

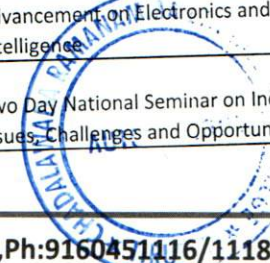


CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapur, A.P
Accredited by NAAC with "A" Grade, An ISO 9001 - 2015 Certified Institution

6.3.2 Average percentage of teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the last five years (8)

Year	Name of teacher	Name of conference/ workshop attended for which financial support provided	Amount of support in Rs.	Amount of support (in INR)
2021-2022	Dr.P.Krishna Murthy	An International Conference on Electronics, Electrical and Communication Technologies	3000	Three Thousand rupees only
2021-2022	M. Adiseshaiah	A Training Programme organized by JNTUA, Ananthapuramu	2500	Two Thousand Five hundred rupees only
2021-2022	Dr.Y.Murali Mohan Babu	An International Journal of Developments in Technology and Science	8500	Eight Thousand Five hundred rupees only
2021-2022	Dr.Y.Murali Mohan Babu	An International Journal of Developments in Technology and Science	8500	Eight Thousand Five hundred rupees only
2021-2022	Dr.P.Krishna Murthy	An International Journal of Developments in Technology and Science	8500	Eight Thousand Five hundred rupees only
2021-2022	Dr.P.Krishna Murthy	An International Journal of Developments in Technology and Science	8500	Eight Thousand Five hundred rupees only
2021-2022	Dr. J. Narendra Babu	An International Journal of All Research Education and Scientific Methods	8500	Eight Thousand Five hundred rupees only
2021-2022	Dr. J. Narendra Babu	An International Journal of Developments in Technology and Science	8500	Eight Thousand Five hundred rupees only
2021-2022	Dr. J. Narendra Babu	An International Journal of Developments in Technology and Science	8500	Eight Thousand Five hundred rupees only
2021-2022	S. Ali Asgar	An International Journal of Developments in Technology and Science	8500	Eight Thousand Five hundred rupees only
2021-2022	Dr. J. Srinu Naick	An International Journal for Reseach in Engineering Application & Management	8500	Eight Thousand Five hundred rupees only
2021-2022	Dr. S. Thulasi Krishna	International Journal of Scientific Research in Engineering and Management	8500	Eight Thousand Five hundred rupees only
2020-2021	Dr. K. Venkateswara Raju	An International Conference on Applied Mathematical Models	10000	Twelve Thousand Five hundred rupees only
2020-2021	Dr. S. Dilli	WorkShop on Payroll Management	2300	Three hundred rupees only
2020-2021	Dr. M. Neeraja	The International Conference on Tourism, Travel & Hospitality Management-2020	10000	Twelve Thousand Five hundred rupees only
2020-2021	Dr. M Dhamodhara Naidu	National Level Workshop on recent Trends and Opportunities in Physics	10000	Two Thousand rupees only
2020-2021	Dr. K. Venkateswara Raju	Six days National Workshop on Research Methodology	10000	Twelve Thousand Five hundred rupees only
2020-2021	Mrs. V. Shanthi	Six days National Workshop on Research Methodology	10000	Twelve Thousand Five hundred rupees only
2020-2021	Mrs. V. Shanthi	One Week International Workshop on Recent Advancement on Electronics and Computer Intelligence	10000	Twelve Thousand Five hundred rupees only
2019-2020	Dr. G Anupama	Two Day National Seminar on Indian startups: Issues, Challenges and Opportunities	4500	Four Thousand Five hundred rupees only



DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

2019-2020	Mrs. B. Vijaya	One Day Webinar on Recent Trends in Data Science, Challenges and Opportunities	500	Five hundred rupees only
2019-2020	Mrs. B. Vijaya	A National Conference on Artificial Intelligence - Current Trends and Applications	4500	Four Thousand Five hundred rupees only
2019-2020	M C V Suresh	International Technical Symposium on Opportunities & Challenges in Industry 4.0	4500	Four Thousand Five hundred rupees only
2019-2020	K. Nagendra Rao	International Journal of Innovative Technology and Exploring Engineering	4500	Four Thousand Five hundred rupees only
2019-2020	M C V Suresh	Workshop on Role of Energy Storage & Plug-in Electric Vehicles in Smart Grid	4500	Four Thousand Five hundred rupees only
2018-2019	Dr. G Anupama	The International Seminar on Impact of Globalization on MSMEs	4000	Four Thousand rupees only
2018-2019	Mr. B. Dhanunjaya	The International Conference on Essential Management Skills in the age of Disruption	4000	Four Thousand rupees only
2018-2019	Mr. B. Dhanunjaya	International Journal of Management Technology and Engineering	4000	Four Thousand rupees only
2018-2019	Mr. B. Dhanunjaya	The International Conference on Emerging Trends in Business and Commerce	4000	Four Thousand rupees only



Rama
DIRECTOR
Chadala Wada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



CHADALAWADA RAMANAMMA ENGINEERING COLLEGE
(AUTONOMOUS)

- c. The Faculty Member should act with tact and deal with students gently.
- d. **The Faculty Member should be strict but not harsh. Never use harsh words, which would hurt the feeling of the students** and medium of instruction is ONLY ENGLISH.

Interpretation:

Notwithstanding anything contained in these Rules, the Governing Body shall have the power to decide on any matter when any difficulty arises, regarding the interpretation or implementation of any of the above Rules.

Annexure:

Financial assistance for Paper Presentation / Publications for faculty/staff members

Given below are the norms for getting the financial assistance regarding Paper Presentations / Publications by the faculty members at the National and International Conferences, International Journals with immediate effect.

1. A letter is to be put-up to the principal, recommended by the concerned Head of the Department, enclosing a copy of communication received from the organizers accepting the presentation / publication of the paper. The letter must necessarily give an estimate of expenditure involved including T.A, D.A, Registration fee etc., if any, etc,
2. The paper must be presented by the faculty member in the department, fixing-up a convenient date in consultation with the department coordinator. This presentation can be either before or after receiving the acceptance letter from the conference organizers / publisher.
3. After the presentation of the paper in the conference, a claim is to be made by the faculty member giving the details of expenditure incurred showing the proof of such expenditure.
4. Faculty members are eligible for T.A & D.A. as per the Institute rules but must produce the tickets or photo copies of the tickets, receipt of registration fee, as the proof of such expenditure. However, no proof is required for claiming the D.A.
5. The actual expenditure incurred in the above forms, subject to a maximum of Rs.3,000/- will be sanctioned to the faculty member for paper presentations in the Conferences.
6. Faculty members presenting papers in International conferences abroad will be eligible for a financial assistance of Rs.10, 000/-.
7. Faculty members publishing papers in international journals are eligible to claim the expenditure involved in getting the paper published, subject to a maximum amount of Rs.5,000/-.



B. Rama
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(Autonomous), Tirupati

**Expenditure statement for Financial Support to teachers to attend
conferences/workshops**

(1-Apr-2017 to 31-Mar-2022)

S. No	Financial Year	Expenditure for Financial Support to teachers to attend conferences/workshops (Rs)
1	2021-22	90,500
2	2020-21	62,300
3	2019-20	23,000
4	2018-19	16,000



A handwritten signature in green ink, appearing to read "B. S. S. S.", positioned above the printed name of the Principal/Director.

Principal / Director

DIRECTOR

ChadalaWada Ramanamma Engineering College

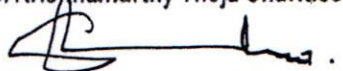
(AUTONOMOUS)

TIRUPATI

Chadalawada Ramanamma Engineering College
Profit & Loss Account As on 31.03.2022

Payments	Amount	Receipts	Amount
Laboratory Consumables	1125892	Tution Fee receipts	56564211
Teaching & Non Teaching Staff Salaries	57475299		
Maintenance & Spares	1224045		
<u>R & D :</u>	430736		
Seed Money for R & D	120000		
Financial Support for Conferences / Training	90500		
Library Journals	88851	Net Loss	12249195
Library - Purchase of books			
Fee Concession/ Scholarship for students	120000		
Travelling Expenses	1152620		
Miscellaneous Expenses	1390965		
<u>Other Expenses:-</u>			
Interest, Printing & Stationary,	5594498		
Total	68813406	Total	68813406

For C.V.S. Krishnamurthy Theja Charities



AUTHOR / CHAIRMAN







DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



Chadalawada Ramanamma Engineering College

Profit & Loss Account As on 31.03.2021

Payments	Amount	Receipts	Amount
Laboratory Consumables	1095434	Bank Fee Receipts	16162790
Teaching & Non Teaching Staff Salaries	54377511	Fee Receipts	47024350
Maintenance & Spares	2219347	Bank Interest	7517
R & D :-		Interest on Fixed Deposits	138830
Seed Money for R & D	100000		
Financial Support for Attending Conferences / Training	62300		
Library Journals	50740	Net Loss	1646507
Library - Purchase of books			
Fee Concession/ Scholarship for students	92000		
Travelling Expenses	934731		
Miscellaneous Expenses	982228		
Other Expenses:-			
Interest, Printing & Stationary,	5065703		
Total	64979994	Total	64979994

For C.V.S. Krishnamurthy Theja Charities



AUTHOR / CHAIRMAN



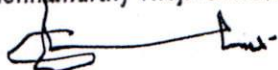
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Chadalawada Ramanamma Engineering College

Profit & Loss Account As on 31.03.2020

Payments	Amount	Receipts	Amount
Laboratory Consumables	420000	Bank Fee Receipts	17107272
Teaching & Non Teaching Staff Salaries	57255720	Fee Receipts	50407450
Maintenance & Spares	123480		
<u>R & D :</u>			
Seed Money for R & D	80000	Net Loss	2109094
Financial Support for Attending Conferences	23000		
Library Journals	231970		
Library - Purchase of books			
Fee Concession/ Scholarship for students	117000		
Travelling Expenses	887881		
Miscellaneous Expenses	1245653		
<u>Other Expenses:-</u>			
Interest, Printing & Stationary,	9239112		
Total		Total	
	69623816		69623816

For C.V.S. Krishnamurthy Theja Charities



AUTHOR / CHAIRMAN



Bonuma

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Chadalawada Ramanamma Engineering College

Profit & Loss Account As on 31.03.2019

Payments	Amount	Receipts	Amount
Laboratory Consumables	910455	Bank Fee Receipts	2857994
Teaching & Non Teaching Staff Salaries	59876908	Fee Receipts	32275875
Maintenance & Spares	1509182	Bank Interest	43031
<u>R & D :</u>	656859		
Seed Money for R & D	80000	Net Loss	39320379
Financial Support for Attending Conferences	16000		
Library Journals	218110		
Library - Purchase of books			
Fee Concession/ Scholarship for students	15000		
Travelling Expenses	1750041		
Miscellaneous Expenses	1685146		
<u>Other Expenses:-</u>			
Interest, Printing & Stationary,	7779578		
Total	74497279	Total	74497279

For C.V.S. Krishnamurthy Theja Charities

[Signature]
AUTHOR / CHAIRMAN



[Signature]



[Signature]

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

From
Dr. P Krishna Murthy,
Associate Professor,
Dept. of ECE,
CREC (A),
Tirupati.

15th November, 2021

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am Dr. P Krishna Murthy, working in ECE department, CREC (A).

This letter is against the claim for the expenses of attending an international Conference on Electronics, Electrical and Communication Technologies on 12th & 13th November, 2021, at Audisankara College of Engineering & Technology, Gudur, and Andhra Pradesh. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs. 3000/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

(Dr. P KRISHNA MURTHY)

① Approved

Bhuma

② P.F. of applicant

③ A/c subs: to do the needful

Bhuma

Bhuma

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI





KRISHNA THEJA

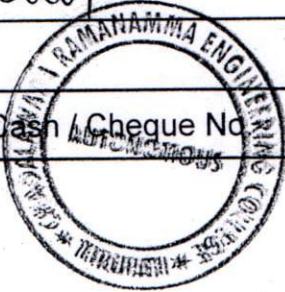
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 16/11/2021.....

Head of A/c	Amount Rs.
being Amount Paid to DY. P. Krishna Murthy	3000-
Rs. 3000/- in words Three Thousand only	
By Cash / Cheque No. TOTAL	3000-



Accountant

At Subica / Approved
to do the needful
Authorised by

Received Signature



DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



Audisankara College of Engineering & Technology
(Autonomous)
 Gudur, Nellore Dt., A.P.



CERTIFICATE

This is to certify that Prof./Dr./Mr./Miss/Mrs. ... *Dr. P. Krishna Murthy*
 From *Chadalawada Ramanamma Engineering College* presented / participated a paper entitled
A Novel Design of a Compact Planar Patch in an International Conference on
Antenna for ultra wide Band Applications
Electronics, Electrical and Communication Technologies (ICIEECT-21) on 12th & 13th November, 2021
 organized by the Department of Electronics and Communication Engineering & Electrical and Electronics
 Engineering, Audisankara College of Engineering & Technology, Gudur, Andhra Pradesh, India.

