy from a human source through the use of a foot pedal and crank system. Washing clothes is one of the essential parts of life. We all wash our clothes either by hands or by machine. A washing machine is a device designed to wash laundry such as clothes and sheets. In these days there exists a wide variety of washing machines in the market and there is stiff competition among the manufacturers. All of these washing machines are powered by electricity and the basic principle of operation is by creating a turbulent flow of the detergent around the dirty clothes. Almost 60 percent of our population lives in rural areas where it is impossible to use electric powered washing machines, mainly due to the unavailability of electricity or the absence of the machine itself due to high costs of purchasing a new washing machine. Washing clothes by hand is laborious, strenuous, takes a lot of time and leaves one breathless. This paper intends to directly address the problems faced by people in the rural areas when washing clothes by designing and fabrication a pedal powered washing machine. The machine can also be used in urban areas to save electricity and also to exercise. The machine does not require electricity or an engine but uses human power. The transfer of human energy through the use of a foot pedal and crank mechanism is what is known as Pedal power. This is the mechanism that has been used to propel bicycles. The paper designs and fabricates the pedal powered washing machine. Experiments are conducted in order to determine the optimum operating conditions

Ch. Bharadwaja Naidu,
IV Year ME

FABRICATION OF VERTICAL AXIS WIND TURBINE

To generate the electricity with the help of VAWT(vertical axis wind turbine).The VAWT is use for generate the 10 watt D.C.power & LED is turn on. A VAWT does not need to be oriented into the wind a the power transition mechanisms can be mounted at ground levels for easy axis.Or generating the power it is depend on the velocity of the wind but we assured that VAWT is generate the fixed D.C. Output which is depend on the velocity of the wind.

M.AVINASH ,

IV Year ME

FACULTY PUBLICATIONS:

- Vice Principal Dr.D.Suneel published a Journal paper entitled "Studies on Machining Characteristics and Microbiological Growth over Stir Casted A356-Graphite Metal Matrix Composites (A Comparison between Pure Metals and Composite)", in IOP Conference Series: Materials Science and Engineering, ISSN:1757-899X, Vol. 1112, PP.012004, Published online: 15th April 2021, SCOPUS Indexed Journal.
- Vice Principal Dr.D.Suneel published a Journal paper entitled "Investigations on Hardness, Machinability and Electrical Conductivity of Stir Casted A356 Nanocomposites Reinforced with SiC Nanoparticles with Ultrasonic Assisted Cavitation", in Applied Mechanics and Materials, Trans Tech Publications Ltd, Switzerland, ISSN: 1662-7482, Vol. 903, PP. 107-115, April 2021, Indexed in Index Copernicus Journals Master List, Google Scholar, EBSCOhost Research Databases etc.
- Vice Principal Dr.D.Suneel published a Journal paper entitled "An ANN Approach for Predicting the Wear Behavior of Nano SiC-Reinforced A356 MMNCs Synthesized by Ultrasonic-Assisted Cavitation" in Springer SIST (Smart Innovation, Systems and Technologies) series, ISSN 2190-3018, ISBN 978-981-33-4442-6, Vol. 213, PP.113-124, April 2021, Indexed by SCOPUS, EI Compendex, INSPEC, WTI Frankfurt eG, zbMATH,Japanese Science and Technology Agency (JST), SCImago, DBLP.
- Dr.P.Suresh babu Associate professor published a Journal paper entitled "Studies on Machining Characteristics and Microbiological Growth over Stir Casted A356-Graphite Metal Matrix Composites (A Comparison between Pure Metals and Composite)", in IOP Conference Series: Materials Science and Engineering, ISSN:1757-899X, Vol. 1112, PP.012004, Published online: 15th April 2021, SCOPUS Indexed Journal.
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Studies on Machining Characteristics and Microbiological Growth over Stir Casted A356-Graphite Metal Matrix Composites

(A Comparison between Pure Metals and Composite)

Suneel Donthamsetty[1,*] and Penugonda Suresh Babu[2]

[1]Dean (Academics) & Head of the Dept., Department of Mechanical Engineering, Narasaraopeta Engineering College (Autonomous), Narasaraopet, Guntur District, Andhra Pradesh, India, 522601. Mobile No: 91-9441895535
[*]Corresponding Author, Email id: suneeldonthamsetty@gmail.com

[2]Associate Professor, Department of Mechanical Engineering, Narasaraopeta Engineering College (Autonomous), Narasaraopet, Guntur District, Andhra Pradesh, India, 522601

