



V.K.R., V.N.B. & A.G.K. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to JNTUK, KAKINADA)

An ISO 9001:2015 certified institute, Accredited by NAAC.

Gudivada, Krishna District, Andhra Pradesh - 521301

Email: principalh2008@gmail.com URL: http://www.vkrvncoe.org



Financial Support Request Letter

1. Name of the Staff Member : K. Durgarao
2. Designation : Associate Professor
3. Department : Mechanical
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
: study of Advanced Jack assembly.
5. Date and Duration of the Program : paper volume 13, issue 04, April 2024
6. Associating Professional body/Agency: IJERT
7. Financial support particulars(Rs) : 5,200/-
 - i. Registration Charges : _____
 - ii. Travelling Allowances : _____
 - iii. Membership Fee : _____
 - iv. Others(if any) : _____

Date: 26/4/24

Signature of the Staff Member K. Durgarao

1. Recommendations of the HOD: Recommended [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: _____

PRINCIPAL

VKR VNB & AGK COLLEGE OF ENGINEERING,
Eluru Road, GUDIVADA Kri. Dt.A.P.521 301

Sanctioned/Not Sanctioned

Account Department

Accountant: [Signature]

Date: 26/4/24

IJERT

International Journal of
Engineering Research & Technology
ISSN : 2278 - 0181, www.ijert.org
(Published by : ESRSA Publications)



CERTIFICATE OF PUBLICATION

This is to certify that

Durgaprasad Kollipara

Has published a research paper entitled

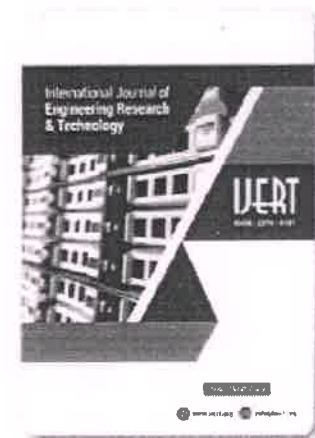
Study of Advanced Shock Absorbers

In IJERT, Volume 13, Issue 04, April - 2024

Registration No: IJERTV13IS040094

Date: 24-04-2024


Chief Editor, IJERT



PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
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920

DEBIT VOUCHER

V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING

ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No.

Date : 26/4/24

Debit : K. Durga Prasad

PARTICULARS	AMOUNT
Publication	5,200/-
	5,200/-

Accountant

Correspondent

Received
₹ 2000/- (Rupees Five Thousand Two hundred) Being Publications

Signature of The Receiver



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Gudivada, Krishna District, Andhra Pradesh - 521301

Email: principalh2008@gmail.com URL: http://www.vkrvnbcoe.org



Financial Support Request Letter

1. Name of the Staff Member : Dr. G.V.N.B. PRABHAKAR
2. Designation : Professor
3. Department : Mechanical Engineering
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:

Industry 4.0/5.0
5. Date and Duration of the Program : 15/4/24 to 27/4/24
6. Associating Professional body/Agency:-----
7. Financial support particulars(Rs) : 600/-
 - i. Registration Charges : 600/-
 - ii. Travelling Allowances : -
 - iii. Membership Fee : -
 - iv. Others(if any) : -

30/4/24
Date:

[Signature]
Signature of the Staff Member

1. Recommendations of the HOD:----- Recommended [Signature]
2. Recommendations of the IQAC:----- Recommended [Signature]
3. Recommendations of the Principal:----- [Signature]

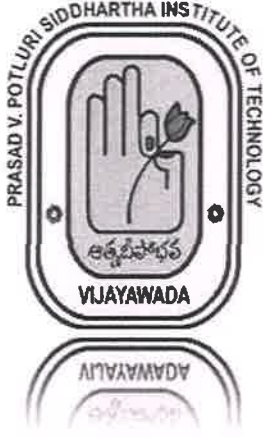
PRINCIPAL
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Eluru Road, GUDIVADA Kri. Dt.A.P.521 301

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Account Department

Accountant: [Signature]

Date: 30/4/24



Prasad V. Potluri Siddhartha Institute of Technology
(Autonomous, Accredited by NBA, and NAAC A+, An ISO 9001:2015 Certified Institution)
Kanuru, Vijayawada, Andhra Pradesh – 520007

Department of Mechanical Engineering

Certificate of Participation

This is to certify that Dr.G V N B PRABHAKAR of Mechanical Engineering from V.K.R.,V.N.B.&A.G.K.COLLEGE OF ENGINEERING has participated in Two-Week online Faculty Development Program on “*INDUSTRY 4.0/5.0*” Organized by Department of Mechanical Engineering, Prasad V Potluri Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh *From 15.04.2024 to 27.04.2024.*

Dr. K. I. V. Vandana
Coordinator

Dr. Rajyalakshmi.M
Coordinator

Dr. B. Raghu Kumar
HOD

Dr. K. Sivaji Babu
Principal

PRINCIPAL

VKR VNB & AGK COLLEGE OF ENGINEERING
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925

DEBIT VOUCHER

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ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No.

Date : 30/4/24

Debit : Dr. G.N.N.B. Poabhakar

PARTICULARS	AMOUNT
FDP	600/-
	600/-

Accountant

[Signature]

Correspondent

Signature of The Receiver

Received 600/- (Rupees)
Amount of Rupees being
[Signature]

Financial Support Request Letter

1. Name of the Staff Member : DR. G.V.N.B. PRABHAKAR
2. Designation : professor
3. Department : Mechanical Engineering
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
publication
5. Date and Duration of the Program : 15/12-2023
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : 7500/- (Scopus)
i. Registration Charges : _____
ii. Travelling Allowances : _____
iii. Membership Fee : _____
iv. Others(if any) : _____

Date: 16/12/23

[Signature]
Signature of the Staff Member

1. Recommendations of the HOD: Recommended [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: _____

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Account Department

Accountant: [Signature]

Date: 16/12/23

Engineering Research Express



PAPER

Investigating the role of processing temperature on the microstructure evolution, mechanical properties, and corrosion behaviour of equal channel angular pressed AZ31 Mg alloy

RECEIVED
1 September 2023REVISED
8 November 2023ACCEPTED FOR PUBLICATION
4 December 2023PUBLISHED
15 December 2023K Raghu Ram Mohan Reddy¹, G Mrudula², Manoj Kumar Elipey³, Kanumuri Singaiah⁴ and G V N B Prabhakar^{5,*}¹ Department of Mechanical Engineering, Institute of Aeronautical Engineering, Hyderabad 500043, Telangana, India² Department of Mechanical Engineering, C.V. R. College of Engineering, Mangalpalli, Ibrahimpatnam 501510, Telangana, India³ Department of Mechanical Engineering, Vardhaman College of Engineering, Shamshabad 501218, Kacharam, Telangana, India⁴ Department of Mechanical Engineering, Prakasam Engineering College, Kandukur 523105, Andhra Pradesh, India⁵ Department of Mechanical Engineering, V.K.R., V.N.B. & A.G.K. College of Engineering, Gudivada 521301, Andhra Pradesh, India

* Author to whom any correspondence should be addressed.

E-mail: gvnb.prabhakar@gmail.com**Keywords:** ECAP, processing temperature, magnesium alloys, grain size, corrosion, mechanical strength

Abstract

AZ31 magnesium (Mg) alloy was subjected to equal channel angular pressing (ECAP) through Bc route at three different temperatures (200, 250 and 300 °C) to investigate the role of processing temperature on the microstructure evolution. All the sample were processed for one complete cycle which includes 4 consecutive pressings. Workpiece processed at 200 °C has shown relatively higher grain refinement ($2.1 \pm 1.4 \mu\text{m}$) compared with the samples processed at 250 °C ($5.6 \pm 2.7 \mu\text{m}$) and 300 °C ($7 \pm 5.5 \mu\text{m}$) from a starting size of $36 \pm 4.1 \mu\text{m}$. Increased hardness was measured for the ECAPed samples at 200 °C due to the higher level of grain refinement. Workpiece produced at 200 °C exhibited higher tensile strength ($270.9 \pm 6.3 \text{ MPa}$) compared with the other processed samples and base alloy. Surface energy measurements from the contact angles show the positive effect of grain refinement on increasing the hydrophilic nature of AZ31 alloy. Corrosion experiments from the potentiodynamic polarization studies demonstrate lower corrosion current for the base alloy compared with all of the processed alloys. The deteriorated corrosion performance in the ECAPed alloys can be claimed to the increased crystal imperfections due to ECAP. From the results, it is understood that the lower processing temperatures are preferable to achieve higher level of grain refinement in ECAP of AZ31 Mg alloy. Excellent mechanical properties can be achieved in AZ31 alloy by ECAP and the decreased corrosion resistance is a concern to pay more attention.

