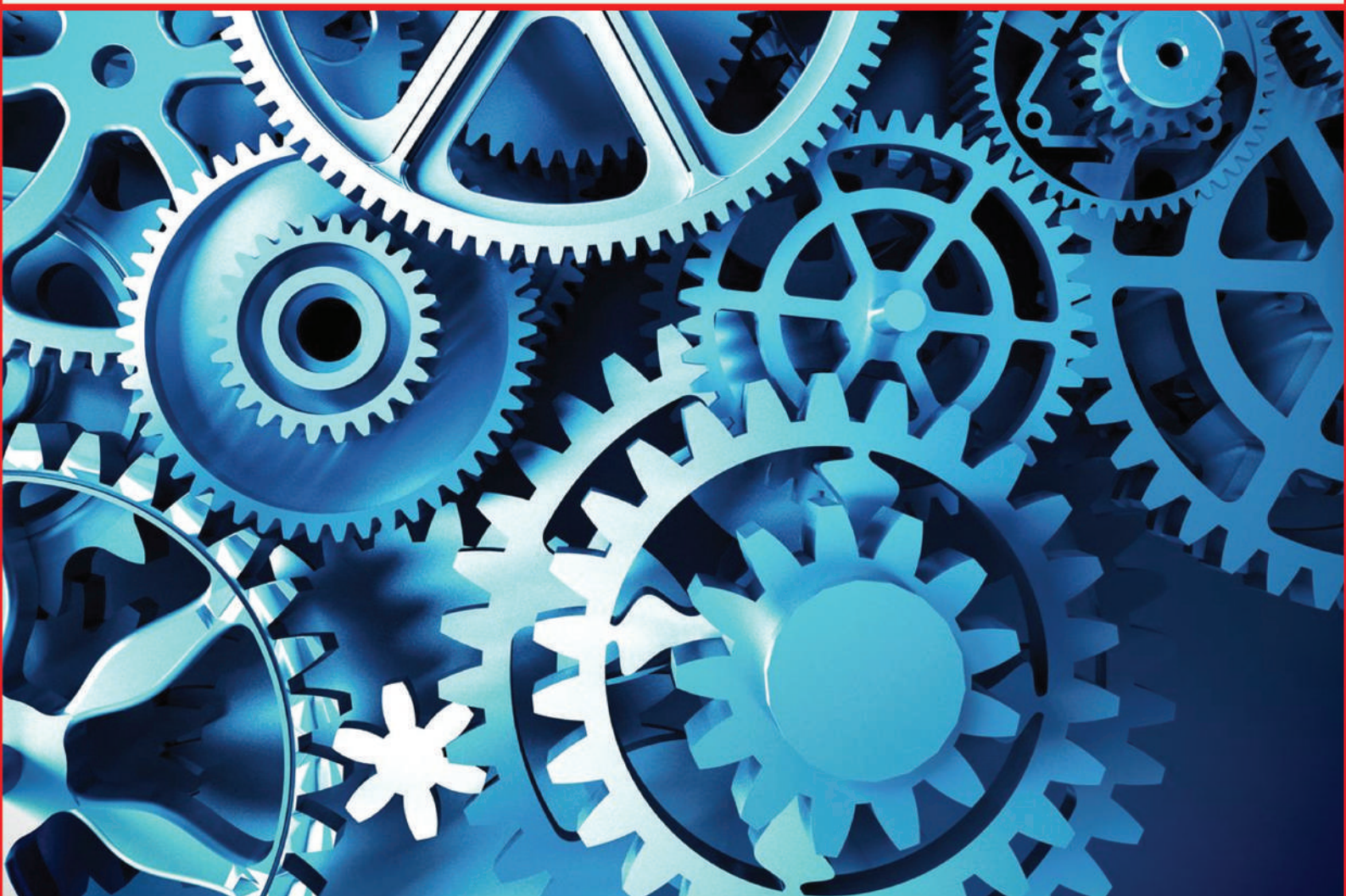


TECHNICAL MAGAZINE

MECH MANTRA



JANUARY TO JUNE 2019
VOLUME : 07

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MECHANICAL ENGINEERING

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MESSAGES



Chairman's message

It gives me great happiness to note that the Department of Mechanical Engineering, NEC is bringing out the volume -07 of the Department technical magazine, "Mech Mantra". From the first edition, I understand that this 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-07 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-07 of our department association magazine. I would like to place my sincere and heartfelt thanks to all those who have contributed to make this effort a success. My special thanks to the Management, for their guidance which enabled us to bring out this volume-07.

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 support in bringing out the magazine in the present form.