Keywords: A356; Graphite; Composites; Machining; Bacterial Count

Abstract. The need of Metal Matrix Composites (MMCs) are increasing day by day due to their good properties like light weight, high strength, durability, corrosion resistance etc. In the present work A356 is taken as main base material due to its excellent mechanical properties and graphite as fortifying material because of high conductive property to form MMC. Machining is done with and without cutting oil by using automatic feed lathe machine by varying the speed and depth of cuts to find out the cutting forces, cutting tool temperatures and surface roughness and found that these values are gradually increased in many cases. Also done microbiological check and found that the colony count is gradually increased from fresh oil usage to used cutting oil after machining. These tests also done on MMCs, pure brass and pure aluminum and compared the results with MMCs. Novelty focused in present research work is regarding Microbial Organism Growth and its pattern over a period of time since these organism are cancerogenic for the operator and in health and hygiene point of view, lot of research work is going on over this organism growth on combination of several cutting fluids and materials. With the evolvement of composite materials, effect of cutting fluids on the above phenomenon is focused in present work. As a routine work, effect of cutting forces also established by changing machining parameters and presented.

Dr.D.Suneel, Professor,

Vice Principle ME Dept.

An ANN Approach for Predicting the Wear Behavior of Nano SiC-Reinforced A356 MMNCs Synthesized by Ultrasonic-Assisted Cavitation

Suneel Donthamsetty ✉ & Penugonda Suresh Babu

Conference paper | First Online: 03 April 2021

291 Accesses

Part of the Smart Innovation, Systems and Technologies book series (SIST,volume 213)

Abstract

Artificial neural networks (ANN) are a science that attempts to mimic the system of human mind in tackling issues. Many researchers have been conveyed for modeling and forecast of wear properties of metal matrix composites (MMCs) by ANN method. But this technique is not yet used for metal matrix nanocomposites (MMNCs) so far. ANN is an incredible asset to foresee properties of MMNCs, if it is properly trained. In the current work, a back propagation neural network model for assessing wear characteristics of MMNCs is proposed, in which aluminum (A356) reinforced with different weight percentages (wt.% of 0.1, 0.2, 0.3, 0.4 and 0.5) of nano-silicon carbide (SiC) MMNCs is fabricated with ultrasonic-assisted cavitation. Taken the tested results of wear characteristics using pin on disk apparatus at different loads of 30 and 40 N, which are utilized to develop and test the model. Compared to pure aluminum alloy, the wear resistance of MMNCs is increased (Donthamsetty S, Babu PS, in Int. J. Autom. Mech. Eng. 14(4):4589–4602, [1]) and able to predicting the wear within minimal error by using ANN.

Dr.P.Suresh babu,
Associate Professor

FACULTY ACHIEVEMENTS:

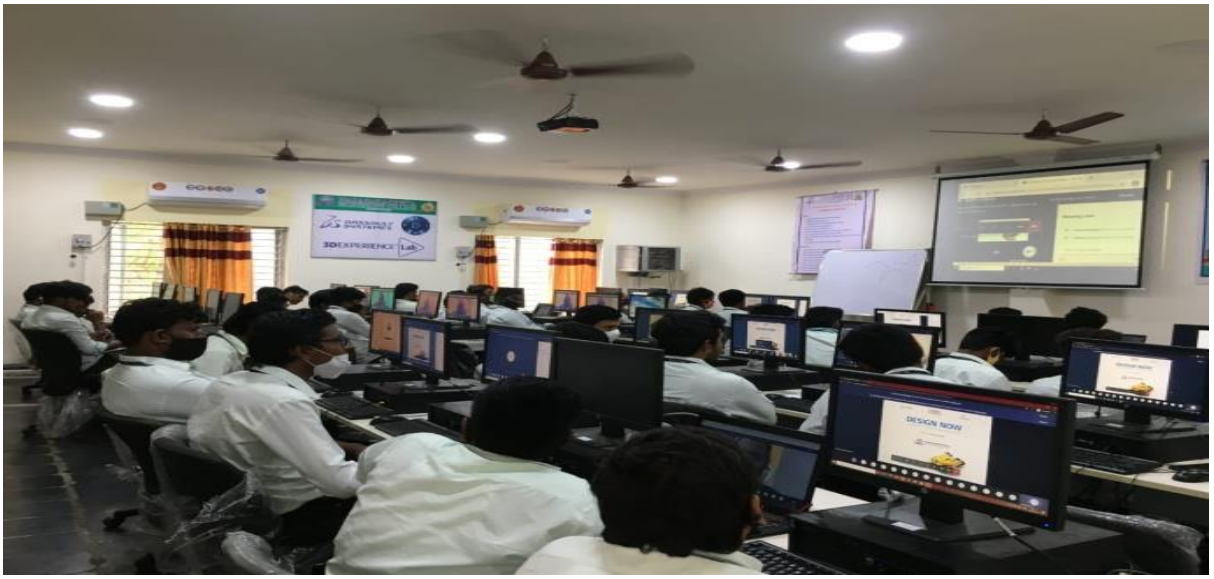
WORKSHOPS/CONFERENCES/ WEBINARS/FDPS/QUIZ/ATTENDED

- HOD Dr.B.Venkata Siva attended FDP through ICT mode on "**Material Processing & Heat Treatment",** organized by CSIR-NML, Jamshedpur during 11/01/2021 to 15/01/2021.
- HOD Dr.B.Venkata Siva attended Two day National seminar on "**Characterization Techniques of Materials**", organized by the Dept. of Physics, ANU, Guntur during 26/03/2021 to 27/03/2021.
- HOD Dr.B.Venkata siva attended International Conference on **Materials, Mechanical and Energy Engineering**", organized by BEC , Bapatla during 07/05/2021 to 08/05/2021.
- B.Rambabu Assistant professor attended the National seminar on "**Recent Advances In Materials and Challenges in Manufacturing Techniques**", organized by University College of Kakinada during 22/03/2021 to 03/04/2021.
- T.N.V.Mahesh babu Associate professor attended National seminar on "**Recent Innovations in Design & Manufacturing**", organized by Malla Reddy engineering college during 24/05/2021 to 29/05/2021.
- T.Ashok Kumar Assistant professor attended National seminar on "**Recent Innovations in Design & Manufacturing**", organized by Malla Reddy engineering college during 24/05/2021 to 29/05/2021.
- K.JohnBabu Assistant professor attended National seminar on "**IQAC & National Service scheme (YOGA)",** organized Narasaraopeta engineering college on 21/06/2021.
- M.Venkanna Babu Associate professor attended National seminar on "**India design week competition**", ICT Academy & AUTO DESK on 18/04/2021.
- M.Venkanna Babu Associate professor attended one week FDP on "**Manufacturing 4.0**", organized by NITTR Chandigarh during 19/04/2021 to 23/04/2021.

DEPARTMENT ACTIVITIES

- Department has organized a one week workshop on "**PRODUCT DESIGN AND DRAFTING BY SOLID EDGE"** from 04/01/2021 to 09/01/202 in association with APSSDC.

- Department has conducted first ever **Design Now ICT-Autodesk Fusion 360 software CAD Competition** with the help of Expert - Sri MOHAMED SHEREEF, Deputy Manager, Design Team @ ICT and Sri Badari Hiriyur, Education specialist at Autodesk at Dassaults systems Lab. Total fifty five students from third year participated in this competition from 08/01/2021 to 13/01/2021.



- Department has organized Unveiled Dr. **SARVEPALLI RADHAKRISHNAN** statue by Honorable chairman Sri Mittapalli Venkata Koteswararao garu on 09/01/2021.

- Department has organized a one week workshop on **"MECHANICAL COMPONENTS DRAFTING BY AUTOCAD",** in association with APSSDC from 18/01/2021 to 23/01/2021.

- Department has organized a two day "**MINI PROJECT REVIEW",** for final year students from 22/01/2021 to 23/01/2021.

- Department has organized "**NATIONAL VOTERS DAY PROGRAMM",** for I, II, III, & IV year students on 25/01/2021.

- Department has organized a two day workshop on "**3D Printing "**, by resource persons Dr.Santosh Kumar Malyala, Asst. Professor, Acharya Institute, Bangalore and Mr.Rakesh Koppunur, CEO, KOPP3D Innovations POC, Pvt. Ltd during 05/02/2021 to 06/02/2021.