1. Introduction

Developing nano/ultra fine-grained metals and alloys by severe plastic deformation techniques is one of the well-established routes in the materials engineering to achieve improved performance [1]. Equal channel angular pressing (ECAP) is one of such solid-state plastic deformation methods used to produce grain refined rods and plates [2, 3]. In ECAP, the number of pressings, number of cycles, channel angle, back pressure, type of processing route, and processing temperature are a few factors which dictate the level of grain refinement [4]. Among the four reported processing routes, Bc route is demonstrated as promising in bringing higher level of grain refinement [5, 6]. Usually, the grains in ECAPed metals exhibit combination of nanolevel, ultra fine size and sub-micrometer level [4]. ECAP can be readily adopted in the existing metal forming industries as it needs only a specially designed set of dies which can be used in any available metal forming presses.

Among the metals and alloys, magnesium (Mg) based alloys are now grabbed a great attention in the materials engineering field due to their lightweight nature with higher specific strength compared with



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Date : 16/12/23

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Debit : Dr. G. N. N. B. Prabhakar

PARTICULARS	AMOUNT
Publication	7100/- /
	7,500/-

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Correspondent

Signature of the Receiver

Received 7,500/- (Rupees Seven Thousand Five hundred) Being PDR



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Financial Support Request Letter

1. Name of the Staff Member : K. Durgabasa
2. Designation : Associate Professor
3. Department : Mechanics
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Industry u.o / 5.0
5. Date and Duration of the Program : 15-4-24 to 17-4-24
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : _____
 - i. Registration Charges : 600/-
 - ii. Travelling Allowances : 600/-
 - iii. Membership Fee : -
 - iv. Others(if any) : -

29/4/24
Date:

[Signature]
Signature of the Staff Member

1. Recommendations of the HOD: Recommended [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: _____

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Department of Mechanical Engineering

Certificate of Participation

This is to certify that DURGAPRASAD KOLLIPARA of MECHANICAL ENGINEERING from V.K.R,V.N.B& A.G.K COLLEGE OF ENGINEERING has participated in Two-Week online Faculty Development Program on “INDUSTRY 4.0/5.0” Organized by Department of Mechanical Engineering, Prasad V Potluri Siddhartha Institute of Technology, Vijayawada, Andhra Pradesh *From 15.04.2024 to 27.04.2024.*

Dr. K. I. V. Vandana
Coordinator

Dr. Rajyalakshmi.M
Coordinator

Dr. B. Raghu Kumar
HOD

Dr. K. Sivaji Babu
Principal

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V.No. :

Date : 27/4/24

Debit : K. Durga prasad


PARTICULARS	AMOUNT
FD	600/-
	600/-

Accountant

Correspondent

Signature of The Receiver

Received 600/-
 Involved Outlay (Rupees) 5X
 Being FDR





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Gudivada, Krishna District, Andhra Pradesh – 521301
Email: principalnh2008@gmail.com URL: http://www.ykvrnbcoe.org



Financial Support Request Letter

1. Name of the Staff Member : Mr. Durgarasad
2. Designation : Associate Professor
3. Department : Mechanical Engineering
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Study of glass concrete manufacturing techniques
5. Date and Duration of the Program : 24-4-24
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : 5,100/-
 - i. Registration Charges : _____
 - ii. Travelling Allowances : _____
 - iii. Membership Fee : _____
 - iv. Others(if any) : _____

Date: 25/4/24

Signature of the Staff Member

1. Recommendations of the HOD: Recommended
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal: _____

VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA KR. D.L.A.P.521 301
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Account Department

Accountant: _____

Date: 25/4/24

IJERT

International Journal of
Engineering Research & Technology
ISSN : 2278 - 0181, www.ijert.org
(Published by : ESRSA Publications)



CERTIFICATE OF PUBLICATION

This is to certify that

Durgaprasad Kollipara

Has published a research paper entitled

Study of Glass Concrete Manufacturing Techniques

In IJERT, Volume 13, Issue 04, April - 2024

Registration No: IJERTV13IS040095

Date: 24-04-2024


Chief Editor, IJERT




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921

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Date : 25/4/24

Debit : K. Durga Prasad

PARTICULARS	AMOUNT
Publication	5,100/-
	5,100/-

Accountant

Correspondent

Received

₹ 100/- (Rupees Five)

₹ 100/- (Rupees Five) Being Publication

Signature of The Receiver



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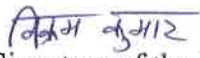
Gudivada, Krishna District, Andhra Pradesh - 521301



Mobile -91 92465 42188 91596 05555 E mail: principal@vkrnbc.org URL: <http://www.vkrnbc.org>

Financial Support Request Letter

1. Name of the Staff Member : P. VIKRAM KUMAR
2. Designation : Associate professor
3. Department : ECE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Applied Learning Algebra for signal processing,
Data Analytics and Machine Learning
5. Date and Duration of the Program : Jul-Oct 2023
6. Associating Professional body/Agency:-----
7. Financial support particulars(Rs) :----- 1300/-
 - i. Registration Charges :----- 500/-
 - ii. Travelling Allowances :----- 300/-
 - iii. Membership Fee :----- -
 - iv. Others(if any) :----- 100/-

Date: 26/6/23


Signature of the Staff Member

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


Sanctioned/Not Sanctioned

Account Department V.K.R., V.N.B. & A.G.K. COLLEGE OF ENGINEERING

Eluru Road, GUDIVADA, Kri Dt. A.P. 521 301


Accountant:



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

PINGILI VIKRAM KUMAR

for successfully completing the course

Applied Linear Algebra for Signal Processing, Data

Analytics and Machine Learning

with a consolidated score of **82** %



Online Assignments	25/25	Proctored Exam	57/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **253**

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Oct 2023

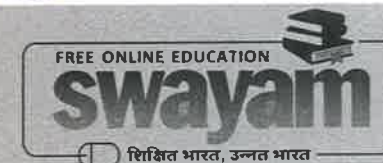
(12 week course)

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VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA, Kri D.L.A.P. 521 301

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23EE100S737400804

To verify the certificate



No. of credits recommended: 3 or 4



1435
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 ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., India

DEBIT VOUCHER

V.No:

Date: 26/5/25

Debit: P. VIKRAM KUNAR

PARTICULARS	AMOUNT
Through FOP	1300/-
	1300/-

[Signature]
 Accountant

Correspondent

Received 1300/- (Rupees One thousand
Three hundred rupees Only) Being
[Signature]
 Signature of the Receiver



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Gudivada, Krishna District, Andhra Pradesh - 521301

Mobile -91 92465 42188/91596 05555 E mail: principal@vkrvnb.org URL: <http://www.vkrvnb.org>

Financial Support Request Letter

1. Name of the Staff Member : P. VIKRAM KUMAR
2. Designation : Associate Professor
3. Department : ECE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Applied optimization for wireless, Machine Learning, Big data
5. Date and Duration of the Program : Jul - oct 2023
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) :
 - i. Registration Charges : 1300/-
 - ii. Travelling Allowances : 500/-
 - iii. Membership Fee : 300/-
 - iv. Others(if any) : -
 - 100/-

