18 18-19

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. K. Satyanarayana
2. Designation : Asst. Prof
3. Department : EEE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Control Engineering
5. Date & Duration of the Program : Jan - April 2019
6. Associating Professional Body / Agency : NPTEL
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 30.3.19

K. Satyanarayana
Signature of the Staff Member

1. Recommendations of the HOD : Recommended
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA

Account Department

Accountant:

Date: 02-04-2019

15-19

No.

VOUCHER

Date 02-04-2019

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 0866 - 2843839

Name of A/c Faculty development programe

Paid to K. Satyanarayana (EEE) Cash/Cheque 400/-

the Sum of Rupees Four hundred rupees only

Towards FDP

Prepared by

Approved by

Audited by

₹ 400/-

K. Satyanarayana
Receiver Signature

Roll No:NPTEL19EE30S42260224

To SATYANARAYANA KANULLA
S.R.K.INSTITUTE OF TEHNOLOGY
VIJAYAWADA

1271

Duration of NPTEL course: 12 Weeks

No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

NPTEL-AICTE
Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

SATYANARAYANA KANULLA

for successfully completing the course

Control Engineering

with a consolidated score of **48** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Apr 2019)

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL19EE30S42260224

To validate and check scores: http://nptel.ac.in/noc

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

1849 19

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. B. Rudraja
2. Designation : Asst prof
3. Department : EEE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Recent Advances in transmission insulators
5. Date & Duration of the Program : Aug – Sep 2018
6. Associating Professional Body / Agency : NPTEL
7. Financial support particulars :
   i. Registration Charges : 400/-
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 29-9-2018 Signature of the Staff Member

1. Recommendations of the HOD : ----------
2. Recommendations of the Principal : ---------- *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 1-10-2018

No.

VOUCHER

Date 01/10/18.

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programe.

Paid to B. Indraja (EEE) *Cash/Cheque* 400/-

the Sum of Rupees Four hundred rupees only.

Towards Work shop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

Roll No:NPTEL18EE17S22140200

To

S.R.K.INSTITUTE OF TEHNOLOGY
VIJAYAWADA

48/1271

Score	Type of Certificate
>=90	Elite + Gold Medal
60-89	Elite
40-59	Successfully Completed the course
<40	No Certificate

No. of credits recommended by NPTEL:1

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

BODEM INDRAJA

for successfully completing the course

Recent Advances in Transmission Insulators

with a consolidated score of **56** %

Online Assignments	12.50/25	Proctored Exam	43.5/75

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Total number of candidates certified in this course: **390**

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Aug-Sep 2018
(4 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore

Indian Institute of Science Bangalore

FREE ONLINE EDUCATION swayam

81 21 17-18

No. 24

VOUCHER

Date 20/12/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. Faculty development prog name.

Paid to B.V.S.S. Subba Rao (MBA) Cash/Cheque 1500/-

the Sum of Rupees One thousand five hundred rupees.

Towards Conference.

Prepared by

₹ 1500/-

Approved by

Audited by

Receiver Signature

An Empirical Analysis of Members Perception on Empowerment after Joining in SHGs

B.V.S.S. Subba Rao*1, G. Kiran*2

* *Department of Business Administration, SRK Institute of Technology, Enikepadu, Vijayawada, A.P., India*

[1] bvsss_rao@yahoo.co.in

[2]kiran_garimella@rediffmail.com

Abstract — Micro Finance is emerging as a powerful tool for poverty alleviation in the economy. In India, micro finance scene is dominated by SHG-Bank linkage Programme as a cost effective mechanism for providing financial services to the 'unreached poor'. Self-help groups (SHGs) have emerged as an effective mechanism of empowerment as well as being an efficient mode of technology dissemination. Micro finance programme has a positive impact both on economic and social empowerment of women members along with reduction in poverty. The relevance of SHGs as powerful instruments of social, political and economic empowerment of women has also been unanimously accepted in many studies. There are many studies have been conducted on empowerment of women in self help groups across the country from time to time. This paper sheds a light on Members perception on empowerment after joining in SHG's in Eluru.

Keywords — Micro Finance, Self Confidence, Decision Making Skills, Economic improvement.

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222 22 2018-19

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. G. Sivaram
2. Designation : Asst. Prof.
3. Department : MBA
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : (TRINCO) 3rd International Research Conference
5. Date & Duration of the Program : 16 & 17th August 2018.
6. Associating Professional Body / Agency : TRINCO - 2018.
7. Financial support particulars :
   - i. Registration Charges : 1500/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 14/12/18.

Signature of the Staff Member

1. Recommendations of the HOD :
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
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Account Department

Accountant:

Date: 17/12/18.

22 96 18-19

No. 25

VOUCHER

Date 17/12/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programe.

Paid to G. Kiran (MBA) Cash/Cheque 1500/-

the Sum of Rupees One thousand five hundred rupees only.

Towards Conference.

Prepared by

₹ 1500/-

Approved by

Audited by

Receiver Signature

(25)

Eastern Provincial Council

UN VOLUNTEERS Sri Lanka

UN Volunteers

Trincomalee Campus
Eastern University, Sri Lanka
3rd International Research Conference

TRInCo 2018

On

Glocalization:
Unleashing Potential, Harnessing Opportunities and Embracing Change

This is to certify that Rev./Prof./Dr./Mr./Ms. **G.Kiran** has presented a paper titled

"An Empirical Analysis of Members Perception on Empowerment after joining in SHGs"

in the 3rd International Research Conference on 'Glocalization: Unleashing Potential, Harnessing, Opportunities and Embracing Change' organized by Trincomalee Campus, Eastern University, Sri Lanka in partnership with The Eastern Provincial Council and UN Volunteers Sri Lanka on 16th & 17th of August 2018.

Dr. J. S. Rohan Savarimuttu
Secretary, TRInCo 2018
3rd International Research Conference
Trincomalee Campus,
Eastern University, Sri Lanka

Dr. V. Kanagasingam
Rector,
Trincomalee Campus,
Eastern University, Sri Lanka

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22 23 2018-19

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Financial Support Request Letter

1. Name of the Staff Member : ~~Dr./Mr./Ms.~~ B VSS Subba Rao
2. Designation : Asst. Professor
3. Department : MBA
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Different Approaches of Corporate Restructuring
5. Date & Duration of the Program : 2018 August
6. Associating Professional Body / Agency : IJRDT
7. Financial support particulars :
   - i. Registration Charges : 1500/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 16/7/2018

Signature of the Staff Member

1. Recommendations of the HOD :
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

Account Department

Accountant:

Date: 18/7/2018

23

No.

VOUCHER

Date. 18/7/2018

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. Faculty development programe.

Paid to B V S S Subba Rao (MBA) *Cash/Cheque* 1500

the Sum of Rupees One thousand five hundred rupees only.

Towards Paper Publication.

Prepared by

₹ 1500/-

Approved by

Audited by

B V S S Subba Rao

Receiver Signature

INTERNATIONAL JOURNAL FOR RESEARCH & DEVELOPMENT IN TECHNOLOGY

Volume-10,Issue-2(Aug-18)
ISSN (O) :- 2349-3585

Different Approaches of Corporate Restructuring

Dr. M. Veerabhadra Rao[1], B.V.S.S. SUBBARAO[2]

[1]Professor, MBA DEPARTMENT, SRK INSTITUTE OFTECHNOLOGY, VIJAYAWADA, [2]Research Scholar, Krishna University, Machilipatnam

Abstract:The 1980's bore witness to a decade of aggressive mergers, acquisitions and takeovers. The mergers and acquisitions scenario is hotting up in India. The corporate are being concerned at cocktail parties by people who are eager to explain their system for making creamy profits by investing in common stock. Fortunately, these bores go into temporary hibernation whenever the market goes down. Corporate restructuring, out of all emerging concepts of findings ways to serve shareholders better, has been a very successful concept abroad and its been followed all the more in high context cultures like India. This paper majorly focuses on various approaches are available for corporate restructuring in the context of Indian business environment.

Keywords: Globalisation, Liberalisation, Restructuring, Mergers.

Introduction :

There are a number of factors depicting the significance of this study. All innovations and inventions in terms of corporate and principles happen abroad, and then are being carried to Indian environment. Corporate restructuring, out of all emerging concepts of findings ways to serve shareholders better, has been a very successful concept abroad and its been followed all the more in high context cultures like India. The rapidity with corporate finance due to external factors like increased price volatility, a general globalisation of the markets, tax asymmetric, development in technology, regulatory change, liberalisation, increased competition and reduction in information and transaction costs and also intrafirm factors like liquidity needs of business, capital costs and growth perspective have lead to practice of corporate restructuring as a strategic move to maximise the shareholder's value. The "Corporate restructuring" is an umbrella term that includes mergers and consolidations, divestitures and liquidations and various types of battles for corporate control. The essence of corporate restructuring lies in achieving the long run goal of wealth maximisation. This study is an attempt to highlight the impact of corporate restructuring on the shareholders value in the Indian context. Thus, it helps us to know, if restructuring generates value gains for shareholders (both those who own the firm before the restructuring and those who own the firm after the restructuring), how these value gains have be created and achieved or failed. Further, it will also focus on issues involving ownership and controls. This leads logically to the subject of leveraged buyouts. It was during 1980s that many of the new tools which made leveraged buyouts possible, including high yield or junk bonds, found favour. Last year, M&A activities were largely restricted to IT and telecom sectors. They have now spread across the economy. As Business world recently reported, this is the fourth wave of corporate deal-making in India. The first happened in the 1980s, led by corporate raiders such as Swaraj Paul, Manu Chhabria and R P Goenka, in the very early days of reforms. In view of the license raj prevailing then, buying a company was one of the best ways to generate growth, for ambitious corporates. In the early 1990s, in the liberalised economy, Indian business houses began to feel the heat of competition. Conglomerates that had lost focus were forced to sell non-core businesses that could not withstand competitive pressures. The Tatas, for instance, sold TOMCO to Hindustan Lever. Corporate restructuring, largely drove this second wave of M&As. The third wave started about five years ago, driven by consolidation in key sectors like cement and telecommunications. Companies like Bharti Tele-Ventures and Hutch bought smaller competitors to establish a national presence. What makes the most recent wave of M&As different from the three previous ones is the involvement of global players. Foreign private equity is coming into Indian companies, like Newbridge's recent investment in Shriram Holdings. Multinational corporations are also entering India. Swiss cement major Holcim's investment in ACC and Oracle's

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. D.V.V. Brahmachari (MCA)
2. Designation : Asst. professor
3. Department : MCA
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : NPTEL - Introduction to Machine Learning
5. Date & Duration of the Program : Aug - oct 2018
6. Associating Professional Body / Agency : NPTEL
7. Financial support particulars :
   - i. Registration Charges : 500/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 21/02/2018 Signature of the Staff Member

1. Recommendations of the HOD : Dyantha
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date:

No.

VOUCHER

Date 02/08/2018

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty Development program

Paid to D.V.V. Brahmachari (MCA) *Cash/Cheque* 500/-

the Sum of Rupees Five Hundred rupees only

Towards FDP

Prepared by

₹ 500/-

Approved by

Audited by

Receiver Signature

Roll No:NPTEL18CS40S12160331

To S.R.K.INSTITUTE OF TEHNOLOGY
VIJAYAWADA

1271

Duration of NPTEL course: 8 Weeks

No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

NPTEL-AICTE
Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

DAKOJI VENKATA VISWA BRAHMACHARI

for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **60** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Aug-Oct 2018)

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL18CS40S12160331

To validate and check scores: http://nptel.ac.in/noc

PRINCIPAL

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

18-19 S6

SRK INSTITUTE OF TECHNOLOGY

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. M. Anitha.
2. Designation : Asst. Professor
3. Department : MCA
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Software Engineering
5. Date & Duration of the Program : July 2018 to October 2018 (4 Months)
6. Associating Professional Body / Agency : NPTEL
7. Financial support particulars :
   - i. Registration Charges : 500/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 30.6.2018 Signature of the Staff Member

1. Recommendations of the HOD : Drawtee
2. Recommendations of the Principal : PRINCIPAL SRK Institute of Technology ENIKEPADU, VIJAYAWADA-521 108 *Sanctioned / Not Sanctioned

Account Department

Accountant: Nil

Date:

No.

VOUCHER

Date. 05/07/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. Faculty development program

Paid to M. Anitha (MCA) Cash/Cheque 500

the Sum of Rupees Five Hundred rupees only

Towards FDP

Prepared by

₹ 500/-

Approved by

Audited by

Receiver Signature

NPTEL-AICTE
Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

M.ANITHA

for successfully completing the course

Software Engineering

with a consolidated score of **56** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Oct 2018)

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Develop
All India Council for Technical Education

Roll No: NPTEL18CS43S22140106

To validate and check scores: http://nptel.ac.

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation p
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

18+19 50

SRK INSTITUTE OF TECHNOLOGY
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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. D. V. V. Brahma Chari
2. Designation : Asst. Prof
3. Department : MCA
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : NPTEL Data Science for Engineer
5. Date & Duration of the Program : Jan 2019 - March 2019 (3 Months)
6. Associating Professional Body / Agency : NPTEL
7. Financial support particulars :
   - i. Registration Charges : 500/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 26/12/18 Signature of the Staff Member

1. Recommendations of the HOD : Due the
2. Recommendations of the Principal : PRINCIPAL *Sanctioned / Not Sanctioned

SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date:

No.