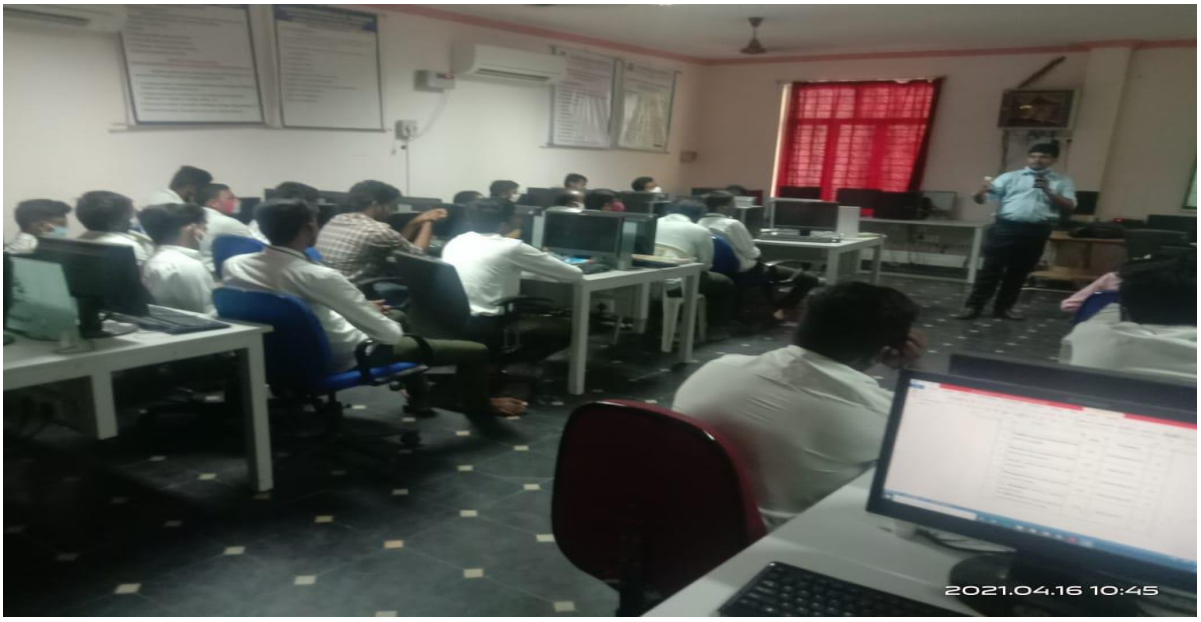
- Department has organized a two day workshop on "**MECHANICAL DESIGN SOFTWARES "**, by resource person KANCHARLA NAGU manager CANTER CADD, GUNTUR from 17/02/2021 to 18/02/2021 in association with CANTER CADD GUNTUR .

- Department has organized a guest lecture for second year students on "**MECHANICS OF SOLIDS"**, subject by resource person K.Krishna Kishore, Assistant Professor Gudlavalleru Engineering College ,Gudlavalleru on 22/02/2021.

- Department has organized a two day "**PROJECT EXPO",** for final year students on 04/03/2021.

- Department has organized a two week workshop on **"INDUSTRIAL AUTOMATION USING PLC AND PNEUMATICS",** from 29/03/2021 to 10/03/2021 in association with AGIIT, Chennai.

- Department has organized a one week workshop on "**SOLID MODELLING Using SOLID WORKS "**, by resource persons B.Gopala krishna Nayak and Venkatesh from 12/04/2021 to 17/04/2021.



INDUSTRIAL VISITS

- 45 Students from Second year A section Visited "**MITTAPALLI SPINNENRS LIMITED",** Yellamanda as a part of industrial visit on 19/01/2021.

- 45 Students from Second year B section Visited "**MITTAPALLI SPINNENRS LIMITED",** Yellamanda as a part of an industrial visit on 20/01/2021.

- 43 Students from Second year A & B sections Visited "**MITTAPALLI SPINNENRS LIMITED",** Yellamanda as a part of an industrial visit on 21/01/2021.

- Students from third year A sections Visited "**Central Institute of Petrochemicals Engineering & Technology (CIPET)",** Vijayawada as a part of an industrial visit on 27/01/2021.

- Students from third year B sections Visited "**Central Institute of Petrochemicals Engineering & Technology (CIPET)",** Vijayawada as a part of an industrial visit on 28/01/2021.