Date: 28/6/23

A. Vikram Kumar
Signature of the Staff Member

1. Recommendations of the HOD: _____
2. Recommendations of the IQAC: _____
3. Recommendations of the Principal: _____

Sanctioned/Not Sanctioned

Account Department

VKR VNB & AGK COLLEGE OF ENGINEERING
Guru Road, GUDIVADA, Kri Dt. A.P. 521 301

Accountant:



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
PINGILI VIKRAM KUMAR
for successfully completing the course



Applied Optimization for Wireless, Machine Learning, Big Data

with a consolidated score of **82** %

Online Assignments	23.75/25	Proctored Exam	58.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **94**

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jul-Oct 2023
(12 week course)

PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA, Kri Dt. A.P. 521 301

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23EE99S537400747

To verify the certificate



No. of credits recommended: 3 or 4

1433

DEBIT VOUCHER



V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING

ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., India

V.No:

Date: 08/12/20

Debit: P. VIKRAM KUMAR

PARTICULARS	AMOUNT
Through FDP	1300/-
	1300/-

A. [Signature]
Accountant

Correspondent

Received.....1300/-.....(Rupees...One thousand
 three hundred rupees only) Being.....
 Signature of the Receiver *P. VIKRAM KUMAR*



V.K.R., V.N.B. & A.G.K. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi & Affiliated to JNTUK, KAKINADA)

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Gudivada, Krishna District, Andhra Pradesh - 521301

Email: principalh2008@gmail.com URL: http://www.vkrvnbcoe.org



Financial Support Request Letter

1. Name of the Staff Member : Mrs. Chapanala Sreelakshmi
2. Designation : Associate Professor
3. Department : ECE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details: "MACHINE LEARNING FOR SIGNAL PROCESSING"
5. Date and Duration of the Program : 18-03-24 to 22-03-24 (one week)
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : _____
 - i. Registration Charges : 5,500/-
 - ii. Travelling Allowances : 1000/-
 - iii. Membership Fee : 2000/-
 - iv. Others(if any) : -
 - _____ 2,500/-

Date: 24-03-24

Ch. Bl.
Signature of the Staff Member

1. Recommendations of the HOD: K. S. S.
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal: _____

Principal
PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Bluru Road, GUDIVADA Kri. Dt. A.P. 521 301

Sanctioned/Not Sanctioned

Account Department

Accountant: [Signature]

Date: 24/03/24



AIMS COLLEGE OF ENGINEERING

Approved by AICTE and affiliated to JNTU Kakinada

NH-214, Mummidivaram, Near Amalapuram – 533222

Department of Electronics & Communication Engineering

Certificate of Participation

This is to certify that *Mrs. Chaparala Sree lakshmi*..... of
V.K.R.V.N.B.&A.G.K. College of Engg. has participated in *A One Week Faculty
Development Program* on “**Machine Learning for Signal Processing**” from **18.03.24** to
22.03.24.

Coordinator

PRINCIPAL
V.K.R.V.N.B.&A.G.K. COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA Kr. DLA.P.L. 531

Principal



901 DEBIT VOUCHER
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V.No.

Date : 24/3/24

Debit : Ch. Sree Lakshmi

PARTICULARS	AMOUNT
Through FDP	5,500/-
	5,500/-

Accountant

Correspondent

Received
5,500/- (Rupees Five
 thousand Five hundred only) FDP
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V.K.R., V.N.B. & A.G.K. COLLEGE OF ENGINEERING

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Gudivada, Krishna District, Andhra Pradesh - 521301

Email: principalh2008@gmail.com URL: http://www.vkrvnbceoc.org



Financial Support Request Letter

1. Name of the Staff Member : k. Devalci Devi
2. Designation : Assoc Prof
3. Department : ECE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Machine learning for signal processing.
5. Date and Duration of the Program : 18/3/24 to 22/3/24.
6. Associating Professional body/Agency:-----
7. Financial support particulars(Rs) :-----
 - i. Registration Charges : 5,200/-
 - ii. Travelling Allowances : 1000/-
 - iii. Membership Fee : 2000/-
 - iv. Others(if any) : 2,200/-

28/3/24

Date:

K. D.
Signature of the Staff Member

1. Recommendations of the HOD: R. Ph.
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal:-----

[Signature]
PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA Kri. D.L.A.P.521 301
Sanctioned/Not Sanctioned

Account Department

Accountant: [Signature]

Date: 28/3/24



AIMS COLLEGE OF ENGINEERING

Approved by AICTE and affiliated to JNTU Kakinada

NH-214, Mummidivaram, Near Amalapuram – 533222

Department of Electronics & Communication Engineering

Certificate of Participation

This is to certify that *Koduru Devaki Devi* of
V.V.R.V.N.B. & A.G.K. College of Engg. has participated in *A One Week Faculty*
Development Program on "Machine Learning for Signal Processing" from *18.03.24* to
22.03.24.


Coordinator


PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA Kri. Dt.A.P.521 301


Principal



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Through FDP	5,200/-
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Accountant

Correspondent

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Email: principalnh2008@gmail.com URL: http://www.vkrvnbceoc.org



Financial Support Request Letter

1. Name of the Staff Member : Arepalli Neeraj Kumar
2. Designation : Asst Professor
3. Department : ECE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
"Machine Learning for Signal Processing"
5. Date and Duration of the Program : 18-03-24 to 22-03-24
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : _____
 - i. Registration Charges : 600/-
 - ii. Travelling Allowances : 2000/-
 - iii. Membership Fee : -
 - iv. Others(if any) : 2500/-

Date: 24-03-24

A. N. Kumar
Signature of the Staff Member

1. Recommendations of the HOD: K. Ch.
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal: _____

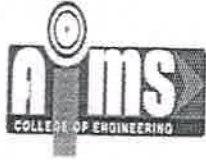
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Account Department

Accountant: [Signature]

Date: 24-03-24



AIMS COLLEGE OF ENGINEERING

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NH-214, Mummidivaram, Near Amalapuram – 533222

Department of Electronics & Communication Engineering

Certificate of Participation

This is to certify that *Arepalli Naga Suman*..... of
VKR VNB & AGK College of Engg. has participated in *A One Week Faculty*
Development Program on “**Machine Learning for Signal Processing**” from **18.03.24** to
22.03.24.

Coordinator

PRINCIPAL
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Principal



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ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No.

Date : 24/03/24

Debit :

Aocpall; Naga Suman

PARTICULARS	AMOUNT
Through FDP	₹,100/-
	₹,100/-

Accountant

Correspondent

Signature of The Receiver

Received
 ₹ 100/- (Rupees Five
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 A.N. Suman



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Gudivada, Krishna District, Andhra Pradesh - 521301

Email: principalh2008@gmail.com URL: http://www.vkrvnbcce.org



Financial Support Request Letter

1. Name of the Staff Member : Mr. Seva Sreedhar
2. Designation : Asst. Professor
3. Department : ECE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details: "Machine Learning for Signal Processing"
5. Date and Duration of the Program : 18-03-24 to 22-03-24
6. Associating Professional body/Agency: -----
7. Financial support particulars(Rs) : 5,200/-
 - i. Registration Charges : 1000/-
 - ii. Travelling Allowances : 2000/-
 - iii. Membership Fee : -
 - iv. Others(if any) : 2,200/-

Date: 23/03/24

Signature of the Staff Member

1. Recommendations of the HOD: K. Sh.
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal: [Signature]

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VKR VNB & AGK COLLEGE OF ENGINEERING
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Accountant: [Signature]

Date: 23/03/24



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Department of Electronics & Communication Engineering

Certificate of Participation

This is to certify that Mr. Seva Sreedhar of
V.K.R., V.N.B. & A.G.K. College of Engg has participated in *A One Week Faculty
Development Program* on “**Machine Learning for Signal Processing**” from 18.03.24 to
22.03.24.


Coordinator


PRINCIPAL
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Principal



904

DEBIT VOUCHER

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ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No.