VOUCHER

Date 28/12/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development program

Paid to D.V.V Brahmachari (MCA) Cash/Cheque 500

the Sum of Rupees Five hundred rupees only

Towards FDP

Prepared by

₹ 500/-

Approved by

Audited by

Receiver Signature

SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108
PRINCIPAL

Roll No:NPTEL19CS13S11960493

To DAKOJI VENKATA VISWA BRAHMACHARI
S.R.K.INSTITUTE OF TEHNOLOGY
VIJAYAWADA

1271

No. of weeks of NPTEL Courses	Equivalence of NPTEL course with regular FDP
4	$\frac{1}{2}$ FDP of one week
8	Full FDP of one week
12	$1\frac{1}{2}$ FDP

Duration of NPTEL course: 8 Weeks

NPTEL-AICTE
Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

DAKOJI VENKATA VISWA BRAHMACHARI

for successfully completing the course

Data Science for Engineers

with a consolidated score of **44** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jan-Mar 2019)

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL19CS13S11960493

To validate and check scores: http://nptel.ac.in/noc

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

18-19 51

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ---D. T. Ganesh Kumar---
2. Designation : ---Asst. Professor---
3. Department : ---MCA---
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : ---
   Cyslo Networking Academy Conference - India
5. Date & Duration of the Program : 11 Feb 2019 - 12 Feb 2019
6. Associating Professional Body / Agency : CISCO
7. Financial support particulars :
   i. Registration Charges : 200
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 5.2.19

Signature of the Staff Member

1. Recommendations of the HOD : ---
2. Recommendations of the Principal : ---

*Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

Account Department

Accountant:

Date:

18-19

No. **VOUCHER** Date 07/02/19

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. Faculty Development program

Paid to T. Ganesh kumar (MCA) Cash/Cheque 200/-

the Sum of Rupees Two Hundred Rupees only

Towards Conference

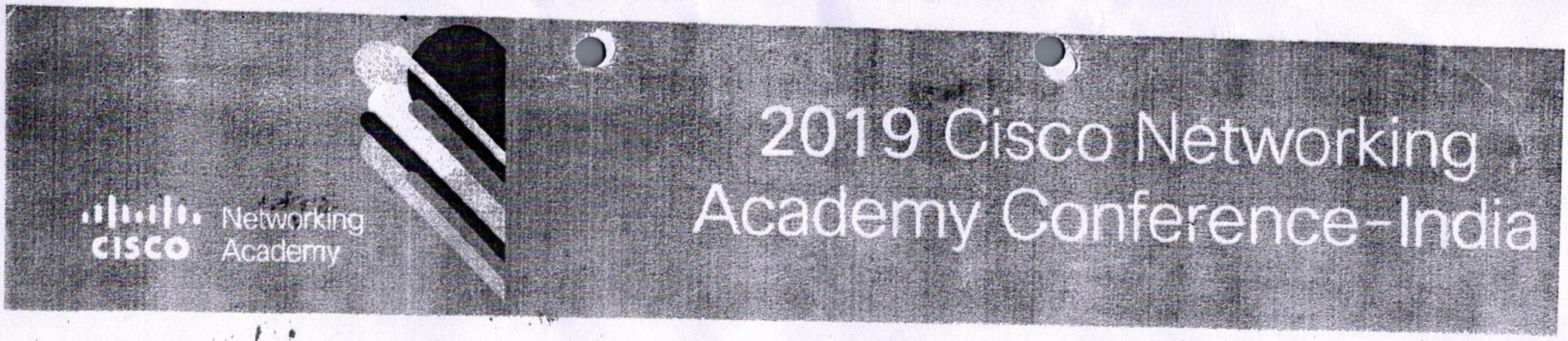
Prepared by

₹ 200/-

Approved by

Audited by

Receiver Signature



Certificate of Recognition

awarded to

Ganesh Kumar T

from

SRK Institute of Technology

for your participation in the

2019 Cisco Networking Academy Conference-India

Murugan Vasudevan
Regional Manager South Asia - Corporate Affairs
Cisco Systems, Inc.

Anuradha Sharma
Manager - Corporate Affairs
Cisco Systems, Inc.

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

Event occurred on 11th & 12th February, 2019 in Bangalore, India

18-19 40

SRK INSTITUTE OF TECHNOLOGY
Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr. ~~Mr.~~ ~~Ms.~~ N. Sridevi
2. Designation : Asst. prof
3. Department : S & H
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : "Self-Awareness and Higher goals in Education"
5. Date & Duration of the Program : 4-6-2018 to 8-6-2018
6. Associating Professional Body / Agency : IIT Madras
7. Financial support particulars :
   i. Registration Charges : 400/-
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 1-6-2018

N. Sridevi
Signature of the Staff Member

1. Recommendations of the HOD : Sadmaji
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

Account Department

Accountant:

Date: 01-06-2018

No.

VOUCHER

Date 01/6/18.

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programme.

Paid to Dr. N. Srideri (S&H) *Cash/Cheque* 400/-

the Sum of Rupees Four hundred rupees.

Towards work shop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

Teaching Learning Centre

Indian Institute of Technology Madras

This is to certify that

Dr. N Sridevi

SRK Institute of Technology, Vijayawada, Andhra Pradesh

has participated successfully in the short-term course

"Self-Awareness and Higher Goals in Education"

organized by the **Departments of Civil Engineering and Mechanical Engineering**

04 June - 08 June, 2018

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MHD FREE CONVECTIVE FLOW PAST AN IMPULSIVELY STARTED ISOTHERMAL VERTICAL PLATE UNDER THE INFLUENCE OF RADIATION AND MASS TRANSFER

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ABSTRACT

The effect of the frequency of excitation on the concentration profiles for different values of Sc have been obtained. In each of these illustrations, it is noticed that, as the frequency of excitation increases the concentration of the fluid decreases. In both these illustrations it is observed that as the Schmidt number increases the concentration decreases. When the Schmidt number Sc is held constant and as frequency of excitation ω is increased the velocity increases. The velocity profiles are found to be more parabolic for smaller values of Sc. As Schmidt number Sc increases the parabolic nature diminishes. The velocity profiles are more dispersed as Solutal Grashof number Gm increases. Further, it is seen that as Schmidt number Sc increases the velocity increases. It is also noted that for smaller values of Solutal Grashof number Gm, the velocity profiles are perfectly linear, while the situation is not so far higher values of Solutal Grashof number Gm. It is observed that as Solutal Grashof number Gm increases the velocity decreases. As the frequency of excitation increases the nature of velocity profiles is changed. Also as the magnetic intensity increases the velocity increases. It is noticed that as Solutal Grashof number Gm increases the velocity decreases. Further the profiles are parabolic in nature. It is seen that as the magnetic intensity increases the velocity decreases. Further it is seen that increases in the magnetic field suppresses the velocity profiles. In both the cases it is notice that the profiles are parabolic in nature. It is seen that as Solutal Grashof number increases the skin friction also increases. It is observed that as Solutal Grashof number increases the skin friction is found to be increasing. Further, as frequency of excitation increases the skin friction is noted to be decreasing. It is seen that, as Schmidt number increases the skin friction reduces drastically. Further it is also noticed that for a constant value of Schmidt number as frequency of excitation increases the skin friction decreases. In general, it is seen that as Solutal Grashof number increases the skin friction on the bounding surface also increases. Further for a constant value of Schmidt number and as magnetic intensity increases, the skin friction decreases. Initially, it is seen that as Schmidt number increases the skin friction increases up to 20% of the boundary layer and there after a reverse trend is noted. Subsequently it is seen that as Schmidt number increases, the skin friction decreases. It is seen that as frequency of excitation increases the skin friction reduces gradually. Further, as we move away from the boundary the skin friction appears to be very minimal.

Key words: *MHD flow, velocity profiles, skin friction, Solutal Grashof number, Schmidt number.*

NOMENCLATURE

u	:	velocity component in x – directions,
v	:	velocity component in y – directions,
u_0	:	constant velocity
t'	:	time
C'	:	concentration
g	:	acceleration due to gravity
β	:	volumetric coefficient of thermal expansion
β^*	:	volumetric coefficient of expansion with concentration
T'	:	temperature of the fluid in the boundary layer

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Spectroscopic properties of Dy^{3+} ions in $PbO-Sb_2O_3$ glasses mixed with MgO/CaO/SrO

Valluri Ravi Kumar[a,b,*], G. Nagaraju[b], M. Vidya Elizabeth[a] and D. Udaya Keerthi[a]

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[b]*Department of Physics, Acharya Nagarjuna University, Nagarjuna Nagar, 522 510, A.P., India*

Abstract

$PbO–Sb_2O_5–MgO\ CaO\ SrO: Dy^{3+}$ glasses were synthasized by using the melt quenching Technique. The influence of modifier oxide on the optical and luminescence characteristics of Dy^{3+} ions has been investigated. Using the intensities of various absorption bands of Dy^{3+} ions. the Judd-Ofelt parameters Ω_2, Ω_4 and Ω_6 have been evaluated. The luminescence spectra (λ_{exc}= 348 nm) exhibited three principal emission bands in the visible region corresponding $^4F_{9/2} \rightarrow {}^6H_{15/2}$, $^6H_{13/2}$, $^6H_{11/2}$ various radiative properties like transition probability A, branching ratio β_r and the radiative life time τ_r for various emission levels of Dy^{3+} ions have been evaluated. The values of these parameters were found to be influenced by modifier oxides. Among the three modifier oxides. the glasses mixed with CaO glasses have low non– radiative losses among the three mixed glasses are found to be reson, CaO mixed glasses exhibited the highest luminescence efficiency.

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Keywords: Dy^{3+} glasses; Modifier oxides; Luminescence quenching; Y/B ratio.

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Dy^{3+} ion is an important rare-earth ion that plays a major role in the production of white light luminescent materials. This ion is also well known due to its IR emission at 3.02 μm ($^6H_{13/2} \rightarrow {}^6H_{15/2}$) and 1.34 μm ($^6H_{11/2} \rightarrow {}^6H_{13/2}$). which are considered as potential transitions for fiber amplifiers [1-3]. Dysprosium ion exhibits two

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[b]Department of Physics, Acharya Nagarjuna University, Nagarjuna Nagar, 522 510, A.P., India

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Valluri Ravi Kumar[a,b,*], G. Nagaraju[b], M. Vidya Elizabeth[a] and D. Udaya Keerthi[a]

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[b]Department of Physics, Acharya Nagarjuna University, Nagarjuna Nagar, 522 510, A.P., India

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Prof. /Associate Prof. / Asst. Prof. / Lecutrer in / Student of Physics, S.R.K Institute of Technology Enikapadu *has Participated / Chaired a session / Delivered Invited Talk / Presented a Paper entitled*

.....

..... in the UGC sponsored Two Day National Seminar on "Recent Trends in Chemistry and Physics of Materials" organized by Department of Chemistry, S.R.R. & C.V.R. Govt. Degree College (A), Vijayawada on 15th & 16th September, 2017.

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Convener

K. Srinivas
Co-Ordinator

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1. Name of the Staff Member : Dr./Mr./Ms. D. Vidya Keerthi
2. Designation : Asst. Professor
3. Department : S&H
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Recent trends in physics & chemistry of Materials
5. Date & Duration of the Program : 15-16 Sep 2017, two days.
6. Associating Professional Body / Agency : S.R.R & C.V.R Degree college
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 05-9-2018 Signature of the Staff Member

1. Recommendations of the HOD :
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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Date: 07/09/2018

No. **VOUCHER** Date. 07/09/2018

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Towards Workshop.

Prepared by

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UGC SPONSORED TWO DAY NATIONAL SEMINAR

ON

RECENT TRENDS IN CHEMISTRY AND PHYSICS OF MATERIALS

(RTCPM - 2017)

15th & 16th September, 2017

CERTIFICATE

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Prof. / Associate Prof. / Asst. Prof. / Lecutrer in / Student of SRK Institute of technology, Dept. of physics Enikepadu *has Participated / Chaired a session / Delivered Invited Talk / Presented a Paper entitled*

Effect of Sm^{3+} ions on Spectroscopic properties of lead antimony Phosphate glasses

..... in the UGC sponsored Two Day National Seminar on "Recent Trends in Chemistry and Physics of Materials" organized by Department of Chemistry, S.R.R. & C.V.R. Govt. Degree College (A), Vijayawada on 15th & 16th September, 2017.

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. V. Prashanti
2. Designation : Asst. Prof
3. Department : S & H
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Partial Differential Equations & Analysis
5. Date & Duration of the Program : 27-28 Dec 2018, Two days
6. Associating Professional Body / Agency : P.B. Siddhartha College of Arts & Sciences
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 22-12-2018 Signature of the Staff Member

1. Recommendations of the HOD : HOD I/C
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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Date: 24/12/2018

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Date 24/12/18.

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ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

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27 - 28, DECEMBER 2018

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workshop on "PARTIAL DIFFERENTIAL EQUATIONS AND ANALYSIS" *during 27 - 28 December, 2018.*

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Prof. V. Lakshmi Prasannam
Head, Dept of Mathematics

Prof. Rajesh C Jampala
Dean

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1. Name of the Staff Member : Dr./Mr./Ms. B.V. Rama Krishna Rao
2. Designation : Asst. Professor
3. Department : S&H
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Partial Differential Equations & Analysis.
5. Date & Duration of the Program : 27-28 Dec 2018.
6. Associating Professional Body / Agency : P.B. Siddhartha College of arts & Sciences
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 22-12-2018

Signature of the Staff Member

1. Recommendations of the HOD : HOD/EIC
2. Recommendations of the Principal : Recommended

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*workshop on "***PARTIAL DIFFERENTIAL EQUATIONS AND ANALYSIS***" during 27 - 28 December, 2018.*

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Prof. V. Lakshmi Prasannam
Head, Dept.of Mathematics

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1. Name of the Staff Member : Dr./Mr./Ms. ---- S. Kalpana ----
2. Designation : ---- Asst. Professor ----
3. Department : ---- S&H ----
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : ----
   ---- Partial Differential Equations & Analysis ----
5. Date & Duration of the Program : 27-28 Dec 2018, two days.
6. Associating Professional Body / Agency : P.B. Siddhartha College of Arts & Sciences
7. Financial support particulars :
   i. Registration Charges : 400
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 22-12-2018

S. Kalpana
Signature of the Staff Member

1. Recommendations of the HOD : ----
2. Recommendations of the Principal : ---- *Sanctioned / Not Sanctioned

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of S.R.K.I.T., Enikepadu *participated in the Two Day workshop on "***PARTIAL DIFFERENTIAL EQUATIONS AND ANALYSIS***" during 27 - 28 December, 2018.*

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Head, Dept.of Mathematics

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1. Name of the Staff Member : Dr./Mr./Ms. G. Koteswaramma.
2. Designation : Asst. Professor
3. Department : S&H
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Partial Differential Equations & Analysis
5. Date & Duration of the Program : 27-28 Dec 2018.
6. Associating Professional Body / Agency : P.B. Siddhartha College of arts & Sciences.
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 22-12-2018

G. Koteswaramma
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2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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3. Department : ---- S&H ----
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   ---- Partial Differential Equations & Analysis ----
5. Date & Duration of the Program : 27-28 Dec 2018, Two days.
6. Associating Professional Body / Agency : P.B. Siddhartha College of Arts and Sciences
7. Financial support particulars :
   i. Registration Charges : 400
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 22-12-2018

S. Suman
Signature of the Staff Member

1. Recommendations of the HOD : ---- DIC
2. Recommendations of the Principal : ---- *Sanctioned / Not Sanctioned

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Accountant:

Date: 24/12/2018

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S. Suman.
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27 - 28, DECEMBER 2018

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of S.R.K.I.T., Enikepadu participated in the Two Day

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Prof. V. Lakshmi Prasannam
Head, Dept.of Mathematics

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1. Name of the Staff Member : ~~Dr./Mr.~~/Ms. S.Kalpana.
2. Designation : Asst professor.
3. Department : SE&H.
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details :
   Mathematical Archieves.
5. Date & Duration of the Program : APR 2019
6. Associating Professional Body / Agency : MA.
7. Financial support particulars :
   i. Registration Charges : 2200/-
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 12-3-2019

S. Kalpana
Signature of the Staff Member

1. Recommendations of the HOD : Endorsed
2. Recommendations of the Principal : Forwarded
3. Recommendations of the IQAC : ~~Sanctioned~~ *Sanctioned / Not Sanctioned

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Accountant:

Date: 14/3/2019

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MIXED CONVECTIVE FLOW OF A NEWTONIAN FLUID WITH PERMEABLE WALLS BY CONSIDERING THE INFLUENCE OF ACCELERATION DUE TO GRAVITY

S. KALPANA[1] AND CH. V. RAMANAMURTHY*[2]

[1]Research Scholar, Department of Mathematics,
Krishna University, Machilipatnam – 521001, (A.P.), India.