NPTEL CERTIFICATIONS

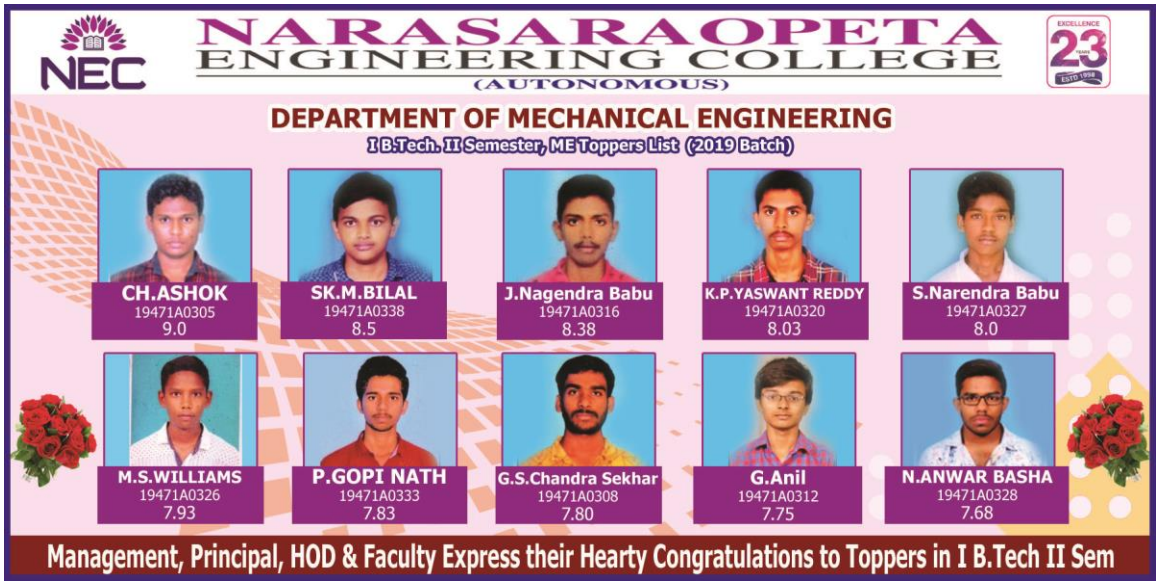
S.No	Name of the Student	Name of the Course	Type of certificate
1	MADEM JAYANTH KUMAR	Fundamentals of Manufacturing Processes	Successfully completed
2	GADIBOYINA NAGAIAH	Fundamentals of Manufacturing Processes	Successfully completed
3	KUKKAMALLA NIKHIL KUMAR	Engineering Metrology	Successfully completed
4	K PRUDHVI YASHWANTH REDDY	Problem Solving Through Programming in C	Successfully completed
5	RAJABATHULA KISHORE	Fundamentals of Manufacturing Processes	Successfully completed
6	SHAIK AMEER	Welding Application Technology	Successfully completed
7	MARRI AJAY KUMAR	Fundamentals of Manufacturing Processes	Successfully completed
8	GUDE JAYANTH KUMAR	Fundamental of Welding Science and Technology	Successfully completed
9	SHAIK SUBHANI	Fundamental of Welding Science and Technology	Successfully completed
10	VANGAVOLU NAGA SESHU	Fundamental of Welding Science and Technology	Successfully completed
11	EDEBOINA ASHOK	Fundamental of Welding Science and Technology	Successfully completed
12	Putta Rajesh	Fundamental of Welding Science and Technology	Successfully completed
13	GANTASALA GOPI CHAND	Fundamental of Welding Science and Technology	Successfully completed
14	DUPATI ANIL	Fundamental of Welding Science and Technology	Successfully completed
15	A NAGENDRABABU	Fundamental of Welding Science and Technology	Successfully completed
16	GORANTLA ANIL	Fundamental of Welding Science and Technology	Successfully completed
17	Chava Ashok	Fundamental of Welding Science and Technology	Successfully completed

