LIMENAPH CHEMICALS PRIVATE LIMITED

D.No. 6-178/1, B.M.P.S. Road,
S.E.R. Centre, Prasadampadu,
VIJAYAWADA - 521108.
✆ : 0866- 2843769, 2842555
TIN No. 28660149132

LCPL/VJD/ 06.08.2018

To

Rev.Fr.K. Anil Kumar sj
Head of the Department MBA
ALIET
Vijayawada.

Dear Sir,

Completion of Project Work

We wish to inform that Ms.Shaik Haseena Begum, student of ALIET (MBA), Jawaharlal Nehru Technological University, Kakinada completed her project work on "Financial Statement Analysis " at our Vijayawada Office during the period from 25.06.2018 to 28.07.2018.

On completion of the same she had a discussion with our Management on her observations and findings and finally submitted a draft copy of final report.

Yours truly,

(C.M.K.Rajendran)
VICE PRESIDENT

LIMENAPH CHEMICALS (P) LTD. VIJAYAWADA

look no further

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. HARSHAD N. TEWANI,** S/o. Sri. Narendar Tewani, student of Andhra Loyola Institute of Engineering and Technology (ALIET), has completed his project on **"CUSTOMER SATISFACTION"** in our organization **"MID INDIA ENTERPRISES PRIVATE LIMITED"** from **25.06.2018 to 24.07.2018.**

Here by we are issuing this project completion certificate to your college student Mr. Harshad N. Tewani we found during the project period his performance & conduct were good.

MID INDIA ENTERPRISES PRIVATE LTD

P. KAVITA REDDY
(Manager - HR)

MID INDIA ENTERPRISES M & M VJA LTD.

Mid India Enterprises Pvt. Ltd., 40-1-139, Jagirdar Mall, M.G. Road, Vijayawada - 520 010
Tel: 0866 - 6666699 (5-Lines), Fax : 0866-6662386 e-mail: m_mvijayawada@rediffmail.com

TULASI SEEDS

TSPL/HR 142/2018

04th August 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.G.HARISH (Regd.No:17HP1E0033)** student of M.B.A. in **Andhra Loyola Institute of Engineering & Technology, Vijayawada.** Has done project on the topic **"VALUATION OF FIXED ASSETS"** in **M/s. TULASI SEEDS PVT LTD.,** GUNTUR during the period 25-June-2018 to 28-July-2018.

During the above period his conduct was satisfactory, we wish him all the best.

For **TULASI SEEDS PVT LTD.**

S.Satubhasiva Rao

Authorized Signatory

Jocil Limited *An ISO 9001-2015 Certified Company*

Box 216, Arundelpet P.O., Guntur – 522 002, Andhra Pradesh, India
Ph:0863-2290190, Fax:0863-2290090, Email-jocil@jocil.net, Web: www.jocil.in

Jocil/Adm/182/18/

August 14, 2018

Project Work Completion Certificate

1. Name	:	Mathangi Devarayalu [17HP1E0030]
2. Name and Address of the Institution	:	Andhra Loyola Institute of Engineering & Technonoly,Vijayawada-520008
3. Subject & Field of Study	:	M.B.A. (Finance)
4. Period of Training	:	04-07-2018 to 07-08-2018
5. Area of Training	:	Finance Department
6. Project Report Title	:	"A Study on Budgetary control" with special reference to Jocil Limited
7. Performance	:	Satisfactory

Yours faithfully
For Jocil Limited,

Managing Director

To

Head of the Department
Andhra Loyola Institute of Engineering And Technology,
VIJAYAWADA-520008

SANGROSE
LABORATORIES PVT. LTD.
INDUSTRIAL ESTATE, KALLIMEL P.O., MAVELIKARA, KERALA - 690 509

Phone: 0479 - 2357090, 2357091, 2357130,
Fax: 91-479-2357107
E-mail: info@sangroselabs.com
CIN: U24231KL1996PTC010099

CERTIFICATE

This is to certify that **Ms. Shona Susan Daniel.T** (RegNo: 17HP1E0022) **M.B.A** student of Andhra Loyola Institute of Engineering & Technology, Vijayawada has under gone a project study on **"The Financial Performance "** in our organization for a period of One month from 25th June 2018 to 28th July 2018.

She has completed her Project study satisfactorily; we wish her all success in her future studies.

For Sangrose Laboratories Pvt Ltd..,

Managing Director
28/07/2018

Bombay Office : 1/A-4, Piramal Nagar, S.V. Road Goregaon (West), Bombay - 400062
Tel.(022) 28746509
Fax. 91-22-28753916

networth direct
Money Management Centre

Date: 20/08/2018

To
The Head of the department,
Andhra Loyola Institute of Engineering & Technology,
Vijayawada.

Sub: Completion of project work in Networth stock broking Ltd.

Dear Sir/Madam,

We are pleased to inform you that **Ms. MURIKIPUDI RACHANA, (Regd. No. 17HP1E0018),** of MBA has successfully completed the Project required for the curriculum of MBA Programme on the Topic **"AM EMPIRICAL STUDY ON RISK AND RETURN INVOLVED IN IPO'S BY COMPARING ISSUE PRICE WITH CURRENT MARKET PRICE"** in our organization from 25/06/2018 to 28/07/2018.

For **Networth stock broking Ltd**

With regards

NETWORTH STOCK BROKING LTD. VIJAYAWADA

T.SARATH
Asst. Manager

ahlada
Engineering a better tomorrow!

Date : 28th July, 2018.

CERTIFICATE

This is to certify that **Ms.V.HEMA SRI,** student of Andhra Loyola Institute of Engineering and Technology (Roll No.17HR1E0009), studying **M.B.A. (Finance)** has completed her **Summer Project Training** on **"FINANCIAL STATEMENT AND ANALYSIS"** under the guidance of **FINANCE & ACCOUNTS DEPARTMENT** in our organisation from 25th June, 2018 to 28th July, 2018.

During the above period she attended on all the working days and completed her project work sincerely and dedicatedly.

During the period of Project Work her performance and conduct was good.

We wish her every success in future.

For Ahlada Engineers Limited

Authorised Signatory

Ahlada Engineers Limited
Regd. Office: Door No. 4-56, Sy. # 62/1/A & 67, Tech Mahindra Road, Bahadurpally, Dundigal (Gandimysamma) Mandal, Medchal Dist., Hyderabad - 500 043, Telangana, India. Phone: +91 98665 00811 / 98665 00822, E-mail: engineers@ahlada.com
CIN No: U29308TG2005PLC047102, GSTIN No: 36AAECA3213M1ZS www.ahlada.com

✆ : 040-65263792

AVADHUMBARA ASSOCIATES

Authorised Franchisee for EUREKA FORBES LTD.

Door No. 7-1-276, 1st Floor, Adjacent to Indian Oil Petrol Pump, Balkampet, Hyderabad-500 018.
Email: avadhumbaraassociates_3108@eurosmile.in

Date: 26/06/2018

This is to certify that **Ms. HASEENA SHAIK**, a student from" **ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**" Krishna district, studying in the course of **MBA, Roll No: 17HP1E0007** her undergone practical training in our organization as part of fulfillment of her academic curriculum from **26-06-2018** to **28-07-2018** and successfully completed the project work on "**EMPLOYEE JOB SATISFACTION**" during the above period, her character and conduct are found to be satisfactory.

We wish her all the success in future.

For AVADHUMBARA ASSOCIATES

Authorised Signatory

AVADHUMBARA ASSOCIATES Hyderabad

SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [REGD]
VIJAYAWADA

REGD No: 183/1992

DATE: 30-07-2018

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Ms. UPPULURI LAKSHMI ISWARYA D/o Sri. U. V. S. S. S. SASTRY Enrollment No: 17HP1E0012 course MASTER OF BUSINESS ADMINISTRATION - MBA – semester II, student of ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Vijayawada, has successfully completed the Project titled CAPTIAL STRUCTURES in ACCOUNTS DEPARTMENT, SOUTH CENTRAL RAILWAY, VIJAYAWADA from 25TH Jun '2018 to 28TH Jul '2018.

During the tenure of her project, her conduct and contribution have been GOOD.

We wish her all the best and success.

SECRETARY

SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION (Regd.)
VIJAYAWADA.

The Krishna District Milk Producers' Mutually Aided Co-op Union Ltd.,
(Regd. No.2001/355)

Dt.27-11-2018

CERTIFICATE

This is to certify that Ms.Charupalli. Anusha Student of Department of Business Administration, Andhra Loyola Institute of Engineering and Technology, Affiliated to Jawaharlal Nehru Technological University, Kakinada. Register No:17HP1E0003 has done her academic project work in our finance & Accounts section and has submitted "Working Capital Management" in Krishna District Milk Producers Mutually Aided Co. Operative Union Limited, Vijayawada. She worked with us for a period from 25th June 2018 to 28th July 2018.

Throughout her association with us, her conduct is found to be satisfactory.

We wish her every success in all her future endeavours.

GENERAL MANAGER (F & A).
The Krishna District Milk Producer's
Mutually Aided Co-Operative Union Ltd
Milk Products Factory,
VIJAYAWADA-520 009

MinervaGrand
Group of Boutique Business Hotels & Restaurants

Date:27th NOV, 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. ARAVAPALLI DEEPIKA SRAVANTHI** bearing **ID NO - 17HP1E0005** MBA Student From **ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**,VIJAYAWADA. Has Successfully Completed Her project "**CAPITAL BUDGETING**" At Minerva Grand, Vijayawada From **25/06/2018 to 30/07/2018.**

During The above Period with us, her conduct was very satisfactory.

We wish her all the best in her future life.

FOR

MINERVA GRAND
VIJAYAWADA

HR ASSTT MGR
DEPARTMENT

Minerva Grand Vijayawada
Behind Kalanikethan, M.G. Road, Vijayawada - 520 010.
Tel : +91 866 6678888 Fax : +91 866 6673899

e-mail : resvbza@minervagrand.com
www.minervagrand.com

COROMANDEL AGRO PRODUCTS AND OILS LTD.,

Factory and Admn. Office: JANDRAPETA-523 165, CHIRALA, A.P. INDIA.
Phone : 91-8594-222682, 222683, 222684
Fax : 8688262007, E-mail : capol@mlgroup.com
CIN.No.L16143TG1975PLC001967 Website: www.capol.in

Date:- 24-11-2018

To,
The Head of Department,
Andhra Loyola Institute of Engineering and Technology,
VIJAYAWADA - 520008.

Dear Sir,

Sub: -Completion of **PROJECT WORK** by **M.B.A** student.

This is certify that the following student has undergone the intership work/ summer project training has been sucessfully completed by your student **Mr.P.PHANINDRA VAMSIDHAR, Reg No.17HP1E0041, MBA(Marketing).** With good conduct during the period of training at COROMANDEL AGRO PRODUCTS AND OILS LTD (Chirala).

Name of the Student	:	P.PHANINDRA VAMSIDHAR
Course	:	MBA
Name of the Institute	:	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYWADA
Project Topic	:	CUSTOMER SATISFACTION
Period of Training	:	07-07-2018 to 10-08-2018

Thanking You,

Yours faithfully
For COROMANDEL AGRO PRODUCTS AND OILS LIMITED

for: Coromandel Agro Products & Oils Ltd

Personnel Officer

COROMANDEL AGRO PRODUCTS AND OILS LTD.,

Factory and Admn. Office: JANDRAPETA-523 165, CHIRALA, A.P. INDIA.