[2]Department of Applied Mathematics,
Sri Vasavi Institute of Engineering and Technology, Pedana – 521361, (A.P.), India.

(Received On: 04-10-18; Revised & Accepted On: 07-04-19)

ABSTRACT

In this paper, the situation of Mixed Convective Flow of A Non-Newtonian Fluid with permeable walls by considering the influence of acceleration due to gravity has been examined in detail. It is noticed that, as Prandtl number increases the temperature also increases. Not much of significant change is observed when the radiation parameter (R) is slightly decreased. However, a drastic change is seen when the Prandtl number changes considerably along with the radiation parameter (R). Further, it is noticed that, as the radiation parameter (R) increses the temparature in the fluid also increases. However, not much of significant change is noticed for a small change in the Prandtl number.But, there is a significant change in the profiles for larger values of Prandtl number (Pr). It is seen that, as we move far away from the lower boundary then the temperature is found to be decreasing. Further, it is observed that, as the radiation parameter (R) increases the temperature of the fluid decreases.

Key words: *Newtonian fluid, Reynolds Number, Prandtl Number, Radiation Parameter.*

INTRODUCTION

During the last several years fluid mechanics had made significant process in several areas of engineering, science and technology. An attempt has been made in this paper to explain the possibility of supporting thermal transfer in several areas of engineering, science and technology. Generally engineering systems are more complicated and experimentally confusing. It is characterized by complex systems where the fluid stream currents have a sudden change with reference to the geometry of the systems, which is not uncommon, but needs to be examined in detail.

For the last many years, extraction of geothermal energy from the deep part of the earth, oil extraction, heat removal from the nuclear debris, flow of liquids through ion exchange beds, drug permeation through human skin and glands are few such wide applications. In view of several applications in physics, chemistry and chemical technology, the problem has gained more importance, where the transfer of liquid from one container to another container is involved, the rate at which such transfer takes place at the thin film adhering to the surface of the containers needs to be taken into account. Generally in the chemical processing industry the walls of the reactor are subjected to the corrosion due to the reaction with in the vessels. Such a phenomena causes loss of production and then consuming more reaction time for the next cycle of chemical processing.

The porous medium can be considered as an ordered flow in a disordered geometry. The porous medium may be either an aggregate of large number of particles such as sand or a solid containing more capillaries such as a porous rock. When the fluid percolates through a porous material, because of the complexity of microscopic flow in the pores, the actual part of an individual fluid particle cannot be analytically analysed. However, the process can be defined in terms of equilibrium forces.

Corresponding Author: Ch. V. Ramanamurthy[2]*
[2]Department of Applied Mathematics, Sri Vasavi Institute of Engineering and Technology, Pedana – 521361 (A.P.), India.

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1. Name of the Staff Member : Dr./Mr./Ms. G. Praveen
2. Designation : Asst. Prof
3. Department : S&H
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : ELTA
5. Date & Duration of the Program : NOV-2018 – Oct – 2019
6. Associating Professional Body / Agency : English Language Teachers' Association India
7. Financial support particulars :
   - i. Registration Charges :
   - ii. Travelling Allowances :
   - iii. Membership Fee : 400/-
   - iv. Others (if any) :

Date: 22/11/2018 Signature of the Staff Member

1. Recommendations of the HOD :
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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Date: 26/11/2018

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Towards membership fees

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English Language Teachers' Association of India

REGTD. S. No. 169/74

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Date : 27.11.2018.

30016379

Membership ID : 30016379 R.No

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Ganguru, Krishna Dist - 521139 (AP)

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1. Name of the Staff Member : Dr./Mr./Ms. P. Rani
2. Designation : Assistant Professor
3. Department : Information Technology
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : ----------
   Database Management Systems
5. Date & Duration of the Program : Aug – Sep 2018
6. Associating Professional Body / Agency :
7. Financial support particulars :
   i. Registration Charges : 1000/—
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date 02/8/18 Signature of the Staff Member

1. Recommendations of the HOD : ----------
2. Recommendations of the Principal : ---------- *Sanctioned / Not Sanctioned

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Prepared by

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Audited by

Rani
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NPTEL Coordinator
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Aug-Sep 2018
(8 week course)

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Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. G. Sri Lakshmi
2. Designation : Assistant Professor
3. Department : IT
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details :
   Introduction to machine learning
5. Date & Duration of the Program : Aug-oct 2018
6. Associating Professional Body / Agency :
7. Financial support particulars :
   i. Registration Charges : 400/-
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 02/8/18

Signature of the Staff Member

1. Recommendations of the HOD :
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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D.NO:6-64,SOCIETY ROAD
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4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : CCNA Cybersecurity Operations.
5. Date & Duration of the Program : Sep-2018 (2-weeks)
6. Associating Professional Body / Agency : CISCO
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   - i. Registration Charges :
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Date: 16-08-2018.

Signature of the Staff Member

1. Recommendations of the HOD : A
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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Accountant: Udo

Date: 17-08-2018

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Date 17-08-2018

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- Analyze the operation of network protocols and services.
- Classify the various types of network attacks.
- Use network monitoring tools to identify attacks against network protocols and services.
- Use various methods to prevent malicious access to computer networks hosts, and data.
- Explain the impacts of cryptography on network security monitoring.
- Explain how to investigate endpoint vulnerabilities and attacks.
- Evaluate network security alerts.
- Analyze network intrusion data to identify vulnerabilities and compromised hosts.
- Explain how security incidents are handled by CSIRTs.

MACHANURU SURESH BABU

Learner

Trident Academy of Creative Technology (ITC)

Instructor Training Center

India

Location

1 Sep 2018

Date

Laura Quintana

Laura Quintana
VP & General Manager, Cisco Networking Academy

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Financial Support Request Letter

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2. Designation : Asst. Prof
3. Department : I.T
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Cloud Infrastructure & Survices
5. Date & Duration of the Program : 31-Oct-2018 to 5th-Nov-2018 1 week
6. Associating Professional Body / Agency : DICT Academy
7. Financial support particulars :
   - i. Registration Charges : 400/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
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Date: 29/10/2018

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1. Recommendations of the HOD : R
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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Date 30/10/2018

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1. Name of the Staff Member : Dr./Mr./Ms. M. Suresh babu
2. Designation : Asst. Professor
3. Department : I.T
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6. Associating Professional Body / Agency :
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   - ii. Travelling Allowances :
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2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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   ii. Travelling Allowances :
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Date: 31/10/18

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3. Department : ---- I.T ----
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : ----

   Big Image Data Processing Using Machine Learing Algorithms

5. Date & Duration of the Program : 27th – 31st May – 2019.
6. Associating Professional Body / Agency :
7. Financial support particulars : 1

   i. Registration Charges : ₹500/—
   ii. Travelling Allowances :
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Date: 23/05/2019 Signature of the Staff Member

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2. Recommendations of the Principal : ---- *Sanctioned / Not Sanctioned

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Date: 24/05/2019

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participated in a Five-Day Continuing Education programme on "Big Image Data Processing Using Machine Learning Algorithms" organized by the Department of Computer Science & Engineering in association with Continuing Education Programmes, National Institute of Technology Warangal, during 27th-31st May, 2019.

Dr.U.S.N.Raju	Dr. K.V. Kadambari	Prof.R.B.V.Subramaanyam	Prof.K.Anand Kishore	Prof.N.V.Ramana Rao
Coordinator	Coordinator	Head,CSE	Professor In-charge,CEPs	Director, NIT Warangal

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4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : IJRTE – Ass
5. Date & Duration of the Program : 2020
6. Associating Professional Body / Agency : IJRTE
7. Financial support particulars :
   - i. Registration Charges : 1200/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
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Date: 18/5/19 Signature of the Staff Member

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2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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Date: 20/5/19

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No. **VOUCHER** Date 20/5/19.

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Towards Paper publication.

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Solid State Technology
Volume: 63 Issue: 6
Publication Year: 2020

Assessment Of Ground Water Quality By Using Water Quality Index Around Ajithsingh Nagar Dump Yard In Vijayawada, Andhra Pradesh, India

Dr. Neelam Sridevi[1], N. Karanthi Rekha[2], Dr. Srilakshmi Chennupati[3], J. Purna Chandra Rao[4]

[1]Assistant Professor in Environmental Sciences, SRK Institute of Technology, Vijayawada, Andhra Pradesh, India.

[2]Assistant Professor, Department of civil engineering, SRK Institute of Technology, Vijayawada, Andhra Pradesh, India.

[3]Associate Professor in Environmental Sciences, Dhanekula Institute of Engineering & Technology, Vijayawada, Andhra Pradesh, India.

[4]Assistant Professor, Department of civil engineering, SRK Institute of Technology, Vijayawada, Andhra Pradesh, India

***Abstract*—Water is an essential natural resource for sustaining life and environment but over the last few decades the water quality is deteriorating due to its over exploitation. Water quality is essential parameter to be studied when the overall focus is sustainable development keeping mankind at focal point. Groundwater is the major source of drinking water in rural as well as in urban areas and over 94% of the drinking water demand is met by groundwater. The study was carried out to assess the ground water quality and its suitability for drinking purpose around the Ajithsingh nagar dump yard of Vijayawada, Krishna district, Andhra Pradesh, India. For this purpose, water samples were collected in Ajithsingh nagar, Nunna, Payakapuram, Kandrika, Rajivnagar areas around dump yard. And we analyzed the samples for different physio-chemical parameters such as pH, turbidity, total hardness, chloride, total dissolved solids, total alkalinity, fluoride, sulphates, nitrate, and iron. We assessed ground water quality in terms of WQI of those areas by using weighted arithmetic water quality index formula. It shows that WQI of ajithsingh nagar, nunna, payakapuram, kandrika, rajivnagar areas have poor ground water quality and undesirable for drinking purpose**

Keywords- Groundwater quality, Physio-chemical parameters, Statistical Parameters, WQI

I. INTRODUCTION

Water is one of the abundantly available substances in nature. Water plays a vital role in the wealth of a nation, particularly like India, Which is predominantly an agriculture default economy. The importance of water for the existence of life need not be over emphasized [6]. Ground water is the major source for drinking & domestic purposes in both rural & urban areas. The above situation is changing very rapidly & at a very alarming rate due to pollutants from various sources. Although water can be polluted naturally, due to high degree of minerals present in the soils rocks, the quality of ground water may vary from place to place. In addition to above, rapid population growth, increasing living standards, untreated municipal and industrial waste –waters, fertilizers, application of pesticides, sewers and landfill areas are the potential sources of ground water pollution [8].

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1. Name of the Staff Member : Dr./~~Mr.~~/Ms. V. karthik
2. Designation : Assoc. Professor
3. Department : Civil Engg
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Durability behavior of self compacting Concrete made with recycled concrete aggregate
5. Date & Duration of the Program : 2018.
6. Associating Professional Body / Agency : IJET
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   - i. Registration Charges : 1500/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 4-4-2018

V. karthik
Signature of the Staff Member

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1. Recommendations of the HOD : T. Latha
2. Recommendations of the Principal : [signature] *Sanctioned / Not Sanctioned

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Date: 5-4-2018

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Towards Paper publication

Prepared by

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Approved by

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www.pjbt.org

ISSN Print: 1812-1837
ISSN Online: 2312-7791

INVESTIGATION ON STRENGTH PROPERTIES OF FLYASH BASED GEOPOLYMER CONCRETE AND PARTIAL REPLACEMENT OF FINE AGGREGATE WITH M-SAND

[1]G. Siva Chidambaram, [1]M. Natarajan, [2]V. Karthik, [3]K. Vivek

[1]Karpagam Academy of Higher Education, Coimbatore, Tamilnadu, India. [2]SRK Institute of Technology, Vijayawada, India. [3]Paavai Engineering College, Namakkal, India. E.mail: mail2gsc@gmail.com, pmnatarajan.in@gmail.com

Article received 18.10.208, Revised 2.12.2018, Accepted 10.12.2018

ABSTRACT

Concrete is one of the most vital building materials subsequent to the water. Day by day demand of concrete is escalating with rising demand on infrastructural development, but due to the emission of a considerable quantity of CO2 throughout the course of the production of cement is the principal issue concern with environmental pollution. The output of ordinary Portland cement adds about 5 to 7% of total greenhouse gas emission. As a result, it is essential to discover a substitute for cement. Fly ash is a waste material which is comprised of a great volume of silica and alumina. Fly ash is also a by-product of coal received from the thermal power station. In this research work, fly ash is employed to produce geopolymer concrete. Geopolymer is a cement-free concrete which is produced when silica and alumina react chemically with the alkaline solution. In geopolymer, fly ash function as a binder and alkaline solution function as an activator. The natural river sand has a huge demand in the developing countries to meet the active infrastructure growth. In this circumstance, emerging country like India facing a deficit in the sound quality natural sand. To minimize these difficulties, recently Manufactured sand is employed as a partial replacement with natural river sand. Fly ash and alkaline chemical activator undergo geopolymerization process to make aluminosilicate gel. In this study, fly ash based geopolymer concrete is developed with partial replacement of river sand with M-sand at various percentage replacements from 0 to 100%. An alkaline solution with 2:5 ratio of sodium silicate and sodium hydroxide was used in this research work. The strength behaviors of the geopolymer concrete enhance with rising the percentage replacement of M-Sand.