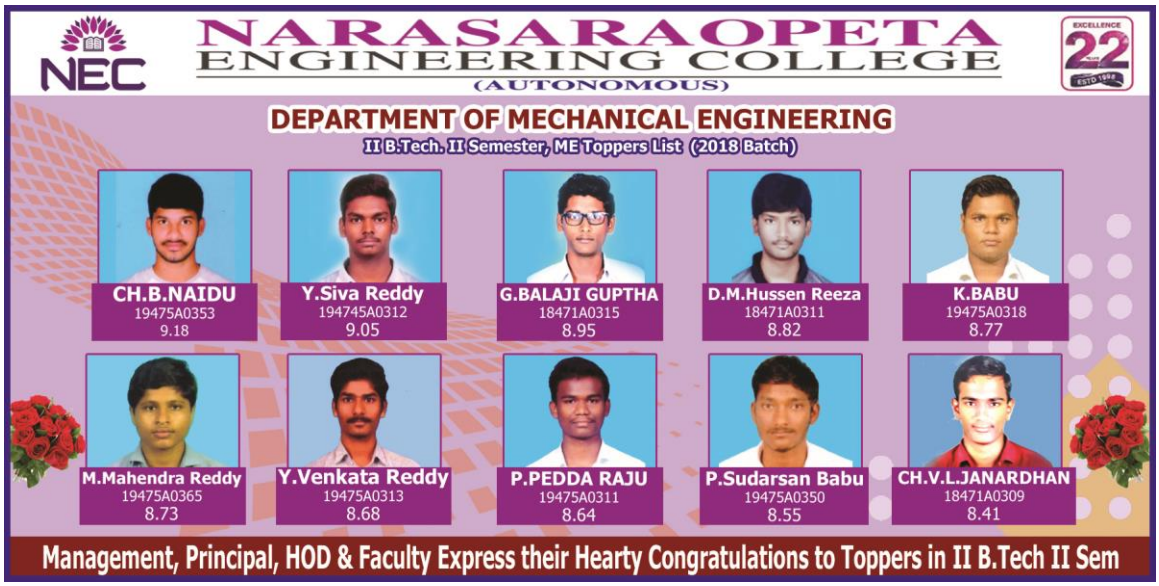
CAMPUS PLACEMENTS

38 students of Mechanical got selected in various companies listed below.

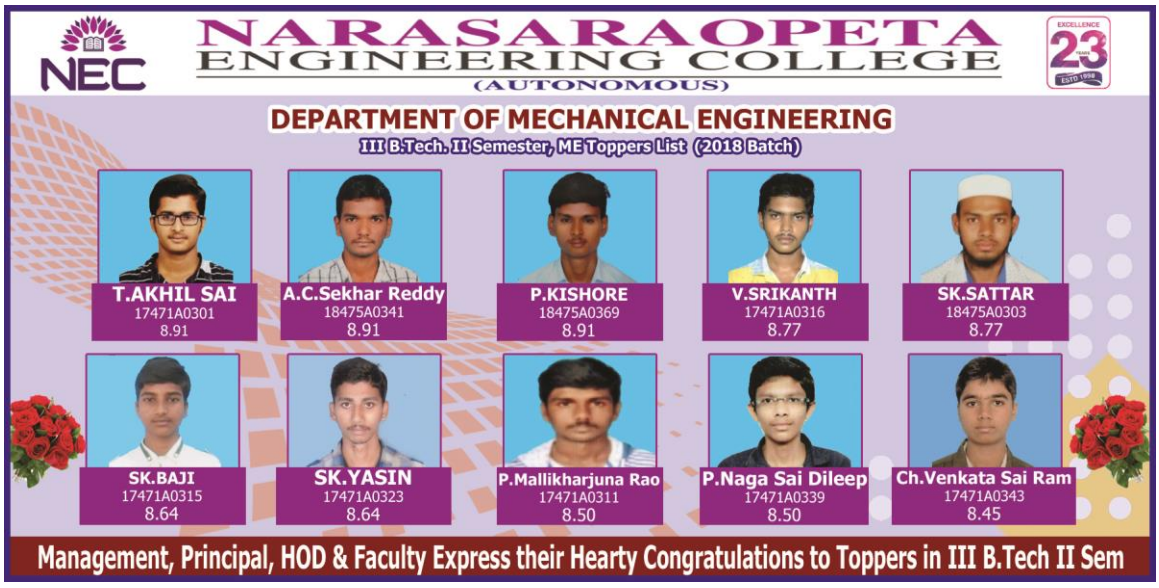
STUDENT NAME	COMPANY NAME	SALARY PACKAGE
HARI KRISHNA REDDY BHIMAVARAPU	RENAULT NISSAN	1.80 LPA
PRAVEEN KUMAR AMBATI	RENAULT NISSAN	1.80 LPA
KOTI REDDY SYAMALA	RENAULT NISSAN	1.80 LPA
CHANDU CHITTIPROLU	RENAULT NISSAN	1.80 LPA
JITHENDRA KUMAR KALLAM	RENAULT NISSAN	1.80 LPA
HOSANNA BATTULA	RENAULT NISSAN	1.80 LPA
CHAKRAVARTHI BATHULA	RENAULT NISSAN	1.80 LPA
AKBAR JANI SHAIK	RENAULT NISSAN	1.80 LPA
SRIKANTH NAIK BANAVATHU	RENAULT NISSAN	1.80 LPA
ASHOK VEMULA	RENAULT NISSAN	1.80 LPA
VIJAY SAI KUMAR BUSI	RENAULT NISSAN	1.80 LPA
KARTHEEK THIRUVEEDHULA	RENAULT NISSAN	1.80 LPA
M.VENKATESH	RENAULT NISSAN	1.80 LPA
M.HARISH	RENAULT NISSAN	1.80 LPA
K.NAGARJUNA	RENAULT NISSAN	1.80 LPA
V.TEJA	RENAULT NISSAN	1.80 LPA
B.PRAKASH	RENAULT NISSAN	1.80 LPA
SHAIK AFRIDEE	SAVANTIS	3.20 LPA
VENNAPUSALA SRIKANTH	TCS NINJA (NQT)	3.60 LPA
REDDY RAJA NAVEEN	TAFE	3.60 LPA
D.PRINCE VIJAYA KUMAR	CAPARO	3.60 LPA
CHANDRA SEKHAR REDDY AKKALA	INFOSYS	3.60 LPA
I.NAVEEN	INFOSYS	3.60 LPA
CH.GOPI KRISHNA	INFOSYS	3.60 LPA
B.MAHESH	INFOSYS	3.60 LPA