[Signature]
Dr.A.Mohan
 Director

[Signature]
Dr.R.Lokanadham
 Principal



[Signature]
Prof.K.Dhanunjaya
 HOD ECE

[Signature]
Dr. J. Suresh
 HOD ECEPATI

[Signature]
Dr.A.Immanuel
 Convener

From
M. Adisheshaiah
Assistant Professor,
Dept. of ECE,
CREC (A),
Tirupati.

21st June, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am M. Adisheshaiah, working in ECE department, CREC (A).

This letter is against the claim for the expenses of attending a One day training Programme organized by JNTUA, Ananthapuramu on New Technologies in the area of Microsoft Azure Fundamentals on 20th June, 2022. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs. 2500/- only.

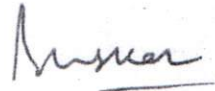
In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,


(M. ADISESHAIAH)

- ① Approved
- ② PF of the applicant
- ③ Af. Subias : to do the needful


21/06/22




DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



KRISHNA THEJA

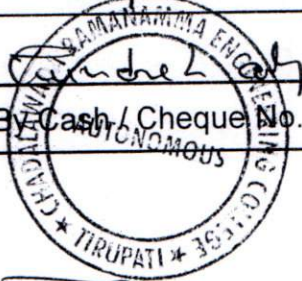
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 23/06/2022

Head of A/c	Amount Rs.
being Amount Paid to M. Adiseshaiah	2500/-
Rs 2500/- in words Two Thousand Five	
By Cash / Cheque No.	
TOTAL	2500/-



M. Adiseshaiah

Accountant

M. Adiseshaiah / Approved
to do the needful
Authorised by

B. Suresh



Received Signature



B. Suresh

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

ANANTHAPURAMU - 515 002
ANDHRA PRADESH

Certificate of Participation

This is to certify that Dr./Mr./Ms. MIDDE ADISESHAIHAH has attended a one day training program organized by JNTUA, Ananthapuramu and Microsoft Corporation India in association with Andhra Pradesh State Council of Higher Education under the Faculty Empowerment program on New Technologies in the area of "Microsoft Azure Fundamentals" on 20th June 2022.

V. Sankar Reddy
Program Co-ordinator
JNTUA



[Signature]
Country Director - Education
Microsoft Corporation India Pvt. Ltd

[Signature]
Chadalawada Ramanamma Engineering College
Chadalawada
Registrar
JNTUA

From
Dr. Y. Murali Mohan Babu,
Associate Professor,
Dept. of ECE,
CREC (A),
Tirupati.

15th June, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

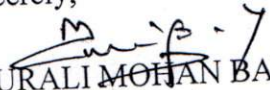
Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. Y. Murali Mohan Babu, working in ECE department, CREC (A).

I have published paper in an international Journal of Development in Technology and Science, Volume 4, Issue 2 in June, 2022. So, I request you to consider my contribution and pay incentives(including all expenses) (inclusive of all expenses) accordingly.

Thanking you,

Yours Sincerely,


(Dr. Y. MURALI MOHAN BABU)



- ① Approved
(Rs 8500/- all expenses inclusive)
- ② Pf of the applicant
- ③ A/c Section: to do the needful


DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Bunna
18/06/22



KRISHNA THEJA

Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : ...17/06/2022...

Head of A/c	Amount Rs.
being Amount Paid to Dr. Y. murali mohan Babu	8500
Rs. 8500/- in words Eight Thousand	
By Cash / Cheque No. <i>Handed as</i>	
TOTAL	8500/-



Accountant Signature

Accountant

Accepted/Approved to do the needful
Authorised by *[Signature]*

[Signature]

Received Signature



[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



WEED DETECTION AND AREA MEASUREMENT IN CROP YIELD

¹Dr.Y.Murali Mohan Babu, ²B.Sushmitha, ²G.Vijay Kumar, ²C.Naresh and ²K.Hindupriya

¹ Professor, ECE Dept., CREC, Tirupati, AP, India.

²Student, ECE Dept., CREC, Tirupati, AP, India.

ABSTRACT: Agriculture has been one of the primary source of income for most of the Indians. About sixty percent of the Indians income is from Agriculture and allied activities. How much a farmer can earn selling his crop yield depends on the amount of the yield he made from that crop, which in turn depends on the area of the land where he grew the crop. As the land is a limited resource there is a need to make sure it is utilized by the required crop rather than some other unintended crops what we call as weed crops. So, there is a need for removing such weed crops. This kind of work's being done manually and it takes a lot of time and also renders inefficiency. So, through this project will be using Digital Image Processing techniques and generate an algorithm to recognize the weed crops. It will be implemented in binary classification. The image acquisition followed by Image Pre-Processing is carried out. By using Median filter unwanted data is removed. Finally, weed detection is done by using a threshold (Otsu) based on area of detection.

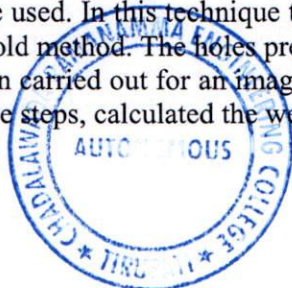
KEY WORDS: Image Processing, Weed Detection, Image acquisition, crops, and Image segmentation.

1. INTRODUCTION

The term 'Weed' is occasionally used to broadly describe species outside the plant kingdom that can live in diverse environments and reproduce quickly. A Weed plant is a plant that is growing where it is not wanted. It can also be a plant that was not intentionally shown in a specific location or plant that is more competitive or interfere with the activity of people. Another way to think of it is that the undesirable qualities of the plant are more problematic than the good qualities – based on the opinion of those who are viewing the plant. These have seeds that persist in the soil seed bank for many years. They compete with the desired plants for the resources that a plant typically needs, namely, direct sunlight, soil nutrients, water and space for growth. In the olden days, weed detection was done by employing some men, especially for that purpose. The men employed will detect the weed by checking every place in the field. But to detect the weeds they are still using manual power in many parts of the world. Later there came a few methods to detect the weeds automatically but due to lack of their accuracy, they are unable to reach the people. Causes of weed detection decreases the yields, interfere with harvest and produces lower product quality, interfere with pesticide application. So To overcome this problems this paper is going to help the farmers. It will be implemented in binary classification.

2. PROPOSED METHOD

This paper is based on identifying the weed plants in crop yields. Identifying of weed plants is done by using Image processing techniques. Proposed method follows nine steps. Image acquisition is the first step used. The input image is taken. The acquired image is in RGB (Red, Blue, and Green) and image is converted into grayscale. Green component image is obtained from grayscale image. Then the green component is subtracted from the formed image and the subtracted green component is obtained. Median filtering is used to remove the noise from the image. Image segmentation is the next technique used. In this technique threshold segmentation is employed. The name of this method is Otsu threshold method. The holes present in the image are to be filled. Morphological operation and labeling is then carried out for an image. The excessively small objects are to be removed in a image. After the above steps, calculated the weed and area by using Image processing Technique



Naresh
DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

From
Dr. Y. Murali Mohan Babu,
Associate Professor,
Dept. of ECE,
CREC (A),
Tirupati.

15th June, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. Y. Murali Mohan Babu, working in ECE department, CREC (A).

I have published paper in an international Journal of Development in Technology and Science, Volume 4, Issue 2 in June, 2022. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Dr. Y. MURALI MOHAN BABU)



- ① Approved Rs 8500/-
(Expenses all inclusive)
 - ② PF A applicant
 - ③ A/c Subson: to do the needful
- Bunna
16/6/22

Bunna
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



KRISHNA THEJA

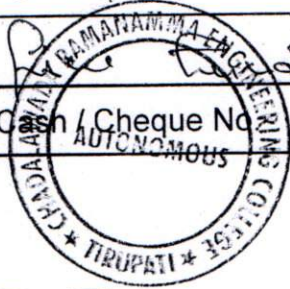
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : ...20/06/2022...

Head of A/c	Amount Rs.
being Amount Paid to Dr. Y. Murali Mohan Babu	8500
Rs. 8500/- in words Eight Thousand 2	
By Cash / Cheque No. <i>2022</i>	
TOTAL	8500



[Signature]
Accountant

Mr. Section: Approved
to do the needful
Authorised by *[Signature]*

[Signature]
Received Signature



[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



A Smart Access Control For Restricted Buildings Using Vehicle Number Plate Recognition System and QR Code Scanner

¹Dr.Y.Murali Mohan Babu, ²M.Yamuna, ²M.Sai Govardhan, ²S.Alekhya and ²N.Hareesh

¹Professor, ECE Dept., CREC, Tirupati, AP, India, ²Student, ECEDept, CREC, Tirupati, AP, India

ABSTRACT: Now- a-days Security is increased in apartments, hotels, government buildings. It requires identifying entering vehicles and controlling access to these facilities. The Platform with license plate recognition based on images of vehicle. Traditionally gate keepers or human beings do this job and need to stay for long hours, to check vehicles entering and manually keep data about those cars. This inefficient process demands excessive energy from security personnel and creates inconveniences. To overcome this, this work proposes a prototype design for gate access controlling system which scans the vehicle number plate using a camera and optical recognition and compares it with the stored in the database with the help of QR code whether to allow the car or not. The researchers developed this prototype design using a raspberry connected to pi camera, Ultrasonic Sensor and a servo motor. Python was also used as a development tool. The system was successfully tested.

KEY WORDS: LPR, Raspberry pi, Optical character recognition (OCR).

1. INTRODUCTION

The number of vehicles is expanding day by day. In parallel to this, they ought to recognize the vehicles and their permit plates are expanding. To supply this need, computer-based programmed vehicle license plate recognition system are being created as of late. In this ponder, a vehicle license plate recognition System and QR code Scanner was proposed. This system comprises of three major subjects. These are; localizing the plate locale from the car picture, fragmenting the characters from the license plate picture and recognizing the fragmented characters after these processing the optical character recognition checks from the database if the plate is registered then with the users has to enter the username and password then QR code will be open with scan then the gate automatically gets open without human interaction. Activity control and vehicle proprietor recognizable proof has become a major issue in each nation. Some of the time it becomes difficult to distinguish vehicle.Recover the vehicle number from the moving vehicle due to speed of the vehicle. LPR recognition vehicle's license plate number from a picture or picture taken by color, dark or white, or infrared camera. It is satisfied by the combination of a lot of procedures. Such as object detection, Image processing, Plate region, segmenting the characters, feature extracting and plate recognition. In this Paper presents vehicle number plate recognition system and the other section will be discussed related work and methodology of proposed system followed by the finding of the proposed system.

2. EXSITING METHOD

After the Camera captures the plate number, if the plate number is authorized the system allow to pass the vehicle. Then the servo motor lifts up the barrier automatically.By using method the Security is very less. And also anybody can take our car and easily enters into the apartments. So to modify that we added a security to existing system.

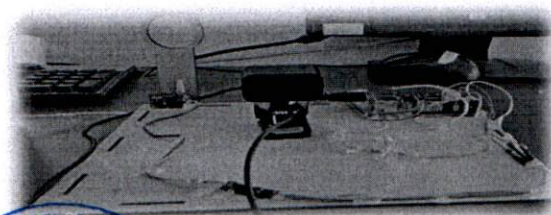


Figure 1: Servo Lift Up



From
Dr. P Krishna Murthy,
Associate Professor,
Dept. of ECE,
CREC (A),
Tirupati.

15th March, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. P Krishna Murthy, working in ECE department, CREC (A).

I have published paper in an international Journal of Development in Technology and Science, Volume 4, Issue 1 in March, 2022. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Dr. P KRISHNA MURTHY)



- ① Approved (Rs 8500/- all expenses inclusive)
- ② PF of the applicant
- ③ Application: to be the needful

Bansan
17/03/22

Bansan
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



KRISHNA THEJA

Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 17.03.2022

Head of A/c	Amount Rs.
being Amount Paid to Dr. P. Krishna Murthy	8500
Rs. 8500/- in words Eight Thousand Five	
By Cash	
TOTAL	8500



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Accountant

A/c Sahar / Approved
to do the needful
Authorised by *Baner*

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Received Signature



Baner
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



A NOVEL APPROACH TO DESIGN SKINTONE STEGANOGRAPHY FOR REAL TIME IMAGES

¹Dr. P. Krishna Murthy, ²Mr. S. Ali Asgar, ³Madhu Priya, ⁴P. Niharika, ⁵P. Tejaswini

¹Associate Professor & Head, ²Assistant Professor, ^{3,4,5} B.Tech III Year Student

^{1,2,3,4,5}Department of Electronics and Communication Engineering,

Chadalawada Ramanamma Engineering College (Autonomous), Tirupati, A.P.

