



Faculty of Engineering

This is to Certify that

P. Mallikarjuna

Son/Daughter of P. Balaramaiah

*has been certified by duly appointed Examiners
to be qualified to receive the Degree of
Doctor of Philosophy
and has been admitted to that Degree*

DEPARTMENT OF STUDY

Civil Engineering

SUBJECT OF THE THESIS

*"Characteristics of Flow
Through Bridge Constrictions
and Discharge Measurement
Using Bridge Constrictions"*

YEAR *1996*

Given under the Seal of the University

[Signature]
HEAD
Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)



Faculty of Engineering X

This is to Certify that

G. N. Pradip Kumar X

Son/Daughter of G. V. Narayana Murthy X

has been certified by duly appointed Examiners

to be qualified to receive the Degree of

Doctor of Philosophy X

and has been admitted to that Degree

DEPARTMENT OF STUDY

Civil Engineering X

SUBJECT OF THE THESIS

*"Radial Non Darcy Flow
Through Coarse Granular
Media."* X

YEAR

1994 X

Given under the Seal of the University

[Signature]
HEAD
Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

Tirupati

Dated 26 OCT 1995

[Signature]
Vice-Chancellor

Scrutinised by:

H. K. K.

Degree written by:

Manila

First comparison read by:

W. A. W.

Compared by:

W. A. W.

Second comparison read by:

P. S. S.

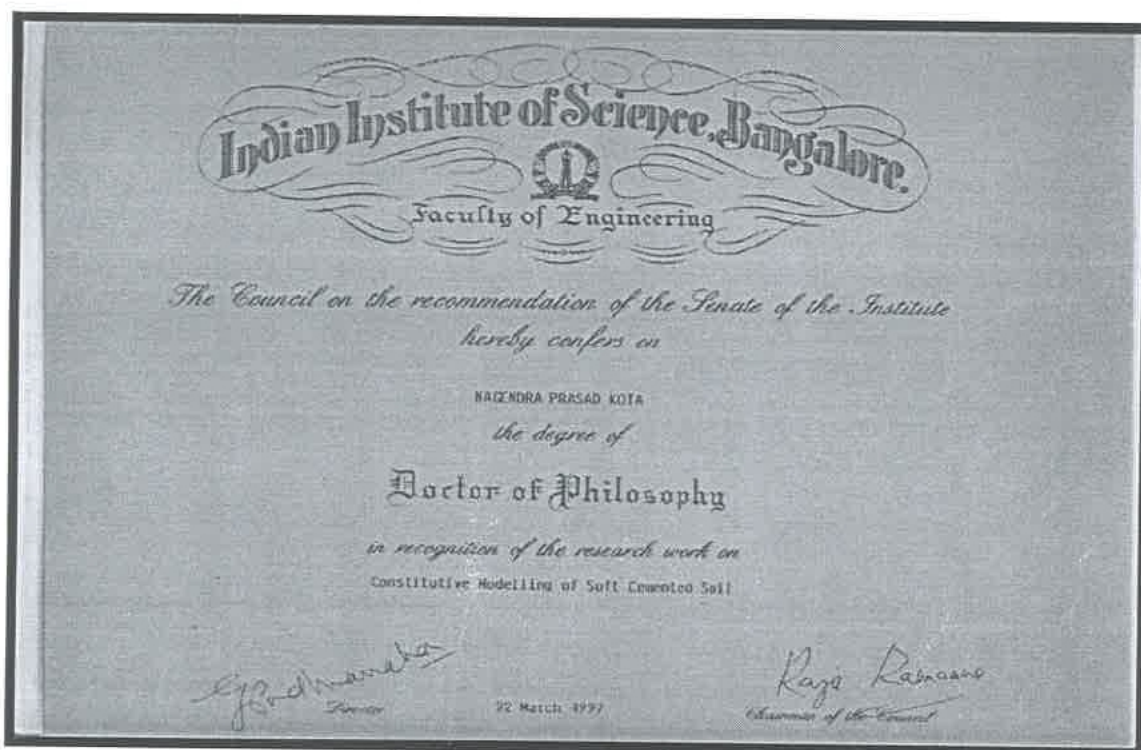
Compared by:

K. J. Babu

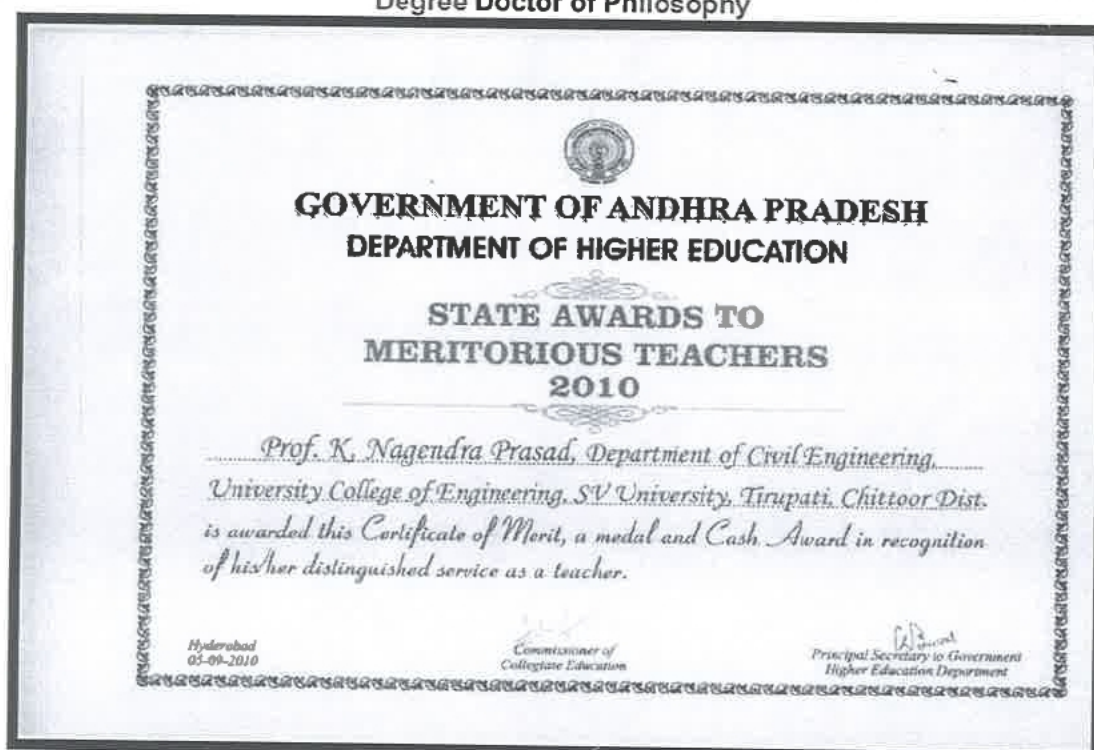
K. Krishnan

Supdt.

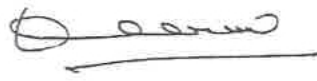
A.A.O. / A.C.E. / A.R. / Dy.R. / Addl. C.E.



Degree Doctor of Philosophy



State Award for Best Teacher



HEAD
Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)



Indian Institute of Technology, Madras

hereby confers the degree of

Doctor of Philosophy

of the Institute

on

KATTAMURI MALLIKARJUNA RAO

*for successfully completing the prescribed programme of study and
presenting the thesis entitled*

**BEHAVIOUR OF VERTICAL PILES SUBJECTED TO STATIC AND
CYCLIC LATERAL LOADING**

*Given this day the Thirtieth of July, 1993
under the seal of the Institute.*



V. Sam. Registrar
Director

N. S. Srinivasan
Chairman Board of Governors

[Signature]
HEAD
Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

[Signature]
15/12/21

Sl. No. P0301



Faculty of Engineering

This is to Certify that

J V Ramana Reddy

Son of J Narasimha Reddy

has been certified by duly appointed Examiners

to be qualified to receive the Degree of

Doctor of Philosophy

and has been admitted to that Degree

DEPARTMENT OF STUDY : CIVIL ENGINEERING

SUBJECT OF THE THESIS : "Influence of Chemical and Biological Substances in Water on Hardening, Compressive Strength and Durability of Cement"

YEAR : 2002

Given under the Seal of the University

HEAD
Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

Tirupati
Dated **14 MAR 2003**

Vice - Chancellor



Scrutinised by : *[Signature]*

First comparison

read by : *[Signature]*

Compared by : *[Signature]*

Second comparison

read by : *[Signature]*

Compared by : *[Signature]*

[Signature]
Supdt.