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SELF SUPPORTING VERTICAL LADDER

This mini project introduces a vertical ladder climbing of the humans only by the posture control without any external sensors. The humans have not any special structure for fixing the body to the ladder. The body on the ladder by its grippers like human does.

As a problem of this locomotion, a free gripper position of the climbing human is not controllable because a yawing of the human body around the axis connecting a supporting gripper and foot on the ladder is not fixed.

To solve this problem, the momentum around AOY caused by the gravity is used to control the yaw motion of the body so that the various gait such as pace gait and trot gait could be realized in a ladder climbing maneuver.



Ganta Kireeti

IVYear ME

FABRICATION OF MULTI PURPOSE WHEEL CHAIR

Multi-Purpose Wheelchair (MPW) is an independent patient mobility for indoor and outdoor tasks, such as moving to and placing on bed, and self-lift assistance through electrical control. Currently, patients and attendees facing a problem to be shifting from a wheelchair to vehicles or bed. This research project started with literature review and market survey, and customer satisfaction through questionnaires. The survey was conducted in various places and different respondents. MPW can be operated manually. It was designed in three main functions: the positioning control for sitting state and lying state was considered for this project. The motivation of the Multi-Purpose Wheelchair to reduce injury according to lack of patient handling.



Pakanati Venkata Narapa Reddy
IV Year ME

FABRICATION OF GREEN COCONUT CUTTING MACHINE

This experimental work includes the study of problems that were faced during the cutting of green coconut in commercial purpose. By studying such problem the need of efficient coconut cutting machine was developed. If the developed machine is commercialize the problem of use of coconut water at hotels and restaurants will get benefited. The purpose of this experiment is to develop, test, and evaluate the green coconut cutting machine.



Thota Venkatesh
III Year ME

AUTOMATIC HAND WASH WITH SOAP SOLUTION

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. 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.. 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



**Budide Sundar Raju,
II Year ME**

FACULTY PUBLICATIONS:

- Dr.B.Venkata siva , professor published a Journal paper entitled **“Aluminium metal matrix composites reinforced with waste colliery shale: A potential material for wear-resistant applications”**, **Indian Foundry Journal**, Vol. 65, Issue 1, January 2019, pp. 21-29.

- Dr.B.Venkata siva, professor published a Journal paper entitled **“Tribological studies of Al-based metal matrix composite reinforced with Al-20Cu-10Mg ternary alloy using Taguchi technique”**, **Int.J.Materials Engineering Innovation**, 2019, Vol. 9, No.2, pp. 94-114. Inderscience Publishers-Scopus indexed-SNIP-.326, Cite Score-.36.

- Dr.B.Venkatasiva, professor published a Journal paper entitled **“Experimental Studies of Mechanical Properties and Tribological Behaviour of Aluminium Composite Reinforced With Coconut Shell Ash Particulates”**, **Int. J. Materials Engineering Innovation**, 2019, Vol. 9, No.2, pp. 140-157. Inderscience Publishers-Scopus indexed-SNIP-.326, Cite Score-.36.

Preparation of Aluminum Metal Matrix Composite with Novel *In situ* Ceramic Composite Particulates, Developed from Waste Colliery Shale Material

S.B. VENKATA SIVA, K.L. SAHOO, R.I. GANGULY, R.R. DASH, S.K. SINGH, B.K. SATPATHY, and G. SRINIVASARAO

A novel method is adapted to prepare an *in situ* ceramic composite from waste colliery shale (CS) material. Heat treatment of the shale material, in a plasma reactor and/or in a high temperature furnace at 1673 K (1400 °C) under high vacuum (10^{-6} Torr), has enabled *in situ* conversion of SiO_2 to SiC in the vicinity of carbon and Al_2O_3 present in the shale material. The composite has the chemical constituents, SiC- Al_2O_3 -C, as established by XRD/EDX analysis. Particle sizes of the composite range between 50 nm and 200 μm . The shape of the particles vary, presumably rod to spherical shape, distributed preferably in the region of grain boundaries. The CS composite so produced is added to aluminum melt to produce Al-CS composite (12 vol. pct). For comparison of properties, the aluminum metal matrix composite (AMCs) is made with Al_2O_3 particulates (15 vol. pct) with size <200 μm . The heat-treated Al-CS composite has shown better mechanical properties compared to the Al- Al_2O_3 composite. The ductility and toughness of the Al-CS composite are greater than that of the Al- Al_2O_3 composite. Fractographs revealed fine sheared dimples in the Al-CS composite, whereas the same of the Al- Al_2O_3 composite showed an appearance of cleavage-type facets. Abrasion and frictional behavior of both the composites have been compared. The findings lead to the conclusion that the *in situ* composite developed from the colliery shale waste material has a good future for its use in AMCs.