Abstract— Steganography is the science of concealing the existence of data in another transmission medium. It does not replace cryptography but rather boosts the security using its obscurity features. As Proposed method is Biometric Steganography. In this work Biometric feature used to implement Steganography is Skin tone region of images. Proposed method introduces a new method of embedding secret data within edges of skin of image, as it is not that much sensitive to HVS (Human Visual System). Instead of embedding secret data anywhere in image, it will be embedded in only skin tone region. This skin region provides excellent secure location for data hiding. So, firstly skin detection is performed in cover images and then Secret data embedding will be performed in DWT (Discrete Wavelet Transform) domain as DWT gives better performance than DCT (Discrete Cosine Transform) while compression. This biometric method of Steganography enhances robustness than existing methods.

Keywords— *Steganography, embedded Secret data, Biometric feature, Human Visual System, Discrete Wavelet transform*

I. INTRODUCTION

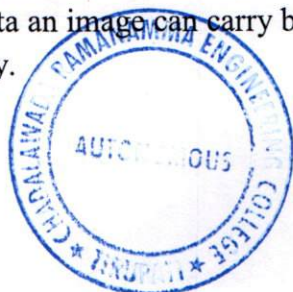
In this highly digitalized world, the Internet serves as an important role for data transmission and sharing. However, since it is a worldwide and publicized medium, some Confidential data might be stolen, copied, modified, or destroyed by an unintended observer. Therefore, security problems become an essential issue. Encryption is a well know procedure for secured data transmission. Frequently used encryption methods include RSA, DES (Data encryption standard). These unnatural messages usually attract some unintended observers' attention. This is the reason a new security approach called "steganography" arises. Hides the sentence "Meet me at nine". If the reader retains the second letter of each word in sequence.

In steganography secret message is the data that the sender wishes to remain confidential and can be text, images, audio, video, or any other data that can be represented by a stream of bits. The cover or host is the medium in which the message is embedded and serves to hide the presence of the message. The message embedding technique is strongly dependent on the structure of the cover, and in this paper covers and secret messages are restricted to being digital images. The cover-image with the secret data embedded is called the "Stego-Image". The Stego-Image should resemble the cover image under casual inspection and analysis.

For this the encoder usually employs a stego-key which ensures that only recipients who know the corresponding decoding key will be able to extract the message from a stego-image. For proposed method cover image is cropped interactively and that cropped region works as a key at decoding side yielding improved security.

There are two things that need to be considered while designing the steganographic system:

- (a) Invisibility: Human eyes cannot distinguish the difference between original and stego image.
- (b) Capacity: The more data an image can carry better it is. However large embedded data may degrade image quality significantly.



B. Suresh
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI
1

From
Dr. P Krishna Murthy,
Associate Professor,
Dept. of ECE,
CREC (A),
Tirupati.

15th June, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. P Krishna Murthy, working in ECE department, CREC (A).

I have published paper in an international Journal of Development in Technology and Science, Volume 4, Issue 1 in June, 2022. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Dr. P KRISHNA MURTHY)



① Approved (Rs 8500/-) all income expenses
② PF of the applicant
③ A/c Subson: to do the needful
Anusua
18/6/22


DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



KRISHNA THEJA

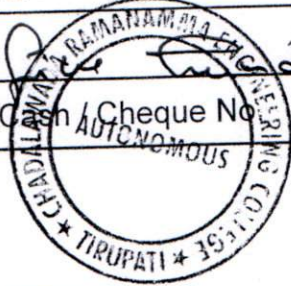
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : ... 20/06/2022 ...

Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to <i>Dr. P. Krishna Murthy</i>	<i>8500</i>
Rs. <i>8500/-</i> in words <i>Eight Thousand &</i>	
<i>By Cash / Cheque No. /</i>	
TOTAL	8500



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Accountant

*A/c Subm / Approved
to do the needful*

Authorised by *Bhaskar*

Received Signature *[Signature]*



Bhaskar

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



IMPROVING THE EFFICIENCY OF 4 BIT MULTIPLIER USING GDI TOOLS

¹Dr. P. Krishna Murthy, ²Mr. Syed Ali Asgar, ³A.Dhanuja, ⁴B.Layasree
¹Associate Professor & Head, ²Assistant Professor, ^{3,4}B.Tech III Year Student,

^{1,2,3,4}Department of Electronics and Communication Engineering, Chadalawada Ramanamma Engineering College (Autonomous), Tirupati, A.P.

Abstract- Multipliers play an important role in today's digital signal processing and various other applications. In high performance systems such as microprocessor, DSP etc addition and multiplication of two binary numbers is fundamental and most often used arithmetic operations. Statics shows that more than 70% instructions in microprocessor and most of DSP algorithms perform addition and multiplication. So, this operation dominates the execution time. That's why, there is need of high speed multiplier. Multiplier is the most commonly used circuit in digital devices. Multiplication is one of the fundamental functions that used in digital signal processing. Mostly high performance DSP systems that rely on hardware multiplication to achieve high data through put. There are many types of multipliers available depending upon the application in which they are used. We propose a Gate Diffusion Input (GDI) based cell design for 4-bit array multiplier, which is found to be much more power efficient in comparison with existing multiplier design. It ultimately reduces the Power consumption. Here the 4-bit multipliers based on GDI cells are designed using EDA Tanner and simulations are based on 180nm CMOS technology. The transistor count is reduced to 136 when compared with CPL Multiplier which requires 200 transistors.

Keywords: Multipliers, CPL Multipliers, GDI cells, Power consumption and Microprocessor.

I. INTRODUCTION

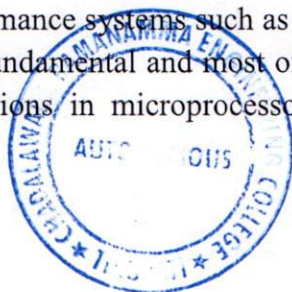
Low power design is a collection of techniques and methodologies aimed at reducing the overall dynamic and static power consumption of an integrated circuit (IC). Looking at the individual components of power as illustrated by the equation, the goal of low power design is to reduce the individual components of power as much as possible, thereby reducing the overall power consumption. The power equation contains components for dynamic and static power. Dynamic power is comprised of switching and short-circuit power, whereas static power is comprised of leakage, or current that flows through the transistor when there is no activity. The value of each power component is related to any of the following factors.

Multipliers play an important role in today's digital signal processing and various other applications. In high performance systems such as microprocessor, DSP etc addition and multiplication of two binary numbers is fundamental and most often used arithmetic operations. Statics shows that more than 70% instructions in microprocessor and most of DSP algorithms perform addition and multiplication. So, these operations dominates the execution time. That's why, there is need of high speed multiplier.

II. LITERATURE REVIEW

A. Multipliers

In today's digital signal processing and various other applications. Multipliers play an important role. Even in high performance systems such as microprocessor, DSP etc., addition and multiplication of two binary numbers is fundamental and most often used arithmetic operations. According to the Statics more than 70% instructions in microprocessor and most of DSP algorithms perform addition and



From
Dr. J. Narendra Babu,
Associate Professor,
Dept. of ECE,
CREC (A),
Tirupati.

12th November, 2021

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. J. Narendra Babu, working in ECE department, CREC (A).

I have published paper in an international Journal of All Research Education and Scientific Methods, Volume 9, Issue 11 in November, 2021. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Dr. J. NARENDRA BABU)



1. Approved
(Rs 8500/- all expenses including)
2. Pf of the applicant
3. A/c subson. to do the needful

Bunna

16/11/21

Bunna

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



KRISHNA THEJA

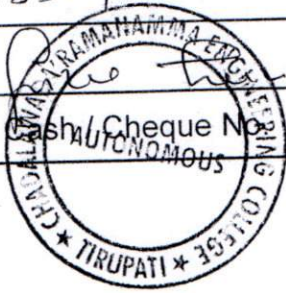
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date: 18/11/2021

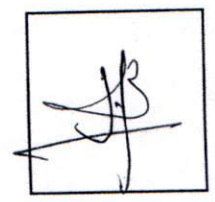
Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to DR. J. Narendra Babu	8500
Rs. 8500/- in words Eight Thousand 2	
By Cash	
TOTAL	8500



[Signature]
Accountant

A/c Subir Approved
to do the needful
Authorised by *[Signature]*



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[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



Wavelet Transform Based Fault Diagnosis In Analog Circuits With SVM Classifier

P.Priyanka¹, Dr. J. Narendra Babu², Dr. P. Krishnamurthy³

¹II Year Master of Technology, Department of Electronics and Communication Engineering, Chadalawada Ramanamma Engineering College, Tirupati, Andhra Pradesh

²Professor, Department of Electronics and Communication Engineering, Chadalawada Ramanamma Engineering College, Tirupati, Andhra Pradesh

³Associate Professor/Head of the Department, Department of Electronics and Communication Engineering, Chadalawada Ramanamma Engineering College, Tirupati, Andhra Pradesh

ABSTRACT

In this work, the diagnosis of hard and soft faults in analog circuits has been addressed using Wavelet Transform as a preprocessor and Support Vector Machine (SVM) as a classifier. Test circuits have been excited with random analog signal and the output responses have been analyzed with Daubechies Wavelet Transform. Principal component analysis (PCA) has been implemented to reduce the dimension of extracted features and faults are classified in principal component spaces with the help of supervised machine learning. The proposed algorithm is validated for two benchmark circuits (simulated with UMC-180nm PDK in CADENCE Virtuoso and processed using MATLAB 2019): Two- Stage OPAMP and second-order Sallen-Key band-pass filter. The use of a random signal in the proposed method minimizes the cost of the generation of the test signal. The potentiality of Wavelet Transform for time-frequency analysis of output responses has been utilized for characterization and subsequent fault diagnosis of the circuits. The accuracy and other performance parameters have been measured to show the effectiveness of the proposed method.

Keywords: Principal component analysis (PCA), Support Vector Machine (SVM), Second-order Sallen-Key band-pass filter, continuous wavelet transform (CWT), Wavelet Multi-Resolution Analysis (WMRA)

I. INTRODUCTION

There has been a growing interest in the last two decades in the development of automatic tools for testing and diagnosis of electronic circuits and systems. The testing techniques for digital circuits have been mature and cost effective, while the testing of analog and mixed analog-digital systems is more complicated and less understood and yet relevant to applications. In fact, the automatic fault testing and wavelets as a preprocessor to reduce the number of input features to a manageable size. Unfortunately, the decomposition based on wavelet transforms of a signal into approximation signals and detail signals is limited to the approximate signals. Additional processors are needed to decompose the details, resulting in the increase of computation cost.

The research presented here is to attempt to exploit wavelet packets to extract appropriate feature vectors from the signals sampled from the circuit under test (CUT) under various faults. The processing contains details as well as approximation coefficients. Optimal sets for training neural networks after normalization and principal component analysis (PCA) are transformed and the output of the neural networks reveals the fault patterns. This is a model-free technique due to the fact that the faults of a circuit are claimed and classified based on the energy of the output signal in various resolutions of its wavelet packet transforms.

Fault diagnosis in analog parts of integrated circuits plays vital role in the IC design flow. Fault diagnosis of analog circuits is far more demanding compare to fault diagnosis of digital circuits because of the subsequent issues: (1) A generalized fault model for components of analog circuit is difficult to define; (2) Effect of component tolerance is tough to remove in analog circuits. In the last few years, promising success in the domain of fault diagnosis has been achieved by machine learning. In machine learning, fault diagnosis is viewed as a problem of classification of fault in a predefined fault dictionary. The fault dictionary is generated by simulating the circuit with inserted fault. Thus, the fault dictionary contains the simulated data for individual fault. During fault diagnosis, the experimentally measured data is compared with the fault dictionary to identify in which class of the fault dictionary the measured data belongs.



From
Dr. J. Narendra Babu,
Associate Professor,
Dept. of ECE,
CREC (A),
Tirupati.

15th June, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. J. Narendra Babu, working in ECE department, CREC (A).

I have published paper in an international Journal of Development in Technology and Science, Volume 4, Issue 2 in June, 2022. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Dr. J. NARENDRABABU)



- ① Approved
(Rs 8500/- all expenses inclusive)
 - ② PF of the applicant
 - ③ A/c solution: to do the
needful
- Bunna

Bunna
DIRECTOR
Chadalawada Romanamma Engineering College
(AUTONOMOUS)
TIRUPATI



KRISHNA THEJA

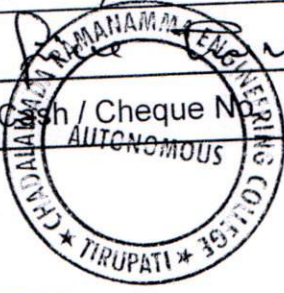
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : 20/06/2022

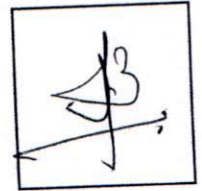
Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to Dr. S. Narendra Babu	8500
Rs. 8500/- in words Eight Thousand	
By Cash / Cheque No. <i>Handwritten</i>	
TOTAL	8500



Accountant
Accountant

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to do the needful
Authorised by *Signature**



Received Signature



Signature
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



SKIN TONE STEGANOGRAPHY USING LSB

¹Dr.J.Narendra babu, ²B.Leelamani, ²A.Himagiri, ²E.Tirupathi and ²G.Hareesh

¹Professor, ECE Dept., CREC, Tirupati, AP, India.