[Signature]
~~AAO / ACE / AR / DyR / Addl. C.E.~~

14-12-2015

P0443



Faculty of Engineering

This is to Certify that

Muduru Primurabi

Son of Venkata Krishnaiah

has been certified by duly appointed Examiners

to be qualified to receive the Degree of

Doctor of Philosophy

and has been admitted to that Degree

DEPARTMENT OF STUDY : CIVIL ENGINEERING

SUBJECT OF THE THESIS : "Removal of Colour from
Textile Dye-wastes by
Chemical Coagulation"

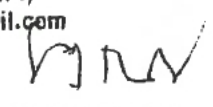
YEAR : 2003


HEAD
Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

Given under the Seal of the University


Dr. M. PRIMURALI
PROFESSOR OF CIVIL ENGINEERING
SRI VENKATESWARA UNIVERSITY
TIRUPATI-517 502, (A.P.)
E-mail: mprimurali@gmail.com

Tirupati
Dated 21 MAR 2005


Vice - Chancellor

PT 000187



శ్రీ వేంకటేశ్వర విశ్వవిద్యాలయం

ఫాకల్టీ ఆఫ్ ఇంజనీరింగ్

Faculty of Engineering

సత్యనారాయణ మూర్తి డి వి

డి ఆర్ నాగులు గారి కుమారుడు కు

ఈ విశ్వవిద్యాలయం నుండి క్రింద సూచించిన విధంగా అతను పట్టాకు

నిర్దేశించిన పరీక్షలో ఉత్తీర్ణత వొందినందుకు

డాక్టర్ ఆఫ్ ఫిలాసఫి

పట్టా ప్రదానానికి అర్హత వొందినట్లు ధృవీకరించడమైంది.

This is to certify that

Satyanarayana Moorthy D V

Son of D R Nagulu

has been admitted to the Degree of

Doctor of Philosophy

*having been certified by duly appointed Examiners
to be qualified to receive the same at the Examinations
prescribed therefor as hereunder:*

DEPARTMENT OF STUDY : CIVIL ENGINEERING

SUBJECT OF THE THESIS : "Environmental Impact Analysis and
Assessment of Sand Beneficiation Plants - A
Case Study"

YEAR : 2007

విశ్వవిద్యాలయ అధికార ముద్రతో జారీ చేయడమైంది.

Given under the Seal of the University

Tirupati

Date: 7th September 2007



Vice-Chancellor

HEAD

Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

Sl. No.: 000612

PT



శ్రీ వేంకటేశ్వర విశ్వవిద్యాలయం

ఫాకల్టీ ఆఫ్ ఇంజనీరింగ్
Faculty of Engineering

సుధ రాణి సి హెచ్

సి హెచ్ రాధ కృష్ణ మూర్తి గారి కుమార్తె కు
ఈ విశ్వవిద్యాలయం నుండి క్రింద సూచించిన విధంగా ఆమె పట్టాకు
నేర్దేశించిన పరీక్షలో ఉత్తీర్ణత వొందినందుకు

డాక్టర్ ఆఫ్ ఫిలాసఫి

పట్టా ప్రదానానికి అర్హత వొందినట్లు ధృవీకరించడమైంది.

This is to certify that

Sudha Rani Ch

*Daughter of Ch Radha Krishna Murthy
has been admitted to the Degree of*

Doctor of Philosophy

*having been certified by duly appointed Examiners
to be qualified to receive the same at the Examinations
prescribed therefor as hereunder:*

DEPARTMENT OF STUDY : CIVIL ENGINEERING

SUBJECT OF THE THESIS : "A Knowledge Based system for Soil
Identification and Assessment of Volume
Change Characteristics of Clayey Soils"

YEAR : 2007

[Signature]
HEAD

Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

విశ్వవిద్యాలయ అధికార ముద్ర తో జారీ చేయడమైంది.
Given under the Seal of the University



తిరుపతి / Tirupati

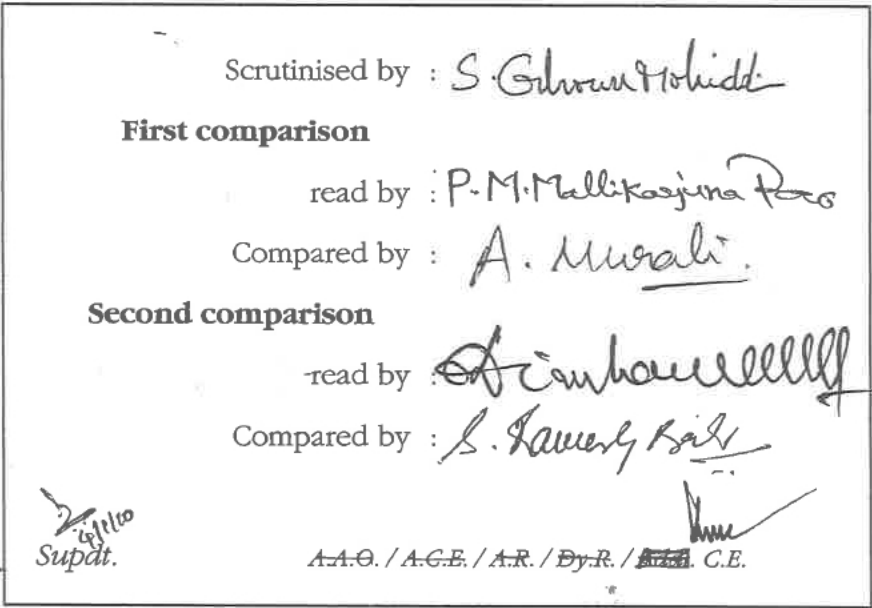
తేదీ / Date : 6 JAN 2010



[Signature]

ఉపకులపతి
Vice - Chancellor

[Signature]
for MNAC
purpose





Indian Institute of Technology Madras

hereby confers the degree of
Doctor of Philosophy
of the Institute

or

DUSI VENKATA PRASADA RAO

*for successfully completing the prescribed programme of study and
presenting the thesis entitled*

**ADVANCED ANALYSIS OF SEMI-RIGID RECTANGULAR
HOLLOW SECTION BEAM-TO-COLUMN
CONNECTIONS WITH WEB OPENINGS**

*Given this day the Twentieth of July, 2006
under the seal of the Institute*



Registrar

Director

A. S. M. D. S. S. S.
Chairman, Board of Governors

D. S. S. S. S.
HEAD
Department of Civil Engineering
S.V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

Sl. No. PT

004031



శ్రీ వేంకటేశ్వర విశ్వవిద్యాలయం

ఫాకల్టీ ఆఫ్ ఇంజనీరింగ్
Faculty of Engineering

బీ మధుసూదన రెడ్డి

బీ వెంకట రామి రెడ్డి గారి కుమారుడు కు
ఈ విశ్వవిద్యాలయం నుండి క్రింద సూచించిన విధంగా అతను పట్టాకు
నిర్దేశించిన పరీక్షలో ఉత్తీర్ణత వొందినందుకు

డాక్టర్ ఆఫ్ ఫిలాసఫి

పట్టా ప్రదానానికి అర్హత వొందినట్లు ధృవీకరించడమైంది.

This is to certify that

B Madhusudana Reddy

*Son of B Venkata Rami Reddy
has been admitted to the Degree of*

Doctor of Philosophy

*having been certified by duly appointed Examiners
to be qualified to receive the same at the Examinations
prescribed therefor as hereunder:*

DEPARTMENT OF STUDY : CIVIL ENGINEERING

SUBJECT OF THE THESIS : "Effect of Heavy Metals present in Water
used for Cement Mix with partial replacement
of Cement by Micro Silica"

YEAR : 2014

విశ్వవిద్యాలయ అధికార ముద్రతో సహా చేయబడినది.