STUDENT TOPPERS

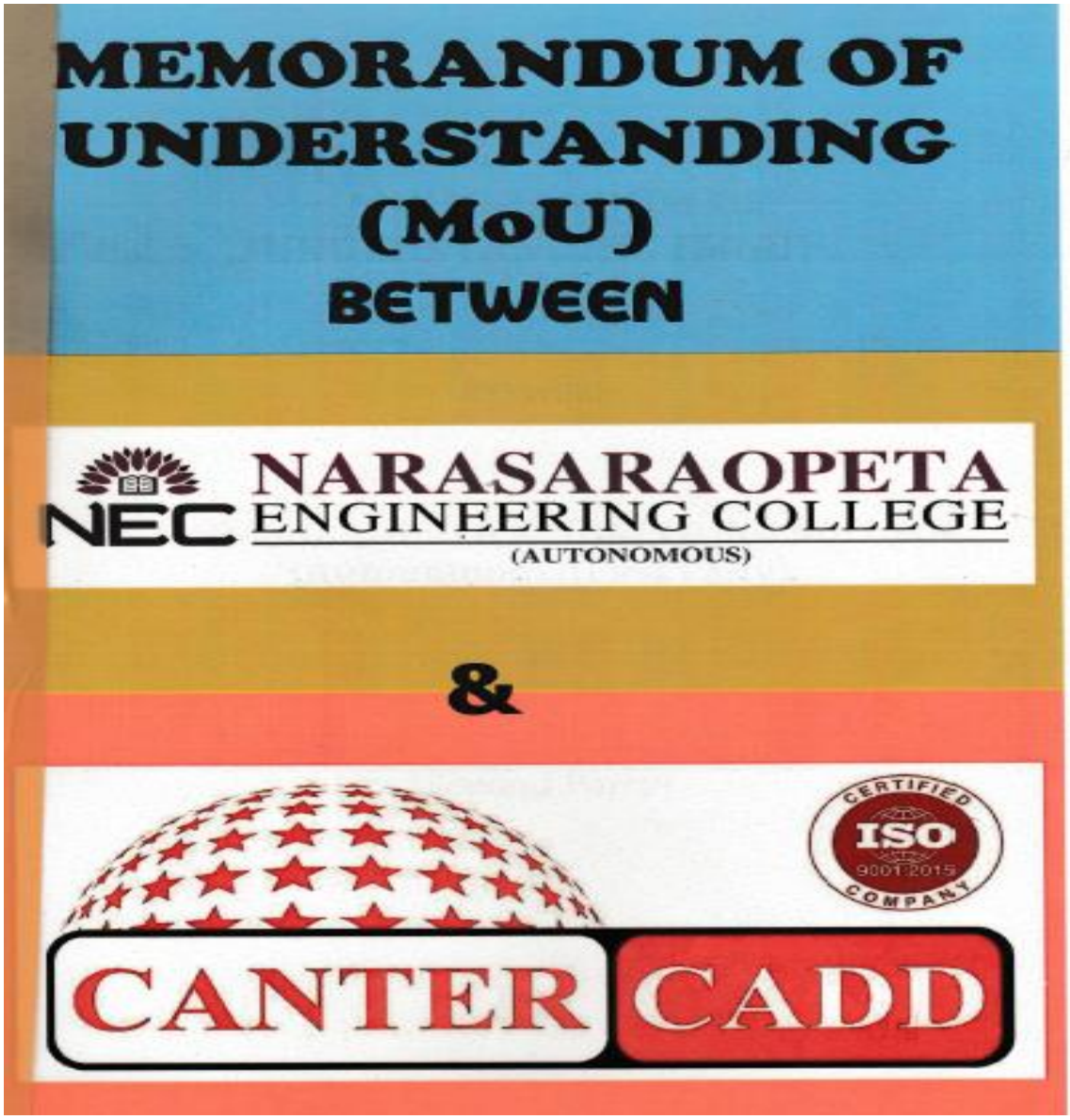




Student Toppers



MOUs



MEMORANDUM OF UNDERSTANDING (MoU)

BETWEEN

NARASARAOPETA ENGINEERING COLLEGE
(Autonomous) (First Party)

&

CANTER CADD INDIA PVT.LTD
(Second Party)

ఆంధ్రప్రదేశ్ आन्ध्र प्रदेश ANDHRA PRADESH

4928/12-02-2021 Rs.100/- Narasaraopeta Engineering College, Narasaraopet, Rep by Chairman M.V.Koteswara Rao, S/o.Venkateswarlu, Narasaraopet

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (here in after called as the 'MoU') is entered into on 17th of- February – Two Thousand Twenty One (17-02-2021),

BETWEEN

GAYATRI EDUCATIONAL DEVELOPMENT SOCIETY an Educational Society, having its office at Narasaraopet, Guntur District, Andhra Pradesh, the First Party represented herein by its **Principal Dr. M.SREENIVASA KUMAR, NARASARAOPETA ENGINEERING COLLEGE(Autonomous), Kotappakonda Road, Narasaraopet, Guntur, Andhra Pradesh 522601.** (herein after referred as **'First Party'**, the institution which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

AND

CANTER CADD, 2nd Floor 4/1, Arundelpet , Swarnalok Complex , Guntur, Andhra Pradesh 522002, the Second Party, and represented herein by its **Center Manager, KANCHERLA NAGU.** (herein after referred to as **"Second Party"**, company which expression, unless excluded by or repugnant to the subject or context shall include its successors – in-office, administrators and assigns).

1

Principal
NARASARAOPETA ENGINEERING
COLLEGE(Autonomous),
Kotappakonda Road,
Narasaraopet, Guntur (Dist) ,
Andhra Pradesh 522601.

Authorized Signatory