²Student, ECE Dept., CREC, Tirupati, AP, India.

ABSTRACT:Steganography techniques were introduced and developed to provide security for the information. Steganography is a process of hiding the data in a particular image to achieve secret communication. Steganography technique helps to secure the data from the hacking and copyrighting issues and unauthorized views. In this work, we introduce a new LSB-based steganography technique to embed a large amount of data in RGBA images while keeping the perceptual degradation to a minimum. The LSB steganography helps to hide more data without data compression compared to other algorithms. In this method, the pixels of the image are converted into binary values. The least significant bit of each pixel of the base image is replaced with the least significant bit of the secret image. The encrypted image is formed. The stego-image is decoded by using the LSB algorithm to view the secret data.

KEYWORDS:Image Processing, Steganography, LSB steganography

1. INTRODUCTION

In this highly digitalized world, the Internet serves an important role in data transmission and sharing. However, since it is a worldwide and publicized medium, some Confidential data might be stolen, copied, modified, or destroyed by an unintended observer. Therefore, security problems become an essential issue. Steganography was first introduced by cryptography and DCT steganography. The disadvantage of the DCT steganography is losing of data and data compression. The drawbacks in DCT steganography can be resolved by using LSB steganography. The LSB Steganography increases the capacity of hidden data. In this method cover image is the medium in which the message is embedded and serves to hide the presence of the message. The message embedding technique is strongly dependent on the structure of the cover, and in this paper covers and secret messages are restricted to being digital images. The cover image with the secret data embedded is called the "Stego-Image". The stego-image is decoded and viewed a secret image. The audio and text steganography is also achieved by using LSB steganography. The drawbacks in LSB steganography will be solved by using DWT(Discrete wavelet Transform) steganography. The video steganography is also possible by using DWT steganography. High security will be provided by using steganography methods. The LSB and DWT steganography techniques are mostly used to provide security to the information from the hackers and copyright issues.




DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

From
Dr. J. Narendra Babu,
Associate Professor,
Dept. of ECE,
CREC (A),
Tirupati.

15th June, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. J. Narendra Babu, working in ECE department, CREC (A).

I have published paper in an international Journal of Development in Technology and Science, Volume 4, Issue 2 in June, 2022. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Dr. J. NARENDRA BABU)



- ① Approved
(Rs 8500/- all expenses inclusive)
- ② PF of the applicant
- ③ Affection: to do the needful
Bunna

Bunna
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



KRISHNA THEJA

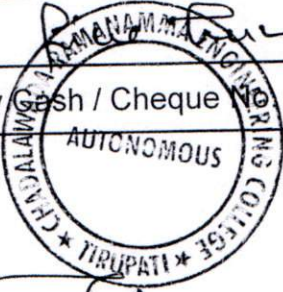
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

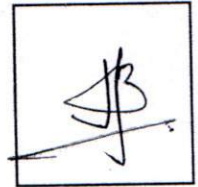
Date : 21/06/2022

Head of A/c	Amount Rs.
being Amount Paid to Dr. J. Narendra Babu	8500
Rs. 8500/- in words Eight Thousand 2	
By Cash / Cheque	
TOTAL	8500



Accountant

Approved / Application
to do the needful
Authorised by *Bunekar*



Received Signature



Bunekar
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



LOCATION TRACKING AND WARNING SYSTEM OF A USING ARDUINO

¹Dr.J.Narendra Babu, ²V.Navitha, ²V.Manjunadha Reddy, ²P.Jaswanth and ²V.Pavani

¹Professor, ECE Dept., CREC, Tirupati, AP, India.

²Student, ECE Dept., CREC, Tirupati, AP, India.

ABSTRACT: Most of the water accidents occurring due to improper maintenance of water boats. To overcome these problem, this research work to keep on monitor the conditions of water boat and track the location of a ship continuously. If any changes or faults condition occurs in the boat, the proposed system will send the emergency message to the captain and a control room to save human lives. The main objective of the proposed system is to track the location of the ship and alert the rescue team as well as the captain when the ship/boat is in critical situation or in an emergency condition. This system mainly uses ARDUINO UNO, GPS, and GSM for tracking and communication. The water level sensor is used to detect the bottom portion of the ship helps to monitor the ship's condition and it is simply used to verify whether the boat is present above the safety level. If the ship gets overloaded, an indication will be displayed on the LCD display and also a message will be sent to the mobile phone of captain and also to the control room. Simultaneously the engine will be turned off to stop the ship/boat. Apart from this an ultrasonic sensor is used to detect the nearer object.

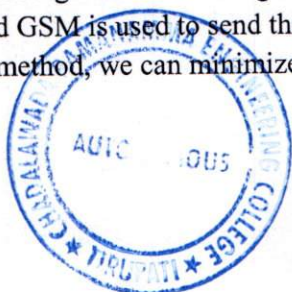
KEY WORDS: Arduino Uno, GPS, GSM, Ultrasonic Sensor, Water level Sensor.

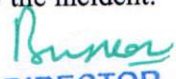
1. INTRODUCTION

This paper has been proposed to deal with this issue by checking the boat conditions and track the region of the boat endlessly. If, any bizarre condition is identified in the boat, by then the gadget sends the headings to the concerned authority through SMS. The essential objective of this paper is to follow the region of the boat and watchfulness the rescue gatherings and casualties, when the boat is at not kidding risk or in an emergency condition. Essentially, this gadget uses ARDUINO, GPS, and GSM for additional correspondence. The water sensors present at the base fragment of the boat assists with screening the boat's condition and it is basically used for knowing regardless of whether the boat is accessible over the security level. If, the boat moves past water level, a SMS will be sent to the control room.

2. PROPOSED METHOD

In Proposed System, if any changes or faults condition occurs in the ship, the system will send the information to the control room via SMS to save human lives. Water level sensors are used to identify the ships water level capacity thereby if the water level of the ship goes up from normal to danger level an SMS along with the coordinates of the ship using GPS will be sent to the rescue department. Ultrasonic sensor is used to detect the obstacles in front of the ship if obstacle detected then it shows a message in LCD. Along with this if water rose up mean we can stop the engine of the ship too. GPS and GSM is used to send the coordinates of the ship to the authorities during emergency situation. In this method, we can minimize the fatality rate since we can identify the incident.




DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

From
S. Ali Asgar,
Assistant Professor,
Dept. of ECE,
CREC (A),
Tirupati.

14th March, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am S. Ali Asgar, working in ECE department, CREC (A).

I have published paper in an international Journal of Development in Technology and Science, Volume 4, Issue 1 in March, 2022. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.


Thanking you,


Yours Sincerely,

(S. ALI ASGAR)



- ① Approved
(Rs 8500/- all expenses inclusive)
- ② R of the applicant
- ③ At the discretion; to do the needful



16/3/22


DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



KRISHNA THEJA

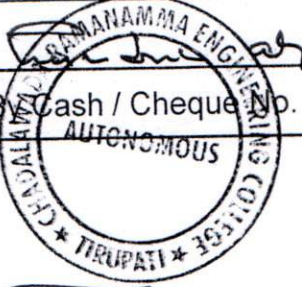
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 17/03/2022...

Head of A/c	Amount Rs.
being Amount Paid to S. Aji Argar	8500
Rs. 8500/- in words Eight Thousand Five	
By Cash / Cheque No.	
TOTAL	8500



Accountant

Approved /
A/c Subran to do the
needful

Authorised by

Bansara

Received Signature

A. Gayathri



Bansara
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



A NOVEL APPROACH TO IMPROVE PERSONAL ASSISTANCE FOR VISUALLY IMPAIRED PEOPLE USING RFID

¹Mr. S. Ali Asgar, ²Dr. P. Krishna Murthy, ³P. Niharika, ⁴M. Madhu Priya, ⁵P. Tejaswini

¹Assistant Professor, ²Associate Professor & Head, ^{3,4,5}B.Tech III Year Student

^{1,2,3,4,5}Department of Electronics and Communication Engineering,

Chadalawada Ramanamma Engineering College (Autonomous), Tirupati, A.P.

Abstract— One of the technical challenges for the modern society to detect and find a solution for visually impaired, with increased security and service motto towards the society helped to bring a solution which would help the visually impaired in the industries and other companies. Today technology is improving daily in different aspects in order to provide flexible and safe movement for the people. With the latest technology, it is possible to extend the support give to people with visual impairment during their mobility; this project proposes an economical ir and RFID based stick for visually challenged people, so as to gain a personal independence and free from the external help. Each stick is fitted with a RFID tag and in and there is a RFID reader which reads all the information and it will announce by using play back module. By using these two technologies the problem faced by people are efficiently eliminated.

Keywords— RFID, Embedded System, Micro Processor, Micro Controller and Arduino Uno.

I. INTRODUCTION

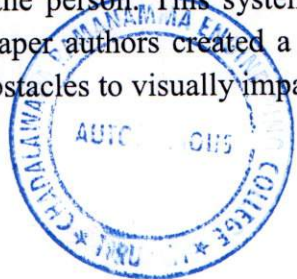
People with visual disabilities, i.e., partially or totally blind, are often challenged by places that are not designed for their special condition. Several everyday objects that are present in most built environments become real obstacles for blind people, even putting at risk their physical integrity. This project presents a prototype of a navigation system that helps the visually impaired to move within indoor and outdoor environments. RFID-enabled devices for the blind and visually impaired incorporate a reader integrated circuit (IC) which ideally can read RFID tags or labels based on ISO/IEC 15693. An RFID tag is placed on an item and people use their device to scan the tag and record a voice note to it using the embedded speech capability.

The voice note is now linked to the item and once the item is rescanned, the voice note is played, making the item easily recognizable. One example of a community-based RFID system for the visually impaired is in St. Gallen, Switzerland. Here, visually impaired people more confidently ride public transportation systems that incorporate bi-directional communication between RFID-enabled personal assistants, vehicles and information points.

An embedded system is one kind of a computer system mainly designed to perform several tasks like to access, process, and store and also control the data in various electronics- based systems. Embedded systems are a combination of hardware and software where software is usually known as firmware that is embedded into the hardware. One of its most important characteristics of these systems is, it gives the o/p within the time limits. Embedded systems support to make the work more perfect and convenient.

II. LITERATURE REVIEW

This system comprises ultrasonic sensor and Bluetooth module. The ultrasonic sensor detects obstacle of any height in front or slightly sideways of the person. Then it calculates the distance between object and the person. This system notifies to person about obstacles using vibrations and audio alert. In this paper authors created a smart walking stick which having different sensors on it which helps detect obstacles to visually impaired persons.




DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

From
Dr. J. Srinu Naick
Professor,
Dept. of EEE,
CREC (A),
Tirupati.

19th July, 2021

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,


Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. J. Srinu Naick, working in EEE department, CREC (A).