DOI: 10.1007/s11663-013-9832-x

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I. INTRODUCTION

The use of aluminum metal matrix composites (AMCs) has steadily increased since last two decades.^[1-3] The enhanced properties of the metal matrix composite is attributed to the ability of a light metal such as aluminum to blend with high strength and high modulus ceramic particles.^[4,5] The strengthening mechanism for the composite is due to dispersion hardening as explained in Orowan's model.^[6] Shi and Arsenault^[7,8] analyzed various contributing factors for strengthening. However, mechanical properties largely depend on the chemical constituents of the particles, their size, shape, and distribution in the matrix. Poor toughness in the materials due to incompatibility between the matrix and particulates

has also been observed by various workers.^[9-14] The interrelationship among all these in respect to property development has been emphasized by many workers.^[13,14] The objective of development of such materials is of interest, particularly due to the replacement of the number of iron base alloys in the automobile industry, thereby increasing the fuel efficiency by the reduction of the weight.^[15,16] Presently, these composites are produced by the addition of SiC/ Al_2O_3 particulates into molten aluminum or its alloys to make it cost effective.^[17-19] However, it is observed that while preparing the composite through melting routes, there is a loss of costly particulates due to poor wettability of particulates in the melt and the density difference between the particulates and the matrix, making the product even costlier.^[20,21] Thus, cost plays a key role outweighing the weight saving

Dr.B.Venkata siva , professor,
ME Dept.

Tribological studies of Al-based metal matrix composite reinforced with Al-20Cu-10Mg ternary alloy using Taguchi technique

K. Krishna Kishore and B. Venkata Siva*

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Jinugu Babu Rao and N.R.M.R. Bhargava

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Abstract: This study has been made to explore the correlation between sliding speed, sliding distance, load and their joint effect on dry sliding wear of aluminium and Al- (Al-20Cu-10Mg) composites with weight fraction of 5% and 10% using Taguchi technique. S/N ratio analysis revealed that the composite with 10% reinforcement has shown better wear resistance i.e., mean wear of 0.697 grams compared to Al and composite with 5% reinforcement. From the ANOVA analysis it is observed that load has major effect on coefficient of friction i.e., 82.3%, 66.7% and 51.93% for aluminium, Al-5% ternary alloy, and Al-10% ternary alloy composite respectively. Sliding speed has major effect on weight loss i.e., 61.02%, 58.12% and 56.17% for aluminium, Al-5% ternary alloy and Al-10% ternary alloy. From the regression equations it is found that effect of speed on coefficient of friction is seven times for aluminium, 13 times for Al-5% ternary alloy and 17 times for Al-10% ternary alloy composites if compared with the other two variables. Similarly effect of speed on weight loss is around 27 times for aluminium, Al-5% ternary alloy, and Al-10% ternary alloy composites if compared with the other two variables. The incorporation of Al-20Cu-10Mg as reinforcement material in aluminium matrix material has improved the wear resistance.

Keywords: aluminium metal matrix composite; AMC; wear; orthogonal array; ANOVA; Taguchi method; Al-20Cu-10Mg ternary alloy; signal to noise ratio; sliding speed; load and sliding distance.

**Dr.B.Venkata siva , professor,
ME Dept.**

FACULTY ACHIEVEMENTS:**WORKSHOPS/CONFERENCES/ WEBINARS/FDPS/QUIZ/ATTENDED**

- Dr.M.Sreenivasa kumar, Professor Principal, and Dr.D.Suneel, Professor HOD-ME were present at AP Secretariat, AMARAVATI on 01-03-2019 to take part in MOA (tripartite agreement) signing ceremony with APSSDC and European Center for Mechatronic, as a partner institution in the APSSDC – ECM Convergence Centers “**Indo-European Skilling Centers for Microelectronics and Industrial Robotis**”, The tripartite agreement between ECM, APSSDC, and NEC has been signed in the presence of Sri. J S V Prasad, IAS, Special Chief Secretary, Govt. of Andhra Pradesh.



- Dr.B.Venkatasiva, professor has Attended a short term course on “**Problem based Learning**”, 11-02-2019 to 15-02-2019, organized by department of CSE, NEC, in association with NITTTR, Kolkata, at NEC, Narsaraopet.
- Dr.B.Venkatasiva, professor has Attended in Two day national seminar on “**Emerging Materials for Green Environment (EMGE-2K19)**”, 05/03/2019 to 06/03/2019, Andhra Loyola College, Vijayawada, Andhra Pradesh.
- Dr.D.Suneel, Professor HOD-ME, has attended One day Workshop on “**Moodle Learning Management Systems**”, organized by department of CSE, NEC on 15/03/2019.