Phone : 91-8594-222682, 222683, 222684

Fax : 8688262007, E-mail : capol@mlgroup.com

CIN.No.L16143TG1975PLC001967 Website: www.capol.in

Date: 24-11-2018

To,

The Head of the Department,

Andhra Loyola institute of Engineering and Technology,

VIJAYAWADA -520008.

Dear Sir,

Sub: completion of **PROJECT WORK BY M.B.A** student.

This is certify that the following student has undergone the internship work/Summer project training has been successfully completed by your student **Mr. TANAPPA VEERARAGHAVA REDDY GUNASHEKAR, Reg No: 17HP1E0031, MBA (Finance)**, with good conduct during the period of training at COROMANDAL AGRO PRODUCTS AND OILS LTD (Chirala).

Name of the Student	: TANAPPA VEERARAGHAVA REDDY GUNASHEKAR
Course	: MBA
Name of the Institute	: ANDHRA LOYOLA INSTITUTE OF ENGINEERING& TECHNOLOGY VIJAYAWADA.
Project Topic	: STUDY ON RATIO ANALYSIS
Period of Training	: 04-07-2018 to 07-08-2018

Thanking you,

Yours faithfully

For COROMANDEL AGRO PRODUCTS AND OILS LTD.

ur: Coromandel Agro Products & Oils Ltd

Personnel Officer

COROMANDEL AGRO PRODUCTS AND OILS LTD.,

Factory and Admn. Office: JANDRAPETA-523 165, CHIRALA, A.P. INDIA.
Phone : 91-8594-222682, 222683, 222684
Fax : 8688262007, E-mail : capol@mlgroup.com
CIN.No.L15143TG1975PLC001967 Website: www.capol.in

Date: 24-11-2018

To,

The Head of the Department,

Andhra Loyola institute of Engineering and Technology,

VIJAYAWADA -520008.

Dear Sir,

Sub: completion of **PROJECT WORK BY M.B.A** student

This is certify that the following student has undergone the internship work/Summer project training has been successfully completed by your student **Mr. K.PAVAN KUMAR , Reg No: 17HP1E0040, MBA (Finance),** with good conduct during the period of training at COROMANDAL AGRO PRODUCTS AND OILS LTD (Chirala).

Name of the Student	: K.PAVAN KUMAR
Course	: MBA
Name of the Institute	: ANDHRA LOYOLA INSTITUTE OF ENGINEERING& TECHNOLOGY VIJAYAWADA.
Project Topic	: STUDY ON FUNDS FLOW ANALYSIS
Period of Training	: 05-07-2018 to 08-08-2018

Thanking you,

Yours faithfully

For COROMANDEL AGRO PRODUCTS AND OILS LTD.

ur: Coromandel Agro Products & Oils Ltd

Personnel Officer

COROMANDEL AGRO PRODUCTS AND OILS LTD.,
Factory and Admn. Office: JANDRAPETA-523 165, CHIRALA, A.P. INDIA.
Phone : 91-8594-222682, 222683, 222684
Fax : 8688262007, E-mail : capol@mlgroup.com
CIN.No.L15143TG1975PLC001867 Website: www.capol.in

Date:- 24-11-2018

To,
The Head of Department,
Andhra Loyola Institute of Engineering and Technology,
VIJAYAWADA - 520008.

Dear Sir,

Sub: -Completion of **PROJECT WORK** by **M.B.A** student.

This is certify that the following student has undergone the intership work/ summer project training has been sucessfully completed by your student **Mr. CH. JOSEPH, Reg No.17HP1E0036, MBA(Finance),** With good conduct during the period of training at COROMANDEL AGRO PRODUCTS AND OILS LTD (Chirala).

Name of the Student	:	CHERUKUPALLI JOSEPH
Course	:	MBA
Name of the Institute	:	ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY, VIJAYWADA
Project Topic	:	WORKING CAPIAL
Period of Training	:	03-07-2018 to 06-08-2018

Thanking You,

Yours faithfully
For COROMANDEL AGRO PRODUCTS AND OILS LIMITED

or: Coromandel Agro Products & Oils Ltd

Personnel Officer

eZONE
Fire, Security & Automation Solutions

Dt:23-11-2018

TO WHOM SO EVER IT MAYCONCERN

This is to certify that **Mr. SAI KRIHSNA CHAITANYA GUDIVADA** a student from **"ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNILOGY"** Krishna District, studying in the course of **MBA,- Roll No. 17HP1E0048** Has undergone practical training in our organization as part of fulfilment of his academic curriculum from 25th June,2018 to 28th July,2018 and successfully completed the project work on **"RATIO ANALYSIS"** during the above period. His character and conduct are found good.

We wish him all the success in future

For eZONE Security Solutions India Pvt Ltd

D.V. RAMANA GUPTA
(Asst. Manager-Finance)

eZONE Security Solutions (INDIA) Private Limited
Corp. Office: # 7-1-714/1, Bright Square, Dharam Karam Road, Ameerpet, HYDERABAD-16 Ph: +91 40 65298383, 65290222 Fax: +91 40 23750241
Regd. Office: # 80-1-7/1, Near Siddhartha Arts College, VIJAYAWADA - 520 010 Ph: +91 866 6611193, 2483980 Fax: +91 866 6667722
website: www.ezonesecurity.com email: info@ezonesecurity.com

SRI LALITHA ENTERPRISES INDUSTRIES (P) LTD.,

LALITHA BRAND SORTEXED QUALITY BOILED, STEAM & RAW RICE

MANAGING DIRECTORS :

MATTEY SATYA PRASAD, MATTEY SRINIVAS

Ref. No.

Date :.....

Dt. 2nd August 2018

Sub: Completion of Internship Training.

This is to certify that Ms.GUTHURTHI RAVALIKA DEVI, bearing Roll No. 17HP1E0019, student of MBA from Andhra Loyola Institute of Engineering & Technology, affiliated to Jawaharlal Nehru Technological University, Kakinada has successfully completed project work on PERFORMANCE APPRAISAL at our Unit. She has done the project from 25th June 2018 to 28th July 2018 under the guidance of our Human Resource department.

During her study in our organization she has shown keen interest in learning, developing and implementing the same. We appreciate her hard work and wish good luck and success in her future endeavours.

For SRI LALITHA ENTERPRISES INDUSTRIES PVT LTD.,

[P.V.V.B.KUMAR]
MANAGER- HR

GSTIN : 37AAKCS3233N1ZX

CIN : U15311AP2004PTC044806

ISO 9001 - 2015 Certified Company

Registered Office & Unit - I
4-1-57, Vadlamuru Road, PEDDAPURAM 533 437, E.G.Dist., Andhra Pradesh.
Tel : 08852 - 241364, 242364, Fax : 08852 - 242323, FGL No. : 54/PDP/2008

Unit - II
S. No. 125 to 129, Valuthimmapuram Road, PEDDAPURAM - 533 437, E.G.Dist., A.P.
Tel : 0884 - 2326661 & 2326662, Fax : 0884 - 2326679, FGL No. : 108/PDP/2008
Email : lalitharice@gmail.com, sales.srilalitha@gmail.com

DIN EN ISO:22000:2005

Bonanza
make money.not mistakes.

Date: 28/10/2018

To
The Head of the department,
Andhra Loyola Institute of Engineering & Technology,
Vijayawada.

Sub: Completion of project work in Bonanza Portfolio Ltd.

Dear Sir/Madam,

We are pleased to inform you that **Ms. THADIPENENI VELANGINI MAMATHA, (Regd. No. 17HP1E0060)** of MBA, has successfully completed the Project required for the curriculum of MBA Programme on the Topic **"A COMPARITIVE STUDY ON PERFORMANCE OF NIFTY LARGE CAP COMPINIES VS NIFTY SMALL CAP COMPANIES"** for a period from 25-06-2018 TO 28-07-2018.

For **BONANZA PORTFOLIO LIMITED**

With regards,

BONANZA PORTFOLIO LTD. VIJAYAWADA

T.Shiv Badrinath
Asst. Manager

KUSALAVA

CERTIFICATE

This is to certify **Mrs. KALLA MEGHANA** who is studying for **MBA** in **ANDHRA LOYOLA ENGINEERING & TECHNOLOGY,** Vijayawada has completed his project work on the **"WORKING CAPITAL MANAGMENT" KUSALAVA INTERNATIONAL LTD,** Vijayawada, who attended from **26/06/2018 to 30/07/2018.**

For KUSALAVA INTERNATIONAL

R.RAVI NAGA BABU
MANAGER-FINANCE

Kusalava International Ltd
Plot No. 10, Sector - 2, II E Pant Nagar (SIDCUL), RUDRAPUR, Dist. Udham Singh Nagar, Uttarakhand.
Phones : +91 09219412311, 09219412344

ISO 9001 ISO 14001 IS 18001
Certified Company

Kumarasamy Raja Nagar – 521 457
Jaggayyapet Mandal, Krishna District
Andhra Pradesh, India
Phone: 08654 - 224400
Fax : 08654 - 222532

THE RAMCO CEMENTS LIMITED
E-mail: trcljpm@ramcocements.co.in

HR/TRG/ 103 /2018

July 30, 2018

CERTIFICATE

This is to certify that **Ms.K. KEERTHANA (Reg No 17HP1E0010) D/o SRINIVASA RAO R,** student of **MBA (Finance)** at Andhra Loyola Institute of Engineering and Technology, Vijayawada has successfully completed project work on **"WORKING CAPITAL MANGEMENT"** in our organization for a period from **25.06.2018 to 28.07.2018**. During this period, we found her that, she is sincere and good.

We wish her all the best in her future assignments.

For THE RAMCO CEMENTS LIMITED,

E ALWAR
SDGM-HR

मंडल रेल प्रबंधक का कार्यालय
कर्षण चल स्टॉक
विद्युत लोको शेड
विजयवाड़ा - 520 009

दूर भाष/फैक्स : +91 866 2561799
ई. मेल : elsbza@gmail.com
elsbza@rediffmail.com

भारत सरकार - Government of India
रेल मंत्रालय - Ministry of Railways

दक्षिण मध्य रेलवे • South Central Railway
विजयवाड़ा डिविजन • BZA- Division

OFFICE OF THE DRM
TRACTION ROLLING STOCK
ELECTRIC LOCO SHED
VIJAYAWADA - 520 009

Tele Fax : +91 866 2561799
E-mail : elsbza@gmail.com
elsbza@rediffmail.com

CERTIFICATE

This is to certify that **Mr. M. Monish Kumar,** B.Tech (EEE), REG No. 15HP1A0228 of **Andhra Loyola Institute of Engineering and Technology, VIJAYAWADA** has visited Electric Loco Shed Vijayawada and completed the study on maintenance of Electric Locomotive for a period of 13 days i.e. from 20-06-2018 to 02-07-2018

Date : **02-07-2018**

(NARESH BANDLA, I.R.S.E.E)
Divisional Electrical Engineer,
Electric Loco Shed/TRS,
S. C. Railway, VIJAYAWADA
मं वि इ/टि.आर.एस/वि.लो शेड/वि जे ए
DEE/TRS/ELS/BZA

VARUN MOTORS PVT. LTD.