I have published paper in an international Journal for Research in Engineering Application & Management, Volume 7, Issue 4 in July, 2021. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,


(Dr. J. SRINU NAICK)



① Approved
(Rs 8500/- all expenses included)

② PF of the appointment

③ A/c submission to do the needful





DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

19/07/21



KRISHNA THEJA

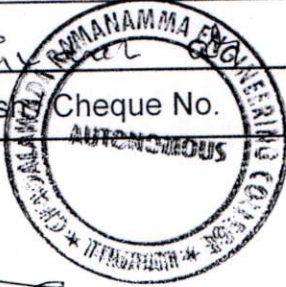
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 21/07/2021

Head of A/c	Amount Rs.
being Amount Paid to Dr. J. Srinu Babu	8500
Rs. 8500/- in words Eight Thousand Five	
By Cash / Cheque No. TOTAL	8500



[Handwritten Signature]

Accountant

A/c Suban / Approved to do the needful

Authorised by *[Handwritten Signature]*



Received Signature



[Handwritten Signature]

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Fuzzy Control Improve Grid synchronization of Micro Grid Distributed WEC-PV-BEC Based Generation System

K.G. Ravi Krishna, B.Tech. Student, EEE Department, Chadalawada Ramanamma Engineering College, Tirupati, Andhra Pradesh, India, kgravikrishna15@gmail.com

Dr. J. Srinu Naick, Professor, EEE Department, Chadalawada Ramanamma Engineering College, Tirupati, Andhra Pradesh, India, speaksrinu@gmail.com

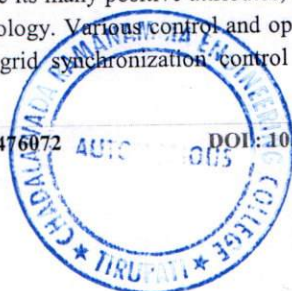
Abstract—This paper proposes improve For a solar photovoltaic (PV)-wind-battery energy storage (BES) based micro grid system, the grid synchronisation of a renewable (Solar and Wind) energy sources based distributed generation system (DGS) is controlled to operate in the grid connected mode and an islanded mode using the Mamdani-fuzzy logic controller (FLC). An expert speed controller based on Mamdani-fuzzy logic controller (FLC) has been developed for a solar photovoltaic (PV)-wind-battery energy storage (BES) based micro grid system. The proportional and integral gains of the proportional integral (PI) controller are tuned by the Mamdani FLC. During dynamic situations, the traditional PI controller suffers from excessive overshoot and narrow bandwidth. These problems are overcome by fine-tuning the controller gains on a regular basis. The Mamdani adapted PI controller takes the speed error and the change in speed error as input and provides the adjusted gain parameters of the PI controller according to the operating conditions. For maximum power extraction, the double-stage solar PV array with intermediate boost converter employs an incremental conductance (InC) MPP method. The flexible power flow is allowed by using a battery at the DC link. A prototype is developed in the laboratory and tested in accordance to IEEE519 standard under steady state and dynamic conditions including variable wind speeds, changing insulation and load unbalanced conditions.

Keywords —Distributed Generation System, Load converter, Machine Converter, photovoltaic, Power Quality, Synchronization.

I. INTRODUCTION

Due to the abundance of renewable energy sources (RESs), distributed generation systems (DGSs) based on RESs are gaining traction now a day's [1]-[2]. Environmental concerns caused by the retirement of fossil fuel power facilities have fueled the expansion of RES-based DGS. Due to the intermittent nature of RES such as solar and wind, the RES-based DGS faces various issues, such as voltage and frequency fluctuations in an islanded mode [3]. As a result, in the islanded mode of operation, the storage battery is introduced in the RES based DGS. The importance of a storage battery in an islanded DGS has been reported by Alsaïdan et al. [4] and Datta et al. [5]. As a result, RES-based DGSs can provide high-quality power to local loads. Despite its many positive attributes, the DGS is still a young technology. Various control and operational challenges, such as grid synchronization control in grid-

connected mode, stability and reliability, power management, and voltage control in islanded mode [6]-[10], are thoroughly investigated. Various grid synchronization approaches are described in the literature [11]-[14] in order to increase control performance and inject high quality power into the grid. In multifunctional DGS, the accurate phase angle detection approach plays a critical role in the grid synchronization unit. Various phase angle detection techniques have been published in the preceding few decades, including SRF-PLL (Synchronous Reference Frame- Phase Locked Loop), ANF (Adaptive Notch Filter) [13], and CDSC-PLL (Cascaded Delayed Signal Cancellation) [14]. When input voltages are distorted and imbalanced, these reported techniques use a phase angle detection methodology. However, under nonlinear loading, this technique ignores the mode of transitioning from an islanded to a grid-connected state. The MSOS-PLL (Modified Second Order Sequence Frequency Locked Loop) is utilized to estimate the phase angle of the grid



From
Dr. S. Thulasi Krishna
Professor,
Dept. of CSE,
CREC (A),
Tirupati.

18th June, 2022

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. S. Thulasi Krishna working in CSE department, CREC (A).

I have published paper in an international Journal of Scientific Research in Engineering and Management, Volume 6, Issue 6 in June, 2022. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Dr. S. THULASI KRISHNA)



① Approved
(Rs 8500/- all inclusive expenses)

② FF of the applicant

③ Apc Section: to do the needful
Bunna

20/06/22

Bunna
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Smart Irrigation using Android and IOT

Dr. S.Thulasi Krishna, Sanangula Rajesh,

Dept of CSE

Chadalawada Ramanamma Engineering College (Autonomous),
Tirupati, Chittoor (Dt), AP.

1. INTRODUCTION

Abstract- Agriculture has been the most main tradition from very inception of the human humanization. Conservative methods that are used for irrigation, such as overhead sprinkler and flood type is not that much well organized. Due to wastage of water and high moisture in the soil It also promotes the formation of diseases and fungus. In order to eliminate the travail associated with irrigation We made the modish irrigation system with an Android-based mobile application and IOT sensors, controller and so forth. In this we basically use sensors (like humidity, moisture content, temperature) to appropriate real data from the irrigation site which are fed to the central regulator. Wi-Fi (WLAN) gadgets is used to provide Internet connectivity to a local and cloud server. An Android application is developed to display the four Sensors measurements on a user-friendly graphically interface in real-time as received from the server. The system automatically Enable and disable the irrigation pumps based on measurements received from the soil moisture sensor. after attaining certain measured threshold rate, it also gives to the user that flexibility of starting a pump on the farmland remotely using his Android mobile device. The main objective of this project is to control the water supply, provide adequate water to the plants through a smart phone and monitor them.

Index Terms- Irrigation system, Internet of Things, soil moisture sensor, temperature sensor, Cloud, Server, Database.

India is one of the most famous agricultural countries in the world. Planting of plants and breeding of various animals started here around 9000 BC. The result is that agriculture first originated in the west of the Indus Valley, and in Mehrgarh in northeastern Balochistan, the first rural landmarks in India in the 5th millennium BCE. Later a wide variety of animals and plants were bred independently in different areas. According to the World Bank collection of development indicators for 2018, India has 60.43% agricultural land. And the population of India by 2020 will be around 138 crores. It is not easy to grow enough food for these people. Now crop control is also becoming more difficult as farmers in different areas are not able to harvest their crops properly due to low and flood (high) irrigation. Due to this, there is a possibility of food shortage in large numbers in the country. Such irrigation problems cannot be solved by the farmer alone so a modern irrigation system is required. That advanced drainage system can control the flow of water and control the same water on its own without the need for man. This



From
Dr. K. Venkateswara Raju,
Associate Professor,
Dept. of H&BS,
CREC (A),
Tirupati.

11th January, 2021

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. K. Venkateswara Raju, working in H&BS department, CREC (A).

I have attended International Conference on Applied Mathematical Models, organized by Department of Mathematics, PSG College of Technology in Coimbatore, which was held during 07th to 09th January, 2021. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,


(Dr. K. VENKATESWARA RAJU)



- ① Approved Rs 10,000
- ② Expenses of all inclusive PF of applicant
- ③ Forward to the account return, to do the needful


DIRECTOR

Chadalawada Ramanna Engineering College
(AUTONOMOUS)
TIRUPATI





KRISHNA THEJA

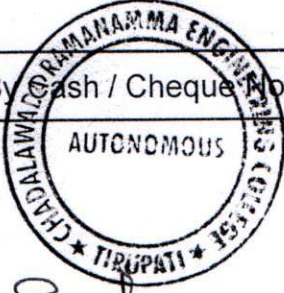
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 14/01/2021

Head of A/c	Amount Rs.
being Amount Paid to DR. K. Venkateswara Raju	10,000
Rs. 10,000/- in words Ten thousand only	
By Cash / Cheque No. TOTAL	10,000



[Signature]

Accountant

Account submit / approved to do the receipt

Authorised by

[Signature]



Received Signature



[Signature]

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



PSG COLLEGE OF TECHNOLOGY, COIMBATORE, INDIA
DEPARTMENT OF MATHEMATICS

International Conference on Applied Mathematical Models
(ICAMM 2021)-Online
CERTIFICATE OF PARTICIPATION

This is to certify that **KONDURU VENKATESWARA RAJU**, Associate Professor of **CHADALAWADA RAMANAMMA ENGINEERING COLLEGE (AUTONOMOUS)** has participated in the **International Conference on Applied Mathematical Models (ICAMM 2021) - Online** organized by Department of Mathematics, PSG College of Technology, Coimbatore, India during January 7 - 9, 2021.

K. Sangava

Dr. K. SANGAVAI
Organizing Secretary

Dr. C. Porkodi

Dr. C. PORKODI
Convener



Director

DIRECTOR
Chadala Wada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Chadala Wada Ramanamma Engineering College

(AUTONOMOUS)

TIRUPATI

From
Dr. S. Dilli,
Associate Professor,
Dept. of H&BS,
CREC (A),
Tirupati.

28th September, 2020

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am Dr. S. Dilli, working in H&BS department, CREC (A).

This letter is against the claim for the expenses of attending a Workshop on Payroll Management, organized by Department of Master of Business Administration, Sree Vidyanikethan Institute of Management, Tirupati which was held during 24th - 26th September, 2020. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs. 2300/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

S. Dilli
(Dr. S. DILLI)



Bunee
DIRECTOR
Chadalawade Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

[Signature]

① Approved Rs 2300/
② A/c section : for
favor and needful



KRISHNA THEJA

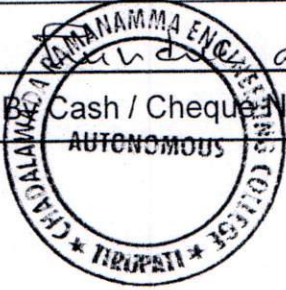
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 30/09/2020

Head of A/c	Amount Rs.
being Amount Paid to Dr. S. Dilli	2300
Rs. 2300/- in words Two Thousand 2 Three	
Cash / Cheque No. <i>ab</i>	
TOTAL	2300



[Signature]
Accountant

*A/c section / Approved
to do the needful*

Authorised

[Signature]

S. Dilli

Received Signature



[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



CERTIFICATE

OF PARTICIPATION

This is to Certify that

Dr./Mr./Ms./Miss Dr. S. Dilli
of Chadalawada Ramanamma Engineering College (Autonomous),
Tirupati
has participated in the Workshop on **"Payroll Management"** held on 24th to 26th
September, 2020 organized by the Department of Master of Business Administration
(M.B.A), Sree Vidyanikethan Institute of Management, Tirupati-517 102.

Dr. Joice Swarnalatha. R
Workshop Coordinator, SVIM

Prof. N. Gurunatha Naidu,
Convener & Director, SVIM



DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

From
Dr. M. Neeraja,
Professor,
Dept. of MBA,
CREC (A),
Tirupati.

2nd November, 2020

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. M. Neeraja, working in MBA department, CREC (A).

I have attended the International Conference on Tourism, Travel & Hospitality Management-2020, which was held during 30th & 31st October, 2020. So, I request you to consider my contribution and pay incentives (including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Dr. M. NEERAJA)



B. Neeraja
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

- ① Approved Rs. 10,000/-
(expenses of all incentives)
- ② PF of applicant
- ③ Slc section: to do
the needful

[Signature]



KRISHNA THEJA

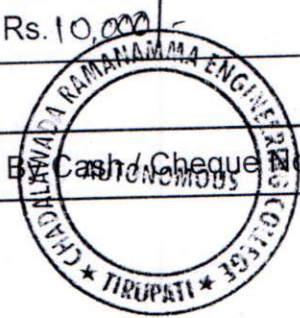
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : ...05/11/2020.....

Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to Dr. M. neevaja	10,000
Rs. 10,000/- in words Ten Thousand only	
By Cash / Cheque No. _____	
TOTAL	10,000



*A/c section / approved
to do the needful*



[Signature]
Accountant

Authorised by *[Signature]*

Received Signature

[Signature]

DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



International Conference on



Tourism, Travel & Hospitality Management - 2020
Designing Global Destinations: Trends & Strategic Imperatives

30-31 October 2020 (VIRTUAL)

Best Paper Certificate

The Conference Committee certifies that Dr. M. Neeraja, Professor, Chadalawada Ramanamma Engineering College, Tirupathi has attended the International Conference on Tourism, Travel & Hospitality Management-2020, Designing Global Destinations: Trends & Strategic Imperatives held during 30-31 October, 2020 and presented a paper titled: Community-Based Eco Tourism Initiatives A Case Study of Eco Tourism Destination Talakona in Andhra Pradesh

R. Radhika
Dr. R. Radhika
Conference Coordinator



K. Sasi Kumar
Dr. K. Sasi Kumar
Conference Coordinator

A. S. Sreeram
Prof. A. Sreeram
Conference Chair

Bonnie
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

From
Dr. M Dhamodhara Naidu,
Associate Professor,
Dept. of H&BS,
CREC (A),
Tirupati.

19th April, 2021

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. M Dhamodhara Naidu, working in H&BS department, CREC (A).