- P.Rajanna Assistant professor has attended One day Workshop on “**Moodle Learning Management Systems**”, organized by department of CSE, NEC on 15/03/2019.
- S.Sivanjaneyulu Assistant professor has attended One day Workshop on “**Moodle Learning Management Systems**”, organized by department of CSE, NEC on 15/03/2019.
- K.John Babu Assistant professor has attended One day Workshop on “**Moodle Learning Management Systems**”, organized by department of CSE, NEC on 15/03/2019.
- K.Sadhana Assistant professor has attended One day Workshop on “**Moodle Learning Management Systems**”, organized by department of CSE, NEC on 15/03/2019.
- Mrs.T.Venkata Deepthi Associate professor has attended Faculty Development Program on “**Artificial Intelligence, Machine Learning and Block Chain Technology in Production and Supply chain**”, at NIT Warangal from 25/04/2019 to 30/04/2019.
- Dr.B.Venkata siva ,professor has participated International conference on “**Quantitative analysis of tribological performance on Al-CSA composite using orthogonal array**”, published in the proceedings of 1st International conference on applied Mechanical Engineering Research, ICAMER-2019, 02/05/2019 to 04/05/2019, NIT Warangal, Warangal.
- P.Srinivasarao, Assistant professor from department has attended three days workshop on “**AICTE Induction Program**”, Audisankara College of Engineering & Technology, Gudur, Nellore district.
- Mrs.T.Venkata Deepthi, Associate professor has attended One day Workshop on “**Python**”, organized by department of ECE, NEC on 22/06/2019.
- K.Ayyapaswamy, Assistant professor has attended One day Workshop on “**Python**”, organized by department of ECE, NEC on 22/06/2019.
- R.Ravindranath, Assistant professor has attended One day Workshop on “**Python**”, organized by department of ECE, NEC on 22/06/2019.
- B.Saida Rao, Assistant professor from department got Full time Ph.d admission in VIT Amaravathi Guntur .
- Ch.Sekhar, Associate professor from department got Part time Ph.d admission in Vignan University Guntur.
- J.Pavanu sai Assistant professor from department got Full time Ph.d admission in Vignan University Guntur.
- Dr.D.Suneel, Dean (Acad.) & Head of Mech .Engg completed Surface Engineering of “**Nanomaterials**”, NPTEL online certification with 69% score.

- K.John Babu Assistant professor from Mech department completed “**Basics of Finite Element**”, NPTEL online certification with 67% score.
- M.Venkaiah Assistant professor from department completed “**Advanced Manufacturing process**”, NPTEL online certification with 60% score.
- P.Srinivasarao Assistant professor from department completed “**I.C Engines and Gas Turbines**”, NPTEL online certification with 63% score.
- Dr.B.Venkata siva professor from department completed “**Advanced Manufacturing process**”, NPTEL online certification with 75% score.
- Ch.Sekhar, Associate professor from department completed “**Kinematics of Mechanisms and Machines**”, NPTEL online certification with 52% score.
- N.Siva Nagaraju, Assistant professor from Mech department completed “**Basics of Finite Element**”, NPTEL online certification with 81% score.

DEPARTMENT ACTIVITIES

- Department has Organized a Three day short term course (Training program through ICT) on “**INDUSTRY 4.0 STANDARD**”, in association with NITTTR – Chandigarh during 23/01/2019 to 25/01/2019.



- Department has organized a Five day short term course on “**GREEN MANUFACTURING**”, in association with NITTTR –Chandigarh during 11/02/2019 to 15/02/2019.