Date: 23/03/24

Debit: Mr. Seva Sreedhar

PARTICULARS	AMOUNT
Through FDP	₹, 200/-
	₹, 200/-

Accountant

Correspondent

Signature of The Receiver

Received
 Through Two hundred) Being
 Five
 (Rupees) Being
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Email: principalnh2008@gmail.com URL: http://www.vkrvbcoe.org



Financial Support Request Letter

1. Name of the Staff Member : K. Devaki Devi
2. Designation : Assoc Prof
3. Department : ECE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details: Applications in signal processing and communication systems
5. Date and Duration of the Program : 29/11/24 to 1/15/24
6. Associating Professional body/Agency:-----
7. Financial support particulars(Rs) : 5,200/-
 - i. Registration Charges : 1000/-
 - ii. Travelling Allowances : 2000/-
 - iii. Membership Fee : ---
 - iv. Others(if any) : 2,200/-

Date: 8/5/24

Signature of the Staff Member

1. Recommendations of the HOD: K. Sh.
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal:-----

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Eluru Road, GUDIVADA Kri. Dt.A.P.521 301
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Account Department

Accountant: [Signature]

Date: 8-5-24



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Anakapalli-530053, Andhra Pradesh - INDIA

Certificate

OF PARTICIPATION

This certificate is proudly presented to

Koduru Devaki Devi, ECE, Associate Professor
Of VKR, VNB & AGK college of engineering as participated in

A One Week Faculty Development Program On

APPLICATIONS IN SIGNAL PROCESSING AND COMMUNICATION SYSTEMS

Conducted by departments of EEE & ECE from 29th April, 2024 to 4th May, 2024


Ch Bharathi
HOD-EEE


K Kanthi Kinnera
HOD-ECE


Dr P S N Murty
PRINCIPAL


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DEBIT VOUCHER

V.No.

Date: 8/5/24

Debit: K. Devaki Devi

PARTICULARS	AMOUNT
Through FDP	5,200/-
	5,200/-

Correspondent

Accountant

Received 5,200/-
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Mobile -91 92465 42188/91596 05555 Email: principal@vkrvnbcoa.org URL: <http://www.vkrvnbcoa.org>

Financial Support Request Letter

1. Name of the Staff Member : Pingali Vikram Kumar
2. Designation : Asst. prof.
3. Department : ECE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Simulation of communication systems using Matlab
5. Date and Duration of the Program : July - Oct 2023 (12 week course)
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : _____

i. Registration Charges	: _____	<u>1300</u>
ii. Travelling Allowances	: _____	<u>500</u>
iii. Membership Fee	: _____	<u>400</u>
iv. Others(if any)	: _____	<u>100</u>
		<u>200</u>

Date: 27/10/2023

P. Vikram Kumar

Signature of the Staff Member

1. Recommendations of the HOD: K. Saurav
2. Recommendations of the IQAC: J. Sai
3. Recommendations of the Principal: _____

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Account Department

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A. Saurav
Accountant:



Elite

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This certificate is awarded to

PINGILI VIKRAM KUMAR

for successfully completing the course



Simulation of Communication Systems Using Matlab

with a consolidated score of **84** %

Online Assignments	23.16/25	Proctored Exam	61.13/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **154**


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VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA, Kri Dt.A. # 521 301

Jul-Oct 2023

(12 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL23EE136S837401825

To verify the certificate



No. of credits recommended: 3 or 4



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 ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., India

V.No:

Date: 27/10/2022

Debit: Pingili Vikram Kumar

PARTICULARS	AMOUNT
FDP	1300/-
	1300/-

[Signature]
 Accountant

Correspondent

Received 1300 (Rupees One Thousand
 Three hundred only) Being FDP
[Signature]
 Signature of the Receiver



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Financial Support Request Letter

1. Name of the Staff Member : G. Venkatasatnam
2. Designation : Assoc Prof
3. Department : CSE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Salesforce platform Developer -1
5. Date and Duration of the Program : 18/3/24 to 22/3/24
6. Associating Professional body/Agency:-----
7. Financial support particulars(Rs) :
 - i. Registration Charges : 5,200/-
 - ii. Travelling Allowances : 1000/-
 - iii. Membership Fee : 2000/-
 - iv. Others(if any) : -

Date: 24/3/24

Signature of the Staff Member

1. Recommendations of the HOD:-----
2. Recommendations of the IQAC:----- Recommended
3. Recommendations of the Principal:-----

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Accountant:

Date: 24/3/24




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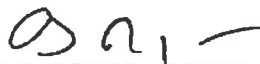
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This is to Certify that Dr./Mr./ Mrs./Ms... *G. Venkataratnam*.....
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Faculty Development Program on " **Salesforce Platform Developer -1** " organized by
Department of Computer Science and Engineering , Sri Vasavi Institute of Engineering and Technology in
Collaboration with ICT Academy During 18th March - 22nd March 2024.


Dr. G. Syam Prasad
Professor & Head, CSE


Dr. B.R.S Reddy
Principal


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V.No. :

Date : 24/3/24

Debit : G. Venkateswaram

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Thru FDP	₹ 200/-
	₹ 200/-

Accountant

Correspondent

Received ₹ 200/- (Rupees) Two Hundred, Being FDP

Signature of The Receiver

G. Venkateswaram



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Email: principalnh2008@gmail.com URI: http://www.vkrvnbcoe.org



Financial Support Request Letter

1. Name of the Staff Member : K. Jeevan Kumar
2. Designation : Associate Professor
3. Department : CSE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
KEY: ISSN: 2148-2403
5. Date and Duration of the Program : 10-04-2024
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : 7,200/-
 - i. Registration Charges : _____
 - ii. Travelling Allowances : _____
 - iii. Membership Fee : _____
 - iv. Others(if any) : _____

Date: _____

Signature of the Staff Member

1. Recommendations of the HOD: [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: [Signature]

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Account Department

Accountant: [Signature]

Date: 11/04/24



An In-Depth Study Of Machine Learning In Artificial Intelligence

K. Jeevan Kumar^{1*}, K. Jairam², Ch. Ambedkar³

¹HOD – A.I & D.S. and A.I & M.L, V.K.R, V.N.B & A.G.K College of Engineering, Krishna District, Andhra Pradesh, India.

²Assistant Professor, S.R.K Institute of Technology, Enikepadu, Vijayawada, Krishna District, Andhra Pradesh, India.

³Assistant Professor, S.R.K Institute of Technology, Enikepadu, Vijayawada, Krishna District, Andhra Pradesh, India.

Citation: K. Jeevan Kumar, et.al (2023) An In-Depth Study Of Machine Learning In Artificial Intelligence, *Educational Administration: Theory and Practice*, 29(4) 2401 - 2408
Doi: 10.53555/kuey.v29i4.7127

ARTICLE INFO

ABSTRACT

Machine learning is a branch of artificial intelligence that enables algorithms to uncover hidden patterns within datasets, allowing them to make predictions on new, similar data without explicit programming for each task. Traditional machine learning combines data with statistical tools to predict outputs, yielding actionable insights. This technology finds applications in diverse fields such as image and speech recognition, natural language processing, recommendation systems, fraud detection, portfolio optimization, and automating tasks. For instance, recommender systems use historical data to personalize suggestions. Netflix, for example, employs collaborative and content-based filtering to recommend movies and TV shows based on user viewing history, ratings, and genre preferences. Reinforcement learning further enhances these systems by enabling agents to make decisions based on environmental feedback, continually refining recommendations. Machine learning's impact extends to autonomous vehicles, drones, and robots, enhancing their adaptability in dynamic environments. This approach marks a breakthrough where machines learn from data examples to generate accurate outcomes, closely intertwined with data mining and data science.