Given under the Seal of the University

తిరుపతి / Tirupati

తేదీ / Date :

11 3 MAR. 2014



ఉపకులపతి
Vice - Chancellor

[Signature]
Department of Civil Engineering
T.V.U. College of Engineering
TIRUPATI-517 502 (A.P.)

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯ Bangalore University

ಬೆಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor
ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರಾದ ನಾವು
the members of the Syndicate & Academic Council
Certify that

Depuru Sreehari Rao ಅವರು

ಯಥಾಯೋಗ್ಯವಾಗಿ ಈಗಾಗಲೇ ಪ್ರವೇಶ ಪಡೆದಿರುವರೆಂದು ದೃಢೀಕರಿಸುತ್ತಾ
has been duly admitted to the Degree of

ಮಾಸ್ಟರ್ ಆಫ್ ಇಂಜಿನಿಯರಿಂಗ್
Master of Engineering

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಪೂರೈಸಿರುವ ಕಾರಣ
in recognition of the fulfilment of requirements
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ. ಈ ಪದವಿಯ ವಿವರಗಳು ಹೀಗಿವೆ
for the said degree as indicated below

ಪರೀಕ್ಷೆಯ ವರ್ಷ May 2002

Year of Examination: Structural Engineering.

ಅಧ್ಯಯನದ ವಿಷಯ Structural Engineering.

Subject's: First

ಪಡೆದ ವರ್ಗ First

Class: First

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುದ್ರೆಯೊಡನೆ ನೀಡಲಾಗಿದೆ
Given under the seal of the University

ಬೆಂಗಳೂರು

Bangalore:

ದಿನಾಂಕ

Date: 10-07-2002

[Signature]

HEAD
Department of Civil Engineering
S.V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

[Signature]
ಕುಲಪತಿ
Vice-Chancellor

Sl. No. 005738



శ్రీ వేంకటేశ్వర విశ్వవిద్యాలయం

ఫాకల్టీ ఆఫ్ ఇంజనీరింగ్
Faculty of Engineering

యన్ ముని లక్ష్మి

యన్ హరిక్రిష్ణ గారి కుమార్తె కు

ఈ విశ్వవిద్యాలయం నుండి క్రింద సూచించిన విధంగా ఆమె పట్టాకు
నిర్దేశించిన పరీక్షలో ఉత్తీర్ణత వొందినందుకు

డాక్టర్ ఆఫ్ ఫిలాసఫి

పట్టా ప్రదానానికి అర్హత వొందినట్లు ధృవీకరించడమైంది.

This is to certify that

N. Muni Lakshmi

Daughter of N. Harikrishna

has been admitted to the Degree of

Doctor of Philosophy

*having been certified by duly appointed Examiners
to be qualified to receive the same at the Examinations
prescribed therefor as hereunder:*

DEPARTMENT OF STUDY : **CIVIL ENGINEERING**

SUBJECT OF THE THESIS : "A Study on Colour Removal From Textile Dye
Stuffs By Adsorption Onto Preformed Flocs"

YEAR : **2016**

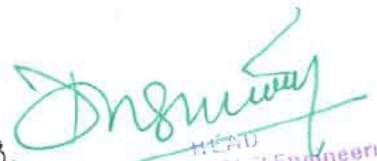
విశ్వవిద్యాలయ అధికార ముద్రతో జారీ చేయడమైంది.

Given under the  *University*

తిరుపతి / Tirupati

తేది / Date : **29 JUL 2016**




HEAD
Department of Civil Engineering
S.V.U. College of Engineering
TIRUPATI-517 502 (A.P.)

ఉపకులపతి
Vice - Chancellor



Scrutinised by : S. Nagarathu

First comparison

read by : mmidug

Compared by : T. Leela (Krishna Reddy)

Second comparison

read by : M. Tunless W

Compared by : by

Pm
Supdt.

P.C.
A.A.O. / A.C.E. / A.R. / Dy.R. / ~~Adl.~~ C.E.

Sl. No.: PT 007138



శ్రీ వేంకటేశ్వర విశ్వవిద్యాలయం

ఫాకల్టీ ఆఫ్ ఇంజనీరింగ్
Faculty of Engineering

హేమలతా టి

టి నారాయణ గారి కుమార్తె కు
ఈ విశ్వవిద్యాలయం నుండి క్రింద సూచించిన విధంగా ఆమె పట్టాకు
నిర్దేశించిన పరీక్షలో ఉత్తీర్ణత వొందినందుకు

డాక్టర్ ఆఫ్ ఫిలాసఫి

పట్టా ప్రదానానికి అర్హత వొందినట్లు ధృవీకరించడమైంది.

This is to certify that

Hemalatha T

Daughter of T Narayana

has been admitted to the Degree of

Doctor of Philosophy

*having been certified by duly appointed Examiners
to be qualified to receive the same at the Examinations
prescribed therefor as hereunder:*

DEPARTMENT OF STUDY : Civil Engineering

SUBJECT OF THE THESIS : "Comparative Study on the Performance of
Analytical Hierarchy Process and Probabilistic
Models for Mapping of Groundwater Potential
Zones and Quality Indices"

YEAR : 2020

విశ్వవిద్యాలయ అధికార ముద్రతో జారీ చేయడమైంది.

Given under the Seal of the University

[Signature]

HEAD
Department of Civil Engineering
S.V.U. College of Engineering
TIRUPATI-517 502 (A.P.)

తిరుపతి / Tirupati

తేది / Date : 14 JUL 2021



[Signature]

ఉపకులసతి
Vice - Chancellor



Scrutinised by : T. Mohanlal

First comparison

read by : G. Adarsh

Compared by : G. Anantha Krishna

Second comparison

read by : G. N. Prasad

Compared by : J. D. S.

M. S. V.
Supdt.

A.A.O. / A.C.E. / A.R. / Dy.R. / ~~Advt.~~ C.E.

CL No: PT 007139



శ్రీ వేంకటేశ్వర విశ్వవిద్యాలయం

ఫాకల్టీ ఆఫ్ ఇంజనీరింగ్
Faculty of Engineering

అరుణ జ్యోతి యన్

అంకి రెడ్డి యన్ గారి కుమార్తె కు

ఈ విశ్వవిద్యాలయం నుండి క్రింద సూచించిన విధంగా ఆమె పట్టుకు
నిర్దేశించిన పరీక్షలో ఉత్తీర్ణత వొందినందుకు

డాక్టర్ ఆఫ్ ఫిలాసఫి

పట్టు ప్రధానానికి అర్హత వొందినట్లు ధృవీకరించడమైంది.

This is to certify that

Aruna Jyothy S

Daughter of Anki Reddy S

has been admitted to the Degree of

Doctor of Philosophy

*having been certified by duly appointed Examiners
to be qualified to receive the same at the Examinations
prescribed therefor as hereunder:*

DEPARTMENT OF STUDY : Civil Engineering

SUBJECT OF THE THESIS : "Development of Rainfall Intensity-Duration
Relationships and Climate Change Impacts on
Seasonal Rainfall Trends"

YEAR : 2020

[Signature]
HEAD
Department of Civil Engineering
S.V.U. College of Engineering
TIRUPATI-517 502 (A.P.)

విశ్వవిద్యాలయ అధికార ముద్రతో జారీ చేయడమైంది.

Given under the Seal of the University

తిరుపతి / Tirupati

తేది / Date : 14 JUL 2021



[Signature]
ఉపకులపతి
Vice - Chancellor



Scrutinised by : T. Mahabala

First comparison

read by : G. Adarsh

Compared by : Gotthardha Krishna

Second comparison

read by : G. Neelajay

Compared by : K. D. S.

msd
Supdt.

A.A.O. / A.C.E. / A.R. / Dy.R. / Adtl. C.E.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

CC006096



H.T.No: 158X1D2117

Aadhaar No:355916864030

College Name:MJRCET-PULICHERLA-CHITTOOR-Code:8X

J S Vishnu Kumar

No. J M Suresh

&

J S Sudhamani

*having fulfilled the academic requirements and passed the examination held during November, 2017 in *** First Class With Distinction ****

has this day been admitted by the Executive Council to the Degree of

Master of Technology

(CONSTRUCTION PLANNING AND MANAGEMENT)

Mode of Study is Regular

Given under the Seal of the University

Thursday, 22 February, 2018.