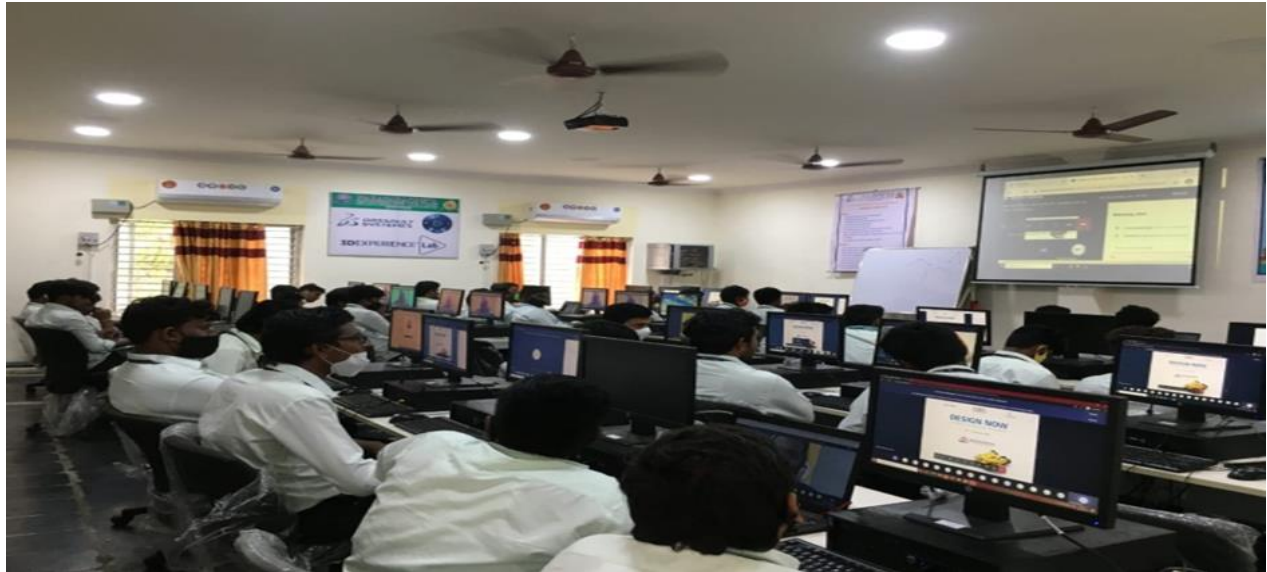
- Department has organized a Five day short term course on **“RECENT TRENDS IN AUTOMOBILE TECHNOLOGY”**, in association with NITTTR –Chandigarh during 25 /02/2019 to 01/03/2019.



- Department has organized a Five day short term course on **“CAD Using SOLIDWORKS”**, in association with NITTTR –Chandigarh during 11 /03/2019 to 15/03/2019.



- Department has organized a Two day workshop for second & third Year students on “**AERO MODELLING**”, in association with RC WING-ODISHA during 21/01/2019 to 22/01/2019.



- Department has organized a Four day workshop for final year students on “**PROGRAMMING & FABRICATION OF ROBOTS**”, by Skyfi Labs Bangalore during 11/02/2019 to 14/02/2019.



- Department has organized a One week workshop for Final year students on “**LEAN MANUFACTURING**”, by Dr.J.V.L.Venkatesh Retired Professor from SGGS Institute of Engineering and Technology ,Nanded during 11/02/2019 to 16/02/2019.



- Department has organized a Ten day workshop for Second and Third year students on “**DESIGN AND FABRICATION OF THERMAL SYSTEMS**”, by Action Engineers Pvt.Ltd ,Hyderabad from 11/02/2019 to 20/02/2019.



- Department has organized a Four day workshop for Second and Third year students on “**Non Destructive Testing Methods (With Case studies)**”, by BITS Vizag Pvt.Ltd during 13/02/2019 to 16/02/2019.



- Students of second year A section visited Thermal Power Station (VTPS) Vijayawada as a part of industrial visit on 07/01/2019.



INDUSTRIAL VISITS

- Students of second year B section visited “**VIJAYAWADA THERMAL POWER STATION (VTPS)**”, Vijayawada as a part of industrial visit on 08/01/2019.



- Students of second year C section visited “**VIJAYAWADA THERMAL POWER STATION (VTPS)**”, Vijayawada as a part of industrial visit on 09/01/2019.



- Students of third year A section visited “**VIJAYAWDA THERMAL POWER STATION (VTPS)**”, Vijayawada as a part of industrial visit on 09/01/2019.



- Students of third year B section visited “**VIJAYAWDA THERMAL POWER STATION (VTPS)**”, Vijayawada as a part of Industrial visit on 10/01/2019.



- Students of second year A section visited “**JOCIL PVT LIMITED**”, Dokiparru Guntur as a part of Industrial visit on 22/01/2019.



- Students of second year B section visited “**JOCIL PVT LIMITED**”, Dokiparru Guntur as a part of Industrial visit on 23/01/2019.



- Students of second year C section visited “**JOCIL PVT LIMITED**”, Dokiparru Guntur as a part of Industrial visit on 29/01/2019.



- Students from Mechanical Second and third year participated in “**Bharat Formula Karting CAD Technologies**”, at Coimbatore, Tamilnadu from 28/02/2019 to 03/03/2019.