AUTHORISED DEALERS FOR MARUTI

Dealer Code : 2603 for 26

MARUTI SUZUKI

Way of Life!

GSTIN : 37AABCV2471Q1ZR

Ref No: - VMPL\HR\PROJECTCOMPLITION\2018-19\06

Date: 02nd June 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. R V H N SHASHANK (Regd.No:15HP1A0354) of ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY has successfully completed his PROJECT WORK in our WORKSHOP Department under the guidance of Mr. RACHAKONDA ASHOK (WORKS MANAGER – SERVICE)

Duration : from – 4th May 2018

To – 2nd June 2018

During this period his conduct was found satisfactory.

We wish Mr. R V H N SHASHANK all the best in his future endeavors.

For Varun Motors Pvt Ltd

Human Resources

VARUN MOTORS PVT. LTD. VIJAYAWADA-8 PH 2544444

ISO 9001

VARUN MOTORS PVT. LTD.

AUTHORISED DEALERS FOR MARUTI

Dealer Code : 2603 for 26

MARUTI SUZUKI
Way of Life!

GSTIN : 37AABCV2471Q1ZR

Ref No: - VMPL\HR\PROJECTCOMPLITION\2018-19\12

Date: 20th June 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. K V PRABHU SAI KRISHNA (Regd.No:16HP1A03A8) of ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY has successfully completed his PROJECT WORK in our WORKSHOP Department under the guidance of Mr. GADE NAGARJUNA (WORKS MANAGER – SERVICE)

Duration : from – 25th May 2018

To – 9th June 2018

During this period his conduct was found satisfactory.

We wish Mr. K V PRABHU SAI KRISHNA all the best in his future endeavors.

For Varun Motors Pvt Ltd.

Human Resources

VARUN MOTORS PVT. LTD., VIJAYAWADA-8, 2544444

ISO 9001 CERTIFIED QUALITY SYSTEM

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY,VIJAYAWADA

Title: Industrial Visit

- Date(s): 2nd year student's industrial visit at Kumar pumps, Tenali ON 16.11.2018 - 10.00AM – 04.00PM

Industry Visited: Kumar pumps Pvt Limited, Tenali

Participant's:

MECH II YEAR STUDENTS The student's team consisting of 60 **Students** will be lead by TWO Faculty Members.

Description about the Visit:

MECH II YEAR STUDENTS visited The Krishna District Kumar pumps Pvt Limited, Tenali as part their academic activity. Real time field visit will enhance the student's exposure to production processes.

The present visit helped the students to know about Modeling, casting, machining, joining, shearing and forming processing practices.

Faculty accompanied: Mr. E. Durgesh and Mr. T. Subba reddy

Designation(s): Assistant Professor

Department: Department of Mechanical engineering

Glimpses of Industrial Visit:

Industrial Visit - at the entrance
Mechanical II semester students along with Faculty.

PRINCIPAL
ANDHRA LOYOLA INSTITUTE OF
ENGINEERING & TECHNOLOGY
VIJAYAWADA-520 008

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY,VIJAYAWADA

Title: Industrial Visit **Date(s):** 3rd year student's industrial visit at APHMEL, Ibrahimpatnam ON 26.07.2018-10.00AM – 04.00PM
Industry Visited: APHMEL,
MECH III YEAR STUDENTS The student's team consisting of 60 **Students** will be lead by TWO Faculty Members.
Description about the Visit: MECH III YEAR STUDENTS visited The Krishna District APHMEL, Ibrahimpatnam as part their academic activity. Real time field visit will enhance the student's exposure to production processes. The present visit helped the students to know about Modeling, casting, machining, joining, shearing and forming processing practices.
Faculty accompanied: Mr. Ch. Ranga rao and Miss. B. Sree Chaitanya **Designation(s):** Assistant Professor

Department: Department of Mechanical engineering

Glimpses of Industrial Visit:

Industrial Visit - at the entrance
Mechanical III semester students along with Faculty.

PRINCIPAL
ANDHRA LOYOLA INSTITUTE OF
ENGINEERING & TECHNOLOGY
VIJAYAWADA-520 008

ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY,VIJAYAWADA

Title: Industrial Visit

Date(s): Third year students Dr. NTTPS visit ON 27.3. 2019, Kondapalli - 10.00AM – 04.00PM

Industry Visited: Dr. NTTPS Limited, Vijayawada

Participant's:

MECH III YEAR STUDENTS The student's team consisting of 60 **Students** will be lead by TWO Faculty Members.

Description about the Visit:

MECH III YEAR STUDENTS visited The Krishna District Dr. NTTPS Limited, Vijayawada as part their academic activity. Real time field visit will enhance the student's exposure to production processes.

The present visit helped the students to know about Turbine, Boiler, Water processing, coal transformation, processing practices.

Faculty accompanied: Mr. E. Durgesh and Mr. T. L. Prasanna Kumar

Designation(s): Assistant Professor

Department: Department of Mechanical engineering

Glimpses of Industrial Visit:

Industrial Visit - at the entrance
Mechanical II semester students along with Faculty.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

INDUSTRIAL VISIT

RENEWABLE ENERGY SOURCES LAB @ ALC

The department of Electrical Engineering organized a visit to **RENEWABLE ENERGY SOURCES LAB** at Andhra Loyola College, Vijayawada, on 21st& 27th of August 2018 for the students of II EEE. The objective of this visit is to understand the basic concepts of power generation by solar, wind, and h**ydropower** systems. The visit made them look beyond books and provided what classrooms could never have. They were accompanied by Mr. M. Rama Krishna, Asst. Prof., Mr. M. Krishna Mohan, Asst. Prof. and Mr. K. Rajesh Babu, Asst. Prof. who were extremely interactive.

The students stated that the programme highlighted the basic concepts of power generation by renewable energy sources like solar, wind etc. They also learnt about the utilization power generated by renewable energy sources.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

INDUSTRIAL VISIT

Title: Industrial Visit

Date(s): 8th Sept. 2018- 10.00AM – 04.00PM

Industry Visited: KUMAR PUMPS AND MOTORS, Tenali

Participant's:

IV EEE 53 students and Two faculty members

Description about the Visit:

EEE IV Year II semester students visited Kumar Pumps and Motors, Tenali as part their academic activity. Real time field visit will enhance the student's exposure to production processes and management practices.

The main purpose of this visit is to make the students understand the generation of power from BIOMASS (by-product of sugar extraction from cane stalks). All the students actively participated and gained knowledge about power generation..

Report Submitted by: Mr. L Karunakar and Mrs. V. Anantha Lakshmi

Designation(s): Assistant Professor & Assistant Professor

Department: Department of EEE

Glimpses of Industrial Visit:

Industrial Visit – 08th Sep 2018 at the entrance
EEE IV year II semester students along with Faculty

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

INDUSTRIAL VISIT

Title: Industrial Visit

Date(s): 28th Sept. 2018- 10.00AM – 04.00PM

Industry Visited: KCP SUGARS & POWER INDUSTRIES Pvt. Lmt, Vuyyuru

Participant's:

III EEE 70 students and Two faculty members

Description about the Visit:

EEEIII Year II semester students visited **EURTH KCP SUGARS & POWER INDUSTRIES Pvt. Lmt, vuyyuru** as part their academic activity. Real time field visit will enhance the student's exposure to production processes and management practices.

The main purpose of this visit is to make the students understand the generation of power from BIOMASS (by-product of sugar extraction from cane stalks). All the students were actively participated and gained knowledge about power generation

Report Submitted by: Mr. M M Karunakar and Mr. K Rajesh Babu

Designation(s): Assistant Professor & Assistant Professor

Department: Department of EEE

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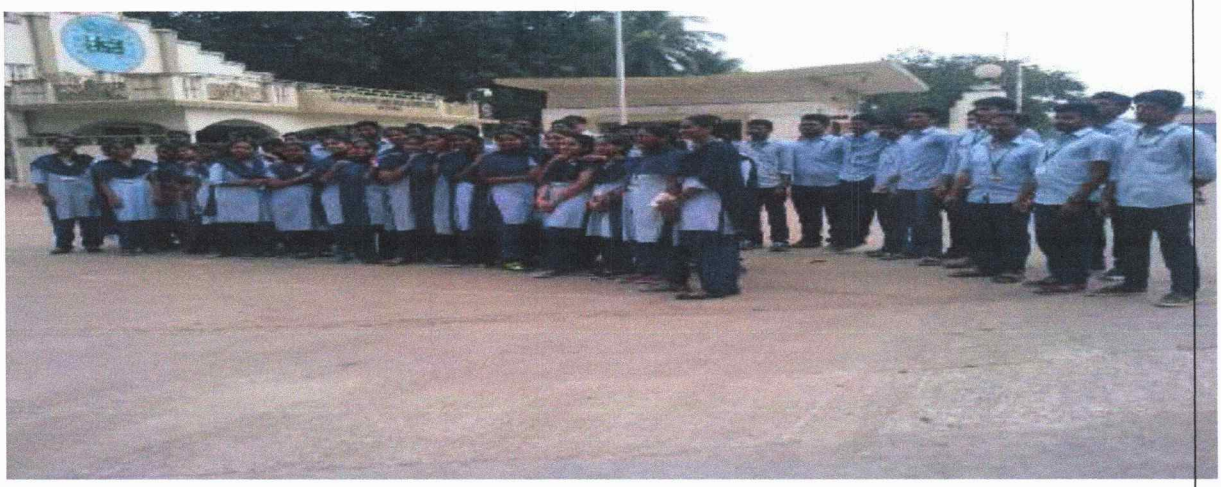
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

INDUSTRIAL VISIT

Glimpses of Industrial Visit:



Industrial Visit – 28th Dec 2018 at the entrance
EEE III year II semester students along with Faculty

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

INDUSTRIAL VISIT

Title: Industrial Visit

Date(s): 29th Sept. 2018- 10.00AM – 04.00PM

Industry Visited: EURTH PRIVATE LIMITED, Nunna

Participant's:

III EEE 70 students and Two faculty members

Description about the Visit:

EEEIII Year II semester students visited **EURTH PRIVATE LIMITED** as part their academic activity. Real time field visit will enhance the student's exposure to production processes and management practices.

The main purpose of this visit is to make the students understand operation and manufacturing of led bulbs. After visiting the industry students gained a both theoretical and practical knowledge.

Report Submitted by: Mr. K Rajesh Babu and M Rama Krishna

Designation(s): Assistant Professor & Assistant Professor

Department: Department of EEE

Glimpses of Industrial Visit:

Industrial Visit – 29th Sep 2018 at the entrance
EEE III year II semester students along with Faculty

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INDUSTRIAL VISIT

Title: Industrial Visit

Date(s): 21st Dec. 2018- 10.00AM – 04.00PM

Industry Visited: Dr. Narla Tata Rao Thermal Power Station (NTTPS), Ibrahimpatnam

Participant's:

III EEE 60 students and Two faculty members

Description about the Visit:

EEEII Year II semester students visited Dr. Narla Tata Rao Thermal Power Station (NTTPS) as part their academic activity. Real time field visit will enhance the student's exposure to production processes and management practices.