Keywords: *M-Sand, Alkaline Liquids, Geopolymer, Fly Ash*

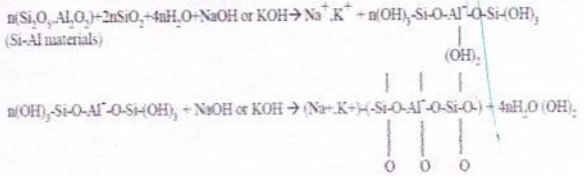
INTRODUCTION

Production of cement releases about one ton of carbon dioxide in the course of the production of one ton of cement. Alongside, coal-burning power production plants deliver a tremendous volume of fly ash. Most of the fly ash is perceived as waste and discarded as landfills (Amnon and Hadassa 2006). The growth of fly ash based geopolymer concrete is in response to the need for greener concrete. The overflowing availability of fly ash worldwide designate a chance to employ this by-product of burnt coal as a replacement for Portland cement. (Abdul Aleem and Arumairaj 2012)

In developing nations, the necessity of natural sand is very high. Specifically, in India, natural sand sediments are getting depleted and causing a severe threat to the society. Increasing extraction of natural sand from river beds generating many environmental issues (Jaarsveld, 2003). Nowada y's sand is becoming an extremely scarce material, in this scenario research began for affordable and readily obtainable alternative material (Wallah and Rangan 2006). Manufactured sand tenders a sustainable substitute to river sand, and it is developed by crushing, screening and washing process. (Hardjito and Wallah 2004, Abdul Aleem and Arumairaj 2012, Hardjito et al., 2002, Monita and Nikraz 2011, Wallah and Rangan 2006).

POLYMERISATION PROCESS

The development of geopolymer process in concrete can be shown as



MATERIALS USED

The material utilised in this present study was fly ash as source material, alkaline liquids, course & fine aggregates & water. M30 grade concrete was deemed in this study.

a) Fly ash: Table 1 shows the chemical composition of the flyash used.

Table 1: Chemical Compositions of Flyash

Component	% Composition
SiO_2	57.3
Al_2O_3	27.13
Fe_2O_3	8.06
MgO	2.13
SO_3	1.06
Na_2O	0.73
CaO	0.03
LOI	1.60

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1. Name of the Staff Member : ~~Dr./Mr./~~Ms. N. Karanthi Rekha
2. Designation : Asst. Professor
3. Department : Civil Engineering
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details :

   Ingrated Waste Management for a Smart city

5. Date & Duration of the Program : July-Oct 2018
6. Associating Professional Body / Agency : NPTEL
7. Financial support particulars :

   i. Registration Charges : 400/-
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 4-10-2018

Signature of the Staff Member

1. Recommendations of the HOD : I. Lakshmi
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

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Account Department

Accountant:

Date: 5-10-2018

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Date 5-10-2018

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Name of A/c faculty development program

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To
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Score	Type of Certificate
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60-89	Elite
40-59	Successfully Completed the course
<40	No Certificate

No. of credits recommended by NPTEL:3

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Online Assignments	20.56/25	Proctored Exam	27.75/75

Total number of candidates certified in this course: **710**

Prof. Anupam Basu
NPTEL Coordinator
IIT Kharagpur

Jul-Oct 2018
(12 week course)

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A. Goswami
Prof. Adrijit Goswami
Dean
Continuing Education, IIT Kharagpur

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Financial Support Request Letter

1. Name of the Staff Member : ~~Dr./Mr./~~Ms. N. Koranthi Rekha
2. Designation : Asst - Professor
3. Department : civil
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Wastewater treatment and Recycling
5. Date & Duration of the Program : July - Oct (2018) (12 week course)
6. Associating Professional Body / Agency : NPTEL
7. Financial support particulars :
   - i. Registration Charges : 1000/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 03-10-2018

NKR

Signature of the Staff Member

---

1. Recommendations of the HOD : T. Lakshmi
2. Recommendations of the Principal : [signature] *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 4-10-2018

No.

VOUCHER

Date 4-10-18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c faculty development program

Paid to N. kranthi Rekha (CE) Cash/Cheque 1000/-

the Sum of Rupees one thousand rupees only/-

Towards Work shop (certificate program

~~1000~~

Prepared by

₹ 1000/-

Approved by

Audited by

N.K

Receiver Signature

9

Roll No:NPTEL18CE26S12160509

To
S.R.K.INSTITUTE OF TEHNOLOGY
VIJAYAWADA

37/1271

Score	Type of Certificate
>=90	Elite + Gold Medal
60-89	Elite
40-59	Successfully Completed the course
<40	No Certificate

No. of credits recommended by NPTEL:3

Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

NUNNA KARANTHI REKHA

for successfully completing the course

Wastewater Treatment and Recycling

with a consolidated score of **61** %

Online Assignments	21.91/25	Proctored Exam	39/75

Total number of candidates certified in this course: 592

Prof. Anupam Basu
NPTEL Coordinator
IIT Kharagpur

Jul-Oct 2018
(12 week course)

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

A. Goswami
Prof. Adrijit Goswami
Dean
Continuing Education, IIT Kharagpur

Indian Institute of Technology Kharagpur

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

18/19

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ---S. Sri Gowri---
2. Designation : ---Professor---
3. Department : ---ECE---
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : ---
   ---IUCEE Leadership Summit 2018---
5. Date & Duration of the Program : 19-7-2018 to 21-7-2018
6. Associating Professional Body / Agency : IUCEE
7. Financial support particulars :
   i. Registration Charges : 1500
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 12-7-2018

S. Sri Gowri
Signature of the Staff Member

---

1. Recommendations of the HOD : forwarded
2. Recommendations of the Principal : ---

*Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 12/7/18

No.

VOUCHER

Date 12/7/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development program

Paid to Dr. S. Sri Gowri (ECE) Cash/Cheque 1500/-

the Sum of Rupees One thousand five hundred rupees only.

Towards Conference.

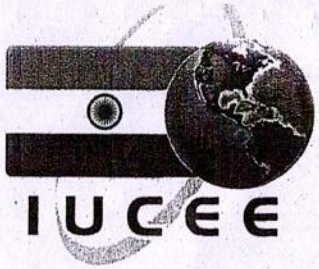
Prepared by

₹ 1500/-

Approved by

Audited by

S. Sri Gowri
Receiver Signature



Indo Universal Collaboration
for Engineering Education

VIT®
AP

IUCEE Leadership Summit 2018

19th - 21st July 2018
Hotel Goan Heritage - Goa

Certificate of Participation

This is to certify that Dr. S. SRIGOWRI

of SRK INSTITUTE OF TECHNOLOGY

has participated in IUCEE Leadership Summit 2018 Organised by IUCEE

& Co-Sponsored by VIT-Amaravati

Dr. Krishna Vedula
Executive Director
IUCEE

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

3 2018-19

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. Md. Shabeena Begum
2. Designation : Asst. Prof
3. Department : ECE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : An Introduction to Programming the Internet of Things (IOT)
5. Date & Duration of the Program : ~~6-18-2018~~ 18-6-2018
6. Associating Professional Body / Agency : Coursera
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 18-6-2018 Signature of the Staff Member: Md. Shabeena

1. Recommendations of the HOD : May be granted
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 18/6/18

18-19

No.

VOUCHER

Date 18/06/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programme.

Paid to Md. Shabeena Begum (ECE) *Cash/Cheque* 400/-

the Sum of Rupees Four hundred rupees

Towards Workshop

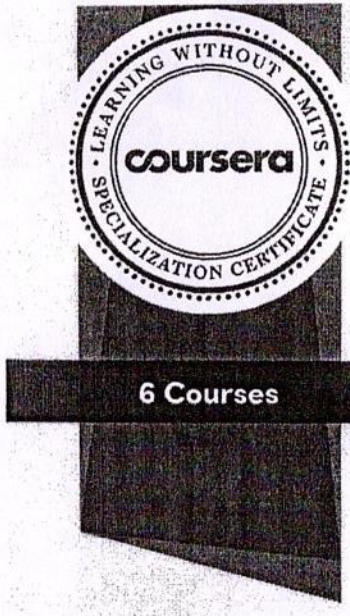
Prepared by

₹ 400/-

Approved by

Audited by

Md. Shabeena
Receiver Signature



06/18/2018

Shabeena Mohammad

has successfully completed the online, non-credit Specialization

An Introduction to Programming the Internet of Things (IOT)

Professor
Department of
Computer Science

Introduction to the Internet of Things and Embedded Systems

The Arduino Platform and C Programming

Interfacing with the Arduino

The Raspberry Pi Platform and Python Programming for the Raspberry Pi

Interfacing with the Raspberry Pi

Programming for the Internet of Things Project

Design, create, and deploy a fun IoT device using Arduino and Raspberry Pi platforms. In this Specialization covers embedded systems, the Raspberry Pi Platform, and the Arduino environment for building devices that can control the physical world. In the final Capstone Project, you'll apply the skills you learned by designing, building, and testing a microcontroller-based embedded system, producing a unique final project suitable for showcasing to future employers.

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Verify this certificate at:
coursera.org/verify/specialization/3QPNZTEA6DMS

2018-19

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. A.V.P Sarvari
2. Designation : Asst. Prof
3. Department : ECE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Digital Image Processing
5. Date & Duration of the Program : July to OCT 2018
6. Associating Professional Body / Agency : NPTEL
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 5.7.18 Signature of the Staff Member

1. Recommendations of the HOD : Recommended
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 5-7-18

VOUCHER Date 5/7/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. Faculty development programme.

Paid to A.V.P. Sarvari (ECE) Cash/Cheque 400/-

the Sum of Rupees Four hundred rupees only.

Towards work shop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

NPTEL-AICTE
Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

VENKATA PRASANNA SARVARI A

for successfully completing the course

Digital Image Processing

with a consolidated score of **63** %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

(Jul-Oct 2018)

Prof. Dileep N. Malkhede
Advisor-I (Research, Institute & Faculty Development)
All India Council for Technical Education

Roll No: NPTEL18EE40S22140173

To validate and check scores: http://nptel.ac.in/noc

PRINCIPAL
SRK Institute of Technology
1108

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses.
F.No. AICTE / RIFD / FDP through MOOCs / 2017-18

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21 18-11

SRK INSTITUTE OF TECHNOLOGY
Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. K. Venkateswara Rao
2. Designation : Asst. Prof
3. Department : ECE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : ASIC / FPGA Design and its Applications
5. Date & Duration of the Program : 22-4-2019 to 27-4-2019
6. Associating Professional Body / Agency : LBRCE
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 20.4.19.

Signature of the Staff Member

1. Recommendations of the HOD : Granted
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 20/4/19

VOUCHER Date 20/4/19.

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programe.

Paid to K. Venkateswara Rao (ECE) Cash/Cheque 400/-

the Sum of Rupees Four hundred rupees only.

Towards work shop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(Autonomous)

Affiliated to JNTUK, Kakinada & Approved by AICTE, New Delhi Accredited by NBA, Certified by ISO 9001:2015

L B Reddy Nagar, Mylavaram-521 230, Krishna District, Andhra Pradesh.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

One-Week Faculty Development Progamme
on
ASIC / FPGA Design & Its Applications

CERTIFICATE OF PARTICIPATION

APPLY VOLT

This is to certify that K. Venkateswara Rao, Assistant professor

from E.C.E *department of* SRK Institute of technology

has participated in one-week Faculty Development Programme on "ASIC/FPGA Design & Its Applications"

organized by the Department of Electronics & Communication Engineering, LBRCE from 22nd to 27th - April - 2019.

PRINCIPAL
SRK Institute of Technology
VIJAYAWADA-521 108.

Dr. P. Lachi Reddy	Dr. Y. Amar Babu	Dr. K. Appa Rao
Coordinator	Convener & HOD, ECE	Principal

22 18-19

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. V. Sekhar Babu
2. Designation : Asst. Prof
3. Department : ECE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Improving Teaching Skills in the Subjekt Random Variables and Stochastic Processes
5. Date & Duration of the Program : 2-5-2019 to 7-5-2019
6. Associating Professional Body / Agency : JNTUK
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 1.5.19

Signature of the Staff Member

---

1. Recommendations of the HOD : May be granted
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 1-5-19

VOUCHER

Date 1/5/19.

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programe.

Paid to V. Sekhara Babu (ECE) Cash/Cheque 400/-

the Sum of Rupees Four hundred rupees only.

Towards Work shop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada - 533 003, Andhra Pradesh, India

Directorate of the Faculty Development Centre

A Two Week Summer Faculty Development Programme

On

IMPORTANT ENGINERING SUBJECTS

Participation Certificate

This is to Certify that Ms. / Mr. / Smt. SEKHARA BABU VELPULA

S/o. D/o. Smt. / Sri _____

Faculty of SRK Institute of Technology.

has Participated in the Programme on "Improving Teaching Skills in the Subject Random Variables and Stochastic Processes" held during 02nd - 07th May, 2019, as a part of Two week summer Faculty Development Programme organized by the Directorate of the Faculty Development Centre, JNTUK Kakinada, Andhra Pradesh, India.

B.T. Krishna

HEAD OF THE DEPARTMENT

Approved

CHIEF COORDINATOR
DAP, JNTUK

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

REGISTRAR &
DIRECTOR, FDC i/c
JNTUK KAKINADA

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24/8-19

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. V. Sri lakshmi
2. Designation : Asst. Prof
3. Department : ECE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Applied Robotics Control lab
5. Date & Duration of the Program : 5-8-2019 to 12-8-2019
6. Associating Professional Body / Agency : German Centre for Advanced Engg
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 02.08.19

Signature of the Staff Member

1. Recommendations of the HOD : May sanctioned 8
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 2-8-19

No.

VOUCHER

Date 28/08/19

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programe.

Paid to Y. Sri Lakshmi (ECE) *Cash/Cheque* 400/-

the Sum of Rupees Four hundred rupees only.

Towards work shop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

Certificate of Participation

This is to certify that **Mrs.Sri Lakshmi**, SRK Institute of Technology, India has participated in the **Applied Robotics Control Lab Faculty Development Program: 2.0** with course certification from **5th to 12th August 2019** under the initiative of "Indo-European Skilling Cluster for Mechatronics and Manufacturing" by European Centre for Mechatronics, Aachen / Germany and Andhra Pradesh State Skill Development Corporation, and successfully executed the assigned industry project tasks and related software implementation at VIT-AP, Amaravati, India.