STUDENT PARTICIPATIONS/ CERTIFICATIONS

- Students from Mechanical Second year participated in Technical Quiz at Sri Chundi Ranganayakulu Engineering college, from 12/02/2019 to 13/02/2019.
- Students from Mechanical Second year participated and won first prize in **kabaddi** game at Pace Inst of Tech & Science, Ongole from 12/02/2019 to 13/02/2019.
- Six students from Mechanical Second year participated in **Project expo** at V R Siddhartha Engineering College from 15/02/2019 to 16/02/2019.
- Four students from Mechanical Second year participated in **Technical quiz** Bapatla Engineering College from 15/02/2019 to 16/02/2019.
- Two students from Mechanical Second year participated and got first prize in **Assembly & Disassembly of IC Engine** at Bapatla Engineering College during 15/02/2019 to 16/02/2019.
- Two students from Mechanical Second year participated in **CAD Workshop** at Sri Mittapalli College of Engineering from 15/02/2019 to 16/02/2019.
- Students from Mechanical Second year participated and won second prize in volley ball game at Chalapathi Institute of Engineering & Technology on 16/02/2019 .
- Students from Mechanical Second year participated and won second prize in kabaddi game at Sri Mittapalli College of Engineering on 16/02/2019.

CAMPUS PLACEMENTS

59 Students of Mechanical got selected in various companies listed below.

S.NO	ROLL NUMBER	NAME	COMPANY	PACKAGE(LPA)
1	15471A0381	MANDULA SANJAY KUMAR	ZENUS GROUP	1.56-1.8
2	15471A0304	CH.BASAVANJANEYULU	WICKEDRIDE	1.8
3	15471A0305	B.SRIKANTH	WICKEDRIDE	1.8
4	15471A0312	T.S.M.YASWANTH	WICKEDRIDE	1.8
5	15471A0330	P.ASHOK	WICKEDRIDE	1.8
6	15471A0332	Y.MANIKANTA	WICKEDRIDE	1.8
7	15471A0339	B.AVINASH	WICKEDRIDE	1.8
8	15471A0342	M.KRANTHI KIRAN	WICKEDRIDE	1.8
9	15471A0348	CHAGANTI RAMAIAH	WICKEDRIDE	1.8
10	15471A0349	MD.KHAJA MOHIDDIN	WICKEDRIDE	1.8
11	15471A0350	SHAIK BABULUKHAJAVALI	WICKEDRIDE	1.8
12	15471A0352	CH.HARISH BABU	WICKEDRIDE	1.8
13	15471A0357	T.PAVAN KUMAR	WICKED RIDE	1.8
14	15471A0366	AVULA VENKATAPPAIAH	WICKEDRIDE	1.8
15	15471A0373	N.RAJESH	WICKEDRIDE	1.8
16	15471A03D1	I.PREM KUMAR	WICKEDRIDE	1.8
17	15471A03E9	A. SAI KUMAR	WICKEDRIDE	1.8
18	15471A03F0	M.ANIL KUMAR	WICKEDRIDE	1.8
19	16475A0337	SHAIK AMEER BASHA	WICKEDRIDE	1.8
20	15471A0385	SHAIK BUDAN SATTAR	TECHMAHINDRA BPO	2.7
21	15471A03B4	SHAIK ABBAS	TECHMAHINDRA BPO	2.7

S.NO	ROLL NUMBER	NAME	COMPANY	PACKAGE(LPA)
22	16475A0302	SHAIK ABDUL MOBEEN	TECHMAHINDRA BPO	2.7
23	15471A0303	VASANTH SAIDULU DUDEKULA	SURYA TECH	1.8-2.4
24	15471A0335	KONKAYALA V THIRUMALA REDDY	SURYA TECH	1.8-2.4
25	15471A0341	DAMMAVALAM M NI NAVEEN	SURYA TECH	1.8-2.4
26	15471A0345	MORRAMSETTY RAMANJANEYULU	SURYA TECH	1.8-2.4
27	15471A0363	SATULURI TARUN SAI KUMAR	SURYA TECH	1.8-2.4
28	15471A0380	VEMULA SAI KUMAR	SURYA TECH	1.8-2.4
22	16475A0302	SHAIK ABDUL MOBEEN	TECHMAHINDRA BPO	2.7
23	15471A0303	VASANTH SAIDULU DUDEKULA	SURYA TECH	1.8-2.4
24	15471A0335	KONKAYALA V THIRUMALA REDDY	SURYA TECH	1.8-2.4
25	15471A0341	DAMMAVALAM M NI NAVEEN	SURYA TECH	1.8-2.4
26	15471A0345	MORRAMSETTY RAMANJANEYULU	SURYA TECH	1.8-2.4
27	15471A0363	SATULURI TARUN SAI KUMAR	SURYA TECH	1.8-2.4
28	15471A0380	VEMULA SAI KUMAR	SURYA TECH	1.8-2.4
29	16475A0307	AMBATI VENKATA GOPI RAJU	SURYA TECH	1.8-2.4
30	16475A0308	BHADRACHALAM SREE CHARAN	SURYA TECH	1.8-2.4
31	16475A0315	PARUCHURI NAGARJUNA	SURYA TECH	1.8-2.4
32	16475A0321	RUDRU VENKATESH	SURYA TECH	1.8-2.32
33	16475A0328	SHAIK RAFI AHAMMEI	SURYA TECH	1.8-2.4
34	16475A0330	MALAPATI TIRUPATHIRAO	SURYA TECH	1.8-2.4
35	16475A0332	CHENNAMSETTY GOPINADH	SURYA TECH	1.8-2.4
36	16475A0341	MUJAVAR SUBHANI	SURYA TECH	1.8-2.4
37	16475A0344	BAYYA SRIKANTH	SURYA TECH	1.8-2.4
38	15471A0315	GUDA KAUSHIK	SUPER AUTO FORGE PVT LTD	1.44
39	15471A0368	PASUPULETI PARDHASARADHI	SUPER AUTO FORGE PVT LTD	1.44
40	15471A0388	ADAPA ADITYA SAI	SUPER AUTO FORGE PVT LTD	1.44