[Signature]
HEAD

Department of Civil Engineering
S.V.U. College of Engineering
TIRUPATI-517 502 (A.P.)

[Signature]

DIRECTOR OF EVALUATION

[Signature]

REGISTRAR

[Signature]
VICE CHANCELLOR

CC093153

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR



ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

H.T.No:12001D1206

Madduri Ruben Pradeep

Sh. Madduri Swamidas Luther

*having fulfilled the academic requirements and passed the examination held
during February, 2015 in *** First Class With Distinction ****

*has this day been admitted by the Monitoring & Development Committee to
the Degree of*

Master of Technology
(COMPUTER AIDED STRUCTURAL ENGINEERING)

Thursday, 19 March, 2015.

Given under the Seal of the University

[Signature]

HEAD
Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

[Signature]
Director of Evaluation

[Signature]
Registrar

[Signature]
Vice Chancellor

CC 127509

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR



ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

H.T.No: 139L1D2016

M Guru Prasad

No. M Siddaiah

&

M Nagarathnamma

*having fulfilled the academic requirements and passed the examination held during June, 2016 in *** First Class With Distinction ****

has this day been admitted by the Executive Council to the Degree of

Master of Technology
(STRUCTURAL ENGINEERING)

Wednesday, 28 December, 2016.

Given under the Seal of the University

HEAD

Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

Director of Evaluation

Registrar

Vice Chancellor



SRI VENKATESWARA UNIVERSITY: TIRUPATI

NOTIFICATION

It is hereby notified that on the recommendations of the Board of Examiners duly appointed to adjudicate the thesis entitled "ASSESSMENT AND SPATIAL DISTRIBUTION OF GROUNDWATER QUANTITY AND QUALITY USING GEO-INFORMATICS, GEOPHYSICAL METHODS AND ANALYTICAL HIERARCHICAL PROCESS" submitted by Mr.G. Shanmukha Srinivas and the University has decided to accept the report of the Board of Examiners and declared that Mr. G. Shanmukha Srinivas is eligible for the award of the degree of Doctor of Philosophy in CIVIL ENGINEERING, SV University, Tirupati.

(BY ORDER)

NEELAM SANJIVA REDDI BHAVAN
TIRUPATI – 517 502,

M. DAMLA NAICK

CONTROLLER OF EXAMINATIONS

DATE : 25.02.2021

ENDORSEMENT No.: B7(2)/Ph.D./CE/05/2020, Dated: 13.03.2021

Forwarded to the Commissioner of Printing, Stationery and Stores Purchases (Printing Wing Dept.) Government Central Press, Chenchalguda, Hyderabad – 500 659, for favor of Publication in the next issue of the Andhra Pradesh Gazette and send the bill along with TEN spare copies of the Notification.

Copy to the Candidate:

Mr. G. Shanmukha Srinivas
Research Scholar,
Dept., of Civil Engineering,
S.V.U. College of Engineering, Tirupati

CONTROLLER OF EXAMINATIONS

Copy to the Research Supervisor :

Prof. G.N. Pradeep Kumar
Dept., of Civil Engineering,
S.V.U. College of Engineering, Tirupati

HEAD
Department of Civil Engineering
S.V.U. College of Engineering
TIRUPATI-517 502 (A.P.)

Copy to the Head of the Department of Civil Engineering, S.V.U. College of Engineering, Tirupati

Copy to the PS to Vice-Chancellor, S.V. University, Tirupati.

Copy to the Editor, University News, Association of Indian Universities, House Avenue,
New Delhi-1 with a request to publish the contents of the Notification as News Item.

Copy to the Editors of All the Dailies through their local correspondents with a request to
Publish the contents of the Notification as a News Item

Copy to the Co-Ordinator, Internal Quality Assurance Cell, S.V. University, Tirupati.

Copy to the Director, SVU Computer Centre, Tirupati, with a request to place the same in the
University Web site.

CC 144263

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR



ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

H.T.No: 148X1D2117

Rushwanth Chowdary Nara

No. Subramanyam Naidu N.

&

N Revathi

*having fulfilled the academic requirements and passed the examination held during June, 2017 in *** First Class With Distinction ****

has this day been admitted by the Executive Council to the Degree of

Master of Technology
(CONSTRUCTION PLANNING AND MANAGEMENT)

Tuesday, 18 July, 2017.

Given under the Seal of the University



[Signature]

HEAD
Department of Civil Engineering
S.V.U. College of Engineering
TIRUPATI-517 502 (A.P.)

[Signature]
Director of Evaluation

[Signature]
Registrar

[Signature]
Vice Chancellor

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

CC 048570



H.T.No:144N1D9307

Aadhaar No: 447197025367

College Name: VEC-KAVALI-Code:4N

Shaik Mohisinataryyiba

D/o. Sr Basheer

&

S Thahera Begum

*having fulfilled the academic requirements and passed the examination held
during June, 2018 in *** First Class ****

has this day been admitted by the Executive Council to the Degree of

Master of Technology
(HIGHWAY ENGINEERING)

Mode of Study is Regular

Medium of Instruction: English

Given under the Seal of the University

Tuesday, 23 July, 2019.



[Signature]
HEAD
Department of Engineering
S.V.V. Engineering College
TIRUPATI

[Signature]
DIRECTOR OF EVALUATION

[Signature]
REGISTRAR

[Signature]
VICE CHANCELLOR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR

ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

CC 048289

H.T.No: 149L1D2022

Aadhaar No: 890998458019

College Name: SEAGI-CHINTHAGUNTA-TIRUPATI-Code:9L



Thota Jeevan Kumar

No. T Sreeramulu

&

T Radha

*having fulfilled the academic requirements and passed the examination held during November, 2017 in *** First Class With Distinction ****

has this day been admitted by the Executive Council to the Degree of

Master of Technology
(STRUCTURAL ENGINEERING)

Mode of Study is Regular

Medium of Instruction: English

Monday, 15 July, 2019.

Given under the Seal of the University



[Signature]

HEAD

Department of Civil Engineering
S. V. U. College of Engineering
TIRUPATI-517 502 (A.P.)

[Signature]

DIRECTOR OF EVALUATION

[Signature]

REGISTRAR

[Signature]

VICE CHANCELLOR

Glacier Journal Research foundation
GLOBAL MANAGEMENT COUNCIL

Registration public trust No.E/17723/Ahmedabad

Adarsh Vidya Saraswati Rashtriya Puraskar

(National Award of Excellence 2023)

This is to certify that

Dr. D. Bharathi,

Professor & Head,

Department of Mathematics,

Sri Venkateswara University, Tirupati-517 502

has been conferred the Prestigious "Adarsh Vidya Saraswati Rashtriya Puraskar" by our council
in appreciation and recognition of outstanding performance in research and publication, on

5th.October,2023



rapatel
PRESIDENT
GLOBAL MANAGEMENT COUNCIL
www.glacierjournal.org



GLACIER JOURNAL RESEARCH FOUNDATION

GLOBAL MANAGEMENT COUNCIL

AHMEDABAD

Certificate of Recognition

The governing body of Glacier Journal Research Foundation, Ahmedabad, after duly scrutinizing the distinguished services of Respected

Dr. D. Bharathi,

Professor & Head, Department of Mathematics, Sri Venkateswara University, Tirupati-517502

confirms a letter recognizing the noble work done in the interest of students, teachers and the entire education fraternity. The governing body of Global Management Council, an apex body in the field of academics, gives

a distinction of being the fellow membership of **Glacier Journal Research Foundation**



Date : 5th. October, 2023



Rapatel

Editor - In - Chief

Glacier Journal Research Foundation
Global Management Council, Ahmedabad



DR.B.R.AMBEDKAR STUDY CENTRE

S.V. UNIVERSITY, TIRUPATI - 517502

193rd BIRTHDAY CELEBRATIONS

MAHA MATHA SAVITHRIBAI PHULE BEST TEACHER AWARD-2024

DATE: 03-01-2024 @ 10:30 AM

VENUE: SENATE HALL, S.V. UNIVERSITY, TIRUPATI

Shri/Smt.....*prof. D. Bharathi, Dept. of Mathematics, S.V. University, Tpt.*.....

is Conferred by Dr.B.R. Ambedkar Study Centre in Recognition of the Commendable Teaching and Socio-Cultural Services Rendered by her for the Upliftment of Downtrodden-Oppressed & Depressed students of her educational institution. The Study Centre by honouring her also hope that she will work throughout her life for Eradication of Prevailing Inequality and Caste System for the Upliftment of Dalit Bhahujans of the Society for achievement of the First Women Teacher of India Maha Matha Savithribai Phule's Mission.