Conducted by:
German Center for Advanced Engineering and Management Studies UG and APS GmbH – European Centre for Mechatronics

Mr. Vangapandu Venkatanagaraju
Founder/President

Dr.Ing. Christoph Greb
Managing Director

GERMAN CENTER FOR ADVANCED ENGINEERING AND MANAGEMENT STUDIES

ARC APPLIED ROBOT CONTROL

aps

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

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SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. B. Ravi
2. Designation : Asst Prof
3. Department : ECE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Microchip academy RTC Instructor Training
5. Date & Duration of the Program : 15-4-2019 to 16-4-2019
6. Associating Professional Body / Agency : Microchip
7. Financial support particulars :
   - i. Registration Charges : 400/-
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 12-4-19 Signature of the Staff Member

1. Recommendations of the HOD : ---
2. Recommendations of the Principal : *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 13-4-19

No.

VOUCHER

Date. 13-4-19

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. FDP

Paid to. B. Ravi Cash/Cheque. 400/-

the Sum of Rupees. Four hundred Rupees only

Towards. Workshop

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

MICROCHIP
Certified Trainer

TRIDENT
ICT ACADEMY

EduVance®

Microchip Academy RTC Instructor Training

Certificate of Participation

Awarded to

Mr. BHUKYA RAVI

---

of

SRK Institute of Technology

---

for participating in Basic Level Instructor Training Program

held on 15th & 16th Apr 2019 at SRK Institute of Technology, Vijayawada.

Mr. Jagan Jothivel
Microchip University Program Manager
Microchip Technology (I) Pvt. Ltd.

Mr. Satya Ranjan Biswal
Head, Microchip Academy RTC
Director, Trident ICT Academy

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

Dr. Jonathon Joshi
Chief Executive Officer
Eduvance

26 18-19

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. Ch. Siva Rajesh
2. Designation : Asst. Professor
3. Department : ECE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Google Android Faculty Development Workshop
5. Date & Duration of the Program : 23-12-2019 to 28-12-2019
6. Associating Professional Body / Agency : APSSDC
7. Financial support particulars :
   - i. Registration Charges : 400
   - ii. Travelling Allowances :
   - iii. Membership Fee :
   - iv. Others (if any) :

Date: 21-12-19

Signature of the Staff Member

1. Recommendations of the HOD : May be granted
2. Recommendations of the Principal : Passed *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 20/12/19

VOUCHER Date 20/12/19

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. Faculty development programe.

Paid to Ch. Siva Rajesh (ECE) Cash/Cheque 400/-

the Sum of Rupees Four hundred rupees only.

Towards Work shop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

Skill AP
APSSDC

Andhra Pradesh State Skill Development Corporation (APSSDC)

(Department of Skill Development, Enterprenureship & Innovation, Govt. of Andhra Pradesh)

Certificate of Participation

This is to certify that,

Mr./Ms./Mrs. Siva Rajesh Chiluveru

of SRK Institute Of Technology

has successfully participated in **Faculty Improvement Program** on

Google Android Faculty Development Workshop held from 23-12-2019 to 28-12-2019

MD & CEO- APSSDC
(Dr. Srikanth Arja, IRTS)

(Principal)

PRINCIPAL
SRK INSTITUTE OF TECHNOLOGY
ENIKEPADU, VIJAYAWADA

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. ------S. Neeraja---
2. Designation : ------Asst. Professor---------
3. Department : ----------ECE----------
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : ----------

   ---An Introduction to programming the IoT
5. Date & Duration of the Program : 8-6-2018
6. Associating Professional Body / Agency : Coursera
7. Financial support particulars :

   i. Registration Charges : 400
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 8/06/2018

Signature of the Staff Member

---

1. Recommendations of the HOD : forwarded
2. Recommendations of the Principal : Forwarded *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 8/6/18

No.

VOUCHER

Date 18/06/18.

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programme.

Paid to S. Neeraja (ECE) *Cash/Cheque* 400/-

the Sum of Rupees Four hundred rupees only.

Towards work shop.

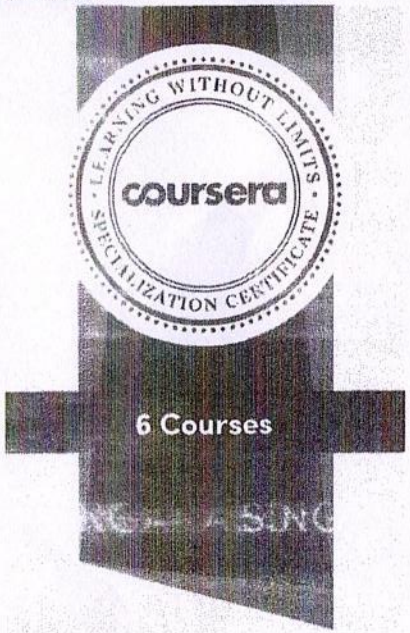
Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature



UCI

06/08/2018

SINGANABOYINA NEERAJA

has successfully completed the online, non-credit Specialization

An Introduction to Programming the Internet of Things (IOT)

Design, create, and deploy a fun IoT device using Arduino and Raspberry Pi platforms. In this Specialization covers embedded systems, the Raspberry Pi Platform, and the Arduino environment for building devices that can control the physical world. In the final Capstone Project, you'll apply the skills you learned by designing, building, and testing a microcontroller-based embedded system, producing a unique final project suitable for showcasing to future employers.

Introduction to the Internet of Things and Embedded Systems

The Arduino Platform and C Programming

Interfacing with the Arduino

The Raspberry Pi Platform and Python Programming for the Raspberry Pi

Interfacing with the Raspberry Pi

Programming for the Internet of Things Project

Professor
Department of
Computer Science

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Verify this certificate at:
coursera.org/verify/specialization/NJ3WBKSHN6SU

SRK INSTITUTE OF TECHNOLOGY

Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. B.S.S. Tejesh
2. Designation : Asst. Professor
3. Department : ECE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : An Introduction to programming the IoT
5. Date & Duration of the Program : 7-6-2018
6. Associating Professional Body / Agency : Coursera
7. Financial support particulars :
   i. Registration Charges : 400
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 18-6-2018

Signature of the Staff Member

1. Recommendations of the HOD : forwarded
2. Recommendations of the Principal : Allowed *Sanctioned / Not Sanctioned

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

Account Department

Accountant:

Date: 18/6/18

No. **VOUCHER** Date 18/06/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c. Faculty development programe.

Paid to B.S.S. Tejesh (ECE) Cash/Cheque 400/-

the Sum of Rupees Four hundred rupees only.

Towards Work shop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

UCI

06/07/2018

BARANALA TEJESH

has successfully completed the online, non-credit Specialization

An Introduction to Programming the Internet of Things (IOT)

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Conformal Antennas—A Short Survey

N. V. K. Maha Lakshmi, P. V. Subbaiah and A. M. Prasad

Abstract Conformal antennas (CA) have wide applications in several civil, commercial, and defence systems. They are the need hour and most essential in aircrafts and ships. Patch antennas are often considered as the better candidate for such CA. In this paper, a consolidated report on several conformal antenna types is presented. General study on the CA with mircrostrips is presented. The singly curved and doubly curved surfaces are considered for discussion.

Keywords Conformal antenna · Singly curved · Doubly curved Microstrip patch antenna

1 Introduction

As per the International Electrotechnical Commission (IEC), CA are a radiating system, whose shape is not determined by its electromagnetic features but by the surface of the system where it has to be intake with the advancement in technology; novel techniques and approaches to the system design are must. A typical radiating system refers to a system which acts as interface between the transmitter and receiver in free space. It is possible to modify the characteristics in order to improve the overall system performance. This technique is often responsible for reducing several aspects that affect the image metrics severely and give a better accuracy along with excellent aerodynamics as well as less in volume. This leads to a challenging task for

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SMART HELMET SYSTEM

[1]Dr. T. Haritha, [2]Dr. S. Sri Gowri,
[1]Associate Professor, [2]Professor & Head Department of ECE
[1]Department of ECE,
[1]PVP Siddhartha Institute of Technology, Vijayawada, India
[2]SRK Institute of Technology, Enikepadu Vijayawada, India

Abstract :

A low power intelligent helmet system is designed using Atmega 328p processor which ensures the safety of a two-wheeler rider. The primary concept behind the working of the system is that the ignition of a two-wheeler will be enabled only if the rider is wearing a helmet and not under the influence of alcohol throughout the ride. An alcohol sensor and helmet wearing sensitive switches are installed inside a helmet, which is connected wirelessly and communicates with the vehicle unit to switch off the ignition system of the bike if any violations occurred. The helmet is powered by a lithium-ion battery, integrated outside the helmet. Vehicle and helmet units check and intimate information about helmet status, alcohol consumption and accident through geometric coordinates via SMS. By using geometric coordinates, the location of the rider can be traced using a simple GPS tracking application.

IndexTerms - Atmega, GPS, Helmet wearing sensitive switch, Ignition.

I. INTRODUCTION

In today's era, especially in the young generation, the craze to ride bike is rapidly increasing .The middle class families prefer to buy two-wheeler over four-wheeler because of their low price. As the number of two-wheeler on the road are increasing, road mishaps are also increasing day by day. In the event of an accident, lack of timely medical attention to the injured person may lead to death. Thus, there is a need for a system which ensures safety of rider by enforcing rider to wear helmet as per government guidelines and also assist in providing the rider for a medical assistance in the event of an accident.

II. MOTIVATION

The road accident is one of the major problems all over the world. The recent report says that the annual average road accident is estimated to be about 7, 00,000 of which 10 percentage occur in India which has overtaken China. The annual statistics revealed by the World Health Organization (WHO) in its Global status report on road safety says that around 80,000 people are killed on Indian roads due to rush driving, drunken driving and less usage of helmets. Also, most of the countries are forcing the motor riders to wear the helmet and not to use the vehicles when the person is in drunken condition. To overcome problem, a system called Accident Detection, Theft and Drive Protection using intelligent Wireless Safety Helmet is introduced.

III. OBJECTIVE OF THE PROJECT

The objective of project is to design intelligent helmet system which ensures wearing of helmet and prevent switching ON bike if rider is under influence of alcohol throughout the ride. The system detects accident and intimate relatives through geometric location of rider via SMS.

IV. BLOCK DIAGRAM

The system mainly consists of two major units as shown in Figure 1 and Figure 2. They are:

- Helmet Unit
- Vehicle Unit.

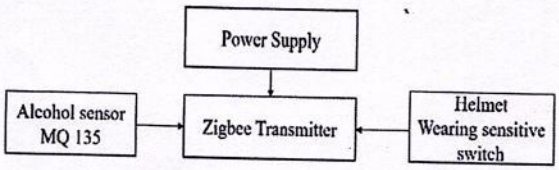

Figure 1: Helmet Unit

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Implementation of Low Power Wallace Tree Multiplier using Carry Select Adder with BEC

Ponnuru Koteswara Rao [#1], P Raveendra [#2], Ch. Siva Rajesh [#3], N. Mayuri [#4]
[#1,2,3,4]Assistant Professor,
SRK Institute of Technology,
Enikepadu, Vijayawada

Abstract: **Multipliers are major blocks in the most of the digital and high performance systems such as Microprocessors, Signal processing Circuits, FIR filters etc. In the present scenario, Fast multipliers with less power consumption are leading with their performance. Wallace tree multiplier with carry select adder (CSLA) is one of the fastest multiplier but utilizes more area. To improve the performance of the multiplier, CSLA is replaced by binary excess-1 counter (BEC) which not only reduces the area at gate level but also reduces power consumption. Wallace tree multiplier using CSLA with BEC is occupying less area, memory and consuming less power when compared to Wallace tree multiplier using CSLA and Wallace tree multiplier. Area and power calculations for the Wallace tree multiplier using CSLA with BEC are giving good results compared to regular Wallace tree multiplier.**

Keywords*: *Wallace tree multiplier, carry select adder, BEC.

I . INTRODUCTION

Now-days the back end users are very interested in portability, durability, flexibility and remote control. To meet these requirements Integrated Chip (IC) technology has improved a lot. As there are many technologies, the present trend is Very Large Scale Integration (VLSI) technology, as in this technology many millions of transistors in the form of logic circuits can be integrated on a single chip. As the physical existing signals are analog signals, these are harder to process hence Digital Signal Processors (DSP) are introduced, in which the analog signal is converted into digital form processed according to the program inside it, again converted in to analog signal if required. As there are many modules in the DSP processor to implement the each function we have to program it, in this programming there are many operators used here. The mainly used and complicated block is multiply and Accumulate (MAC) unit, multiply and Add (MAD) units, these are large in area and more processing time required to execute this process.

Our main concept is to reduce these complications with this unit, so we use fusion techniques to have optimized design and many more optimized circuits with circuit minimization techniques are used have an optimized Sparse Parallel Prefix Adders operator design.

II.DESIGN OF PROPOSED ARCHITECTURE

2.1 Wallace tree multiplier for 4-bit

Step by step procedure for multiplying two four bit integers according to Wallace multiplier. Wallace multiplier consists of three steps.

1. Multiply each bit of one arguments with each bit of another argument, which results in n^2 products.
2. Consider the first three rows of the multiplied products and reduce them into two rows by using full adders and half adders as per the requirements. Repeat this process until two rows of multiplied products are obtained.
3. Normally in the case of four bit additions of two integers a sum of four bits and carry one bit is formed. So, in the last step of layer we first have two rows of products half adder to add last two bits and the carry of the half adder is connected to the next layer. By following the same procedure add all the bits of two rows. At last the sum of four bits can be obtained Coming to the solution of 4*4 Wallace tree multiplier; In first stage we obtain four rows of the multiplied products as shown in the Fig. 2.1.

```
                          a3 a2 a1 a0
                          b3 b2 b1 b0
-------------------------------------
                    a3b0 a2b0 a1b0 a0b0
               a3b1 a2b1 a1b1 a0b1
          a3b2 a2b2 a1b2 a0b2
     a3b3 a2b3 a1b3 a0b3
```

Fig: 2.1.Partial Products Generation

Now in the second stage choose the first three rows and reduce them into two rows by using half adders and full adders. As per the requirement it is needed two half adders and two full adders, sum and carry are generated as a0b0, s(0)c(0), s(1)c(1), s(2)c(2), s(3)c(3), a3b2 as in the Fig.2.2.