I have attended National Level Workshop on Recent Trends and Opportunities in Physics, organized by Department of Physics, School of Advanced Sciences, VIT-AP University, Andhra Pradesh which was held during 10th - 17th April, 2021. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,
M. Dhamodhara Naidu
(Dr. M Dhamodhara Naidu)



- ① Rs 10,000/- approved
(Expenses of all industry)
- ② Applicant PR
- ③ forward to the accounts department

Ramesh
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Byjus



KRISHNA THEJA

Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : ..22.04.2021.....

Head of A/c	Amount Rs.
being Amount Paid to <i>Dr. M. Dharmadhara raideu</i>	<i>10,000</i>
Rs. <i>10,000</i> in words <i>Ten Thousand 00</i>	
By <i>ASH/CH</i> TOTAL	<i>10,000</i>



Omha

Accountant

*Dr. selwan / approved
to do the useful*

Authorised by

[Signature]

M. Dharmadhara

Received Signature



Ramesh
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



VIT-AP
UNIVERSITY

CERTIFICATE OF PARTICIPATION

This certificate is presented to Mr/Ms/Dr/Prof.

Dr. M. Dhamodhara Naidu, Chadalawada

Ramanamma Engineering College (Autonomous),

For attending the **National Workshop on Recent Trends and Opportunities in Physics (Online)** on 10th and 17th April 2021, Organised by the Department of Physics, School of Advanced Sciences, VIT-AP University, Andhra Pradesh, India.

Madhusudhana Rao N

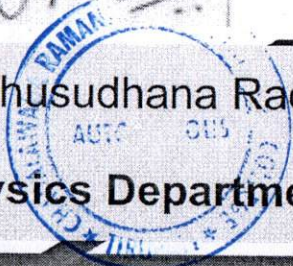
Santanu Mandal

f. Madhusudhana Rao N)

(Dr Santanu Mandal)

d, Physics Department

Dean, School of Advanced Sciences



Ramanamma
DIRECTOR

Chadalawada Ramanamma Engineering College

(AUTONOMOUS)
TIRUPATI

From
Dr. K. Venkateswara Raju,
Associate Professor,
Dept. of H&BS,
CREC (A),
Tirupati.

26th April, 2021

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am Dr. K. Venkateswara Raju, working in H&BS department, CREC (A).

I have attended six days National Workshop on Research Methodology, organized by Queens College of Arts and Science for Women, Punalkulam, Pudukkottai, Tamil Nadu which was held during 19th to 24th April, 2021. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

(Signature)
(Dr. K. VENKATESWARA RAJU)



(Signature)
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

- ① Rs 10,000 (Enclosure of all inclusions) is approved
- ② PR of applicant
- ③ A/c Section: to do the needful

(Signature)



KRISHNA THEJA

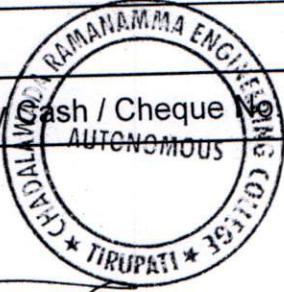
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : 29.04.2021

Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to DR- K. Venkateswara Raju	10,000
Rs. 10,000/- in words Ten Thousand only	
By Cash / Cheque	TOTAL
	10,000



All systems approved to do the needful



Umya
Accountant

Authorised by *[Signature]*

Received Signature



[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



QUEENS

College of Arts and Science for Women

(Affiliated to Bharathidasan University, Tiruchirappalli)

Punalkulam, Near Thanjavur, Pudukkottai (Dt), Tamil Nadu-613 303.

SIX DAYS NATIONAL WORKSHOP ON RESEARCH METHODOLOGY

CERTIFICATE OF PARTICIPATION

This is to certify that **Dr. Konduru Venkateswara Raju**, Assistant Professor of Mathematics, Chadalawada Ramanamma Engineering College (Autonomous), Tirupati - Chittoor, has participated in the "SIX DAYS NATIONAL WORKSHOP ON RESEARCH METHODOLOGY (QNVWRM-2021)" organized by Queens College of Arts and Science for Women, Punalkulam held during 19th to 24th, April 2021 in virtual mode.



B. Srinivas
DIRECTOR

Chadalawada Ramanamma Engineering College
(Autonomous)
TIRUPATI

R. Rajendran

S. Sridevi
Dr.S.Sridevi
Programme Co-Director

P. Sujatha
Dr.P.Sujatha
Programme Director

G. Umamaheswari
Dr.G.Umamaheswari
Principal

R. Rajendran
Dr.R.Rajendran
Secretary

From
V. Shanthi,
Associate Professor,
Dept. of H&BS,
CREC (A),
Tirupati.

26th April, 2021

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am V. Shanthi , working in H&BS department, CREC (A).

I have attended six days National Workshop on Research Methodology, organized by Queens College of Arts and Science for Women, Punalkulam, Pudukkottai, Tamil Nadu which was held during 19th - 24th April, 2021. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,
V. Shanthi
(V. SHANTHI)

① Rs 10,000 (Enclosure of
all inclusions)

② Applicant PF

③ Forward to account
section, to do the needful



Ramesh
DIRECTOR
Chadala Wada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Ramesh



KRISHNA THEJA

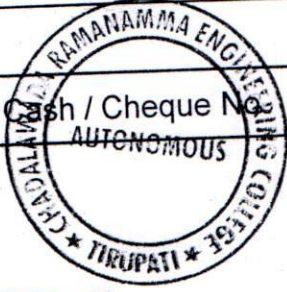
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : 29.04.2021.....

Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to V. Shanthi	10,000
Rs. 10,000/- in words Ten Thousand only	
TOTAL	10,000



[Signature]
Accountant

*All return / approved
Needful to be done*

Authorised by

[Signature]

V. Shanthi

Received Signature



[Signature]
DIRECTOR

Chadalawada Ramanamma Engineering Collogo
(AUTONOMOUS)
TIRUPATI



QUEENS

College of Arts and Science for Women

(Affiliated to Bharathidasan University, Tiruchirappalli)

Punalkulam, Near Thanjavur, Pudukkottai (Dt), Tamil Nadu-613 303.

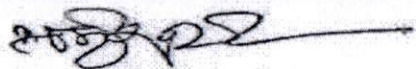
SIX DAYS NATIONAL WORKSHOP ON RESEARCH METHODOLOGY

CERTIFICATE OF PARTICIPATION

This is to certify that Mrs. VANIPENTA SANTHI, Assistant Professor, Chadalawada Ramanamma Engineering College – Tirupati, has participated in the “SIX DAYS NATIONAL WORKSHOP ON RESEARCH METHODOLOGY (QNVWRM-2021)” organized by Queens College of Arts and Science for Women, Punalkulam held during 19th to 24th, April 2021 in virtual mode.



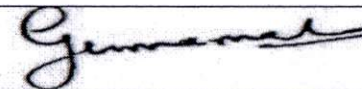

DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



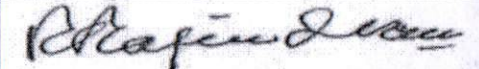
Dr.S.Sridevi
Programme Co-Director



Dr.P.Sujatha
Pogramme Director



Dr.G.Umaheswari
Principal



Dr.R.Rajendran
Secretary

From
V. Shanthi,
Associate Professor,
Dept. of H&BS,
CREC (A),
Tirupati.

3rd May, 2021

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Requesting to consider for incentives(including all expenses)-Reg.

This is to bring in your notice, that I am V. Shanthi , working in H&BS department, CREC (A).

I have attended one week International Workshop on Recent Advancement on Electronics and Computer Intelligence, at Department of Electronics, Sambalpur University, Burla, Odisha which was held during 26th – 30th April, 2021. So, I request you to consider my contribution and pay incentives(including all expenses) accordingly.

Thanking you,

Yours Sincerely,

V. Shanthi
(V. SHANTHI)



- ① Approved Rs 10,000/-
(Envelope of all incentives)
- ② PR of applicant
- ③ etc return: please do
the needful

B. Srinivas
DIRECTOR
Chadalawada Ramanna Engineering College
(AUTONOMOUS)
TIRUPATI

[Signature]



KRISHNA THEJA

Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : ...06.05.2021...

Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to V. Shanthi	10,000
Rs. 10,000/- in words Ten Thousand only	
By Cash / Cheque No. TOTAL	10,000



[Signature]
Accountant

All return / approved to do the needful

Authorised by

[Signature]

V. Shanthi
Received Signature



[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

SAMBALPUR UNIVERSITY INSTITUTE OF INFORMATION
TECHNOLOGY (SUIT), BURLA, ODISHA, INDIA

Certificate
OF PARTICIPATION

This Certificate of participation is awarded to


VANIPENTA SANTI


From

Chadalawada Ramanamma Engineering College

*for successfully participating in One Week International Workshop on Recent Advancement on
Electronics and Computer Intelligence. (RAECI -2021), program held on 26th to 30th April 2021
(Online) and organized by the Department of Electronics and CSE&IA, Sambalpur University
Institute of Information Technology (SUIIT), Burla, Odisha, INDIA.*




Dr. Prabira Kumar Sethy
Convener


DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
THIRUPATI
Sambalpur University
www.suiit.ac.in

From
Dr. G. Anupama
Associate Professor,
Dept. of Management Studies,
CREC (A),
Tirupati.

2nd March, 2020

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am Dr. G. Anupama, working in Management Studies department, CREC (A).

This letter is against the claim for the expenses of attending a National Seminar on Indian Startups: Issues, Challenges and Opportunities, Organized by Sri Padmavati Mahila Visvavidyalam, Tirupati, Andhra Pradesh which was held during 28th – 29th February, 2020. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs. 4500/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

Dr. Anupama
(Dr. G. ANUPAMA)



Ramesh
DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

① Approved
S. Vallu

② Approved Rs. 4500/-

③ A/c Section: to do the needful

S. Vallu
03/03/2020



KRISHNA THEJA

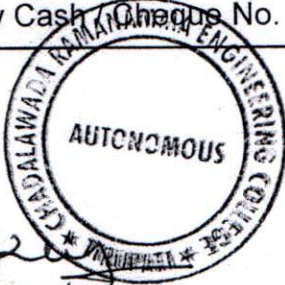
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : ...04/03/2020...

Head of A/c	Amount Rs.
being Amount Paid to DR. G. Anupama	4500
Rs. 4500/- in words four thousand	
five hundred only	
By Cash / Cheque No.	TOTAL
	4500/-



Accountant

A/c Section/ Approved
to do the needful
S. Kalle
Authorised by

G. Anupama
Received Signature



B. Srinivas
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



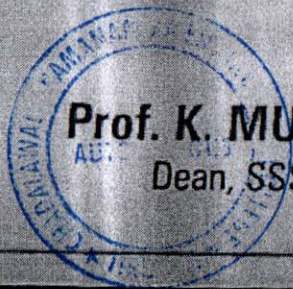
ICSSR Sponsored

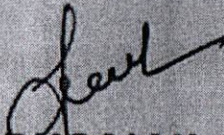


TWO DAY NATIONAL SEMINAR ON
"INDIAN STARTUPS: ISSUES, CHALLENGES
AND OPPORTUNITIES"

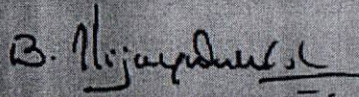
Certificate

This is to certify that Mr./Ms./Dr./Prof. G. Anupama
has participated / Chaired a session / Keynote Speaker / Presented a Paper entitled
Startups - Role of Higher Education Institutions
in the National Seminar on "Indian Startups: Issues, Challenges and Opportunities" held during
28th & 29th February, 2020 organized by Department of Business Management, Padmavati
Mahila Visvavidyalayam, (Women's University), Tirupati, Andhra Pradesh.




Prof. K. MURUGAIAH
Dean, SSSH & M


DIRECTOR
Chadalapudi Government Engineering College
(AUTONOMOUS)
TIRUPATI


Prof. B. VIJAYALAKSHMI
Seminar Convener

From
B. Vijaya
Associate Professor,
Computer Applications Department,
CREC (A),
Tirupati.

30th March, 2020

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am B. Vijaya, working in Computer Applications department, CREC (A).

This letter is against the claim for the expenses of attending a National Conference on Artificial Intelligence – Current Trends and Applications, organized by Sri Padmavati Mahila Visvavidyalam, Tirupati, Andhra Pradesh which was held during 27th – 28th March, 2020. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs.4500/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

B. Vijaya
(B. VIJAYA)



- ① Approved Rs.4500/-
- ② PR of Applicant
- ③ A/c section forwarded

Ramesh S. Halli
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

31/03/2020



KRISHNA THEJA

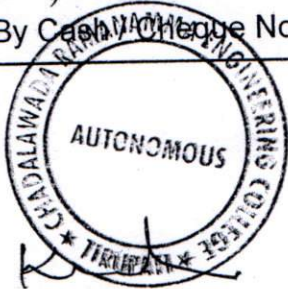
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : ..02.04.2020..