[Signature]
Smt. D. BHARATHI

VICE-CHANCELLOR
SRI PADMAVATHI MAHILA VISVAVIDYALAYAM,
TIRUPATI

[Signature]
Dr. B. MURALI KRISHNA, M.A., Ph.D.

CONVENER
Dr. B.R. AMBEDKAR STUDY CENTRE
SRI VENKATESWARA UNIVERSITY,
TIRUPATI

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CERTIFICATE OF EXCELLENCE

Presented to

DR.D.BHARATHI

For his/her outstanding and extra - ordinary
achievements in his/her chosen fields
of activity and Services rendered to
promote greater friendship and
India - International Co-operation



Lajja Rajpal

LAJJA RAJPAL
General Secretary

GLOBAL BROTHERHOOD FORUM



Venus International Foundation

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ISO 9001:2008 Certified

Centre for Women Development

The Board of Management of the Venus International Foundation
based on the VIWA 2024 Expert Committee Report and Apex Committee
Recommendations hereby makes known that

Dr. D. Bharathi

Sri Venkateswara University, Tirupati, India

has been conferred upon the award of



SC – 1377

Distinguished Woman Researcher in Mathematics
for the contribution and achievement in the discipline of
Science

Given under the seal of the Foundation



R. Jagdish Kumar

Chairman

LEADING EDUCATIONIST OF INDIA AWARD

CERTIFICATE OF EXCELLENCE **2024**



PROUDLY PRESENTED TO

DR.D.BHARATHI

FOR INDIVIDUAL EXCELLENCE IN RECOGNITION OF
FLATTERING MERIT EXCELLENT PERFORMANCE & OUTSTANDING
CONTRIBUTION FOR THE PROGRESS OF THE NATION & WORLDWIDE
WOMAN OF MANY TALENTS AND HIGHLY EDUCATED
TO BE THE BEST FROM THE REST

A handwritten signature in black ink.

SIGNATURE



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BHARAT
EXCELLENCE
AWARD

BHARAT EXCELLENCE AWARD

CERTIFICATE

THIS CERTIFICATE IS PROUDLY PRESENTED
FOR HONORABLE ACHIEVEMENT IN THE FIELD OF OVERALL EXCELLENCE

Dr. D. Bharathi

FOR HIS & HER OUTSTANDING ACHIEVEMENTS
& DISTINGUISHED SERVICES TO THE NATION IN THE
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25 APRIL 2024

DATE



[Signature]

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Dr. (Mrs.) Esambattu Hemalatha

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July 26, 2023

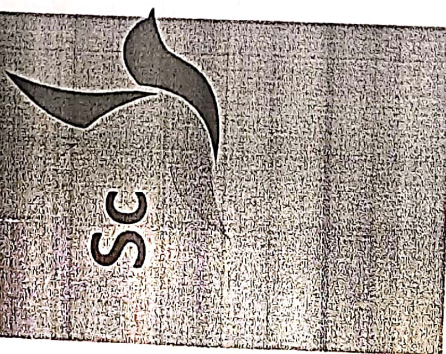
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awarded to

Dr. Anupalli Sudhakaraiiah

M.Sc, Ph.D

Associate Professor

Department of Mathematics

S.V. University, Tirupati Andhra Pradesh India

For the work with the following details

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Paper Title: The order of X - Power set

Journal Name: JETIR

Volume: 09

Issue No: 08

Month of Publication: August

Year: 2022

Page No: d616 - d621

ISSN: 2349 - 5162



Nanjesh Bennur

Nanjesh Bennur
Chairman, InSc

Awards

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PROFESSOR, DEPARTMENT OF MATHEMATICS,
SRI VENKATESWARA UNIVERSITY, TIRUPATI

in

A day when women are recognized for their achievements without regard to divisions, whether national, ethnic, linguistic, cultural, economic or political

International Women's Day 2024

Naari

Adhar

Mr Nagababu Abbaraju
President, SSRD, Hyd

S.M.J

Dr D. Jayarajan
Joint Secretary, SSRD, Hyd

AK

Dr. Aruna Kumari Nakkella
Founder & Chairperson
Siddhi Foundation, Vizag, A.P



DR.B.R.AMBEDKAR STUDY CENTRE

S.V. UNIVERSITY, TIRUPATI - 517502

193rd BIRTHDAY CELEBRATIONS

MANIAMATHA SAVITHIRIBAI PHULE
BEST TEACHER AWARD-2024



DATE: 03-01-2024 @ 10:30 AM

VENUE: SENATE HALL, S.V. UNIVERSITY, TIRUPATI

Shri/Smt *Dr. V. Sugunamma, Professor, Department of*

Mathematics, SVU, Tirupati

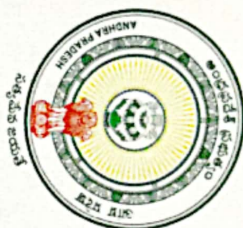
.....
is Conferred by Dr.B.R. Ambedkar Study Centre in Recognition of the Commendable Teaching and Socio-Cultural Services Rendered by her for the Upliftment of Downtrodden-Oppressed & Depressed students of her educational institution. The Study Centre by honouring her also hope that she will work throughout her life for Eradication of Prevailing Inequality and Caste System for the Upliftment of Dalit Brahamjans of the Society for achievement of the First Women Teacher of India
/aaha Matha Savithribai Phule's Mission.

Dr. D. Bharathi
Smt. D. BHARATHI

VICE-CHANCELLOR
SRI PADMAVATHI MANILA VISVAVIDYALAYAM,
TIRUPATI

Dr. B. Murali Krishna
Dr. B. MURALI KRISHNA, M.A., Ph.D.

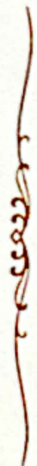
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SRI VENKATESWARA UNIVERSITY,
TIRUPATI



GOVERNMENT OF ANDHRA PRADESH
DEPARTMENT OF HIGHER EDUCATION

STATE TEACHER AWARDS-2023

September 5th 2023, Visakhapatnam



Dr. K. Manjula

Department of Home Sciences

Sri Venkateswara University, Tirupati

is awarded this Certificate of Merit and Medal in recognition of his/her meritorious service as a Teacher at University Level on 5th September, 2023 at Visakhapatnam.

Prof. K. Hemachandra Reddy

Chairman

A.P. State Council of Higher Education

Sri J. Syamala Rao, I.A.S

Principal Secretary to Govt. of A.P

Department of Higher Education

Sri Botcha Satyanarayana

Hon'ble Minister for Education,

Govt. of Andhra Pradesh



DR.B.R.AMBEDKAR STUDY CENTRE

S.V. UNIVERSITY, TIRUPATI - 517502

193rd BIRTHDAY CELEBRATIONS

MATHA MATTHA SAVITHIRIBAI PHULE
BEST TEACHER AWARD-2024

DATE: 03-01-2024 @ 10:30 AM

VENUE: SENATE HALL, S.V. UNIVERSITY, TIRUPATI

Shri/Smt.....

Dr. Manjula Kola, Head

Department of Home Science, S.V. University

is Conferred by Dr.B.R. Ambedkar Study Centre in Recognition of the Commendable Teaching and Socio-Cultural Services Rendered by her for the Upliftment of Downtrodden-Oppressed & Depressed students of her educational institution. The Study Centre by honouring her also hope that she will work throughout her life for Eradication of Prevailing Inequality and Caste System for the Upliftment of Dalit Bhahujans of the Society for achievement of the First Women Teachers of India Maha Matha Savithribai Phule's Mission.