Introduction

In his US senate hearing in April 2018, Mark Zuckerberg stressed the necessary capabilities of Facebook's "AI tools (...) to (...) identify hate speech(...)" or "(...) terrorist propaganda". Researchers would typically describe such tasks of identifying specific instances within social media platforms as *classification tasks* within the field of (*supervised*) *machine learning*. However, with rising popularity of *artificial intelligence (AI)*, the term AI is often used interchangeably with machine learning—not only by Facebook's CEO in the example above or in other interviews, but also across various theoretical and application-oriented contributions in recent literature. Carner (2017) even states that he still uses AI as a synonym for machine learning although knowing this is not correct. Such ambiguity, though, may lead to multiple imprecisions both in research and practice when conversing about methods, concepts, and results.

It seems surprising that despite of the frequent use of the terms, there is hardly any helpful scientific delineation. Thus, this paper aims to shed light on the relation of the two terms *machine learning* and *artificial intelligence*. We elaborate on the role of machine learning within instantiations of artificial intelligence, precisely within intelligent agents. To do so, we take a machine learning perspective on the capabilities of intelligent agents as well as the corresponding implementation.

The contribution of our paper is threefold. First, we expand the theoretical framework of Russel & Norvig (2015) by further detailing the "thinking" layer of any intelligent agent by splitting it into separate "learning" and "executing" sublayers. Second, we show how this differentiation enables us to distinguish different contributions of machine learning for intelligent agents. Third, we draw on the implementations of the execution and learning sublayers ("backend") to define a continuum between human involvement and agent autonomy.

In the remainder of this paper, we first review relevant literature in the fields of machine learning and artificial intelligence. Next, we present and elaborate our conceptual framework which highlights the contribution of machine learning to artificial intelligence. On that basis, we derive an agenda for future research and conclude with summary, current limitations, as well as an outlook.



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Financial Support Request Letter

1. Name of the Staff Member : T. Rohini kumar
2. Designation : Asst prof
3. Department : CSE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
salesforce platform -1
5. Date and Duration of the Program : 18/3/24 to 22/3/24
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : 5,200/-
 - i. Registration Charges : 1000/-
 - ii. Travelling Allowances : 2000/-
 - iii. Membership Fee : _____
 - iv. Others(if any) : 2,200/-

Date: 24/3/24

Rohini
Signature of the Staff Member

1. Recommendations of the HOD: [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: _____

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Accountant: [Signature]

Date: 24/3/24



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CERTIFICATE OF PARTICIPATION

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Date: 22 Mar 2024

T ROHINI KUMAR

V.K.R, V.N.B & A.G.K College of Engineering

has participated in one week Faculty Development Program on

Salesforce Platform Developer 1

conducted by ICT Academy on 18 Mar 2024 to 22 Mar 2024 at

Sri Vasavi Institute of Engineering and Technology, Andhra Pradesh



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In association with



Srikanth V
Chief Executive Officer (i/c)
ICT Academy

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ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No. :

Date: 24/3/24

Debit: Rohini Kumar

PARTICULARS	AMOUNT
Through FDD	5,200/-
	5,200/-

Accountant

Correspondent

Signature of The Receiver

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 Through FDD
 Rohini Kumar



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Email: principalh2008@gmail.com URL: <http://www.vkrvnbeoe.org>



Financial Support Request Letter

1. Name of the Staff Member : G. HANUMAN NARENDRA
2. Designation : Asst. Professor
3. Department : CSE
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Disease detection in cassava leaf using Ensembling
of EfficientNet, ResNext, VIT, DeIT and MobNet V3
5. Date and Duration of the Program : 06-06-2023
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : 7,500/-
 - i. Registration Charges : _____
 - ii. Travelling Allowances : _____
 - iii. Membership Fee : _____
 - iv. Others(if any) : _____

Date: 10/06/2023

Signature of the Staff Member [Signature]

1. Recommendations of the HOD: Recommended [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: _____

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Account Department

Accountant: [Signature]

Date: 10/06/2023

Chapter 41

Disease Detection in Cassava Leaf Using Ensembling of EfficientNet, ResNext, ViT, DeIT and MobNetV3



Ch. Ruthvik Chowdary, Marlapalli Krishna, Bandlamudi S. B. P. Rani,
G. Hanuman Narendra, and G. Satyanarayana

Abstract Plant leaf diseases have always been a matter of concern for the farmers. With increasing population, the demand for crops has increased which makes it very necessary and more important to not let the crops get damaged from viruses and bacteria. With development in computer vision technologies and machine learning algorithms, it is easier now than ever to use the computers for the help of farmers in early detection of diseases in plants and locating the infected portions of plant. Considerable advancements in deep learning have been seen in the existing computer vision models present, and a proposed approach to addition of a couple of them together to come up with a most advanced model for categorizing and localizing the detection of leaf diseases through colored images has been put forward. This paper proposes an algorithm, ensembling a few models developed in object recognition and classification to build a model for disease detection in cassava leaf. The designed ensemble model is found to achieve the classification accuracy value of 90.68% experimented on cassava leaf disease dataset crated by Makerere University.

Ch. Ruthvik Chowdary (✉) · M. Krishna (✉) · G. Satyanarayana
Department of CSE, Sir C R Reddy College of Engineering, Eluru, India
e-mail: chruthvikchowdary@gmail.com

M. Krishna
e-mail: marlapallikrishna@gmail.com

B. S. B. P. Rani
Department of CSE, Eluru College of Engineering and Technology, Eluru, India

G. Hanuman Narendra
Department of CSE, V.K.R, V.N.B & A.G.K College of Engineering, Gudivada, India

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V. S. Reddy et al. (eds.), *Intelligent Systems and Sustainable Computing*,
Smart Innovation, Systems and Technologies 363,
https://doi.org/10.1007/978-981-99-4717-1_41


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Date : 10/6/23

V.No. :

Debit : G. Hanuman Narendra

PARTICULARS	AMOUNT
Publication	₹ 500/-
₹ 500/-	

Correspondent

Accountant

[Signature]

Signature of The Receiver

[Signature]

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Financial Support Request Letter

1. Name of the Staff Member : POTHURAJU TUPATI
2. Designation : ASSOCIATE PROFESSOR
3. Department : BASIC SCIENCE & HUMANITIES
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
ESSENTIAL PHYSICS FOR POLYTECHNIC
TEACHERS
5. Date and Duration of the Program : 21/08/2023 to 25/08/2023 (ONE WEEK)
6. Associating Professional body/Agency: -
7. Financial support particulars(Rs) :
 - i. Registration Charges : 2500/-
 - ii. Travelling Allowances : 1000/-
 - iii. Membership Fee : 1000/-
 - iv. Others(if any) : 500/-

Date: 27/08/2023

T. Pothu Raju
Signature of the Staff Member

1. Recommendations of the HOD: N. Dewa
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal: [Signature]

PRINCIPAL
V.K.R. V.N.B. & A.G.K. COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA, KRISHNA DISTRICT - 521301
Sanctioned/Not Sanctioned

[Signature]
Accountant:

Account Department



Certificate No: ICT-8404/23

**National Institute of
Technical Teachers Training and Research
Chandigarh**

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate



This is to certify that

POTHURAJU TUPATI

**VKR VNB AGK COLLEGE OF ENGINEERING, GUDIWADA
ANDHRA PRADESH**

*Participated in the **AICTE** Recognized Faculty Development Programme*

on

Essential Physics for Polytechnic Teachers

Conducted by

Applied Science Department

from

21/08/2023 to 25/08/2023 (One Week)

at

NITTTR, Chandigarh



Coordinator

PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIWADA, Kri Dt. A.P. 521 301

Director



1443
V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING
 ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., India

DEBIT VOUCHER

V.No:.....