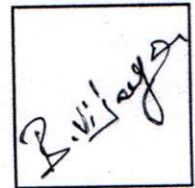
Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to B. Vijaya	4500
Rs. 4500/- in words Four thousand	
Five hundred	
By Cash Voucher No. TOTAL	4500



Accountant

Ac Section / approved
 Needful to be done
 Authorised by



Received Signature



Bunna
 DIRECTOR
 Chadalawada Ramonamma Engineering College
 (AUTONOMOUS)
 TIRUPATI



VIKAS GROUP OF INSTITUTIONS

(Approved by AICTE and Affiliated to JNTUK-Kakinada)
Nunna -521212 ,Vijayawada Rural - Krishna District - A.P- India

Website: www.vgtn.org

Phone no: 0866- 2469222,236
Cell:8500669282

CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


Webinar.

on

RECENT TRENDS IN DATA SCIENCE ,CHALLENGES AND OPPORTUNITIES


CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. **B.Vijaya** of **Chadalawada Ramanamma Engineering College** has participated in a one day Webinar on "**Recent Trends in Data Science ,Challenges and Opportunities**" organized by Department of Computer Science and Engineering ,VIKAS Group of Institutions , Nunna , Vijayawada on **20th JUNE, 2020.**

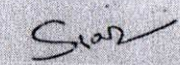

Dr. B. Rama Mohana Rao
Principal




Prof. B. Suresh
HOD-CSE


Mr. M. Srinivasa Rao
Coordinator


DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI


Mr. J. Sravan Kumar
Coordinator

From
B. Vijaya
Associate Professor,
Computer Applications Department,
CREC (A),
Tirupati.

22nd June, 2020

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am B. Vijaya, working in Computer Applications department, CREC (A).

This letter is against the claim for the expenses of attending a Webinar on Recent Trends in Data Science, Challenges and Opportunities, organized by Department of Computer Science and Engineering, Vikas Group of Institutions, Vijayawada on 20th June, 2020. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs.500/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

B. Vijaya
(B. VIJAYA)



B. Vijaya
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

① Approved Rs 500/-
② PF of Applicant
③ forwarded to A/c Sec
S. J. Halli
23/06/2020



KRISHNA THEJA

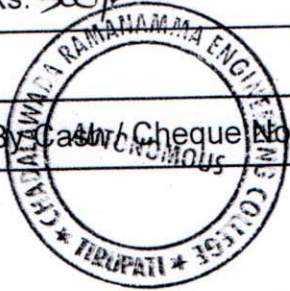
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : ...25.06.2020

Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to B. vijaya	500
Rs. 500/- in words five hundred only	
By Cash / Cheque No.	
TOTAL	500



A/c Section Approved
do the needful
S. Y. Halli
Authorised by

B. vijaya

Received Signature

[Signature]
Accountant



[Signature]

DIRECTOR

Chadalawada Romanamma Engineering College
(AUTONOMOUS)
TIRUPATI

DST - CURIE - AI

Sponsored

A Virtual National Conference on ARTIFICIAL INTELLIGENCE - CURRENT TRENDS AND APPLICATIONS (AICTA 2020)

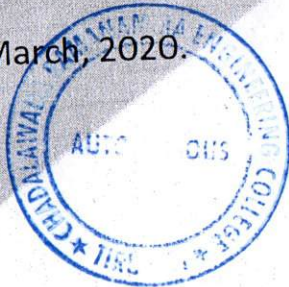
27th & 28th March, 2020

SRI PADMAVATI MAHILA VISVAVIDYALAYAM
(WOMEN'S UNIVERSITY)

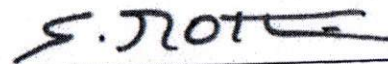
Accredited by NAAC 'A' Grade
TIRUPATI - 517 502, Andhra Pradesh, INDIA.

CERTIFICATE

This is to certify that Mrs. B. Vijaya, Chadalawada Ramanamma Engineering College has Presented a paper on "User Satisfaction Detection System for Patient's Smart Healthcare" In the Virtual National Conference on Artificial Intelligence - Current Trends & Applications organized by Sri Padmavati Mahila Visvavidyalayam (Women's University) Tirupati, Andhra Pradesh, India held during 27th & 28th March, 2020.




DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



Prof. S. Jyothi
Coordinator, DST-CURIE-AI



From
K. Nagendra Rao,
Associate Professor,
Dept. of CSE,
CREC (A),
Tirupati.

18th June, 2020

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am K. Nagendra Rao, working in CSE department, CREC (A).

This letter is against the claim for the expenses of publishing paper in International Journal of Innovative Technology and Exploring Engineering, Volume 9, Issue 8, June-2020. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs.4500/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

K. Nagendra Rao
(K. NAGENDRA RAO)



B. Srinivas
DIRECTOR

Chaitanya Paramahansa Engineering College,
CHAITANYANAGAR,
TIRUPATI

① Approved Rs 4500/-

② PFA of app/claim

③ forward to Account section

S. H. S. S.

19/06/2020



KRISHNA THEJA

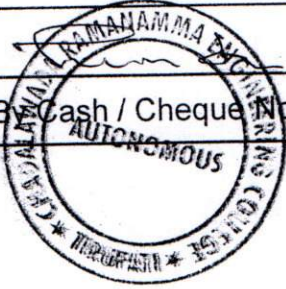
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Date : 22/06/2020

Voucher No.

Head of A/c	Amount Rs.
being Amount Paid to K. Nagendra Rao	4500
Rs. 4500/- in words four thousand five hundred	
By Cash / Cheque No. <i>as</i>	
TOTAL	4500



A/c Section Approved
to do need for
S. V. Subbarao
Authorized by

K. Nagendra Rao
Received Signature

K. V. Subbarao
Accountant



Ramesh
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

Enhanced Traffic Management System using Artificial Intelligent Congestion Control

S.Thulasee Krishna, **K. Nagendra Rao**, P.Poornima



Abstract: The smart city proposed by government is providing better infrastructure with possible automated device. Every smart city proposes to provide smart transport through automated traffic management. The peak hours face the congestion road and many traffic irregularities. The congested road aids in poor Travel experience, environmental pollution and health hazards by vehicular fuel. The solution to aforesaid issues leads to traffic Automation in urban communities. To implement the traffic automation need access to real time traffic congestion information, best possible route and alternate strategy with online traffic information applicable to specific traffic stream. An more suitable site visitors manipulate and MF has been mentioned to finish short information transmission and their corresponding motion performed via artificial intelligence. The VANET scenario, congestion manage algorithm executed through mobile agent controller uniformly organizes the traffic glide by way of heading off the congestion at the smart visitors zone, The law-enforcement bodies, the fire opponents and the clinical and/or paramedical teams consciousness on elevated quantity of crime in addition to lifestyles losses through site visitors irregularities. The benefits of adopting the internet of things (IoT) provide a new prospect for intelligent site visitors improvement.

Keywords : Intelligent traffic systems, artificial intelligent system, VANET

I. INTRODUCTION

Traffic Management Systems (TMS) use a variety of technologies to manage traffic flows and the effects of congestion on the road network. Traffic Management Systems do this by addressing the traffic management effects of accidents and slow moving or queuing vehicles, planned events and extreme weather [1]. TMS include, ramp signaling, dynamic lane management, variable speed limits, incident detection, vehicle activated signs and adaptive traffic signal control. Many of the systems are usually integrated to gain maximum benefit.

Revised Manuscript Received on June 30, 2020.

* Correspondence Author

Dr. S.THULASEEKRISHNA*, Ph.D, Professor, Dept. of CSE, Chadalawada Ramanamma Engg.College(Autonomous) Tiruapthi, Chittoor (Dist), Andhra Pradesh, India. Email: thulasikrishna1988@gmail.com

Mr. K. NAGENDRA RAO, Associate Professor, Dept.of.CSE, Chadalawada Ramanamma Engg.College(Autonomous) Tiruapthi, Chittoor (Dist), Andhra Pradesh, India. Email: kattamanchi11@gmail.com

Mrs. P. POORNIMA, Assistant Professor, Dept.of CSE, Chadalawada Ramanamma Engg.College(Autonomous) Tiruapthi, Chittoor (Dist), Andhra Pradesh, India.

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Managing the allocation of road space is an important concept that is becoming increasingly relevant as it is not feasible or cost-effective to continue to accommodate the growth of urban traffic by constructing additional roads. It is widely acknowledged that a large part of added road capacity is often quickly absorbed by 'induced' demand.

Benefited of TMS

TMS measures can be applied in urban, peri-urban, and rural areas, as appropriate. TMS systems are often used on the state highway network, and are likely to operate across different organizational boundaries. Road authorities wanting to introduce TMS should work closely with the New Zealand Transport Agency, regional authorities (including cross boundary) the police and wider emergency services, passenger transport operators and other stakeholders in order to consider wider network implications. In addition to this, planned measures by the local road authority that may displace extra vehicles onto the state highway network, will need to be assessed in terms of their implications for TMS applications on the state highway system.

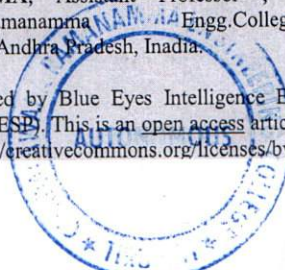
II. RELATED WORK

Enormous computing power, human intends to calculate every atom in the universe. as an exception human fails to control the traffic in urban cities with automated traffic system. such cities being highly populated cause high consumptions of fuel but increases expenditure for communication and pollute the environment. The immediate effect is considerable amount of working hours are wasted and production costs are increased which impacts the economical figure of the nation [2].

Smart city mission intends to combat this problem using satellite and computer technology to re-route vehicles from highly congested roads to less congested ones by appropriate infrastructure, wireless communication and sensor devices. Based on decentralized decision traffic density in various roads. It helps to save fuel and save a lot of time spend in travelling a accessible distance at high cost of energy [4].

The use of VANET is network connectivity between the vehicles and the network infrastructure helps to reduce the problems of congestion, accidents, crime problems and population overhead.

Data analytics (DA) tools takes data from the traffic management system and by GIS mapping under real time support, DA provide useful information to the vehicles and help reducing the traffic congestion [3].



From
M C V Suresh,
Associate Professor,
Dept. of EEE,
CREC (A),
Tirupati.

1st June, 2020

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am M C V Suresh, working in EEE department, CREC (A).

This letter is against the claim for the expenses of attending Workshop on Role of Energy Storage & Plug-in Electric Vehicles in Smart Grid: Challenges & Opportunities, organized by Department of Electrical and Electronics Engineering at Audisankara Group of Institutes, Gudur, Nellore (Dt), AP. which was held 30th May, 2020. The Registration Fee/Travelling allowance/Daily allowance of the amount is Rs.4500/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

(M.C.V SURESH)



Bonasa
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

- ① Approved Rs 4500/-
- ② PR of applicant
- ③ A/c section: do the needful

S. Hallu
2/2/2020



KRISHNA THEJA

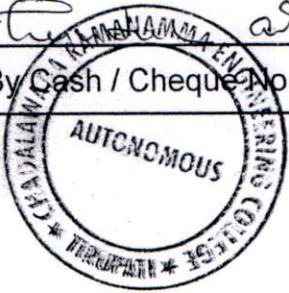
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : ...08/06/2020...

Head of A/c	Amount Rs.
being Amount Paid to MCV Suresh	4500
Rs. 4500/- in words Four Thousand Five	
By Cash / Cheque No. <i>as</i>	
TOTAL	4500



[Signature]
Accountant

Account Section / approved
Needs to be done
S. Hallen
Authorised by

[Signature]
Received Signature



[Signature]
DIRECTOR
Chadalawada Romanamma Engineering College
(AUTONOMOUS)
TIRUPATI



AUDISANKARA GROUP OF INSTITUTIONS

Gudur, Nellore (Dt), A.P.



CERTIFICATE

OF PARTICIPATION

This Certificate is Presented to

M C V SURESH

Assistant Professor

CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

has actively participated in a one day workshop on

Role of Energy Storage & Plug-in Electric Vehicles in Smart Grid : Challenges & Opportunities

30TH MAY, 2020


Organized by the Department of Electrical and Electronics Engineering



Dr. A. MOHAN BABU
Director, Audisankara Group of Institutions
Gudur, Nellore (Dt), A.P.

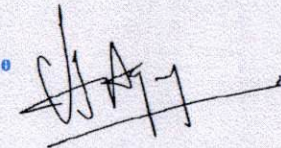


Prof. J. SURESH
Convener



DIRECTOR
Chadala Wada Ramanamma Engineering College
(AUTONOMOUS)
CHADALAWADA

Dr. A. IMMANUEL
Co-ordinator



Dr. ABDUL GAFOOR SHAIK
Indian Institute of Technology
Jodhpur.