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Design and Implementation of Indoor Environment Monitoring and Control System

Koteswara Rao Ponnuru[1], Sekhara Babu Velpula[2] , Raveendra Pilli[3], Ravi Bhukya[4]
Assistant Professor[1,2,3,4],
SRK Institute of Technology,
Enikepadu, Vijayawada

Abstract **: After more than 20 years of development, Internet of things has a lot of applications in the actual scene, which greatly facilitates people's work and life. As people paying more and more attention to environmental quality, the application of Internet of Things in indoor environment monitoring and control has become an important branch. In this paper we present a set of lightweight intelligent solutions for the management of rooms after studying the key technologies of IoT. The system uses sensors to obtain environmental information, through the process of arduino, such as temperature sensing and gas leakage detection. The controllers will make adaptive response, such as turn on the air conditioner, water sprinkle. The experiments demonstrates the system can be a good solution to the backwardness of current room management, especially house rooms, college rooms, and provides a new application for IoT.**

I.INTRODUCTION

The current advances in the fields of technology and economy are having a significant impact over the Environment, and have led to serious concerns regarding pollution and climate change. Internet of Things (IoT) is a concept and a paradigm that considers pervasive presence in the environment of a variety of things/objects that through wireless and wired connections and unique addressing schemes are able to interact with each other and cooperate with other things/objects to create new applications, services and reach common goals. Environmental monitoring applications of the IoT normally exploit sensors to aid in environmental protection by monitoring parameters like temperature, gas detection and atmospheric conditions.

This paper designs a prototype of wireless environmental monitoring system to upload information from array of sensors to the database. This application allows us to observe or measuring the environmental conditions from remote location from anywhere in real time. This system consist of main three modules namely sensor nodes, the wireless communication and the web server. The sensor nodes in remote location collect the information from surrounding environmental conditions and send data wirelessly using Node MCU to the server.. Our concentration is to allowing simple data connections with little programming required and moreover easy of use.

Environment monitoring and device control allows new level of comfort in homes and it can also manage the energy consumption efficiently which in turns promotes the saving. In the twenty first century, there is revolution of the sensor networks which have also come up with various applications like surveillance, traffic control, environmental and wildlife monitoring, agricultural application, home automation and industrial process control.

The Internet of things (IoT) is the network of physical devices, vehicles, home appliances and other items embedded with electronics, software, sensors, actuators, and connectivity which enables these objects to connect and exchange data.[1][2][3]Each thing is uniquely identifiable through its embedded computing system but is able to inter-operate within the existing Internet infrastructure.

The IoT allows objects to be sensed or controlled remotely across existing network infrastructure,[7] creating opportunities for more direct integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit in addition to reduced human intervention.[8][9][10][11] When IoT is augmented with sensors and actuators, the technology becomes an instance of the more general class of cyber-physical systems, which also encompasses technologies such as smart grids, virtual power plants, smart homes, intelligent transportation and smart cities.

II.BLOCK DIAGRAM

The Block diagram consists of a Microcontroller, a LCD display, sensors, Node MCU and power supply. In this system mainly we have microcontroller, power supply, LCD. The Micro controller is the heart of this project. The total controlling action will be done through this micro controller.

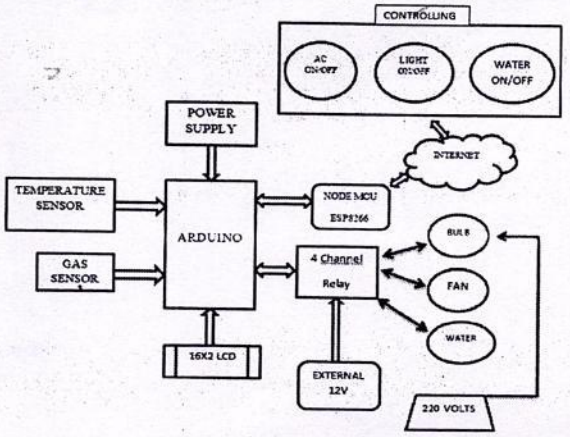

Figure 2.1: Block Diagram

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Design and Implementation of Indoor Environment Monitoring and Control System

Koteswara Rao Ponnuru[1], Sekhara Babu Velpula[2], Raveendra Pilli[3], Ravi Bhukya[4]
Assistant Professor[1,2,3,4],
SRK Institute of Technology,
Enikepadu, Vijayawada

Abstract **: After more than 20 years of development, Internet of things has a lot of applications in the actual scene, which greatly facilitates people's work and life. As people paying more and more attention to environmental quality, the application of Internet of Things in indoor environment monitoring and control has become an important branch. In this paper we present a set of lightweight intelligent solutions for the management of rooms after studying the key technologies of IoT. The system uses sensors to obtain environmental information, through the process of arduino, such as temperature sensing and gas leakage detection. The controllers will make adaptive response, such as turn on the air conditioner, water sprinkle. The experiments demonstrates the system can be a good solution to the backwardness of current room management, especially house rooms, college rooms, and provides a new application for IoT.**

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This paper designs a prototype of wireless environmental monitoring system to upload information from array of sensors to the database. This application allows us to observe or measuring the environmental conditions from remote location from anywhere in real time. This system consist of main three modules namely sensor nodes, the wireless communication and the web server. The sensor nodes in remote location collect the information from surrounding environmental conditions and send data wirelessly using Node MCU to the server.. Our concentration is to allowing simple data connections with little programming required and moreover easy of use.

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The IoT allows objects to be sensed or controlled remotely across existing network infrastructure,[7] creating opportunities for more direct integration of the physical world into computer-based systems, and resulting in improved efficiency, accuracy and economic benefit in addition to reduced human intervention.[8][9][10][11] When IoT is augmented with sensors and actuators, the technology becomes an instance of the more general class of cyber-physical systems, which also encompasses technologies such as smart grids, virtual power plants, smart homes, intelligent transportation and smart cities.

II.BLOCK DIAGRAM

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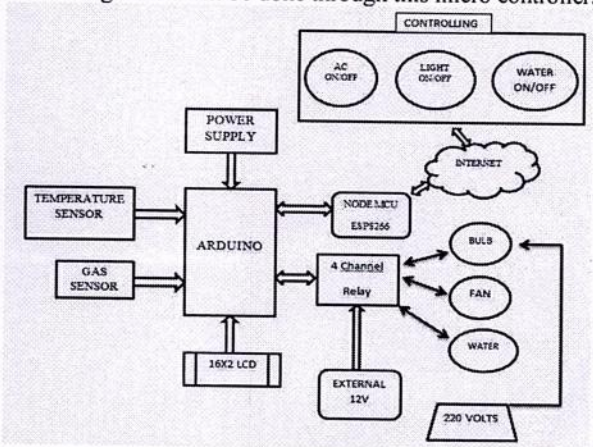

Figure 2.1: Block Diagram

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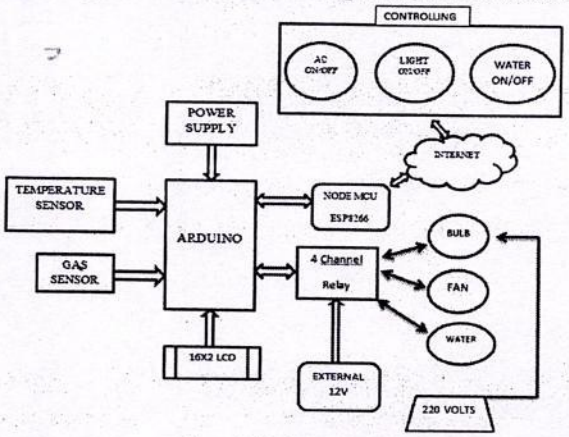

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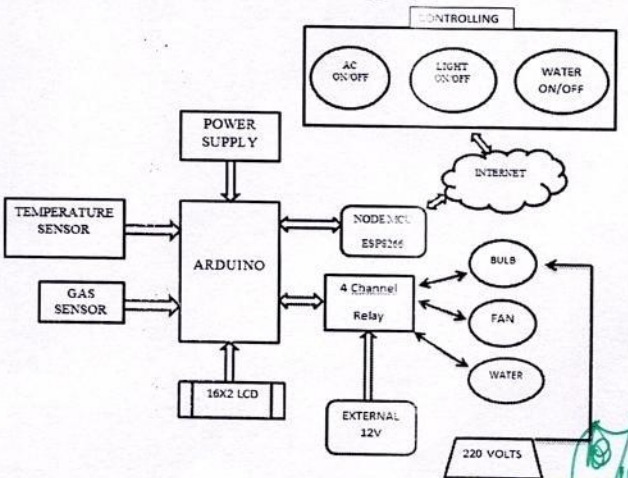

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PATIENT HEALTH MONITORING SYSTEM USING OPEN SOURCE TECHNOLOGY

[1]S.NEERAJA, [2]B.S.S.TEJESH, [3]N.MAYURI, [4]SK.SHABEENA

[1,2,3,4]Assistant Professor
Department of ECE,
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Abstract: **IoT is an emerging technology, which permits devices and people correlated in an organized manner. In the medical area the applications like real time monitoring, patient information management and healthcare management are presently receiving a good scope in the market. Many patients are dying because of the unavailability of the doctor in correct time. Internet of things serves as a catalyst for the healthcare and plays prominent role in wide range of healthcare applications. In this project the Arduino Mega 2560 is used as a gateway to communicate to the various sensors such as temperature sensor, heartbeat, fault detection sensor and Blood Pressure module. The Arduino Mega 2560 picks up the sensor data and sends it to the network through Wi-Fi module ESP8266 and hence provides real time monitoring of the health care parameters for doctors. The controller is also connected with buzzer to alert the care taker about variation in sensor output. But the major issue in remote patient monitoring system is that the data as to be securely transmitted to the destination end and provision is made to allow only authorized user to access the data. At the time of extremity situation alert message is sent to the doctor through the developed Android application. Hence quick provisional medication can be easily done by this system. This system is efficient with low power consumption capability, easy setup, high performance and time to time response.**

***IndexTerms*: IoT, Open Source Technology, Patient Health Monitoring System, Wi-Fi, Sensors.**

I. INTRODUCTION (HEADING 1)

The urge for the patient's health care management system is it can eliminate two dominant obstructions. First obstruction is that the doctor has to be on the site of the hospital for a long time. Second obstruction is that the patients are remained admitted in the hospitals for small health problems and may feel uncomfortable to stay in the hospital. Thus the implementation of this system more no of patients can be supervised and better services can be contributed. The wearable tiny sensors are easily integrated with the human body in the patient health monitoring system and so that it can sense the physical parameters of the patient's body[1]. The temperature sensor, BP sensor, Heartbeat sensor is low cost and are having predominant circumstances in the patient health care management system. The BP, heartbeat, the temperature sensor is familiar and frequently used because every patient's health will primarily depend on these parameters. In general, every doctor is confined to support only one patient in real time, but by this system one doctor can monitor real time details of many people. In comparison with the traditional approach to health care, the modern patient health management system will offer better health services 24x7 in any efficient manner[2]. In this developed patient health care management system, frequent visit of doctor by the patient's is completely eliminated[3].

Enhancements are ongoing for the implementations of the patient's health care management system. The data privacy is the considered to be the dominant aspect. The data of the patient must be secured and must enable them from outside network attacks. Data integrity is another issue because the patient's parameters are continuously transmitted to the central server there may be chances where data may be lost due to poor communication. With the employment of IoT in health care systems, the devices are connected to patient, collect real time data by a central The patient's health care management system has many challenging goals in the area of security. Many server and perform analytics on the data and provide the data to the real world in a user friendly manner.

Traditional remote health care system operates in the low speed processor and they are not efficient and cannot provide computations. As it operates on low memory, sufficient amount of data cannot be held by the IoT device [4].

In any system the power saving is the utmost challenge because the wearable sensors must not consume more power. A Certain power saving option must be enabled so as to reduce the power consumption. Employment of variable wired and wireless communication technologies like ZigBee, GSM, Wi-Fi, Ethernet, and Bluetooth can be integrated into the Patient health care management system. The Wearable sensors are limited by number because of the unavailability of interfacing ports in the central server Raspberry Pi 3. Appropriate technology is chosen for the efficient utilization of the patient's health care management system. In real world applications the Wearable sensors are mobile and must be easily integrated with the services provided by the IoT.

II. LITERATURE SURVEY

In the 21st century, IoT has become the most persuasive technology. In the modern world every device became part of the internet due to their computation and communication capabilities with the advancements made in IoT. In the era of IoT, more devices can be accessed and they get connected anytime based upon the network and will extend their services to real time applications. In future, IoT can uniquely create a trend on the devices which are having computation abilities. The generated data from the IoT devices is further analyzed and decisions are made. Many advancements and new methodologies go up day by day on the basis of Internet of Things. IoT has numerous enhancements in the domains like healthcare, Smart environment, Smart Home, Smart industries [5].

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PATIENT HEALTH MONITORING SYSTEM USING OPEN SOURCE TECHNOLOGY

[1]S.NEERAJA, [2]B.S.S.TEJESH, [3]N.MAYURI, [4]SK.SHABEENA

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A Detailed Scrutiny and Reasoning on VLSI Binary Adder Circuits and Architectures

K Mariya Priyadarshini, R. S. Ernest Ravindran, P. Ratna Bhaskar

Abstract: ***In this document a survey on recent developments in the design of binary adders is done. Adders are the core cells of any arithmetic unit which define the speed of any processor. The motivation of this paper is to focus on different kinds of architectures of higher order binary adders that provide high speed, less power to increase the level of integration on any integrated circuits (IC). Though there are many algorithms proposed for improving the speed of an adder the challenges still remain in designing fast and accurate adders. At the schematic level we scrutiny six different adders for high speed and low power applications.***

Key words: carry propagation delay, fast adder principles, carry selection, carry skip, prefix adders.

I. INTRODUCTION

In communications and portable multimedia applications emerge, there is always a need for more prominent designs with low voltage, very thin size and high frequency of operation. Adders are the leaf cells in any DSP systems. Hence design of fast adders has become crucial as it affects the execution time of a digital system in variables of voltage and latency.