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

Center Manager
CANTER CADD
2nd Floor 4/1,
Arundelpet,
Swarnalok Complex, Guntur
Andhra Pradesh 522002.

Authorized Signatory

Name of Institution	**Name of Industry**
NARASARAOPETA ENGINEERING COLLEGE (Autonomous), Kotappakonda Road, Narasaraopet, Guntur, Andhra Pradesh 522601.	CANTER CADD, 2nd Floor 4/1, Arundelpet, Swarnalok Complex, Guntur. Andhra Pradesh 522002.
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www.nrtec.in	www.cantercadd.com

Witness 1 :

VICE PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601.
Guntur (Dist.), A.P.

Dr.D.Suneel,
Vice Principal,
NARASARAOPETA ENGINEERING
COLLEGE(Autonomous),
Narasaraopet – 522 601.
Guntur (Dist.), A.P.

Witness 2 :

Sk.Hussain Vali,
Mechanical Facilitator,
CANTER CADD,
2nd Floor 4/1, Arundelpet,
Swarnalok Complex, Guntur.
Andhra Pradesh 522002.

COURSES

UG-B.TECH

Civil Engineering
Electrical & Electronics Engineering
Mechanical Engineering
Electronics & Communication Engineering
Computer Science and Engineering
Information Technology
CSE (Artificial Intelligence)

PG-M.TECH

Computer Science and Engineering
Digital Systems and Computer Electronics
Digital Electronics and Communication Systems
Power and Industrial Drives
Thermal Engineering
Machine Design
Structural Engineering

PG: MBA, MCA

Master of Business Administration (Dual Specialization)
Master of Computer Applications (Two Years Programme)

NEC

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

Kotappakonda Road, NARASARAOPET - 522 601,
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