From
M C V Suresh,
Associate Professor,
Dept. of EEE,
CREC (A),
Tirupati.

18th June, 2020

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

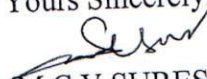
Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am M C V Suresh, working in EEE department, CREC (A).

This letter is against the claim for the expenses of attending International Technical Symposium on Opportunities & Challenges in Industry 4.0, organized by Industry Cell & Electronics and Telecommunication Engineering Department of G. S Mandal's Maharashtra Institute of Technology, Aurangabad which was held during 15th - 17th June, 2020. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs.4500/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

(M C V SURESH)




DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

① Approved By Poo/-

② PR of Applicant

③ forwarded to A/c
& do the needful

S. Halbur
19/06/2020



KRISHNA THEJA

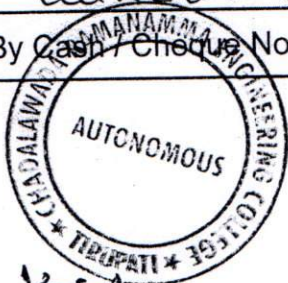
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : ...22/06/2020...

Head of A/c	Amount Rs.
being Amount Paid to <i>MCA. Suresh</i>	
	<i>4500</i>
Rs. <i>4500/-</i> in words <i>four thousand five</i>	
<i>hundred only</i>	
By Cash / Cheque No. TOTAL	<i>4500</i>



Accountant

*All Section approved
do the needful
S. J. Vallu*
Authorised by

[Signature]
Received Signature



[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



G.S. Mandal's
Maharashtra Institute of Technology, Aurangabad

Accredited with "Grade A" by NAAC

Approved by AICTE, New Delhi & Permanently Affiliated to Dr. B. A. M. University, Aurangabad



Implemented by
giz

International Technical Symposium on "Opportunities & Challenges in Industry 4.0"



Certificate of Participation

This is to certify that

M C V SURESH

has successfully participated in *International Technical Symposium on "Opportunities & Challenges in Industry 4.0"* from 15th - 17th June, 2020, organised by "Industry Cell & Electronics and Telecommunication Engineering Department" of G.S. Mandal's, Maharashtra Institute of Technology, Aurangabad.

Supported by "GIZ MSME INNO Project".

Dr. Prashant Ambad
Coordinator, Industry Cell

Dr. Ganesh Sable
Head, E&TC Department

Dr. Santosh Bhosle
Principal

MCPLTO-CE000189



DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

From
Dr. G. Anupama
Associate Professor,
Dept. of Management Studies,
CREC (A),
Tirupati.

2nd April, 2019

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am Dr. G. Anupama, working in Management Studies department, CREC (A).

This letter is against the claim for the expenses of attending International Seminar on Impact of Globalization on MSMEs – Prospects, Challenges and Policy Implications on Growth, Organized by Department of Business Management, Vikrama Simhapuri University, Nellore, Andhra Pradesh which was held during 29th – 31st March, 2019. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs. 4000/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

Dr. G. Anupama
(Dr. G. ANUPAMA)



Ramesh
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

① Approved Rs 4000/-
(Expenses all inclusive)

② PR of applicant

③ A/c Section: to do the needful

S. Valluri
3/04/2019



KRISHNA THEJA

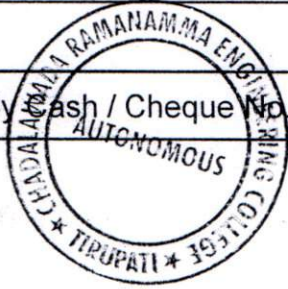
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 04/04/2019

Head of A/c	Amount Rs.
being Amount Paid to <i>Dr. Anupama</i>	<i>4000</i>
Rs. <i>4000/-</i> in words <i>four thousand only</i>	
By <i>Cash / Cheque No.</i>	
TOTAL	<i>4000</i>



A/c Section approved to do the needful
S. Sathish
 Authorised by

G. Anupama
 Received Signature

K. Sathish
 Accountant



R. Sathish
 DIRECTOR
 Chadalawada Ramanamma Engineering College
 (AUTONOMOUS)
 TIRUPATI



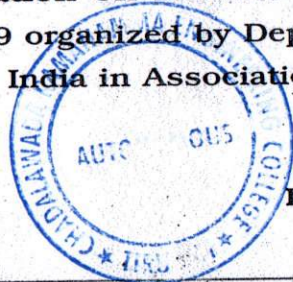
Millennium UNIVERSITY

ICSSR - IMPRESS, New Delhi Sponsored International Seminar on Impact of Globalization on MSMEs - Prospects, Challenges and Policy Implications on Growth

Certificate

Certified that Mr./Ms./Dr./Prof. G. Anupama of Chadalawada Ramanamma Engineering College Participated / Chaired a Session / Keynote Speaker / Presented a Paper Receptiveness and Knowledge on MSMEs Among Management students in the International Seminar on "Impact of Globalization on MSMEs - Prospects, Challenges and Policy Implications on Growth" during 29-31 March, 2019 organized by Department of Business Management, Vikrama Simhapuri University, Nellore, Andhra Pradesh, India in Association with Millennium University, Malawi, Africa.

Prof. SUJA S NAIR Seminar Convener ICMSME - 2019



Prof. P. SUBBA RAO Vice Chancellor Millennium University

Prof. R. SUDARSANA RAO Vice-Chancellor Vikrama Simhapuri University, Nellore

DIRECTOR

From
B. Dhananjaya
Assistant Professor,
Dept. of Management Studies,
CREC (A),
Tirupati.

21st January, 2019

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am B. Dhananjaya, working in Management Studies department, CREC (A).

This letter is against the claim for the expenses of attending International Conference on Essential Management Skills in the age of Disruption Organized by S V University, Tirupati, and Andhra Pradesh which was held 19th January, 2019. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs. 4000/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,
B. Dhananjaya
(B. DHANANJAYA)



B. Dhananjaya
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

- ① Approved Rs 4000/-
 - ② PF of Applicant
 - ③ Account Section
- please do the needful

S. H. S. S.
22/04/2019



KRISHNA THEJA

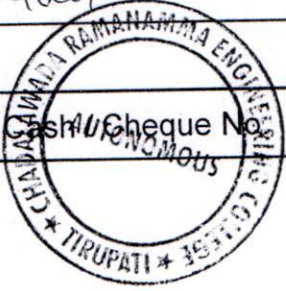
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : 24/01/2019

Head of A/c	Amount Rs.
being Amount Paid to B. Dhananjaya	4000
Rs. 4000/- in words Four Thousand	
By Cash / Cheque No. Anonymous	
TOTAL	4000



A/c Section approved
to do the needful
S. Halli
Authorised by

B. Dhananjaya
Received Signature

Accountant



B. Krishna
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



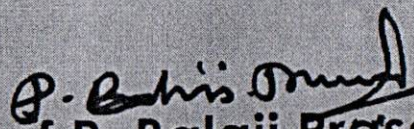
Department of Management Studies
Sri Venkateswara University, Tirupati
Andhra Pradesh, India.

INTERNATIONAL CONFERENCE ON ESSENTIAL
MANAGEMENT SKILLS IN THE AGE OF DISRUPTION

Certificate

This is to certify that Prof./Dr/Mr/Ms. B. Dhananjaya of
"A Study on GST impact on India economy" has
participated in the "International Conference on Essential Management Skills in the Age
of Disruption" held on 19th January, 2019 at S.V.University Auditorium, Tirupati.




Prof P. Balaji Prasad
Principal
SVU College of Commerce,
Management and Computer Sciences, Tirupati


DIRECTOR
Chadabawada Raghunatha Engineering College
(AUTONOMOUS)
TIRUPATI

Prof P. Raghunadha Reddy
Conference Director
Head - Department of Management Studies,
S.V.University, Tirupati

From
B. Dhananjaya
Assistant Professor,
Dept. of Management Studies,
CREC (A),
Tirupati.

15th May, 2019

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am B. Dhananjaya, working in Management Studies department, CREC (A).

This letter is against the claim for the expenses of publishing paper in International Journal of Management Technology and Engineering on Exploring the Elements of Employees Motivation in Hospitality Industry, Volume 9, issue 5, May - 2019. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs. 4000/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,
B. Dhananjaya
(B. DHANANJAYA)



- ① Approved Pf 4000/-
- ② Pf of Applicant
- ③ Forwarded to A/c section
do the needful

Nonsma
DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

S. Vallu
16/05/2019



KRISHNA THEJA

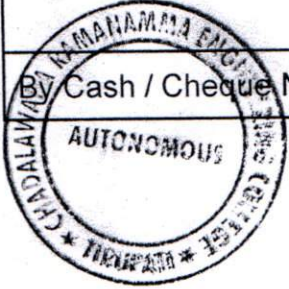
Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : ...17.10.2019...

Head of A/c	Amount Rs.
being Amount Paid to B. Dhananjaya	4000
Rs. 4000/- in words Four thousand only	
Cash / Cheque No.	TOTAL
	4000



[Signature]
Accountant

Ac Satish / approved to do the needful
S. Halli
Authorised by

B. Dhananjaya
Received Signature



[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

CERTIFICATE OF PUBLICATION

This is to certify that the paper entitled

**“EXPLORING THE ELEMENTS OF EMPLOYEES’ MOTIVATION
IN HOSPITALITY INDUSTRY”**

Authored by

B.Dhananjaya, Assistant Professor

From

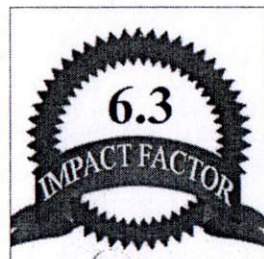
Chadalawada Ramanamma Engineering College, Tirupathi.

Has been published in

IJMTE JOURNAL, VOLUME IX, ISSUE V, MAY - 2019

B. Dhananjaya
DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATHI



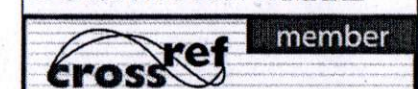
M. Ashitosh Mehata
M. ASHITOSH MEHATA
Editor-In-Chief
IJMTE
www.ijamtes.org



International
Organization for
Standardization

7021-2008

DOI:16.10089/IJMTE



CROSSREF.ORG
THE CITATION LINKING BACKBONE

From
B. Dhananjaya
Assistant Professor,
Dept. of Management Studies,
CREC (A),
Tirupati.

8th October, 2018

To
The Principal,
CREC (A),
Tirupati.

Respected Sir,

Subject: Reimbursement of expenses-Reg.

This is to bring in your notice, that I am B. Dhananjaya, working in Management Studies department, CREC (A).

This letter is against the claim for the expenses of attending International Conference on Emerging Trends in Business & Commerce 2018, Organized by Narayana Engineering College, Nellore, Andhra Pradesh which was held on 6th October, 2018. The Registration Fee/Travelling allowance/ Daily allowance of the amount is Rs. 4000/- only.

In this regard, you are kindly requested to proceed with the reimbursement of the amount.

Thanking you,

Yours Sincerely,

B. Dhananjaya
(B. DHANANJAYA)

- ① Approved Rs 4000/-
- ② PR of Applicant
- ③ A/c section, Needful to be done



B. S. S. S.
DIRECTOR
Chadalamada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI

S. S. S.
7/10/2018



KRISHNA THEJA

Chadalawada Nagar, Renigunta Road, TIRUPATI - 517 507.

PAYMENT VOUCHER

Voucher No.

Date : ...11/10/2018.....

Head of A/c	Amount Rs.
being Amount Paid to B. Dhananjaya	4000
Rs. 4000/- in words four Thousand only	
By Cash / Cheque No. TOTAL	4000



Kuy
Accountant

Ab Seetan / approved
to do the needful
S. Hally
Authorised by

B. Dhananjaya
Received Signature



B. Sreenivasulu Reddy
DIRECTOR

Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
TIRUPATI



Nellore (AP)

DEPARTMENT OF MANAGEMENT STUDIES
**INTERNATIONAL CONFERENCE on
EMERGING TRENDS in BUSINESS & COMMERCE 2018 (ETiBC - 2018)**

October 6, 2018

— Certificate —

*This is to certify that Prof/Dr/Mr/Ms.....B.: Dhananjaya.....
from ..Chadalawada ..Ramanamma ..Collegehas presented a paper titled ...HRM...In...the.....
...Digital..Age:..Consequences...and...performance.....
and won*

In the International conference held at Narayana Engineering College, Nellore on Oct 6, 2018



[Signature]
Dr Gangineni Dhananjhay
Convener - ETiBC 2018

[Signature]
Dr K Sai Kumar
HoD - MBA Dept

[Signature]
DIRECTOR
Chadalawada Ramanamma Engineering College
(AUTONOMOUS)
[Signature]
Dr G Sreenivasulu Reddy
Principal