Smt. D. BHARATHI

VICE-CHANCELLOR

SRI PADMAVATHI MAHILA VISVAVIDYALAYAM,
TIRUPATI

Dr. B. MURALI KRISHNA, M.A., Ph.D.

CONVENER

Dr. B.R. AMBEDKAR STUDY CENTRE
SRI VENKATESWARA UNIVERSITY,
TIRUPATI



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Centre for Learning Network

The Board of Management of the Venus International Foundation
based on the VIJA 2023 Expert Committee Report and Apex Committee
Recommendations hereby makes known that

Dr. Manjula Kola

Sri Venkateswara University, Tirupati, India

has been conferred upon the award of



SC - 766

Distinguished Faculty in Food Science and Nutrition
for the teaching excellence and innovation in the discipline of
Science

Given under the seal of the Foundation



R. Jagdish Kumar

Chairman

Dated - 15th July 2023 | Chennai - 600088, Tamil Nadu, India.





UGC-HUMAN RESOURCE DEVELOPMENT CENTRE
SRI VENKATESWARA UNIVERSITY
TIRUPATI - 517 502



R.O.C. No. HRDC/Certificate/2023-24

Dt.26-08-2023

Prof. R.P. Vijayalakshmi
In-charge Director

CERTIFICATE

This is to certify that Dr.K.Manjula has served as Coordinator for Refresher Course in Health Management from 10.08.2023 to 23.08.2023 to the participants of HRDC and won the appreciation of the participants and organisers.

(Director I/c, HRDC)
I/C DIRECTOR
UGC - HRDC, S.V. UNIVERSITY
TIRUPATI - 517 502, (A.P.)

Address: 2nd Floor, Andhra Bank Zonal Office Building, SVU Campus, Tirupati
Phone Nos. : Director's Chamber - 0877 - 2248620, 2289328, (Office) - 2289513
E-mail I.D. : hrdcsvutpt@gmail.com



**MULTI-DISCIPLINARY RESEARCH UNIT
S. V. MEDICAL COLLEGE**

TIRUPATI - 517507, INDIA.

RESEARCH ADVISORY COMMITTEE.

Tel : 9866357503, 9491987479

E-mail : mdrutirupati@gmail.com

Tirupati
21/Aug/2023.

To

Dr. V. Rushendra
Associate Professor,
Dept of Medicine,
SVMC, Tirupati.

Co-PIs

Dr. T. Muneeswara Reddy
Professor & HOD,
Dept of General Medicine,
SVMC, Tirupati.

Dr. C. V. Subbarayudu, MD,
Assistant Professor,
Dept of Community Medicine,
SVMC, Tirupati.

Dr. Manjula Kola
Associate Professor,
Dept of Home Science,
SVU, Tirupati.

Dr. Madhusudhana Pulaganti
Scientist - B,
MRU, SVMC, Tirupati.

Dr. Bommakanti Vinay,
Postgraduate,
Dept of General Medicine,
SVMC, Tirupati.

Dr. A. S. Kireeti
Professor, Department of Pediatrics,
S. V. Medical College,
Tirupati.

Dear Dr. S. Sunita,

Sub: "A – Prospective pilot study on the efficacy of a Multigrain and Multimillet mix (MGMM) diet in the reduction of HbA1C levels in Type 2 DM" – for IEC review & approval - regarding.

Ref: 1. Your Application for review & approval, dated 27.07.2022
2. Approved in the 8th RAC dated on 27.07.2022.

The MRU, Research Advisory Committee (RAC) of S. V. Medical College, Tirupati, during its meeting held on 27.07.2022 in the Meeting hall of the College, heard your presentation of the above protocol and reviewed the documents. The RAC hereby approve the above cited Study, namely " A – Prospective pilot study on the efficacy of a Multigrain and Multimillet mix (MGMM) diet in the reduction of HbA1C levels in Type 2 DM " to be conducted in the Dept. of Medicine and Multi - Disciplinary Research Unit (MRU), S. V. Medical College, Tirupati.

The Proposal No is 8Pro No: 1/RAC/MRU/SVMC DT:27.07.2022

Yours Sincerely,


NODAL OFFICER

Multi-Disciplinary Research Unit (MRU)
Sri Venkateswara Medical College
TIRUPATI, Chittoor District (A.P.)



MULTI-DISCIPLINARY RESEARCH UNIT
S. V. MEDICAL COLLEGE

TIRUPATI - 517507, INDIA.

RESEARCH ADVISORY COMMITTEE.

Tel : 9866357503, 9491987479

E-mail : mdrutirupati@gmail.com

Tirupati
21/Aug/2023.

To
Dr. K. Sunita
Associate Professor,
Dept of OBG,
SVMC,
Tirupati.
Dr. Manjula Kola
Associate Professor,
Dept of Home Science,
SVU, Tirupati.
Dr. N. Rajani
Associate Professor,
Dept of Home Science,
SPWU, Tirupati.
Dr. P. Madhusudhana
Scientist – B,
MRU,SVMC,
Tirupati.

Dear Dr. K. Sunita,

Sub: " Efficacy of nutrition intervention to mitigate the pre and perinatal complications of gestational diabetes mellitus (GDM) " – for RAC review & approval – regarding.

Ref: 1. Your Application for review & approval, dated 27.07.2022
2. Approved in the 8th RAC dated on 27.07.2023.

The MRU, Research Advisory Committee (RAC) of S. V. Medical College, Tirupati, during its meeting held on 27.07.2022 in the Meeting hall of the College, heard your presentation of the above protocol and reviewed the documents. The RAC hereby approve the above cited Study, namely " Efficacy of nutrition intervention to mitigate the pre and perinatal complications of gestational diabetes mellitus (GDM) " to be conducted in the Dept. of OBG and Multi - Disciplinary Research Unit (MRU), S.V.Medical College, Tirupati.

The Rc. No. is 8. Pro No: 8/RAC/MRU/SVMC DT:27.07.2022

Yours Sincerely,



(NODAL OFFICER)
Multi-Disciplinary Research Unit (MRU)
Sri Venkateswara Medical College
TIRUPATI, Chittoor District (A.P.)





SRI VENKATESWARA UNIVERSITY:: TIRUPATI

No.E.II(3)/RH/Home Science /2023

Date: 21.07.2023

PROCEEDINGS OF THE VICE-CHANCELLOR

Sub:- S.V.University – Teaching Establishment – Appointment of In-Charge Head for the Department of Home Science, SVU College of Sciences, Tirupati – Orders – Issued.

Read:- 1. Proceedings of the Vice-Chancellor No. EII(3)/RH/Home Science/ 2021, Date: 07.07.2021.
2. Vice-Chancellor's orders dated 19.07.2023.
===oooOOOooo===

ORDER:

Dr.K.MANJULA, Associate Professor, Department of Home Science, SVU College of Sciences, is appointed as In-Charge Head, Department of Home Science, SVU College of Sciences, Tirupati, with immediate effect, until further orders.

She shall take over charge of the Head of the Department from **Dr. K.V.SUCHARITHA** and send a report of taking over charge in the format prescribed for the purpose i.e., Certificate of Transfer of Charge.

Dr.K.V.SUCHARITHA is informed to handover charge of Headship to **Dr.K.MANJULA**.

(BY ORDER)

Sd./- O.MAHAMMAD HUSSAIN
REGISTRAR

To

Dr.K.MANJULA
Associate Professor
Department of Home Science
S.V.U. College of Sciences
TIRUPATI

Dr. K.V.SUCHARITHA
Associate Professor
Department of Home Science
S.V.U. College of Sciences
TIRUPATI

THROUGH :

The Principal,
S.V.U. College of Sciences,
TIRUPATI.