The main motto of this visit is to make the students understand the generation of Electricity from coal. The visit was very fruitful as they observed each of energy conversion stages used in power plant starting from fuel section to switch yard. All the students were actively participated and many of their doubts were cleared by the discussion with experts of the plant.

Report Submitted by: Mr. M Rama Krishna and Mr. T Krishna Mohan

Designation(s): Assistant Professor & Assistant Professor

Department: Department of EEE

Glimpses of Industrial Visit:

Industrial Visit – 21st Dec 2018 at the entrance
EEE II year II semester students along with Faculty

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Title: Industrial Visit

Date(s): 12thFeb. 2019- 10.00AM – 04.00PM

Industry Visited: GS.ALLOYS Pvt. Lmt, Nunna

Participant's:

IV EEE 52 students and Two faculty members

Description about the Visit:

EEEII Year II semester students visited **GS.ALLOYS Pvt. Lmt, Nunna** as part their academic activity. Real time field visit will enhance the student's exposure to production processes and management practices.

The main motto of this visit is to make the students understand the generation of Electricity from coal. The visit was very fruitful as they observed each of energy conversion stages used in power plant starting from fuel section to switch yard. All the students were actively participated and many of their doubts were cleared by the discussion with experts of the plant.

Report Submitted by: Mrs. V Anantha Lakshmi and Dr. G Naveen Kumar

Designation(s): Assistant Professor & Assistant Professor

Department: Department of EEE

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Glimpses of Industrial Visit:

Industrial Visit – 12thFeb 2019 at the entrance
EEE IV year II semester students along with Faculty

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DEPARTMENT OF CIVIL ENGINEERING

Industrial Visit Report

Title: Industrial Visit

Date(s): 21st January , 2019- 10.00AM – 12.00AM

Industry Visited: Gogineni Hostel Dining Hall, ALC Campus

Participant's:

III Year II Semester 60 students and Two faculty members

Description about the Visit:

III Year II Semester visited The Gogineni Hostel Dining Hall, ALC Campus as part their academic activity. Real time field visit will enhance the student's exposure to practical knowledge

The present visit helped the students to know Practical Exposure on Water Proofing work Madras Terrace Roof on 21st January, 2019.

Report Submitted by: Mr. Ch. Naga Raju, Mr.G.Amar

Designation(s): Assistant Professor, Assistant Professor

Department: Department of Civil Engineering

Glimpses of Industrial Visit:

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III B.Tech students were taken to Gogineni Hostel Dining Hall, ALC Campus for Practical Exposure on Water Proofing work Madras Terrace Roof on 21st January, 2019

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Title: Industrial Visit

Date(s): 14.2.2019

Industry Visited: Prakasam barrage,Vijayawada.

Participant's:

III Year II Semester 60 students and Two faculty members

Description about the Visit:

III Year II Semester visited Prakasam Barrage,Vijayawada as part their academic activity. Real time field visit will enhance the student's exposure to practical knowledge

The present visit helped the students to know Practical Exposure on Water Proofing work Madras Terrace Roof on 21st January, 2019.

Report Submitted by: Mr. Ch. Naga Raju, Mr.G.Amar

Designation(s): Assistant Professor, Assistant Professor

Department: Department of Civil Engineering

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Industrial Visit Report

Title: Industrial Visit

Date(s): 11th January , 2019- 10.00AM – 12.00AM

Industry Visited: Gogineni Hostel Dining Hall, ALC Campus

Participant's:

IV Year II Semester 60 students and Two faculty members

Description about the Visit:

IV Year II Semester visited The Gogineni Hostel Dining Hall, ALC Campus as part their academic activity. Real time field visit will enhance the student's exposure to practical knowledge

The present visit helped the students to know Practical Exposure on Water Proofing work Madras Terrace Roof on 11th January, 2019.

Report Submitted by: Mr. Ch. Naga Raju, Mr.G.Amar

Designation(s): Assistant Professor, Assistant Professor

Department: Department of Civil Engineering

Glimpses of Industrial Visit:

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IV B.Tech students were taken to Gogineni Hostel Dining Hall, ALC Campus for Practical Exposure on Water Proofing work Madras Terrace Roof on 11th January, 2019

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Industrial Visit Report

Title: Industrial Visit

Date(s): 15th Febrauary , 2019- 10.00AM – 5.00PM

Industry Visited: Waste Water Treatment Plant Vambecolony, , Ajith Singh Nagar, Vijayawada,

Amaravathi Capital Region Raft Foundation

Participant's:

IV Year II Semester 60 students and Two faculty members

Description about the Visit:

IV Year II Semester visited The Waste Water Treatment Plant Vambecolony, Ajith Singh Nagar , Vijayawada and Amaravathi Capital Region as part their academic activity. Real time field visit will enhance the student's exposure to practical knowledge

The present visit helped the students to know about the Waste water treatment and about the raft foundation .In waste water treatment plant the total process of treating waste water is explained by AE of that treatment plant and various steps involved in the treating process are clearly observed by the students. After completing the visit of waste water treatment plant final year students also visited and observed the construction of Raft foundation in the capital region of Amaravathi.

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Report Submitted by: Mr. A. Abhilash, Mrs. V. Swathi Padmaja

Designation(s): Assistant Professor, Assistant Professor

Department: Department of Civil Engineering

Glimpses of Industrial Visit:

Industrial Visit – 15.02.2019 at the Waste Water Treatment Plant
Civil IV year II semester students along with Faculty

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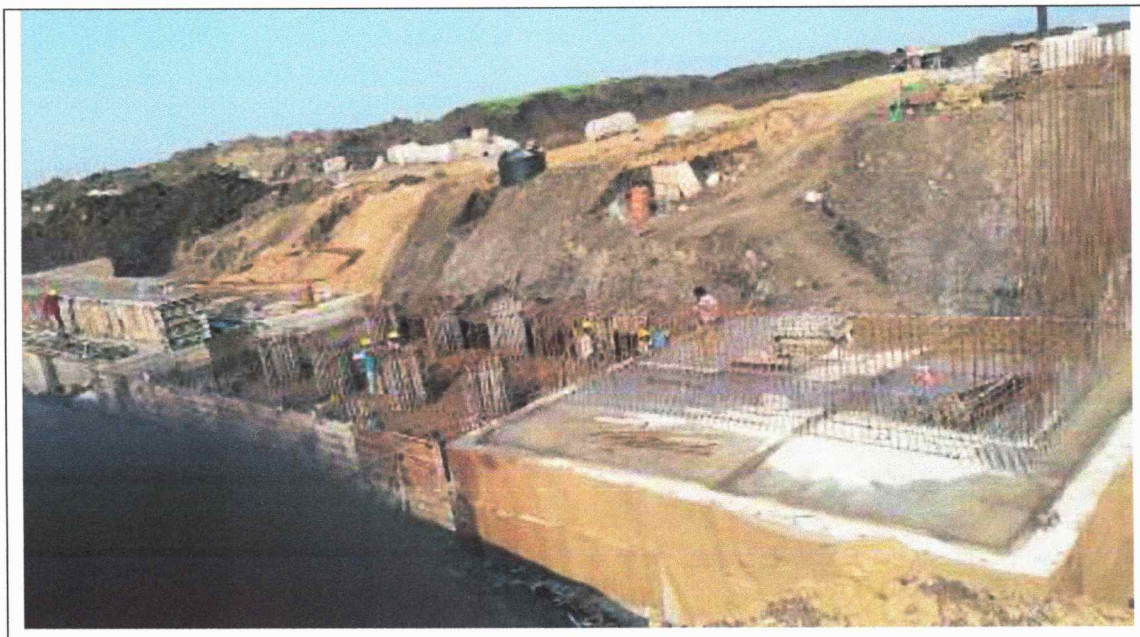

Industrial Visit – 15.02.2019 at Amaravathi Capital Region Raft Foundation
Civil IV year II semester students along with Faculty

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DEPARTMENT OF CIVIL ENGINEERING

Industrial Visit Report

Title: Industrial Visit

Date(s): 16th Febrauary , 2019- 10.00AM – 4.00PM

Industry Visited: KLR Water Works, Bhavanipuram, Vijayawada

Participant's:

III Year II Semester 60 students and Two faculty members

Description about the Visit:

III Year II Semester visited The KLR Water Works, Bhavanipuram, Vijayawada as part their academic activity. Real time field visit will enhance the student's exposure to practical knowledge

The present visit helped the students to know about the water treatment .In water treatment plant the total process of treating water is explained by AE of that treatment plant and various steps involved in the treating process are clearly observed by the students.

Report Submitted by: Mr. A. Abhilash, Mrs. M.Alekya

Designation(s): Assistant Professor, Assistant Professor

Department: Department of Civil Engineering

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Glimpses of Industrial Visit:

Industrial Visit – 16.02.2019 at the KL Rao Water Treatment Plant
Civil III year II semester students along with Faculty

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DEPARTMENT OF CIVIL ENGINEERING

Industrial Visit Report

Title: Industrial Visit

Date(s): 4th August 2018- 8.00AM – 8.00PM

Industry Visited: Polavaram Project and Pattiseema lift Irrigation

Participant's:

IV Year II Semester 60 students and Three faculty members

Description about the Visit:

- IV B.Tech students were taken to Polavaram Project and Pattiseema lift Irrigation for practical exposure Construction and Design Aspects of Dams and Reservoirs on on 4th August 2018.

Report Submitted by: Mr. Ch.Naga Raju, Mr. V.Surya Teja ,Mrs M.Alekya

Designation(s): Assistant Professor, Assistant Professor, Assistant Professor

Department: Department of Civil Engineering

Glimpses of Industrial Visit:

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DEPARTMENT OF Computer science and Engineering

Industrial Visit Report

Title: Industrial Visit

Date(s): 6th December 2018- 10.00AM – 4.00PM

Industry Visited: MEDHA TECHNOLOGIES, VIJAYAWADA

Participant's:

B.Tech IV Year II Semester 120 students and four faculty members

Description about the Visit:

B.Tech IV Year II Semester visited **MEDHA TECHNOLOGIES, HITECH CITY, GANNAVARAM IT PARK,** and Vijayawada as part their academic activity. Real time field visit will enhance the student's exposure to Real time Work Environment and understands different phases in software Engineering.

The present visit helped the students to know about Real time Work Environment, Programming, Testing, deployment and Maintenance Activities Performed in a software Company.

Report Submitted by: Dr.Ch.Rajendra Babu & Mr.V.Dilip Kumar

Designation(s): Assistant Professor

Department: Department of **Computer science and Engineering**

Glimpses of Industrial Visit:

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DEPARTMENT OF Computer science and Engineering

Industrial Visit – 6.12.2018
B.Tech IVyear II semester students along with Faculty

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DEPARTMENT OF BUSINESS ADMINISTRATION

Industrial Visit to Hindustan Coca-Cola Beverages Pvt. Ltd. Atmakur, Andhra Pradesh

Title: Industrial Visit to Hindustan Coca-Cola Beverages Pvt, Ltd. Atmakur, AP- to provides students an insight regarding internal working of companies.