Date : 27/08/23

Debit: POTURAJU TUPATI

PARTICULARS	AMOUNT
Through FDP	2500/-
	2500/-

[Signature]
 Accountant

Correspondent

Received..... 2500/- (Rupees) Two Thousand
 The Usual (Five Hundred) Being..... PDR
[Signature]
 Signature of the Receiver



V.K.R., V.N.B. & A.G.K. COLLEGE OF ENGINEERING

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Godivada, Krishna District, Andhra Pradesh - 521301

Mobile: +91 92465 42188/91546 08888 Email: principalh2008@gmail.com URL: <https://www.vkrnbcoa.org>

Financial Support Request Letter

1. Name of the Staff Member : POTHURAJU TUPATI
2. Designation : ASSOCIATE PROFESSOR
3. Department : BASIC SCIENCE & HUMANITIES
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
FIBRE OPTICS: COMMUNICATION AND SENSING APPLICATIONS
5. Date and Duration of the Program : 10/07/2023 to 14/07/2023 (ONE WEEK)
6. Associating Professional body/Agency: -
7. Financial support particulars(Rs) :
 - i. Registration Charges : 2500/-
 - ii. Travelling Allowances : 1000/-
 - iii. Membership Fee : 1000/-
 - iv. Others(if any) : 500/-

Date: 16/07/2023

T. Pothu Raju
Signature of the Staff Member

1. Recommendations of the HOD: V.S. D... ..
2. Recommendations of the IQAC: Recommended by
3. Recommendations of the Principal:

PRINCIPAL
V.K.R. V.N.B. & A.G.K. COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA, Kri. Dist. A.P. 521 301

Sanctioned/Not Sanctioned

Account Department

Accountant:

**NATIONAL INSTITUTE OF
TECHNICAL TEACHERS TRAINING AND RESEARCH
CHANDIGARH**

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate



This is to certify that

POTHURAJU TUPATI

**VKR VNB AGK COLLEGE OF ENGINEERING, GUDIWADA
ANDHRA PRADESH**

Participated in the AICTE Recognized Faculty Development Programme

on

Fibre Optics: Communication and Sensing Applications

Conducted by

Applied Science Department

from

10/07/2023 to 14/07/2023 (One Week)

at

NITTTR, Chandigarh




Coordinator


Director


PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Ejuru Road, GUDIVADA, Kri Di. A P. 531 305



1444 DEBIT VOUCHER
V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING
 ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., India

V.No:

Date: 16/07/2022

Debit: POTHURAJU TUPATI

PARTICULARS	AMOUNT
Through FDP	2500/-
	2500/-

[Signature]
 Accountant

Correspondent

Received 2500/- (Rupees) 720
 THOUSAND FIVE HUNDREDS BEING 720
 Signature of the Receiver *[Signature]*



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Gudivada, Krishna District, Andhra Pradesh - 521301

Mobile -91 92465 42188/91546 05555 E-mail principal@vkrvnb.org URL : <http://www.vkrvnb.org>

Financial Support Request Letter

1. Name of the Staff Member : POTHURAJU TUPATI
2. Designation : ASSOCIATE PROFESSOR
3. Department : BASIC SCIENCE & HUMANITIES
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
REFRESHER COURSE IN ENGINEERING
PHYSICS
5. Date and Duration of the Program : 19/07/2023 to 28/07/2023 (Two weeks)
6. Associating Professional body/Agency: -
7. Financial support particulars(Rs) : 3500/-
 - i. Registration Charges : 1000/-
 - ii. Travelling Allowances : 1000/-
 - iii. Membership Fee : 500/-
 - iv. Others(if any) : 1000/-

Date: 30/07/2023

T. Pothu Raju
Signature of the Staff Member

1. Recommendations of the HOD: V.V. Dewaraj
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal: [Signature]

PRINCIPAL
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Eluru Road, GUDIVADA, Kri Dt. A.P. 521 301

Sanctioned/Not Sanctioned

[Signature]
Accountant:

Account Department



Certificate No: ICT-6366/23

**National Institute of
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Chandigarh**

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

POTHURAJU TUPATI



**VKR VNB AGK COLLEGE OF ENGINEERING, GUDIWADA
ANDHRA PRADESH**

Participated in the AICTE Recognized Faculty Development Programme

on

Refresher Course in Engineering Physics

Conducted by

Applied Science Department

from

17/07/2023 to 28/07/2023 (Two Weeks)

at

NITTTR, Chandigarh



[Signature]

Coordinator

[Signature]

**PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIWADA, Kri Dt. A.P. 521 301**

[Signature]

Director



1442
V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING
 ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., India

DEBIT VOUCHER

V.No:

Date: 30/07/23

Debit: POTURAJU TUPATI

PARTICULARS	AMOUNT
Through FDP	3,500/-
	3,500/-

[Signature]
 Accountant

Correspondent

Received 3500/- (Rupees Three Thousand and Five hundred) Being FDP
[Signature]
 Signature of the Receiver



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Gudivada, Krishna District, Andhra Pradesh - 521301

Email: principalh2008@gmail.com URL: <http://www.vkrvnbce.org>



Financial Support Request Letter

1. Name of the Staff Member : U-Harshni
2. Designation : Asst. Professor
3. Department : MBA
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
"Unlocking Innovation: Exploring Intellectual Property Rights."
5. Date and Duration of the Program : 16-21 May 2024.
6. Associating Professional body/Agency: ---
7. Financial support particulars(Rs) : 600/-
 - i. Registration Charges : 600/-
 - ii. Travelling Allowances : ---
 - iii. Membership Fee : ---
 - iv. Others(if any) : ---

Date: 23-05-2024

Harshni
Signature of the Staff Member

1. Recommendations of the HOD: [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: [Signature]

PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA Kr. Dt. A.P. 521 301
Sanctioned/Not Sanctioned

Account Department

Accountant: [Signature]

Date: 24/5/24



**P V P SIDDHARTHA INSTITUTE OF TECHNOLOGY
&**



**P. B. SIDDHARTHA COLLEGE OF ARTS & SCIENCE
Certificate of Participation**

This is to certify that

Urvi Harini

Assistant Professor, VKR VNB & AGK COLLEGE OF ENGINEERING
has actively participated in the 5-Day Online Faculty Development Program
on "Unlocking Innovation: Exploring Intellectual Property Rights"
16-21 May, 2024.

**Dr. Meka Ramesh
Principal - PBSCAS**

**Dr. K. Sivaji Babu
Principal - PVPST**

PBSCAS-CE000391

**PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
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906

DEBIT VOUCHER

V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING

ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No. :

Date : ..23/5/24.....

Debit : U. Halini

PARTICULARS	AMOUNT
Krogh FDP	600/-

Accountant

Correspondent

Signature of The Receiver

Received 600/- (Rupees Six) Being FDP
Halini



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Gudivada, Krishna District, Andhra Pradesh – 521301

Email: principalh2008@gmail.com URL: http://www.vkrvnbcoe.org



Financial Support Request Letter

1. Name of the Staff Member : Dr. Shrawani
2. Designation : Asst professor
3. Department : MBA
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details: Blue ocean strategy
5. Date and Duration of the Program : 20-22 march 2024
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : _____
 - i. Registration Charges : 600/-
 - ii. Travelling Allowances : -
 - iii. Membership Fee : -
 - iv. Others(if any) : _____

26/3/24
Date:

Dr. Shrawani
Signature of the Staff Member

1. Recommendations of the HOD: V. S. Desai
2. Recommendations of the IQAC: Recommended
3. Recommendations of the Principal: _____

Principal
PRINCIPAL
V.K.R. V.N.B. & A.G.K. COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA Kri. D.L.A.P.521 301
Sanctioned/Not Sanctioned

Account Department

Accountant: [Signature]

Date: 23/03/24



SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

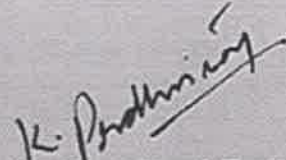
(AN AUTONOMOUS INSTITUTE WITH PERMANENT AFFILIATION TO JNTUK, KAKINADA)

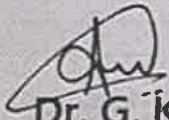
Seshadri Rao Knowledge Village Gudlavalleru-521 356, Krishna District, Andhra Pradesh


Department of Business and Management Studies

Certificate

This is to certify that Ms./Mr./Dr. Ch. Shravan
from V.K.R., V.N.B & A.G.K College of Engineering has
actively participated in a Three Day faculty Development Program on "BLUE OCEAN STRATEGY"
organised by Department of Business and Management Studies, Seshadri Rao Gudlavalleru Engineering College
From 20th to 22nd March 2024


Dr.K. Prudhvi Raj
Co-ordinator


Dr. G. Kamal
Head of the Department


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Dr.B Karuna Kumar
Principal



910 DEBIT VOUCHER
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 ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No.