Copy to the Principal, S.V.U. College of Sciences, Tirupati.
Copy to all Heads of the Departments in S.V.U. College of Sciences, Tirupati.
Copy to the Finance Officer, S.V.University, Tirupati.
Copy to the Special Officer, Information Technology Cell and Data Centre, SVU College of Engineering, Tirupati, with a request to upload the proceedings in University website.
Copy to the Director, I.Q.A.Cell, S.V.University, Tirupati.
Copy to all Officers in S.V.U. Office, Tirupati.
Copy to C.II Section, through the Deputy Registrar (Academic),S.V.U. Office, Tirupati.
Copy to the Personal Secretary to Vice-Chancellor / Registrar, S.V.University, Tirupati.
Copy to the Personal Assistant to Rector / S.V.University, Tirupati.
Copy to Master Copy file / File /Spare.

//t.c.f.b.o.//

ASSISTANT REGISTRAR
Administration – Teaching



How to Overcome Gestational Diabetes?

- Eat less amount of meals rather than larger meals.
- Consume food at 6 times rather than 3 large meals.
- Do not sleep after eating.
- Drink water frequently.
- Include Green leafy vegetables, eggs, fruits, milk, curd in diet.
- Do not consume cool drinks, soda, sugary foods.
- Do small Exercises regularly.



CONVENOR

Prof. MANJULA KOLA

Head, Department of Home Science
Co-ordinator, Food Technology
Chairperson, BOS
Sri Venkateswara University, Tirupati.

CO-CONVENORS

Dr. K. Sunitha

Department of OBG, SV Medical
College, Tirupati

Prof. N. Rajani

Sri Padmavathi Mahila
University, Tirupati

Dr. P. Madhusudhan

Multidisciplinary Research
Unit, SV Medical College

ORGANIZING COMMITTEE

Dr. Kalyani Bandi

Dr. Jhansi Donadi

Dr. Y.B. Bhagath



FOOD SCIENCE NUTRITION & DIETETICS

DEPARTMENT OF HOME SCIENCE

SRI VENKATESWARA UNIVERSITY

MULTIDISCIPLINARY RESEARCH UNIT

SRI VENKATESWARA MEDICAL COLLEGE, TIRUPATI



Jointly organizing
WORKSHOP ON

**"NUTRITION AND DIETARY
MANAGEMENT OF**

GESTATIONAL DIABETES MELLITUS"



Prof. V. Srikanth Reddy
Hon. Vice Chancellor
Sri Venkateswara
University



Prof. O. Md. Hussa
Registrar
Sri Venkateswara
University



**Prof. K.T. Ramakrishna
Reddy**
Principal, College of Sciences
Sri Venkateswara University



Prof. Manjula Kola
Sri Venkateswara
University, Tirupati

CHIEF GUEST:- **DR. P.A. CHANDRA SHEKHARAN**

Principal, SV Medical college, Tirupati

Date: 06-05-2024

Time: 10 AM

Venue: Government Maternity Hospital, Tirupati



Human Development & Child Welfare

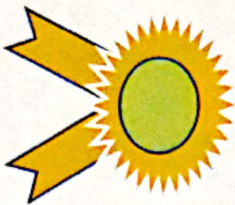
Department of Home Science, SVU College of Sciences

SRI VENKATESWARA UNIVERSITY:: TIRUPATI

Accredited By 'NAAC' With 'A+' Grade

Three days National Workshop – 2024

(25th -27th January, 2024)



Certificate of Participation

This is to certify that Ms/Mr/Dr/Sri/ Smt. Dr. Manjula Kala, Associate Professor
Dept of Home Science, Sri Venkateswara
University, Tirupati participated in Three days National Workshop on **"NEP-2020**
Promotion of Pedagogical Skills Among Early Childhood Educators" organized
by Human Development & Child Welfare, Department of Home Science, S. V. U College of
Sciences, S.V. University, Tirupati during 25th - 27th January 2024.


(Prof. K. Anuradha)

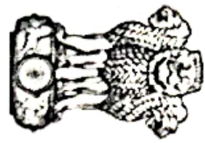
Coordinator


(Dr. B. Swaroopa Rani)

Co-Coordinator


(Dr. K. Manjula)

Head of the Department



सत्यमेव जयते

Government of India

MALAVIYA MISSION
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NEP 2020 ORIENTATION & SENSITIZATION PROGRAMME

This is to certify that Dr. K. Manjula, Associate Professor,
Dept. of Home Science, Sri Venkateswara University, Tirupati.
has completed the NEP 2020 Orientation & Sensitization Programme under Malaviya
Mission Teacher Training Programme (MM-TTP) of University Grants Commission
(UGC) Organized by UGC – MMTTC, Sri Venkateswara University,
Tirupati from 21-11-2023 to 29-11-2023.

Dr. K. Manjula

Director/Coordinator (MM-TTC)



Human Development and Child Welfare
Department of Home Science
Sri Venkateswara University::Tirupati

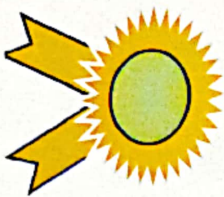
Mindcraft, Thrissur, Kerala



One Day National Workshop

On

"Emotional Management Through Behaviour Technology"



Certificate of Participation

This is to certify that Dr./Mr./Miss/Mrs.....*Dr. K. Manjula*..... of
Associate Professor, Dept. of Home Science, SVU has participated in **One day National Workshop**
on **"Emotional Management Through Behavioural Technology"** jointly organized by Human
Development and Child Welfare Specialization, Department of Home Science, S. V. University,
Tirupati and Mindcraft, Thrissur, Kerala on 25th July 2023.

[Signature]
Dr. K.V. SUCHARITHA
Head of the Department

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Prof. K. ANURADHA
Convener

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Dr. B. SWAROOPA RANI
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CEO, Mindcraft

A Treatise on potential of millets in enhancing immunity and prevention of diseases

Ch. Madhuri¹ and K. Manjula^{2*}

Food science and Nutrition, Dept of Home Science, Sri Venkateshwara University Tirupati, Andhra Pradesh.
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Abstract

There is a growing attention by government and people in regarding to the role played by millets in health benefits in chronic diseases. Millet grains are abundant in nutrient and health beneficial phenolic compounds, making it sustainable as food. Millets have nutraceutical properties in the form of antioxidant which prevent deterioration of human health such as lowering blood pressure, risk of heart disease, prevention of cancer and cardiovascular disease, diabetes, etc.

Key word

Introduction: Historically, food has been a vital part of Indian culture and continues to occupy an important place at the family and community level [1]. The review of the study deals with on the scientific benefits of the millets. They are nutria cereals which are highly nutritious and are known have high nutrient content which includes protein, essential fatty acids, dietary fiber, Vitamin B, minerals such as calcium, iron, zinc, potassium and magnesium [2]. The bio active compounds present in millets could improve health by means of their anti-oxidant, antimicrobial and anti-carcinogenic activities [3]. Millet is a very important crop with the following characteristics: Millets is known to be a drought resistance crop, resistance to pest and disease, short growing season as compare to other major cereals [4]. Millets are a group of cereals with small grain size and possess varied levels of phenolics and antioxidant activities depending upon the variety and location of production [5]. Millets are comprising the essential vitamins and trace components such as zinc (Zn), copper (Cu) and selenium can support immunity. The latest reports support that millets appear to be demand due to its constituent's immune booster biological activities [6].

Objectives

1. To analyze the reasons for usage of millets by people
2. Understanding the anti-nutritional factor and bioactive compounds of millets

Classification

EFFECT OF SYMBIOTIC PROPERTIES ON VIABILITY OF PROBIOTIC ORGANISMS IN DESIGNER YOGHURTS

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Living longer with health and fitness is the mind of most people and food is one of the most important facets of a healthy life. It seems very likely that concept of "designer foods" which enables the consumer to exercise a level of self-health maintenance, will significantly influence food and drink manufacturer. In this context the current study is focused on design of yoghurt (set yoghurt and yoghurt drink) with symbiotic (combination of prebiotics and probiotics) properties and assess the efficacy of designer yoghurt to combat overweight. Set yoghurt was designed by optimizing with Response Surface Methodology and yoghurt drink was designed with Factorial Research Design. The optimized samples were treated as experimental set yoghurt and experimental yoghurt drink. For each experimental sample two control samples i.e., positive control and negative control samples were also designed. All samples were analysed for viability of *Streptococcus thermophilus* and *Lactobacillus bulgaricus*. The results showed both experimental samples with symbiotic properties had more probiotic activity compared with control samples. Compared with experimental yoghurt drink experimental set yoghurt had more viability of both probiotic organisms. Whereas the growth of *Streptococcus thermophilus* was more compared with *Lactobacillus bulgaricus* in all samples.