Date(s): 09th October, 2018- 08.30AM – 02.00PM

Venue: Industrial Visit to Hindustan Coca-Cola Beverages Pvt, Ltd. Atmakur, AP

Participant's:

50 Students of II MBA and 3 Faculties from Department of Master of Business Administration, ALIET.

Description about the Visit:

Industrial visit has its own importance in a career of a student who is pursuing professional courses like MBA. Industrial visit helps to combine theoretical knowledge with practical knowledge. The objective this industrial visit is to provide students an insight regarding internal working of companies. It provided them with an opportunity to learn practically through interaction, working methods and employment practices. It gave them an exposure to current work practices.

Fifty second year students along with three faculties from department of Master of Business Administration reached the company around 9.30 AM by college bus. Mr. Siva Reddy who is working as Public Relations and Marketing Executive received there. They have shown a video which represents the whole coca-cola company working process. After that they accompanied students to visit the factory each division wise. The entire visit gave a wonderful experience to the students in learning practical side of the industrial management.

Report Submitted by: Dr. T. Subba Rayudu, Mr. Rajesh Pasala, Mrs. P B Lavanya

Designation(s): Associate Professor, Assistant Professor, Assistant Professor

Department: Department Master of Business Administration

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Glimpses of the visit:

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DEPARTMENT OF BUSINESS ADMINISTRATION

Industrial Visit to Jaya Lakshmi Oil and Chemical Industries Limited, Dokiparru, Guntur, Andhra Pradesh

Title: Industrial Visit to –Jaya Lakshmi Oil and Chemical Industries Limited, Dokiparru, Guntur, Andhra Pradesh to provides students an insight regarding internal working of companies.

Date(s): 06thNovember, 2018- 10.30AM – 02.00PM

Venue: Industrial Visit to Jaya Lakshmi Oil and Chemical Industries Limited, Dokiparru, Guntur, Andhra Pradesh.

Participant's:
55 Students of I MBA (2018-2020 batch) and 2Faculties from Department of Master of Business Administration, ALIET.

Description about the Visit:

Industrial visit has its own importance in a career of a student who is pursuing professional courses like MBA. Industrial visit helps to combine theoretical knowledge with practical knowledge.The objective this industrial visit is to provide students an insight regarding internal working of companies. It provided them with an opportunity to learn practically through interaction, working methods and employment practices. It gavethem an exposure to current work practices.

Fifty six second year students along with three faculties from department of Master of Business Administration reached the company around 10.30 AM by college bus. Mr. R. BanerjeeBabu, Sr. General Manager - who is working as Production Manager received there. After Introduction All The Students Were headed by the manager of the company who helped us to understand how production is carried out in the company .Maximum Production is carried out by means of machinery sub-divided into various activities like inception of raw materials, mixing process and then converting into finished goods. The entire visit gave a wonderful experience to the students in learning practical side of the industrial management.

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Glimpses of the visit:

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DEPARTMENT OF BUSINESS ADMINISTRATION

Industrial Visit to ALEAP Industrial Estate, Surampalem, Nunna, Krishna District, Andhra Pradesh

Title: Date(s): Industrial Visit To ALEAP Industrial Estate, Surampalem, Nunna, KrishnaDistrict, Andhra Pradesh
02-02-2017, 10.30AM – 02.00PM

Venue: ALEAP Industrial Estate, Surampalem, Nunna, Krishna District, Andhra Pradesh

Participant's:

53 Students of I MBA(2018-2020 BATCH) and 2Faculties from Department of Master of Business Administration, ALIET.

Description about the Visit:

Industrial visit has its own importance in a career of a student who is pursuing professional courses like MBA. Industrial visit helps to combine theoretical knowledge with practical knowledge.The objective this industrial visit is to provide students an insight regarding internal working of companies. It provided them with an opportunity to learn practically through interaction, working methods and employment practices. It gavethem an exposure to current work practices.

Fifty Three students along with two faculties from department of Master of Business Administration reached the company around 10.30 AM by college bus. Mr.Balaji, who is working as Estate Managerreceived there. After giving instructions he accompanied students to visit the factory each division wise. The entire visit gave a wonderful experience to the students in learning practical side of the industrial management.

Report Submitted by: Mr. N. Janardhanarao and Mrs. P B Lavanya

Designation(s): AssociateProfessor and Assistant Professor,

Department: DepartmentMaster ofBusiness Administration

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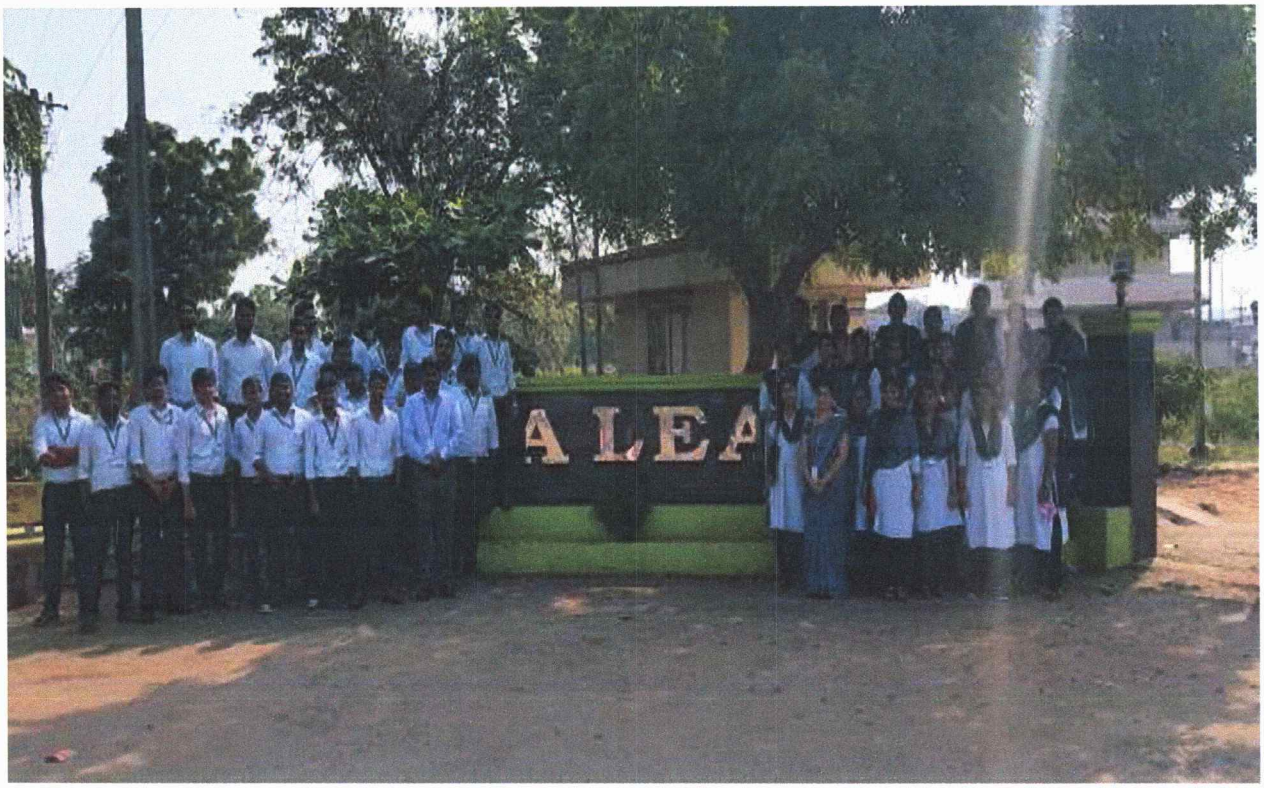
DEPARTMENT OF BUSINESS ADMINISTRATION

Glimpses of the visit:



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DEPARTMENT OF BUSINESS ADMINISTRATION

K.C.P. Sugar and Industries Corporation Limited, Vuyyuru, Krishna District, Andhra Pradesh

Title: K.C.P. Sugar and Industries Corporation Limited, Vuyyuru, Krishna District, AP - To provides students an insight regarding internal working of companies.

Date(s): 27th February, 2019- 08.30AM – 01.00PM

Venue: K.C.P. Sugar and Industries Corporation Limited, Vuyyuru, Krishna District, AP

Participant's:

51 Students of II MBA and 2 Faculties from Department of Master of Business Administration, ALIET.

Description about the Visit:

Industrial visit has its own importance in a career of a student who is pursuing professional courses like MBA. Industrial visit helps to combine theoretical knowledge with practical knowledge. The objective this industrial visit is to provide students an insight regarding internal working of companies. It provided them with an opportunity to learn practically through interaction, working methods and employment practices. It gave them an exposure to current work practices.

Fifty one second year students along with two faculties from department of Master of Business Administration reached the company around 9.00 AM by college bus. Two supervisors from the production department received the batch and accompanied them throughout the visit. The entire visit gave a wonderful experience to the students in learning practical side of the industrial management.

Report Submitted by: Mrs. V. Nagalakshmi, Mr. Rajesh Pasala, Mrs. P B Lavanya

Designation(s): Assistant Professor & Assistant Professor

Department: Department Master of Business Administration

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Glimpse of the visit:

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Vijayawada – 520 008
DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Industrial Visit Report

Title: Industrial Visit

Date(s): 20th March, 2019- 10.00AM – 01.00PM

Industry Visited: The Krishna District Milk Producers' Mutually Aided Co-Operative Union Limited, Vijayawada

Participant's:

MBA I Year II Semester 49 students and Two faculty members

Description about the Visit:

MBA I Year II semester students visited The Krishna District Milk Producers' Mutually Aided Co-Operative Union Limited, Vijayawada as part their academic activity. Real time field visit will enhance the student's exposure to production processes and management practices.

The present visit helped the students to know about milk processing, milk drying, ghee manufacturing, butter manufacturing, UHT milk packing, butter cold storage and warehouse practices.

Report Submitted by: Mr. N. Janardhana Rao and Mrs. V. Naga Lakshmi

Designation(s): Associate Professor & Assistant Professor

Department: Department of Master of Business Administration

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DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

Glimpses of Industrial Visit:

Industrial Visit – 20.03.2019 at the entrance
MBA I year II semester students along with Faculty

Industrial Visit – 20.03.2019 in the plant
MBA I year II semester students along with faculty

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LDC/Sem-CS/07/18 14-07-2018

Attendance Certificate

This is to certify that Sri. A. Koteswara Rao, Asst.Professor, ALIET, Vijayawada, has delivered his guest lecture on "JAVA Programming" for the II Year BSC Computer Science students organized by the Department of Computer Science on 14-07-2018. It was well appreciated by our students. We are grateful for his service to this institution.

(Rev. Fr. Dr. T. Amala Arockia Raj. S.J.)
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Date: 15.02.19

To
The Principal,
ALIET,
Vijayawada.

Respected Father,

This is to bring to your kind information that the Department of Computer Science of our college is organizing an guest lecture on **18th February, 2019 at 12.30 p.m**. In this regard, I request to relieve Mr. B.V Satish Babu, Asst Professor, CSE department of your college to deliver a guest lecture on "**Big Data**" in our college and enlighten our students.