Every binary adder takes full adder as a basic cell which adds three single bits and its expressions of sum and carry are

SUM= A XOR B XOR C and

COUT= A.B + A.C+ B.C

The basic multi bit binary adder is the Ripple Carry Adder (RCA). RCA utilizes full adders for multi bit addition. The carry out after each full adder addition is sent to next satge. If for an n-bit RCA C_{out} need to be evaluated it has to wait until full adder addition for n-1 stages is performed. Accordingly, the last sum and carry bits will be legitimate after a significant deferral [1].To overcome the problem of carry propagation adders ike carry look ahead adder, carry increment adder, carry select adder, carry look ahead adders and parallel prefix adders are presented in this paper[2] .A carry-look ahead adder (CLA) generates the sum bit irrespective of carry input it receives from previous stages. Carry is generated and propagated using look-ahead logic. The following figure 1.1 shows a basic 4-bit CLA [3].From the figure we can see a look-ahead structure logic is used for generating carry. Due to this more number of MOS transistors are required to implement the circuit which increases area of the chip [3, 4]. Carry Look-ahead Adder (CLA) is a kind of optimized adder when compared with conventional RCA.

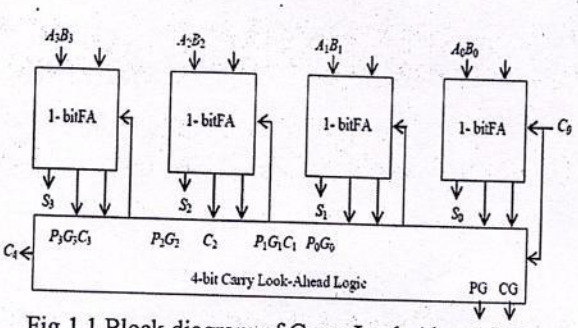

Fig 1.1 Block diagram of Carry Look Ahead Adder

Among the fast adders Carry Skip Adder (CSKA) is one option with reduced carry propagation delay. CSKA doesn't need any separate logic for generating and carry bits which reduces critical path length, but increases area and power dissipation same as RCA. Energy efficient product is very much low when compared to RCA and CLA [6, 7]. Layout for CSKA can be easily implemented with less wire lengths and regular structures. The slow compilation time of this adder structure to generate and propagate carry bits, limits its use in high frequency applications. However CSKA adder's performance degrades for higher order bits and in few combinations of bits, computational complexity equals RCA [8].

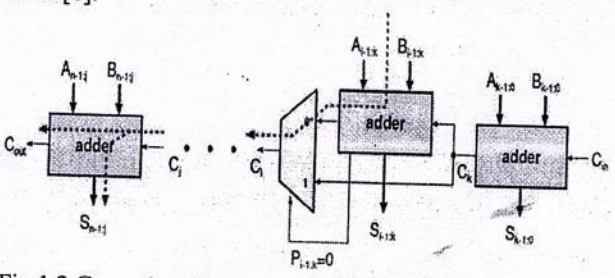

Fig 1.2 General architecture of Carry Skip Adder(CSKA)

$P_{i-1:k}$=0(not all propagate signals from bit i--1 to bit k are 1), the result of the carry is generated within this block.

$P_{i-1:k}$=1,the carry of the previous block is propagated.

Carry Increment Adder (CIA) is one more efficient adder. By using clock phase techniques CIA increases the speed of carry propagation and sum generation. It also has smaller chip area compared with RCA, CLA and CSKA adder topologies but if the bit width is increased speed will be decreased and chip area.[9].

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Sound Source Localization Using 3D Microphone Array

Dr.D.Bhavana, Dr.K.Kishore Kumar, Y.Vijay Kumar, N.Naga Bhanu Maitreyee, R. Naga Jyothirmayi, D.RaviTej

Abstract: Source localization and tracking with the microphone arrays had become a major interest in room acoustics, teleconference systems and tracking of sound producing objects. The current methods to estimate the source localization depend on conventional time-delay estimation techniques between microphone pairs, however, ignoring the ambient noise, reflections from surrounding and reverberation in the closed space. There are three basic and important methods for finding the direction of arrival (DOA) in a far field environment for sound sources. The first two approaches are based on Beamforming techniques: Delay and Sum Beamformer and Minimum Variance Distortion-less Response Beam former (MVDR). The third approach is a subspace method that uses the well-known algorithm, Multiple Signal Classification (MUSIC). The main goal is to prices-lylocate the direction of a sound source (azimuth, elevation) using recordings from an microphone array. This task is quite-demanding because of a high volume of acoustic noise produced by the UAV, causing negative signal-to-noise ratios (SNR). The resulted or obtained noise consists of harmonics components which are related to the speed of propellers and structural noise and also sometimes atmospheric noise due to the UAV's movements and propellers rotations. Another problem comes from the reality that a UAV is moving constantly, sometimes with quickshiftsindirections, resulting in very complex and comparable source trajectories in the microphone array's which is used as a frame for reference.

1. INTRODUCTION

RECENT advancements in acoustics source localization and tracking, using microphone arrays, have numerousapplications in room acoustics measurements, teleconference systems, automotive industry and tracking of sound producing objects for surveillance systems. The main aim of any localizer is to preciselylocate or estimate the direction of arrival (DOA) of a single or more active sound sources simultaneously, in order to point out the listening stream of sound field. A sound localizer is a core part of any capture system that uses microphone arrays of different configurations and beam-steering. The accuracy of sound source localization critically depends on the ambience and reverberation of indoor environments, such as small rooms, offices and auditorium. Traditionally, the localization methods are based on two ways to estimate the sound arrival direction.

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- *D.Ravi Tej, Assistant Professor, SRK institute of technology, Enikepadu, Vijayawada, 521108.*

The first approach is based on time difference of arrival estimation (TDOA) using paired combinations of microphone pairs, whereas, the second approach maximizes the source steered power response (SPR) at thedelay output and sum beamformer. Both approaches use single frame of captured sound for estimation, producing poor results in precision and also require additional post-processing algorithms to track multiple sources in real time applications. Recent developments in simultaneous multiple source localization, such as, MUSIC and ESPRIT resolve this problem up to satisfactory extent, however, these techniques are only applicable for narrowband sources In past few decades, microphone array based processing has been investigated for sound localization and tracking in order to emulate the existing techniques for multi-channel processing. Different microphone array configurations have been studied and proposed for estimation process, such as, direction of arrival (DOA) estimation and localizing the sources, using correlation among the two pairs of microphones. In our study, we investigated both methods, i.e. TDOA and SPR. In time delay estimation techniques, we have employed generalized cross correlation (GCC) method in frequency domain using several combinations of microphone pairs of the array with weighting functions. The array used for this purpose consists of six microphones with spherical geometric configurations in evenly distributed manners at its imaginary surface. Some of the weighting functions like, 'phase transform (PHAT)', 'smoother coherence transform (SCOT)' and the 'maximum-likelihood (ML)' for GCC algorithm are evaluated in reverberant and noisy environment. A comparative study and evaluation of these weighting functions is performed and presented; therefore, 'PHAT' weighting function is purposed for optimum detection of source in the presence of reverberant environment, especially for multiple sources. For SPR, minimum variance distortion less response weighting is evaluated and purposed for accurate source tracking application at getting high SNR of the steered signal in reverberation conditions. In addition, a practical ASLT

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LINEAR SOFT COMBINATION FOR COOPERATIVE SPECTRUM SENSING IN COGNITIVE RADIO NETWORKS OVER NAKAGAMI-M FADING CHANNELS

Nalluri Kalavathi[1], Dr.S.Sri Gowri[2]
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[2]*HOD, Dept of ECE, SRK Institute Of Technology, Vijayawada, AP, India 520010,*

Abstract-

In this paper we propose soft combining methods for cooperative spectrum sensing over fading channels in cognitive radio networks. Cognitive radio technology has been proposed to improve spectrum efficiency by having the cognitive radios act as secondary users to opportunistically access under-utilized frequency bands. Spectrum sensing, as a key enabling functionality in cognitive radio networks, needs to reliably detect signals from licensed primary radios to avoid harmful interference. However, due to the effects of channel fading/shadowing, individual cognitive radios may not be able to reliably detect the existence of a primary radio. So, we proposed Linear combination rule which is used to minimize the probability of missed detection subjected to an upper limit on the probability of false alarm based on Neyman-Pearson criterion. The detection performance of the proposed combination rule is verified in three typical fading scenarios: the Rayleigh fading, the Rician fading and the Nakagami fading. The Simulation results shows that the detection probability curves of soft combining schemes under independently and identically distributed (i.i.d.), Variables of Rayleigh, Rician and Nakagami fading channels.

Index Terms- soft combining methods, cognitive radio, Neyman-pearson criterion, cooperative spectrum sensing.

I. INTRODUCTION

TCognitive Radio (CR) is an adaptive, intelligent radio and network technology that can automatically detect available channels in a wireless spectrum and change transmission parameters enabling more communications to run concurrently and also improve radio operating behaviour. In which a transceiver can intelligently detect which communication channels are in use and which are not, and instantly move into vacant channels while avoiding occupied ones. This optimizes the use of available radio-frequency (RF) spectrum while minimizing interference to other users.

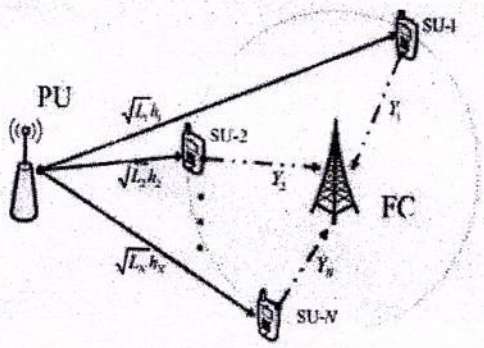

Figure 1: Cooperative sensing model with one PU, N SUs and one FC.

There are two main types of cognitive radio, full cognitive radio and spectrum-sensing cognitive radio. Full cognitive radio takes into account all parameters that a wireless node or network can be aware of. Spectrum-sensing cognitive radio is used to detect channels in the radio frequency spectrum.

Spectrum sensing is a critical technique in cognitive radio (CR) network for secondary user (SU) to identify the spectrum holes and to avoid harmful interference to primary user (PU). For example, by the European Telecommunications Standards Institute recommendation, the listen before- talk mz

, However, the sensing performance of an individual ED may deteriorate due to noise uncertainty or hidden node problem. To enhance the accuracy of spectrum sensing, cooperative sensing (CS) is proposed by exploiting the spatial diversity among the SUs. As shown in Fig.1, N SUs independently observe the band of interest, and forward the local test statistics $\{Y_j\}$ to a fusion center (FC)

According to the Neyman-Pearson criterion, the optimal fusion rule is the log -likelihood ratio (LLR) test

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Design of 21 GHz 1 x 16 Linear Array for mm-WaveRadar Applications

D. Ravi Tej*, K. Ch. Sri Kavya, and Sarat K. Kotamraju

Department of Electronics and Communication Engineering, Koneru Lakshmaiah Education Foundation, 522502, Andhra Pradesh, India

In this paper, the design and simulation of 21 GHz K-band frequency phased array antenna is proposed for reducing side lobe level in mm-wave radar applications. The array is of size 1 x 16 microstrip patch elements and the amplitude of array elements are distributed linearly according to tschebyshev polynomials. The design and simulated results are presented. A computer simulation technology (CST-2016) tool is used to simulate and validate the design approach. The simulated results below presented are valid over 21 GHz band and the simulation parameters contains gain, angular beamwidth, return loss and surface current distribution.

Keywords: Phased Array Antenna, Radar, CST Tool, Gain, Angular Beamwidth, Return Loss.

1. INTRODUCTION

Antenna systems are often required to have large apertures with significant radiated power levels, sensitive receive capability, and rapid beam scanning [1]. While reflector antenna systems with single or multiple feeds can meet many requirements, phased array antenna systems with number of individual radiating antenna elements provide increased beam agility and graceful degradation. Phased array aperture produces a narrow-beam (pencil beam) gain radiation pattern $G(\theta, \phi)$ that can be electronically scanned. In general, the phased array aperture can be composed of radiating and/or receiving antenna elements that are located on linear, planar or conformal surface [2]. Electronic scanning of the array antenna main beam is effected by means of phase shifters and time delays connected to individual array elements.

1.1. Linear Phased Array

In a linear array surface, an RF source has its signal divided into a number of channels by means of a power divider network. Each output path from the power divider is connected to a phase shifting device that applies a progressive (usually linear) phase shift from element to element such that the main beam of the array is scanned to a desired angle [3–4]. In this phased array architecture example, prior to the divided and phase-shifted signal reaching each of the antenna radiating elements, amplification is affected such that a desired power level is reached. The phase-steered and amplified RF signal from each element is coherent and additive in the direction of the signal path [5–6]. However, a percentage of the signal from each array element is electromagnetically coupled into the surrounding array elements, and the coupled signal generally becomes weaker as the distance to the coupled element increases, which is shown in the Figure 1. This coupled signal is referred to as array mutual coupling.

As depicted in Figure 2, usually a phased array antenna is required to generate a radiation main beam at an angle θ_s that can be scanned over a certain angular sector. The challenge is to design the array so that the beam scanning can be accomplished in an efficient manner with desired radiation characteristics.

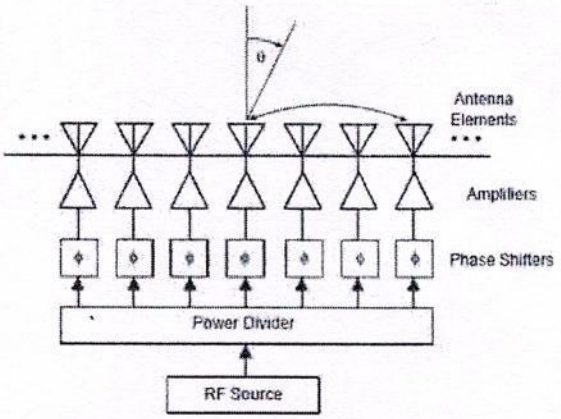

Fig. 1. Block diagram for a transmitting phased array antenna.

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Face Recognition based Attendance System using Machine Learning

[1]Amritha, [2]Sudhakar
[1]Student, [2]Assistant Professor
SRK Institute of Technology, Vijayawada

Abstract - **Attendance is an important part of daily classroom ascertainment for the teacher for his or her smooth running of class. At the beginning and ending of the class, usually teacher check the attendance, but the manual attendance system may leads to appear that a teacher may miss someone or some students may answer multiple times. Now a days, Machine Learning has been highly explored for computer vision applications. So, we use the concept of machine learning in Face – recognition for automatic attendance systems. In this project, we perform the face recognition and face detection algorithms, to provide the computer systems the ability of finding and recognizing human faces fast and precisely in images or videos so that the systems can used in giving attendance.**

keywords - **Machine Learning, face recognition, assessment, face detection algorithm, LBPH,HAAR**

I. INTRODUCTION

Generally, in the classroom the attendance was taken by the teachers manually at the beginning and ending of the class. The problem with this approach is that it requires some time to take and also the manual process will have chances to make mistakes in most of the cases. To overcome that problem, RFID (Radio Frequency Identification) was introduced in the past years. But those are also having the fail proof of attendance system. So, we are introducing the concept of Face Recognition Based Attendance system, the main objective the proposed system is to allot attendance to the students using face recognition-based algorithms to achieve fail proof attendance system.