Key words: Designer foods, prebiotics, probiotics, symbiotics, set yoghurt, yoghurt drink.

INTRODUCTION

The term probiotic is a word meaning "for life" and it is currently used to name bacteria associated with beneficial effects for humans and animals. Probiotics are believed to play very important roles in regulating proper intestinal function and digestion - by balancing intestinal microflora. These 'good bacteria' are considered to be "live microorganisms which when administered in adequate amounts confer a health benefit on the host" (FAO/WHO, 2017). The concept of probiotics was introduced in early 20th century by Elie Metschnikoff, it however gained momentum only recently with considerable and significant advances in functional and health food market across the world. India is also fast emerging as a potential market for probiotics in food.

The range of food products containing probiotic strains is wide and still growing. The main products existing in the market are dairy-based ones including fermented milks, cheese, ice cream, buttermilk, milk powder, and yoghurts, the latter accounting for the largest share of sales. Non-dairy food applications include soy based products, nutrition bars, cereals, and a variety of juices as appropriate means of probiotic delivery to the consumer. The factors that must be addressed in evaluating the effectiveness of the incorporation of the probiotic strains into such products are, besides safety, the compatibility of the product with the microorganism and the maintenance of its viability through food processing, packaging, and

Therapeutic and nutraceutical potential of edible Mushrooms: an overview

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ABSTRACT

In every country in the globe, mushrooms are valued for their therapeutic and dietary benefits. Because immunity and cellular protection are significant issues for health-conscious customers and for people who are coping with major health issues, and increasing vegetarians' interest in mushrooms has reached a height. Mushrooms typically belong to the Basidiomycetes family, which contains a wide variety of mushroom species and compounds with medicinal and nutritional value. According to reports, they are the most beneficial in people health and nutrition around the world. Around the world, studies on the medicinal and dietary benefits of mushrooms are in progress. Important information is being provided by researchers on the variety of bioactive substances present in these intriguing fungi. Mushrooms are now more widely accepted as a food and dietary supplement. Research on the bioactive metabolites/phytoconstituents of mushrooms is currently being actively conducted by numerous academic and research institutions. The current research intends to evaluate the variety of mushrooms and its benefits in the modern era, i.e., the types of metabolites/phytoconstituents present in these mushrooms, particularly those with medicinal and nutraceutical value, free radical scavenging activities and their function as bioactive agents.



Therapeutic Potential of Function Foods in Enhancing Immunity and Disease Prevention – A Review

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ABSTRACT

The rapid urbanization coupled with intensive production and consumption system as well as rapid lifestyle, changes has result in an increase in non-communicable chronic diseases, reemerging infectious disease, environmental degradation, and health care inequity (1). The demand for development of nutraceuticals and functional foods. Functional foods are combination of different nutrients that are high in a particular component imparting therapeutic benefits. Functional foods contain nutritional supplements which increases the immunity by reducing the inflammation and help in improving the health. The study aims to enhance the potential of therapeutic immunity and Disease preventive mechanism through some nutraceuticals, nutritional supplements, and functional foods. The role of bio active compounds is reducing the risk of major chronic diseases and the underlying biological mechanism that account for these effects (2). Eating a variety of foods is beneficial to our health and can help in reducing our risk of chronic diseases. (3) Functional foods are well known for their role of being involve in disease treatment and prevention. These foods have ingredients that enhance antioxidants and anti- inflammatory activities, which are functional to prevent diseases such as type 2 diabetes (). Many nutraceuticals and functional foods have shown a positive impact on cardiovascular disease, diabetes, obesity, osteoporosis, and immune functions.

Keywords: Nutraceuticals, immunity, anti-inflammatory, antioxidants, therapeutic potential.





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Review

Alginate biopolymeric structures: Versatile carriers for bioactive compounds in functional foods and nutraceutical formulations: A review

Babu Bhagath Yerramathi ^a, Beulah Annem Muniraj ^b, Manjula Kola ^a ✉, Kranthi Kumar Konidala ^c,
Praveen Kumar Arthala ^d, Tata Sanjay Kanna Sharma ^e

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Highlights

- Alginates as suitable vectors for the delivery of bio-active compounds in the functional foods and nutraceuticals.
- Various alginate products and their potentials to transport and delivery bioactive compounds.
- Alginate based modified/engineered nanostructures, their importance in specific and next-generation delivery methods.
- Suitability and endorsement of alginates for the 'delivery by design' concept.
- Biocompatibility and safety regulations of alginates in food and nutraceutical products.

FOOD FERMENTATION TECHNOLOGY- SIGNIFICANCE, SCOPE AND FUTURE PERSPECTIVES

Abstract

Fermentation is one of the ancient methods of processing to preserve the food as well as to enhance the nutritional value of food. Fermentation processes characteristically involve metabolic pathways that bring about alteration in organic molecules all the way through the action of microorganisms or enzymes. The fermentation technology is applied for many foods which possess different kind of tastes and varieties along with preservation. Food Fermentation process is classified in different ways according to stage of fermentation, medium and activity of Microorganisms used in the processes which are very significant for food applications. Nonetheless, industrial food fermentation processes are not the same as typical submerged fermentation processes in terms of design and operation, with the exception of those for food ingredients and processing aids like flavourings and enzymes. Fermentation and technology were combined to enable commercially viable large-scale production. Consequently, significant advancements were made possible by the progress achieved in microbiology, biotechnology, and process engineering techniques have linked traditional food fermentations with large-scale manufacturing methods that ensure product safety and quality. Artificial intelligence traditionally pertains to the creation of human-like intelligence within machines, enabling them to learn, plan, perceive, or process natural language. Electronic noses (E-noses) are among the most useful instruments for quality food and beverage identification that satisfy these requirements. The application of AI-based predictive analytics is composed to assist food manufacturers in creating new

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Vitamins and Hormones

Volume 121, 2023, Pages 395–411

Chapter Fourteen - Antioxidants: Structure–activity of plant polyphenolics

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Abstract

The excessive accumulation of reactive oxygen species (ROS)/free radicals can lead to abnormal oxidation of biomolecules such as proteins, lipids, fats, carbohydrates and nucleic acids in human organisms. Accordingly, endogenous oxidative stress induces the progressive development of various chronic diseases like rheumatoid arthritis, cancers, cardiovascular risks, diabetes, digestive ulcers, hypertension, obesity, neurological disorders, and age-related complications. Therefore, anti-oxidant defense mechanisms are needed to control/prevent the unbalanced molecular oxidative damage. Indeed, the oxidative stress arises from both endogenous and exogenous factors such as smoking, alcohol, medications, air pollution, sunlight, lifestyle disorders, and metabolic processes. Therefore, consumption of fruits, vegetables, grains, beverages, and leafy vegetables rich in antioxidants may inhibit or treat oxidative damage accompanying diseases. From this aspect, dietary foods are rich in various antioxidant metabolites such as flavonoids, vitamin A, C, E, phenolic acids, curcumin, stilbenes, anthocyanins, etc., which promote healthy life and nutritional benefits. Additionally, various studies have also proven that foods rich in antioxidants interact with reactive species to prevent cell damage(s) or therapeutic pathways for diseases. Although, there are various myths about the antioxidant mechanism(s), the optimal dosage of antioxidants can show beneficial pharmacological activities against various molecular oxidation paths.

Section snippets



GOVERNMENT OF ANDHRA PRADESH

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September 5th 2023, Visakhapatnam

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is awarded this Certificate of Merit and Medal in recognition of his/her meritorious service as a Teacher at University Level on 5th September, 2023 at Visakhapatnam.

Prof. K. Hemachandra Reddy

Chairman

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సెప్టెంబర్ 5, 2023

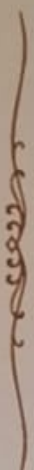




GOVERNMENT OF ANDHRA PRADESH
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Prof. K. Hemachandra Reddy

Chairman

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