Thanking you,

Yours faithfully,

PRINCIPAL
MARIS STELLA COLLEGE
VIJAYAWADA-520 008

Copy to : Mr. B.V Satish Babu,
Asst Professor,
CSE department,
Vijayawada.

Microsystem Technologies
https://doi.org/10.1007/s00542-018-4038-4

TECHNICAL PAPER

Role of dielectric layer and beam membrane in improving the performance of capacitive RF MEMS switches for Ka-band applications

K. Girija Sravani[1,2] · T. Lakshmi Narayana[1] · Koushik Guha[2] · K. Srinivasa Rao[1]

Received: 13 February 2018 / Accepted: 9 July 2018

Abstract

In this paper, we have analyzed the role of dielectric layer and different beam membranes on the performance parameters of shunt capacitive RF MEMS switch. The investigation mainly focused on the major challenges of performance parameters are reducing actuating voltage and improving the isolation. The actuation voltage is reduced by incorporation of non-uniform meanders to the serpentine membrane structure and also improved the isolation using 50 nm AlN dielectric thin film. Here, we have incorporated the holes to the top membrane which help the switch to improve the insertion property. The actuation voltage required to move the switch downwards is 5.4 V and the switch operates at transition time of 12 µs. The isolation − 72.4 dB is observed at the frequency of 27 GHz and insertion − 0.34 dB is observed at the frequency of 27 GHz. The characteristics of switch have been observed by simulating the switch design in FEM tool and results have been compared with theoretical calculations. Finally, the switch is optimized based on the switch performance parameters and it is suitable for Ka-band applications.

1 Introduction

The increasing demand for the reconfigurable devices in the modern day communication systems is widely attracting the researchers to investigate on RF MEMS technology and its is applications. In this aspect an intense research has been going on RF MEMS switches which are preferable when compared to the solid state switches like PIN diode, FET etc. (Sharma et al. 2017). It is noticed that, RF MEMS switches are highly recommended to design various communication modules such as reconfigurable antennas, filters and resonators etc. (Chawla and Khanna 2014). RF MEMS switches are widely used due to low insertion loss, high linearity, good isolation, high reliability and larger bandwidths at higher frequency K-band applications where the conventional switches are fail to offer (Raji George et al. 2017). RF MEMS switches consists of membranes and thin films of dielectric material such that the performance of the device depends on structural dimensions and the material selection.

Few researchers, have achieved the low actuation voltage of 14–16 V by considering the serpentine cantilever string structure at the ends of the beam and 3 µm gap between the actuation electrodes and beam (Peroulis et al. 2003). Based on the configuration the MEMS switches have been designed as a series and shunt structures with cantilever and fixed–fixed beam (Rebeiz and Muldavin 2001). A light weight membrane with non-uniform menders and the perforations will help the switch to reduce the actuation voltage (Guha et al. 2016). Because of perforations, the overall mass of the membrane is not supposed to be less than one-third of initial mass, i.e., mass of membrane, and the membrane may be fatigue (Sharma et al. 2017). The switching time of the switch mainly depends on the actuation technique and membrane material. Perforation to the top electrode will ease the electrostatic actuation of the membrane which will help to reduce the switch settling time (Philippine et al. 2013). The upper limit of

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Reducing packet dropping attacks in Manets using auditor and one hop approach

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Keywords:
manet, detection, delivery ratio, one hop, auditor, prevention,watchdog

ABSTRACT

Mobile Ad hoc Network (MANET) is an autonomous, wireless network of mobile devices with dynamic infrastructure. Despite its wide-ranging applications, MANETs are prone to network attacks eventually leading to denial of service attack resulting in packet loss. Blame it on the basic routing protocols such is their design assuming there are no malicious nodes in the network making them vulnerable to either black hole or gray hole attacks. Detection and elimination of malicious nodes involved in the packet forwarding process, is quite a challenge. Down the ages different methods have been employed for the same such as the credit based, trust based, auditing based and end to end based each having its own drawbacks. Aimed at improving the delivery ratio of packets in the network, the proposed method combines one hop with auditor for attack prevention and detection and watchdog mechanism can be combined with auditor node which identifies malicious nodes, so that there is a high level of security in adhoc networks. By taking an extra hop of traversal a situation is created where the malicious nodes tend to drop its own packets while the auditor tries to key out nodes which are malicious leading to its subsequent elimination.

1. INTRODUCTION

Mobile Ad hoc Network (MANET) is a wireless network for communication among mobile devices. Routing protocols in MANET are been classified into reactive and proactive routing protocols. One most important characteristic of MANET is that they can form a network when needed at ease without any centralized node for controlling the different nodes that are present in the network. Each of these nodes can act as both router and host. Network is maintained by the individual nodes present. The mobile nodes present in the network is very limited to the range each nodes can transfer the information, so one or more nodes are needed in the successful delivery of the packet to the destination, therefore packets usually take multiple hops. The nodes between the sender and receiver are normally called as the intermediate nodes. These intermediate nodes act as a router in the packet forwarding process between the sender and the receiver. As there are much advancements in the field of MANETs, they are been used in different areas because of their ease of implementation, but they are also vulnerable to many attacks. The vulnerability was mainly due to the design method in the popular MANET protocols like Ad hoc on-demand distance vector

(AODV) [1] protocol and the dynamic source routing (DSR) [2] protocol. Both these protocols are designed in such a way that, it assumes that there are no malicious nodes in the network and routing takes place considering all the nodes as normal nodes even when there are malicious nodes in the network. This packet dropping attack exploit the shortest route concept in the packet forwarding process and advertise itself having the shortest path to the destination and drops the packet.

Over the years, different routing protocols have emerged. Some of the methods include the trust based, end to end acknowledgment based, credit based and auditing based methods. Each of the method uses different techniques and methods for detecting the malicious node. The maliciously identified nodes are eliminated from the network after detection.

These above methods perform fair in the detection and elimination of malicious node from the network from further forwarding of packets through the malicious node when comparing with the basic AODV and DSR protocols. Even though the existing methods are capable of detecting the malicious nodes and eliminating those nodes, these methods are not capable in the preventing the malicious nodes from the network. This work aims the prevention of the packet dropping attack. The prevention of malicious attack is carried out by taking an extra one hop in the packet forwarding process when the malicious node launch a cooperative attack in the network and an auditor method is combined with the one hop method to detect the single malicious attacks. The advantage of the proposed method is that the malicious nodes may suffer from dropping its own packets and thus forcing the malicious nodes to take participate in the packet forwarding process together with the detection of malicious nodes. This can eventually lead to the depleted number of malicious nodes present in the network when comparing with the existing protocols. This method therefore focuses on increasing the delivery ratio.

The analysis of the work is carried out in the ONE simulator [3]. One simulator uses different movement models for generating the node movement. Mobility and message passing can be visualized real time using its graphical user interface.

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An Efficient System for Secret Information Sharing Through SPIHT Coding and Zigzag Scanning

Yelisela Rajesh, Guruprakash.CD

Abstract— Starting late, the transmission of data through structure is growing rapidly, which gives minute access or scattering of bleeding edge data. Secret information sharing is the basic subject in the field of correspondence progress, information security and age. At any rate security can be introduced from various perspectives like transmitting question state, picture stowing unendingly, watermarking framework, certification and seeing confirmation. Many secure and amassed data things like military maps and business noticeable bits of check are sent over the web. While using conundrum records (pictures, content, etc.) for sending over the framework, the security issue is to be considered, since there is a chance of taking the riddle information by the item works by excellence of delicate relationship in the open structure. In order to deal with the security is sue of riddle information, we need a fitting secure count by which we can avow our data over the web. With the help of Visual Cryptography, the system visual information can be securely sent over the web.

Keywords: Visual cryptography, Security, Watermarking

I. INTRODUCTION

It is the claim to fame of sending and getting encoded messages that can be unscrambled just by the sender or the recipient. Encryption and unraveling are made by using numerical estimations with the target that no one yet the proposed recipient can unscramble and take a gander at the message. VCS puzzle sharing game-plan was appeared by Naor and shamir[8], the puzzler picture is part up into number of offers and transmit to the proportion of individuals. A visual puzzle sharing approach is a framework used to encode the enigma picture by splitt ing the contemplations into a few piece and pass on it into the relating individuals. A colossal measure of qualified individuals can almost certainly recoup the secret picture by covering the contemplations in right . T he essential piece of their strategy is that the conundrum picture can be decoded just by the human visual structure without swinging to any sublime figuring [9,10]. Critical section of visual cryptography scheme (VCS) is that it does not need mathematical computation to get the original secret [11,12]. During the past decade, Visual Secret Sharing (VSS) has attracted the attention of many researchers. Some of the literature has been related to the construction of a visual secret scheme [13, 14]. Based on the concept of sharing composed puzzle pictures, masters have ex - tended the visual inquiry sharing hope to suit the sharing of decrease secret pictures [15, 16, 17, 18] and shading enigma pictures [19, 20, 21, 22]. T here have been different cases of joining into secret information sharing and Detection. Question sharing structures have a spot with the more vital region of information covering that consolidates watermarking [23, 24]. Recursive hidin g of insider surenesses is proposed in [25, 26, 27-29]. T he thought included is recursive stowing ceaselessly of progressively unassuming puzzlers in offers of increasingly vital advantaged bits of data with secret sizes creating at every improvement. While the course of action showed up in [25] is a non-edge plan, plots in [26, 27 - 29] are edge plans. Correspondingly, in shading visual cryptography the offers made is striking. T he visual release sharing joined secretes is cleared up in [30]. To the degree the proportion of offer baffle pictures, the creation has been recently stressed over sharing only a particular secret picture. Notwithstanding, it wo uld be basic to have the capacity to share more than one puzzle picture meanwhile. Plainly, it is useful to develop a visual riddle sharing strategy for various insider surenesses

II. LIT ERAT URE SURVEY

Diverse emanate sharing systems have been proposed in the making using visual cryptography and their elucidations are recorded around there. Peng Li et al. [1] have cleared up the Sharing more information in decrease visual cryptography scheme.Visual cryptography scheme (VCS) shares a parallel question picture into a few twofold shado ws a d the riddle picture can be obviously revealed by stacking qualified shado ws without check. From the point of view of sharing riddle information, VCS was not sensibility because of the giant size movement and low visual quality. Here, they cleared up a general reduce visual cryptography plot, which was share more information, called Sharing More Information Gray Visual Cryptography Scheme (SMIGVCS). All the shadow pixels of VCS em bed additional information to make decrease shado ws of SMI GVCS, and the embedded information starts from the shadows of a polynomial-based secret sharing scheme (PSSS).. In the basic framework, a diminish problem picture is clearly decoded by stacking qualified shado ws, and more information was revealed by count.