Date : 25/3/2024

Debit : Ch. Shrawani

Signature of The Receiver

Received
 600/- (Rupees) Being
 600/- (Rupees) Being
 FDP

PARTICULARS	AMOUNT
Through FDP	600/-
	600/-

Accountant

[Signature]

Correspondent

Financial Support Request Letter

- 1. Name of the Staff Member :----- N. Dhanunjaya Rao
- 2. Designation :----- Assoc Prof
- 3. Department :----- MBA
- 4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
----- An Empirical Study on Role and Growth, Performance
----- of small scale sector in AP
- 5. Date and Duration of the Program :----- 13-05-2024
- 6. Associating Professional body/Agency:-----
- 7. Financial support particulars(Rs) :----- 2,200/-
 - i. Registration Charges :-----
 - ii. Travelling Allowances :----- -
 - iii. Membership Fee :----- -
 - iv. Others(if any) :----- -

Date: 14/5/24

Signature of the Staff Member

- 1. Recommendations of the HOD:----- ✓
- 2. Recommendations of the IQAC:----- Recommended
- 3. Recommendations of the Principal:-----

PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
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Account Department

Accountant: [Signature]

Date: 14/5/24

AN EMPIRICAL STUDY ON ROLE AND GROWTH, PERFORMENCE OF SMALL SCALE SECTOR IN ANDHRA PRADESH

A. ANJANAIAH,

Assistant Professor, Department of Business Administration
Annamacharya University: Rajampet, Annamaiah District, Andhra Pradesh

NUNE DHANUNJAYA RAO,

Associate Professor, Department of M.B.A,
V.K.R. & V.N.B Engineering College, Gudivada, Krishna Dt. Andhra Pradesh

Abstract

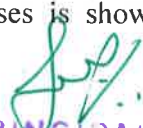
Small-scale industries (SSIs) have been playing an important role in the overall economic development of a country like India, where millions of people are unemployed or underemployed. Poverty has become the most important problem for our country today. so the SSIs are introduce in rural areas create an employment improve the standards of economic level with lower investment. The government initiate to decision for developing manufacturing industries are essential for rural areas because majority of the population lives there. If industrialization is started from villages then the impact of development is enormous. The economic development of any country primarily depends upon the establishment of industries. so the state and central level to identified special economic zones in different places and the same time the government also provide financial opportunity to SSI sector comprises 95 per cent of the total industrial units in the country. Let us discuss about the growth and performance of small-scale industries in India with special reference to in combined state of Andhra Pradesh during the period 2012-2017.(AP and Telangana)

Key Words: development, economic growth, employment, government, industrialization, manufacturing industries, performance, policy.

INTRODUCTION

In India, small-scale industries (SSIs) occupy 12.3 million units, contribute to 40 per cent of industrial production and 35 per cent of their exports and provide employment to about 29.5 million people. The SSIs now produce more than 8000 products. By recognizing the importance I of SSI units in the development of economy, the government has been continuously attempting to improve the availability of critical input to this sector and create appropriate infrastructural environment. Recently, significant policy initiatives have created easy availability of financial assistance, incentives and subsidies and influenced many enterprises to start SSIs. This has resulted in growth in the number of SSI units.

Meaning of SSI According to Micro, Small and Medium Enterprises Development (MSMED) Act 2006, the micro, small and medium enterprises (MSMEs) are classified into two classes, namely, manufacturing enterprises that are engaged in the manufacture or production of goods pertaining to any industry specified in the first schedule to the Industries (Development and Regulation) Act, 1951 and service enterprises. The limit for investment in plant and machinery equipment for manufacturing/service enterprises is shown in given below table1


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ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No. :

Date : 14/5/24

Debit : Mr. N. Dhanunjaya Rao

PARTICULARS	AMOUNT
Publication	7,200/-
	7,200/-

Accountant

Correspondent

Signature of The Receiver

Received 7,200/- Rupees Seven thousand two hundred Being Publication

Financial Support Request Letter

1. Name of the Staff Member : M. Narendra
2. Designation : Assistant Professor
3. Department : MBA
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details: Unlocking Innovations: Exploring Intellectual Property Rights
5. Date and Duration of the Program : 16-21 May 2024, 6 days.
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : _____
i. Registration Charges : 600/-
ii. Travelling Allowances : 600/-
iii. Membership Fee : -
iv. Others(if any) : -

26/5/24
Date:

M. Narendra
Signature of the Staff Member

1. Recommendations of the HOD: V. S. Jeyaram
2. Recommendations of the IQAC: Recommended J. P. Kumar
3. Recommendations of the Principal: J. P. Kumar

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VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA Krt. Dt.A.P.521 3013

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Account Department

Accountant: [Signature]
Date: 26/05/24

**P V P SIDDHARTHA INSTITUTE OF TECHNOLOGY
&
P. B. SIDDHARTHA COLLEGE OF ARTS & SCIENCE**
Certificate of Participation



This is to certify that

Mukkapati Narendra

**Assistant Professor , VKR VNB & AGK College of Engineering
has actively participated in the 5-Day Online Faculty Development Program
on "Unlocking Innovation: Exploring Intellectual Property Rights"
16-21 May, 2024.**

**Dr. Meka Ramesh
Principal - PBSCAS**

**Dr. K. Sivaji Babu
Principal - PVPSIT**

PBVVUM-CE000243

**PRINCIPAL
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926

DEBIT VOUCHER



V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING

ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No.

Date : 26/5/24

Debit : N. Naundia

PARTICULARS	AMOUNT
Thru FDP	600/-

Accountant

Correspondent

Received 600/- (Rupees Six Hundred) Ruppes only Being FDP

Signature of The Receiver N. Naundia



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Gudivada, Krishna District, Andhra Pradesh - 521301

Mobile -91 92368 4235991 Fax 08844 Y mail: principal@vkrvbco.org URL: <http://www.vkrvbco.org>

Financial Support Request Letter

1. Name of the Staff Member : N.V. SUSHMITHA SOMU
2. Designation : Asst. Professor
3. Department : MBA
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Research Ethics & Integrity
5. Date and Duration of the Program : 12 Aug 2023.
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : 900/-
 - i. Registration Charges : 500/-
 - ii. Travelling Allowances : 300/-
 - iii. Membership Fee : _____
 - iv. Others(if any) : 100/-

Date: 15/8/2023

[Signature]
Signature of the Staff Member

1. Recommendations of the HOD: [Signature]
2. Recommendations of the IQAC: [Signature]
3. Recommendations of the Principal: _____

[Signature]
Sanctioned/Not Sanctioned

PRINCIPAL

Account Department V.K.R. V.N.B. & A.G.K. COLLEGE OF ENGINEERING

Eluru Road, GUDIVADA, Kri Dt. A.P. 521 301

[Signature]
Accountant:



V.K.R., V.N.B. & A.G.K. COLLEGE OF ENGINEERING

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Mobile -91 92365 423559136 08445 Email: principal@vkrvbce.com URL: <http://www.vkrvbce.org>

Financial Support Request Letter

1. Name of the Staff Member : N. MUTYALU
2. Designation : Asst Professor
3. Department : M-B.A
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Teaching through Case Studies - Making effective use of short/compact Case studies & the changing role of teacher in student Development
5. Date and Duration of the Program : 10 Aug 2023
6. Associating Professional body/Agency: -
7. Financial support particulars(Rs) : 900/-
 - i. Registration Charges : 500/-
 - ii. Travelling Allowances : 300/-
 - iii. Membership Fee : -
 - iv. Others(if any) : 100/-