Face detection is used for many applications for the identification of human faces in digital images or video. It is defined as specific case of object-class detection; where it is used to find the locations and sizes of all objects in an image that belong to a given class. The technology is can be able to predict frontal or near-frontal faces in a photo, regardless of orientation, lighting conditions or skin color.

Face Recognition is a form of biometric software that maps an individual's facial features mathematically and stores the data as a faceprint. The software consists of Deep Learning algorithms to compare a live capture or digital image to the stored face print in order to verify an individual's identity.

Face Recognition using Python

Faces are made of thousands of fine lines and features that must be matched. The face recognition using Python is used to break the task of identifying the face into thousands of smaller, bite-sized tasks, each of which is easy to face Recognition Python is the latest technology in Machine Learning techniques. OpenCV utilizes Machine Learning algorithms to search for faces within a picture.

Facial Recognition using Python Libraries

An easy way to detect faces using Python is by using the OpenCV package which is written in C/C++, OpenCV now provides bindings for Python. It uses machine learning algorithms to search for faces within a picture. Faces are very complicated, made of thousands of small patterns and features that must be matched. The face recognition algorithms break the task of identifying the face into thousands of smaller, bite-sized tasks, each of which is easy to solve, known as classifiers.

A face may have 5000 or more classifiers, all of which must match for a face to be detected. Since there are at least 5,000 or more tests per block, you might have millions of calculations to do, which makes it a difficult process. To solve this, OpenCV uses cascades. The OpenCV cascade segments the problem of detecting faces into multiple stages. It performs a detailed test for each block. The algorithm can be performed on around 30 to 50 of these stages or cascades, and it will only detect a face if all stages pass. The cascades are a bunch of XML files that contain OpenCV data used to detect objects.

II. LITERATURE REVIEW

Traditionally attendance was taken manually which is very time consuming and often leads to human error. Additionally, there are many uncertainties towards the sources of the attendance records which in fact, most of the attendance records are not retrieved from the actual situation. The old method that uses paper sheets for taking student's attendance can no longer be used. Based on the research, there are many solutions that are available to solve this issue. According to research journal "Attendance System Using NFC Technology with Embedded Camera on Mobile Device" (Bhise, Khichi, Korde,Lokare, 2015). The attendance system is improved by using Near Field. Communication (NFC) technology and mobile application. According to the research paper, each student is given a NFC tag that has a unique ID during their enrolment into the college. Attendance of

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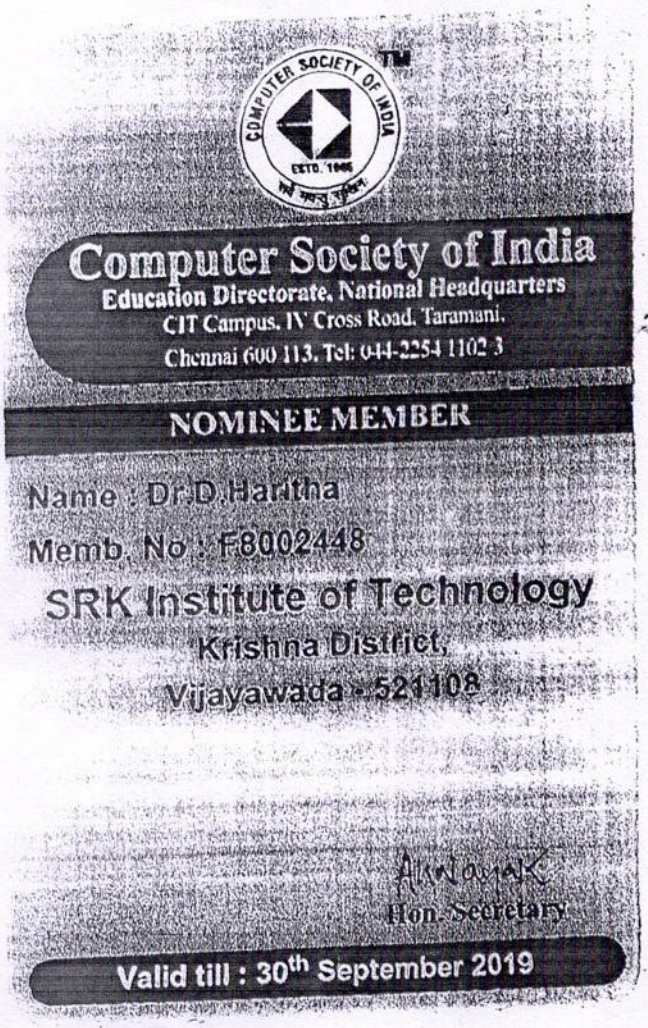

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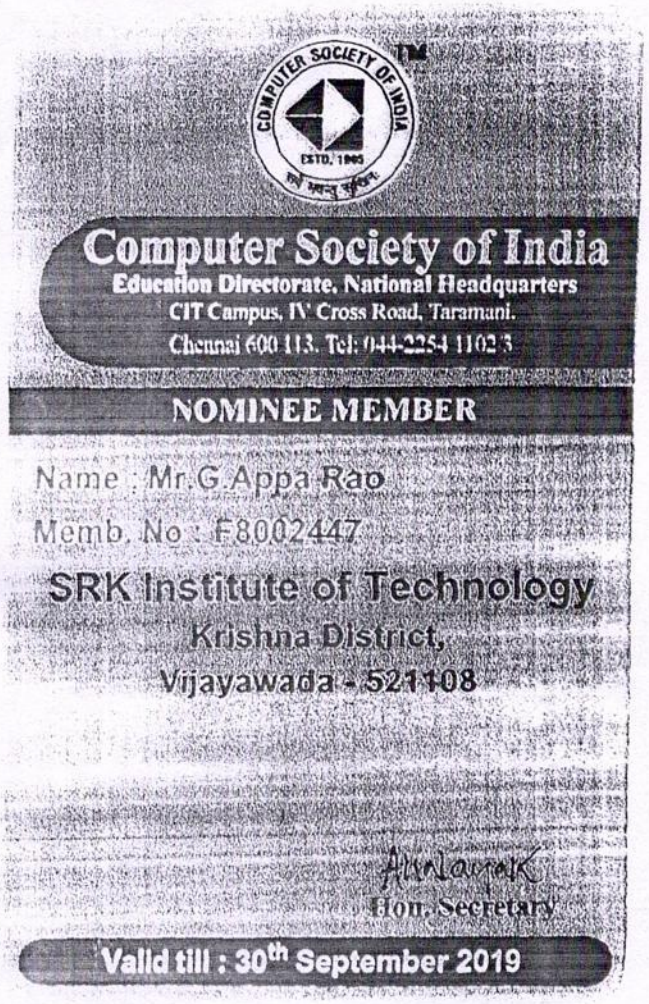

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An Effective Utilization of Bastion Host Services in Cloud Environment

G. Vijayababu, D. Haritha, R. Satya Prasad

Abstract: ***Now a days the cloud computing offers huge benefits, security issues are major concerns that setback from enjoying the full range of advantages it offers. Bastion Host is specifically designed for network security that is placed on the network perimeter which provides protection in the form of patches, authentication, encryption, and eliminates unnecessary software and services and is a well-known concept. This paper discusses Bastion Host services, types and bastion host in a cloud environment AWS. The Priority Queue method for effective utilization of services is proposed and the results are promising in terms of improving throughput and resource utilization.***

Index Terms: AWS, Bastion Host, DMZ, VPC

I. INTRODUCTION

Bastion Hosts are designed for secure information flow between the public network and a private network. Bastion hosts sit on the network perimeter. It can play multiple roles such as router, DNS, FTP, SMTP, News, and/or Web servers. The responsibility of the network administrator is to identify *the services needed on Bastion host to resist the possible attacks. The Hardening of Bastion hosts allow them to resist attacks from external sources thus protecting the internal network. Hardening involves securing the machine, configuring the required services, installing the necessary patches, controlling the services and protocols, locking the user accounts via modifying the Access Control Lists (ACLs),disabling all unnecessary TCP and UDP ports and running the security audit to establish a baseline. The task of the administrator is to do thorough testing of ACLs and unblocking or blocking the networking application without losing the required features. The usage of limited services reduces the resource utilization and throughput. In the existing systems the overhead of the network administrator is to identify the required services, check their healthiness, installations of required services and uninstallations of rest of the services. The various ways of identifying the required services and their installation, controlling and grouping the services without compromising the resource utilization and throughput are to be explored. Here the focus is on proposing the effective utilization of services using priority queue for the services which are needed. This method helps to reduce the overhead of the administrators, fastens the services and helps to increase the resource utilization and throughput.

Necessity of Bastion Hosts on AWS

Bastion host responsible for allowing access from an external network (Internet for instance) to a private network. As it's placed in a demilitarized zone, it should reduce the chances of infiltration. For instance, when there are Linux instances launched in a subnet of Amazon VPC, bastion host can be used in this environment to lessen the risk of letting in the SSH connections from an external network.

Basically, bastion hosts instances are placed in the public subnet that are invoked using either RDP or SSH. It acts as a jump box or jump server, after the establishment of the remote connection to the bastion host, and then permits to use SSH or RDP to log in to other instances (of the private subnets) in Virtual Private Cloud. Fundamentally Bastion host acts as a bridge between the private and public networks via the internet once configuration is done well with the help of Network ACLs and the security groups. Outside the corporate firewall or the DMZ are the areas where the bastion host is generally hosted. It has the high probability of being accessed by the untrusted computers or internet. However, in some circumstances, it can play a different role such as Email Server, Web server, FTP Server, Proxy Server, DNS Server, Honey pots etc.[1]

II. CHOOSING THE BASTION HOST OFFERED SERVICES

All types of services that a site required to access the Internet or offer to the Internet, services that are not secured providing directly via packet filtering, are provided by Bastion host.

The services which are not meant to access the Internet, should not be installed on a bastion host. For example, if the booting services are provided to the internal hosts, then it leads to compromising the bastion host and corresponding services will be available to the public network.

Services that are provided by the Bastion Host can be classified into four types:

A. Secured Services:

Packet filtering can be used for secured services and if a pure-proxy firewall is used, then the most conventional way of doing so is to use only the bastion host or shouldn't be provided by any means.

B. Insecure services as normally provided but be able to secure

Bastion host can be availed to host such kind of services.

C. Insecure services as normally provided but will not be possible to secure

If, in case, these types of services are certainly needed, only then such services should be provided that too on a victim host (as already discussed) and also should be disabled.

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Date 2/7/18.

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programe.

Paid to A. Radika (CSE) *Cash/Cheque* 400/-

the Sum of Rupees Four hundred rupees only.

Towards Workshop.

Prepared by

₹ 400/-

Approved by

Audited by

Receiver Signature

Roll No:NPTEL18CS38S22140096

To
S.R.K.INSTITUTE OF TEHNOLOGY
VIJAYAWADA

99/1271

Score	Type of Certificate
>=90	Elite + Gold Medal
60-89	Elite
40-59	Successfully Completed the course
<40	No Certificate

No. of credits recommended by NPTEL:3

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

ANKALA RADHIKA

for successfully completing the course

Computer Networks and Internet Protocol

with a consolidated score of **51** %

Online Assignments	18.06/25	Proctored Exam	33/75

Total number of candidates certified in this course: **686**

Prof. Anupam Basu
NPTEL Coordinator
IIT Kharagpur

Jul-Oct 2018
(12 week course)

A. Goswami
Prof. Adrijit Goswami
Dean
Continuing Education, IIT Kharagpur

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

FREE ONLINE EDUCATION

PRINCIPAL
SRK Institute of Technology
ENIKEPADU, VIJAYAWADA-521 108.

SRK INSTITUTE OF TECHNOLOGY
Enikepadu, Vijayawada 521108
Approved by AICTE, Affiliated to JNTUK, Kakinada
(ISO 9001:2015 Certified Institution)

Financial Support Request Letter

1. Name of the Staff Member : Dr./Mr./Ms. P. Bhagya Raju
2. Designation : Asst. Prof
3. Department : CSE
4. Conference / Publication / Membership Fee / Workshop / FDP / Seminar / Training / Industrial Visit / Tours With details : Internet Of Things (IOT)
5. Date & Duration of the Program : Jul 2018 – Oct 2018
6. Associating Professional Body / Agency : NPTEL.
7. Financial support particulars :
   i. Registration Charges : 400
   ii. Travelling Allowances :
   iii. Membership Fee :
   iv. Others (if any) :

Date: 3.7.18 Signature of the Staff Member

1. Recommendations of the HOD : Due to
2. Recommendations of the Principal : Well ✓ *Sanctioned / Not Sanctioned

Account Department

Accountant:

Date: 3.7.18

No.

VOUCHER

Date 8/7/18

SRK INSTITUTE OF TECHNOLOGY

ENIKEPADU, VIJAYAWADA - 521 108. Ph. : 2843839

Name of A/c Faculty development programe

Paid to P. Bhagya Raju (CSE) *Cash/Cheque* 400/-

the Sum of Rupees Four hundred rupees only.

Towards work shop.

Prepared by

₹ 400/-

Approved by

Audited by

P. B. Raju

Receiver Signature

Roll No:NPTEL18CS46S22140355

To
S.R.K.INSTITUTE OF TEHNOLOGY
VIJAYAWADA

55/1271

Score	Type of Certificate
>=90	Elite + Gold Medal
60-89	Elite
40-59	Successfully Completed the course
<40	No Certificate

No. of credits recommended by NPTEL:3

Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

PIDATHALA BHAGYA RAJU

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **78 %**

Online Assignments	25.00/25	Proctored Exam	52.5/75

Total number of candidates certified in this course: **3617**

Prof. Anupam Basu
NPTEL Coordinator
IIT Kharagpur

Jul-Oct 2018
(12 week course)

A. Goswami
Prof. Adrijit Goswami
Dean
Continuing Education, IIT Kharagpur

Indian Institute of Technology Kharagpur

PRINCIPAL

Roll No: NPTEL18CS46S22140355 To verify, please check scores: http://nptel.ac.in/noc

SRK Institute of Technology
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