Likewise, Yu-Chi Chen et al. [2] have secluded the criticalness of deluding slaughtering activity and exhibited a6 International Journal of Pure and Applied Mathematics Special Issue attestation based deluding want plot. T his approach was made with Naor-Shamir"s VC plot. T hi

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A Novel approach on Encryption and Decryption of a Message on Android Mobile Phones (Secure SMS Android App)

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Abstract : Encryption is of prime importance when confidential data is transmitted over the network. The suggested system is concerned with applying software engineering techniques to Cryptographic systems. The Objective is that the Java developer can easily understand and use the resulting system with minimal knowledge of the underlying machinery. In order to improve the security of the 'Private Information'. We have developed an application on Android platform which allows the user to encrypt the messages before it is transmitted over the network. We have used the Advanced Encryption Standards algorithm for encryption and decryption of the data. This application can run on any device which works on Android platform. This application provides a secure, fast, and strong encryption of the data. There is a huge amount of confusion and diffusion of the data during encryption which makes it very difficult for an attacker to interpret the encryption pattern and the plain text form of the encrypted data. The messages encrypted by the developed application are also resistant to Brute-Force and pattern attacks. The various uses of this application in real life and its functionality are explained in this paper.

Keywords: SMS, RSA Algorithm, Mobile Application, Encryption, Decryption.

I. INTRODUCTION

Android is most widely used mobile platform at present. we are developing an Android Application to provide the security to the messages. Messages may contain personal information such as passwords, pin no's and so on which are to be exchanged between authorized users. There may be a chance that an unauthorized person can access the information. In our application we are providing Encryption and decryption techniques to provide data security, data privacy, data confidentiality, so that the only authorized person can access the information. Cryptographic algorithms continue to evolve as the discovery of weaknesses in each of these methods. The cryptographic algorithm consists of modern and classic. In modern algorithms, the key used was twofold symmetrical and asymmetrical. The symmetric key is the key used for encryption and decryption using the same key while the asymmetric uses two different keys in the encryption and decryption process. The RSA algorithm was publicly described in 1977 by Ron Rivest Adi Shamir, and Leonard Adleman at MIT; the letters RSA are the initials of their surnames, listed in the same order as on the paper. MIT was granted U.S. Patent 4,405,829 for a "Cryptographic communications system and method" that used the algorithm, on September 20, 1983. Though the patent was going to expire on September 21, 2000 (the term of patent was 17 years at the time), the algorithm was released to the public domain by RSA Security on September 6, 2000, two weeks earlier. Since a paper describing the algorithm had been published in August 1977,[3] prior to the December 1977 filing date of the patent application, regulations in much of the rest of the world precluded patents elsewhere and only the US patent was granted. Had Cocks' work been publicly known, a patent in the US might not have been possible, either from the DWPI's abstract of the patent.

The system includes a communications channel coupled to at least one terminal having an encoding device and to at least one terminal having a decoding device. A message-to-be-transferred is enciphered to cipher text at the encoding terminal by encoding the message as a number M in a predetermined set. That number is then raised to a first predetermined power (associated with the intended receiver) and finally computed. The remainder or residue, C, is... computed when the exponentiated number is divided by the product of two predetermined prime numbers (associated with the intended receiver).Clifford Cocks, an English mathematician working for the UK intelligence agency GCHQ, described an equivalent system in an internal document in 1973.His discovery, however, was not revealed until 1998 due to its top-secret classification, and Rivest, Shamir, and Adleman devised RSA independently of Cocks' work. The RSA algorithm involves three steps: key generation, encryption and decryption.

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A Novel cloud Resource Allocation and load balancing framework using non-linear optimization constraints

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Abstract— As the size of the cloud computing resources and services increases, it is difficult to handle load balancing due to computational cost and time. Since, most of the cloud service providers have their own type, type and price policies for computing resources, including other service features. Since, computational time and memory of the existing cloud scheduling models are not efficient in realtime cloud environment .The load balance between cloud resources ensures an efficient utilization of the physical infrastructure while minimizing runtime However, the main problem to the cloud service provider's is optimizing cloud service parameters such as reliability, flexibility, time limits and the task refusal rate. In order to overcome the cloud resource allocation and scheduling problems a novel cloud resource allocation and load balancer framework is used to improve the cloud allocation issues. Experimental results proved that the present load-balancing model has better performance than the traditional load balancing approaches on various cloud resources.

Keywords—Cloud resource allocation, load balancer, non-linear optimization.

I. INTRODUCTION

Now-a-days, scheduling of computing resources has become the major concern of different research scientists. It has the basic objective of reducing the task completion time significantly. In case of supercomputers, multi-processor scheduling involves different numbers of parallel processors having equivalent capacity. Apart from this, the data source is required to be centralized and interlinked with the help of a high speed channel among various processors. In the above scenario, the activities can transfer messages easily and more quickly. Computer networks involve clusters of homogeneous computers in order to behave just like a multiprocessor computer having distributed data sources. Along with the latest advancements of computer networks, the connecting links in between various computing entities have become faster. Here we can mention that, the latest applications require extended bandwidth, large storage and exchange of huge volumes of data. There are two important applications such as, multimedia and e-Science hose require huge volume of data. It is very much necessary to achieve better performance and quality of service. Now-a-days, the popularity of customized, high quality products along with quick delivery is forcing different organizations to upgrade their traditional production process. Hence, latest management and control systems can be implemented in order to achieve better efficiency, robustness, responsiveness, agility and re-configurability. The enhancement of sustainability and maintainability of manufacturing processes has become the prime concern of various researchers presently. Therefore, implementation of cloud services is very much beneficial. The process of digital transformation or digitization can be defined as a specific kind of process in which the interaction among physical and informal entities exists. The complete process of digital manufacturing can also be defined as a combination of supply, production and delivery within a networked organization. Presently, cloud platforms are considered as the most cost efficient platforms and these are suitable for numbers of different real world applications just like engineering and scientific applications. These above said applications mostly involve numbers of different processes or tasks in order to construct a workflow. These workflows are represented by Directed-Acyclic Graph. In a workflow diagram, different tasks are interlinked through directed edges in order to represent the data dependency among various tasks. These constraints are known as precedence constraints. Every individual task is executed by considering the starting data inserted through workflow or data inserted through the parent tasks. Basically, tasks of a particular workflow are mostly scheduled in nature. These tasks are usually executed in the distributed form across multiple processing elements without violating precedence constraints.

Since last decade, the media streaming services have become more popular on internet. There exist very high demands of dynamic videos from all over the world. As compared to the conventional large server clusters, geo-distributed clouds are more scalable and feasible in nature. Hence, geo-distributed clouds are considered as the perfect solution. The major objective of cloud is to dynamically composing and optimizing the necessary services at lower costs which is not at all possible in case of dedicated servers. Most of the media service providers implemented cloud computing as a large-scale content distribution infrastructure because of the elasticity in case of dynamic resource management process. The service providers usually set up various data centers at different places. The media streaming system has the responsibility to provide better services near to the actual customers. In case of static contents, content delivery networks are the better and feasible option as compared to cloud. Most of the latest CDN follow the pay-as-you-go pricing schemes. Hence, the service provider is only required to pay for whatever they

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Optimization of Shell and Tube Heat Exchanger Design in Organic Rankine Cycle System Using Kinetic Gas Molecule Optimization

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Abstract: Among various types of heat exchanger, Shell and Tube Heat Exchanger (STHX) is highly used in the industrial application. The thermal efficiency of the heat exchanger is considered as a major factor for many applications. A considerable amount of heat is present in the low-temperature geothermal heat source, which is not sufficient to generate the electricity due to its low temperature. Many researches have been made to increase the thermal efficiency of the exchanger by the using of Organic Rankine Cycles (ORC). In this research, the Kinetic Gas Molecule Optimization (KMGO) is used to find the optimized parameter settings for the power plant. The geothermal ORC system is developed in the simulation and other various factors are considered to optimize the performance. The TEMA NFN STHX with a double-segmented baffle is analyzed for single-phase flow model. The different aspects such as baffle cut, baffle leakage, etc., are given as input to the heat exchanger. The proposed technique is evaluated with two different fluids such as R245fa and R134a. The KMGO technique is based on the swarm behavior of gas molecules, which is used to provide the optimized performance. The simulated results are measured and compared it with the existing methods for validation of the performance. The outlet temperature is achieved as 64.52°C and the enhancement factor is achieved as 1.88 for the R245fa fluid in STHX. This is achieved due to the KMGO technique identifies the global minima effectively due to the kinetic gas molecules theory, which shows the high efficiency compared to the existing method.

Keywords: Double-segmented baffle, Geothermal heat source, Kinetic gas molecule optimization, Organic rankine cycles, Shell and tube heat exchanger, TEMA.

1. Introduction

A heat exchanger is a device which is used to recover the thermal energy between fluids, present at different temperature [1]. Heat exchangers are highly used in industrial applications and there are a number of heat exchangers available. The design of heat exchanger consists of many geometric and operational parameters to provide heat transfer while meeting the set of constraints [2]. The STHX is highly used heat exchanger due to its reliability, robustness and versatility. The segmental baffle is a common baffle in the STHX that is highly used in petrochemical industries, waste heat recovery, power generation, air-conditioning and so on [3]. The segmental baffles in heat exchanger provide an improvement in heat transfer of the exchanger [4]. Geothermal power generation showed strong growth in the past decades and the electrical capacity are increased 15.9% in between the 2010 and 2015 [5]. The global energy crisis and the environmental awareness, create the demand for the renewable energy and these energies are promoted by the developed countries.

The environmental awareness causes to an exploitation of technology of power generation from low-medium temperature heat sources [6]. Much research has been carried out to improve the heat efficiency of the exchanger by using ORC. There are only few studies available for the detailed optimization of the heat exchanger, in terms of efficiency and economic [7]. Artificial Bee Colony (ABC) method has been presented to the optimization of the STHX and their result showed that the ABC provided higher efficiency compared to the

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Prediction and Optimization of Machining Parameters for Cutting Al6061/MoS_2 MMC Material by WEDM Process

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Abstract: Wire cut Electric Discharge Machining (WEDM) is a vital technology which is required for high speed cutting and high precision machining to enhance productivity and accuracy for manufacturing of press tools, moulds, prototype parts and complicated contours etc. The machining system involves many input parameters effecting output. The main objective of this research is to determine the optimum values of machining parameters for attaining economical and competent performance for machining Al6061/MoS_2 Metal Matrix Composite (MMC). The MMC material was made by stir casting process and the specimen were prepared for machining as well as testing. The cutting operations were carried out on WEDM by varying the machining current on work pieces of thickness ranging from 5-80 mm. The surface roughness value was measured using Talysurf. The Material Removal Rate (MRR) was computed by measuring cutting width using profile projector. The optimal current value at which the machining is stable with high cutting speed is identified. Mathematical correlations are developed to determine the cutting parameters, the MRR and surface roughness by using Origin software. The same parameters were analyzed using RSM technique and the results were compared. The correlations developed are useful for evaluating the machining parameters for different machining situations arising out of customer requirements and machining time calculation in turn cost of machining.

Key words: WEDM, Al 6061/MoS_2 MMC, surface roughness, MRR, RSM origin, mathematical correlations

INTRODUCTION

The Wire cut Electrical Discharge Machining (WEDM) is a high precision machining process in the field of conducting and hard to machining materials. Electrical sparks have been produced between the wire electrode and work piece as another electrode. The electrodes are flushed with the de-ionized water as di-electric. The material will be cut and removed in the form of tiny particles by the way of melting and vaporization after freezing once the spark jumps between the electrodes. Figure 1 shows the schematic view of the WEDM process.