Date: 13/8/2023

N. Mutyalu
Signature of the Staff Member

1. Recommendations of the HOD: N. Mutyalu
2. Recommendations of the IQAC: [Signature]
3. Recommendations of the Principal: [Signature]

[Signature]
Sanctioned/Not Sanctioned

[Signature]
Accountant:

Account Department

PRINCIPAL
V.K.R. V.N.B. & A.G.K. COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA, Kri Dt. A.P. 521 301



V.K.R., V.N.B. & A.G.K. COLLEGE OF ENGINEERING

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Gudivada, Krishna District, Andhra Pradesh - 521301

Mobile -91 93365 21991 846 06655 E-mail: principal@vkrvnb.com URL: <http://www.vkrvnb.com>

Financial Support Request Letter

1. Name of the Staff Member : MRS. N.V. SUSHMITHA & OMU
2. Designation : Asst. Professor
3. Department : M.B.A
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Exploring Research Literacy & Navigating the Path to Publication
5. Date and Duration of the Program : 17/10/2023
6. Associating Professional body/Agency: -
7. Financial support particulars(Rs) : 900/-
 - i. Registration Charges : 500/-
 - ii. Travelling Allowances : 300/-
 - iii. Membership Fee : -
 - iv. Others(if any) : 100/-

Date: 20/10/2023

[Signature]
Signature of the Staff Member

1. Recommendations of the HOD: [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: [Signature]

PRINCIPAL
V.K.R. V.N.B. & A.G.K. COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA, Kri Dt. A.P. 521 301

Sanctioned/Not Sanctioned

Account Department

[Signature]
Accountant:



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Gudivada, Krishna District, Andhra Pradesh - 521301

Email: principalnh2008@gmail.com URL: http://www.vkrvnbeoe.org






Financial Support Request Letter

1. Name of the Staff Member : S.N.V. Sushmithe
2. Designation : Associate professor
3. Department : MBA
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
Scopus journal.
5. Date and Duration of the Program : _____
6. Associating Professional body/Agency: 7,500/-
7. Financial support particulars(Rs) : 7,500/-
 - i. Registration Charges : -
 - ii. Travelling Allowances : -
 - iii. Membership Fee : -
 - iv. Others(if any) : -

16/8/23
Date:


Signature of the Staff Member

1. Recommendations of the HOD: 
2. Recommendations of the IQAC: Recommended 
3. Recommendations of the Principal: 

PRINCIPAL
VKR VNB & AGK COLLEGE OF ENGINEERING
Eluru Road, GUDIVADA Kri. Dt.A.P.521 301
Sanctioned/Not Sanctioned

Account Department

Accountant: 

Date: 18/8/23



JOURNAL OF NAMIBIAN STUDIES

HISTORY • POLITICS • CULTURE

ACCEPTANCE LETTER

Date: 05-08-2023

Paper Id: JNS_2023_126

Dear (s), **Dr. Dr. T. SOBHA RANI¹ & S.N.V.SUSHMITHA²**

**Title: A STUDY ON COMPREHENSIVE REVIEW OF EMOTIONAL
BIAS IMPACT ON INVESTMENT DECISIONS OF INVESTORS**

After peer review process, we are pleased to inform you that your paper has been reviewed and accepted for publication in **Journal of Namibian Studies**.

Your article will be published in

Vol 35 (2023): Special Issue on Business and Management

All papers are published in English language. All submitted manuscripts are subject to peer-review by the leading specialists for the respective topic.

¹Professor, Department of Mass Communication and Journalism,
Sri Padmavati Mahila Visvavidyalayam,
Tirupati 517502, Andhra Pradesh, India.

²Research Scholar, Sri Padmavati Mahila Visvavidyalayam,
Tirupati 517502, Andhra Pradesh, India.

Regards

Editorial Manager
Journal of Namibian Studies
ISSN: 2197-5523

<https://namibian-studies.com/index.php/JNS>



ELSEVIER
Scopus

PRINCIPAL
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922
DEBIT VOUCHER
V.K.R, V.N.B & A.G.K COLLEGE OF ENGINEERING
 ELURU ROAD, GUDIVADA - 521 301, Krishna Dist., AP., INDIA

V.No. :

Date : 16/8/23

Debit : S.N.V. Sushmitha

PARTICULARS	AMOUNT
Publication	₹,500/-
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Financial Support Request Letter

1. Name of the Staff Member : S.N.V. Sushmitha
2. Designation : Associate profemo
3. Department : MBA ✓
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details:
scopus journal
5. Date and Duration of the Program : 02-05-2024
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : 7,500/-
 - i. Registration Charges : _____
 - ii. Travelling Allowances : _____
 - iii. Membership Fee : _____
 - iv. Others(if any) : _____

Date: 04/5/24

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1. Recommendations of the HOD: V.S. Dewar
2. Recommendations of the IQAC: Recommended J. Swain
3. Recommendations of the Principal: _____

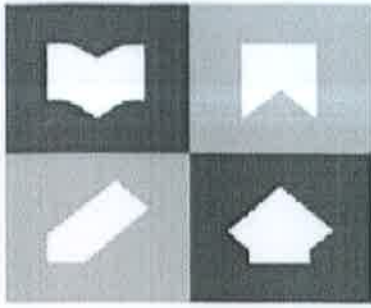
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Accountant: S. Sub

Date: 04/05/24



Educational Administration Theory and Practice

02-MAY-2024

Paper_ID:

5915

Acceptance Letter

Author's Name:-

Dr.T.Sobha Rani, S.N.V.Sushmitha, Dr.C.Vani

Paper Title:-

Investigate The Impact Of Overconfidence Bias And Anchoring Bias On Risk Tolerance, And Subsequently, How Risk Tolerance Affects Investment Decisions.

Dear Author (s),

We are pleased to notify you that the paper you referenced above has been reviewed and accepted for publication in the **Educational Administration: Theory and Practice (E-ISSN: 2148-2403,**

P-ISSN: 1300-4832). Your manuscript is now officially accepted with no further amendments required.

Feel free to reach out to us for any queries.

Thank you very much for submitting your article to the *"Educational Administration: Theory and Practice"* with **E-ISSN:2148-2403, P-ISSN: 1300-4832**

We appreciate your contribution to the Journal and we look forward to your future participation.

<https://kuey.net/index.php/kuey>

Best Regards,
Editorial Board


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Financial Support Request Letter

1. Name of the Staff Member : A. Anusha
2. Designation : Assistant Professor
3. Department : MBA
4. Conference/Publication/Membership Fee/Workshop/FDP Certificate Details: Unlocking Innovation: Exploring Intellectual Property Rights
5. Date and Duration of the Program : 16-21 May 2024, 6 days.
6. Associating Professional body/Agency: _____
7. Financial support particulars(Rs) : _____
 - i. Registration Charges : 600/-
 - ii. Travelling Allowances : 600/-
 - iii. Membership Fee : -
 - iv. Others(if any) : -

26/5/24
Date:

A. Anusha
Signature of the Staff Member

1. Recommendations of the HOD: [Signature]
2. Recommendations of the IQAC: Recommended [Signature]
3. Recommendations of the Principal: _____

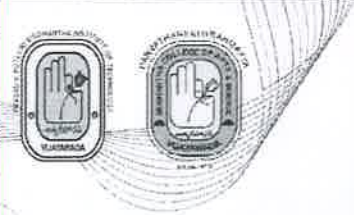
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Accountant: [Signature]

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Certificate of Participation

This is to certify that

ALLU ANUSHA

Assistant Professor , VKR VNB &AGK College of Engineering
has actively participated in the 5-Day Online Faculty Development Program
on "Unlocking Innovation: Exploring Intellectual Property Rights"
16-21 May, 2024.

Dr. Meka Ramesh
Principal - PBSCAS

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