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42	15471A03A0	ANNADASU MANIKANTA	SUPER AUTO FORGE PVT LTD	1.44
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44	15471A03A7	CHATTALA BHARGAVA RAMUDU	SUPER AUTO FORGE PVT LTD	1.44
45	15471A03B2	PATHRI GOPIKRISHNA	SUPER AUTO FORGE PVT LTD	1.44
46	15471A03F1	NADIKATTU S NAGESWARA REDDY	SUPER AUTO FORGE PVT LTD	1.44
47	15471A03F4	CHIPPALA DINESH	SUPER AUTO FORGE PVT LTD	1.44
48	15471A03G0	UPPALA NARESH BABU	SUPER AUTO FORGE PVT LTD	1.44
49	15471A03G5	KANALA VENKATESWARLU	SUPER AUTO FORGE PVT LTD	1.44
50	16475A0301	VANGIPURAPU SAITEJA	SUPER AUTO FORGE PVT LTD	1.44
51	16475A0310	BAIREDDY AYYAPPA REDDY	SUPER AUTO FORGE PVT LTD	1.44
52	16475A0311	KONIKI VENKATESH	SUPER AUTO FORGE PVT LTD	1.44
53	16475A0320	KAVURI NARESH	SUPER AUTO FORGE PVT LTD	1.44
54	16475A0323	MADDU SARATH BABU	SUPER AUTO FORGE PVT LTD	1.44
55	16475A0326	KUNCHALA SRIDHAR	SUPER AUTO FORGE PVT LTD	1.44
56	16475A0331	DESAMSETTY V L SIVA KISHORE	SUPER AUTO FORGE PVT LTD	1.44

			LTD	
57	16475A0333	SHAIK SALEEM	SUPER AUTO FORGE PVT LTD	1.44
58	16475A0338	BELLAPU NAIDU	SUPER AUTO FORGE PVT LTD	1.44
59	16475A0339	CHANDRAGIRI SAICHARAN	SUPER AUTO FORGE PVT LTD	1.44

STUDENT TOPPERS



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**G.Balaji Guptha
Sekhar Reddy**

18471A0315

8.79 SGPA

A.Chandra

18475A0341

9.61_SGPA



Sekhara Reddy

M.Jayakrishna

16471A0365

8.64 SGPA

G.Chandra

15471A03F7

87%

MOUs

**MEMORANDUM OF
UNDERSTANDING (MOU)**

BETWEEN

NARASARAOPETA ENGINEERING COLLEGE

&

MITTAPALLI SPINNERS LIMITED

MEMORANDUM OF UNDERSTANDING

This **Memorandum of Understanding** (hereinafter called as the 'MOU') is entered into on this the 01-02-2019.

BETWEEN

Narasaraopeta Engineering College, Kotappakonda Road, Yellamanda P.O, Narasaraopet - 522601, Guntur (Dist) represented herein by its **Dr.M.Sreenivasa Kumar** (hereinafter 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).

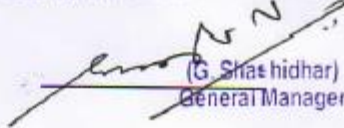
AGREED:

For Narasaraopeta Engineering College

For Mittapalli Spinners Limited


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

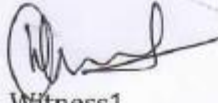
For MITTAPALLI SPINNERS LIMITED


(G. Shashidhar)
General Manager

Authorized Signatory



Narasaraopeta Engineering College	Mittapalli Spinners Limited
Kotappakonda Road, Yellamand P.O, Narasaraopet - 522601, Guntur (Dist)	Mittapalli Spinners Limited, Chinaturakapalem(V),Narasaraopet(M), Guntur(DT),Andhra Pradesh ,PIN- 522601
Cell no: 9441895535	Cell no: 9581442701
E-mail: mechhod@nrtec.ac.in	E-mails: mittapallispinners@gmail.com.com
Web: nrtec.ac.in	Web: www.mittapallispinners.com


Witness1

(Dr. D.Suneel)


Witness2

(Dr.P.Lakshmanan)



ఆంధ్ర ప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

3501 Dt: 7/2/19 Rs: 100/-

To Sri: K. Channakya, St. K. Venkata Ratnam, VJF

Whom: Andhra Pradesh State Skill Development Corporation
Tadepalli, Guntur District.