WEDM machining uses a thin single strand metal wire usually brass is fed through the work piece. The wire which is constantly fed from a spool isheld between upper and lower guides. The guides move in the X-Y plane. This gives the wire EDM the ability to be programmed to cut very intricate and delicate shapes.

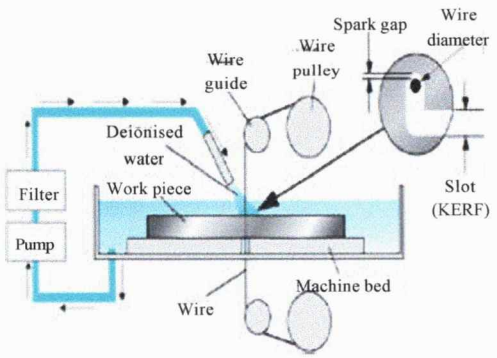

Fig.1: Machining in wire EDM

WEDM is considered as one of the most versatile process for machining intricate, complex shapes and difficult to machine materials. A number of research works has been carries out on different materials to study the

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Predictive Analytic as a Service on Tax Evasion Using Feature Engineering Strategies

S. Kishore Babu and S. Vasavi

Abstract Predictive analytics can forecast trends and determines statistical probabilities and to act upon fraud and security threats for big data applications such as business trading, fraud detection, crime investigation, banking, insurance, enterprise security, government, healthcare, e-commerce, and telecommunications. Predictive analytics as a service (PAaaS) framework is proposed in our earlier work. One solution based upon ensemble model that uses Gaussian process with varying hyper-parameters is also given in our earlier works. Test results proved that the third hyper-parameter values yielded a good result with less error rate and more variance which is reliable for a predictive model. This paper presents solution based upon ensemble model that uses best out of prediction algorithms such as artificial neural networks (ANN), auto-regression algorithm (ARX) and Gaussian process (GP). Feature engineering methods such as recursive feature elimination that uses random forest algorithm is used for attribute selection. Performance measures NRMSE and COD are used to analyze the model. Test results proved that neural networks performed well when compared to regression and Gaussian process.

1 Introduction

As explained in [1] predictive models can find relationship between outcome and dependent variables. There are six phases for predictive analytics process. In the initial phase, project is defined with outcomes, objectives, scope, and the deliverables from the project. In the next phase, data is collected from various sources and is analyzed. This analysis requires strategies for preprocessing such as data cleaning, transformation, and data modeling so that useful data is extracted for further processing. Subsequently, validate the initial hypothesis using statistical

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Visualization of Feature Engineering Strategies for Predictive Analytics

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S. Vasavi, VR Siddhartha Engineering College, Vijayawada, India

ABSTRACT

Predictive analytics can forecast trends, determines statistical probabilities and to act upon fraud and security threats for big data applications. Predictive analytics as a service (PAaaS) framework based upon ensemble model that uses Gaussian process with varying hyper parameters, Artificial Neural Networks, Auto Regression algorithm and Gaussian process is discussed in the authors' earlier works. Such framework can make in-depth statistical insights of data that helps in decision making process. This article reports the presentation layer of PAaaS for real time visualization and analytical reporting of these statistical insights. Result from various feature engineering strategies for predictive analytics is visualized in specific to type of feature engineering strategy and visualization technique using Tableau.

KEYWORDS

Correlation, Cross Validation, Grid Plot, Heat Map, Joint Plot, Random Forest, Recursive Feature Elimination, Swarm Plot, Violin Plot

1. INTRODUCTION

As explained in Buytendijk and Trepanier's work, (2010) predictive models can find relationship between outcome and dependent variables. There are six phases for predictive analytics process. In the initial phase, project is defined with outcomes, objectives, scope and the deliverables from the project. In the next phase, data is collected from various sources and is analyzed. This analysis requires strategies for preprocessing such as data cleaning, transformation and data modeling so that useful data is extracted for further processing. Subsequently validate the initial hypothesis using statistical models. The next phase is predictive modeling for forecasting the future. Results after implementation can be deployed for using it in the day to day decision making. The last phase is, monitoring the model in order to ensure that it is providing the expected results. Performance of computing layer of our framework is described in Babu, Vasavi, and Nagarjuna (2017) (Babu, & Vasavi, 2018). This layer finds, which of the algorithms such as Artificial Neural Networks (ANN), Auto Regression algorithm (ARX) and Gaussian process (GP) is better for income tax dataset to identify fraud in the projected tax values. Feature Engineering is the way toward changing crude information into features that better represents to the basic issue to the predictive models, bringing about enhanced model accuracy on unseen information. The execution of machine learning strategies is intensely dependent on the selection of data representation on which they are connected. Hence, a great part of the actual effort in deploying machine learning. Calculations goes into the plan of preprocessing pipelines and information changes that outcome in are introduction of the information that can support successful

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INVERSE DOMINATION IN FUZZY PLANAR GRAPHS

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June 22, 2018

Abstract

This paper is a study about Inverse domination in fuzzy planar graph. Various properties of Inverse domination in fuzzy planar graph are obtained. Also Inverse domination in strong fuzzy planar graph is also studied. Many results are established.

Keywords: Fuzzy graphs, fuzzy planar graphs, Domination in fuzzy planar graph, Inverse Domination in fuzzy planar graphs.

STUDY OF VARIOUS DOMINATIONS IN REGULAR FUZZY GRAPHS

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Andhra Pradesh, India

ABSTRACT

In this paper we study about dominations in regular fuzzy graphs. A set $D \subseteq V$ is said to be fuzzy dominating set of G, if every $v \in V - D$ there exist $u \in D$ such that u dominates v. We discuss the concept of regular split and non split domination in fuzzy graphs, regular connected domination in fuzzy graph, totally regular domination in fuzzy graphs and discuss their properties. Prompt some applications on them like as computer communication network, social network theory.

Keywords: Regular domination, regular connected domination, regular split and non split domination, inverse regular connected domination.

AMS Classification: 05C72, 05C75

Introduction:

The concept of fuzzy sets and fuzzy relations was introduced by L.A. Zadeh in 1965 [1]. His aim was to develop a mathematical theory to deal with uncertainty and imprecision. The distinction between the set and fuzzy set is that the set divide the universal set into two subsets,

VIT

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

7th Mar. 2019

To

Dr. Sr Candy D' Cunha
Associate Professor
ALIET, Vijayawada

Dear Dr. Sr Candy D' Cunha

Greetings from Academic Staff College!

We sincerely thank you for facilitating Faculty Development Programme on "Professional Excellence" on 7th Mar. 2019.

Your session was well appreciated by the participants.

We wish to organize many more FDPs of this kind in the days to come.

Expecting your continued support.

With best wishes,

Dr. B. Prabu Christopher
Assistant Director
Academic Staff College
Vellore Institute of Technology
(Deemed to be University under section 3 of the UGC Act, 1956)
Vellore – 632014, Tamilnadu, India

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CCL/HRD/Training **Date: 27-07-2018**

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the Finance project titled **"A STUDY ON FUNDS FLOW STATEMENT"** has been successful completed by **Ms. THANNEERU DEEPIKA (Reg. No: 17HP1E0004)** studying Master of Business Administration in **ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY,** Vijayawada, Krishna Dist. Affiliated to JNTU Kakinada, Her work from **25th June 2018 to 24th July 2018** was satisfactory.

For CCL Products (India) Limited

K. Srinivasa Rao
Manager - Personnel

Stroke
LUBRICANTS

Date: 05-07-18,
Hyderabad.

To,
The Head of Dept.
MBA,
Andhra loyola institute of Engineering
and technology,
VIJAYAWADA.

This is to inform that ch.Sunil bearing Reg.no 17HP1E0052 have appiled to work as an intern with our firm from 28-6-2018 to 30-7-2018 .This is to notify that his request has been accepted and we take immense pride in supporting thoughout his learning process.

Plot.no: C-25, film nagar road.no-8, jublihills, Hyderabad 500033.
Ph: +91 9912420501, +91 8639369121.
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NIDAMANURU, VIJAYAWADA - 521 104, ☎ : 2842396, 2842777

CERTIFICATE

This is to certify that this project work entitled " A study on Financial statement Analysis of Model Dairy, Vijayawada." Is a bonafied work done and submitted by P. Siva Lalitha in partial fulfilment of the requirements for the award of the degree of MASTER OF BUSINESS ADMINISTRATION ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY ,VIJAYAWADA is a record of bonafied work carried out by her under my guidance.

P. Satya

Place (P. Satya Vani)

NIDAMANURU, VIJAYAWADA [ATHORIZED SIGNATURE]

25.07.2018

MODEL DAIRY PVT. LTD. NIDAMANURU VIJAYAWADA

Date: 31/07/2018

To,
The Principal,
ANDHRA LOYOLA INSTITUTE OF ENGINEERING&TECHNOLOGY
VIJAYAWADA.

SUB:- Project Completion Letter

Sir,

This is to certify that Mr. LUKKA HANUMARAM wide Regd. No. 17HP1E0032 course of Master of Business Administration (MBA) has successfully completed the project titled " **CUSTOMER SATISFACTION** in MARKETING" for the period of 30 days from 01-07-2018 to 31-07-2018 in our organization.

During this period he complete his project training with conduct and commendable.

We wish him all the best and success.

Thanking You

with Regards
Santosh Automotives

Authorised Signatory.

SANTOSH AUTOMOTIVES, # 48-17-4, NH - 5, Main Road, Nagarjuna Nagar,
Opp. NTR Health University, Gunadala, **VIJAYAWADA -4,**
Phone : 0866-2544979, Email:santoshautomotivesvja@gmail.com

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☎ : 08676-232001/02, Fax : 08676 232640, E-mail : vjwkcpvyn@gmail.com

Ref:HR&S/Proj/18

Date:-04th August 2018

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. YARRAGUNTLA AJAY (Regd. No. 17HP1E0028)**, MBA student of ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY, Vijayawada, who was permitted for project work A Study on **"RATIO ANALYSIS"** in our organization had completed the same from from 26-06-2018 to 28-07-2018.

For K C P Sugar and Industries
Corporation Limited

VUYYURU
521 165

MANAGER (HR & ADMIN)

Omega Hospitals

Date:20-08-18

To,

The principal,

ANDHRA LOYOLA INSTITUTE OF ENGINEERING & TECHNOLOGY,

VIJAYAWADA.

Sub: Project completion letter

Sir,

This is to certify that Mr. SURE KUMAR SANDEEP wide Regd.NO:17HPIE0039 course of Master of Business Administration (MBA) has successfully completed the project titled "EMPLOYEE WELFARE in HUMAN RESOURCE MANAGEMENT" for the period of 30 days from 25-06-2018 to 28-07-2018 in our organization.

During this period he completed his project training with conduct and commendable.

We wish him all the best and success.

With Regards

Omega Hospitals

Authorized signatory

OMEGA HOSPITALS (I) PVT. LTD. HR DEPARTMENT