CH 865737

Name: K.L. PADMAVAT
LICENSED STAMP VENDOR
L.No: 06-14-008/2007
R.L.No: 03-14-002/2017
Address: #1-82, CHINAVUTUPU
GANNAVARAM Mandal
Phone No: 99127 40569

MEMORANDUM OF AGREEMENT

This Memorandum of Agreement (MoA) is entered into on 7th day of February 2019

Andhra Pradesh State Skill Development Corporation, a Government Company registered under the Companies Act, 2013 having its Corporate Office at G&J Infra Building, 3rd Floor, D No.78/2, Near NH-5, Near Pathuru Road, Tadepalli, Guntur District, Andhra Pradesh represented by Executive Director-I (hereinafter referred to as "APSSDC" or First Party, which expression shall unless repugnant to this context or meaning thereof, includes its successor in office, legal representatives and permitted assigns) of the FIRST PART.

And

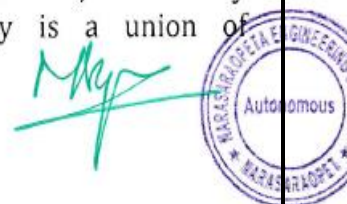
European Center for Mechatronics APS GmbH Aachen, having its principal address at Vaalserstrasse 460, 52072 Aachen, Germany (hereinafter referred to as "ECM", which expression shall unless repugnant to the meaning thereof, mean and include its successors and permitted assigns) of the SECOND PART.



MEMORANDUM OF AGREEMENT
BETWEEN
ANDHRA PRADESH STATE SKILL DEVELOPMENT
CORPORATION (First Party)
AND
EUROPEAN CENTER FOR MECHATRONICS APS GMBH
(Second Party)
AND
NARASARAOPETA ENGINEERING COLLEGE(NEC)
(Third Party)

Brief about Narasaraopeta Engineering College (NEC):

Narasaraopeta Engineering College, an Autonomous Institution with permanent affiliation to JNTUK, Kakinada is one of the top Engineering Colleges in Guntur and listed among the top 10 engineering colleges in Andhra. The college is offering B.Tech, M.Tech, MBA and MCA programs. The college is approved by AICTE, twice NBA, Grade 'A' by NAAC Govt of AP. Narasaraopeta Engineering College today is a union of




FIRST PARTY - APSSDC shall

- select reputed engineering colleges/Universities in collaboration with ECM through a stipulated procedure;
- provide a platform for registration of trainees online and mapping of institutions and students;
- develop course curriculum in collaboration with other parties to suit latest and future technologies;
- prepare over all calendar of training programs and communicate to Second Party;
- organize Training Programs for all diploma and under graduate engineering students;
- prepare operational guidelines for ARC labs to be followed by the other two parties;
- promote Research & Development and Innovation for existing Industries;
- exercise its right to cancel the permission now granted to the institutions in the event of not fulfilling their obligations.



The parties hereto have executed this agreement as of the last written date below.

For Andhra Pradesh State Skill Development Corporation


T. Anil Kumar
 Executive Director - I
 Executive Director
 Andhra Pradesh State Skill Development Corporation
 Dept. of Skill Development,
 Entrepreneurship & Innovation
 Govt. of A.P. Vijayawada, A.P.

Witness: 


For European Center for Mechatronics APS GmbH

Till Quadflieg
 Managing Director


Witness: 



For Narasaraopeta Engineering College


Dr. M. Sreenivasa Kumar
 Principal

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


 (Dr. D. Suneel)
 Dean - Acad
 NEC.



COURSES

UG-B.TECH

Civil Engineering
Electrical & Electronics Engineering
Mechanical Engineering
Electronics & Communication Engineering
Computer Science and Engineering
Information Technology

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)



NARASARAOPETA
ENGINEERING COLLEGE
(AUTONOMOUS)

Kotappakonda Road, NARASARAOPET - 522 601,
Palnadu Dt., Andhra Pradesh.

Ph: **08647-239905/239907** Fax: **+8647-239902**

E-mail: **Info@nrtec.in** **www.nrtec.in**

  /nrtengcollege