VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY



(Spousored by SARASWATHI VIDYA PEETAM)

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

Certified by ISO 9001:2015:: Accredited by NAAC with 'B+ 'Grade.

NUNNA-521212, Vijayawada Rural, Krishna Dt., A.P. India.

E-mail-principal.vcet@gmail.com, Website: http://www.vikasinstitutionsnumha.org/



2.3.1-Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Institution has adopted various learning methodologies such as experiential learning, participative learning and problem solving to create interest amongst the students in the teaching learning process.

Experiential Learning

Industrial visits and hands-on training by the industrial experts are arranged for the students to make them updated with the recent technological trends. Various certificate/add-on courses are conducted for the students to enhance their technical skills and employment opportunities. Students are encouraged to undertake internships/implant trainings for getting industrial working experience. Laboratory courses provide the students with better understanding of the concepts taught in the class.

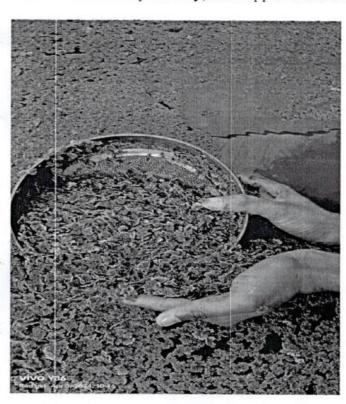
Participative Learning

Students are encouraged to participate in symposiums, intra/inter collegiate events, seminars, guest lectures and contests to bring-out their technical skills and innovative capabilities. Students are encouraged to participate in group discussions and seminars during the class hours. Students are also encouraged to undertake NPTEL courses in recent technologies.

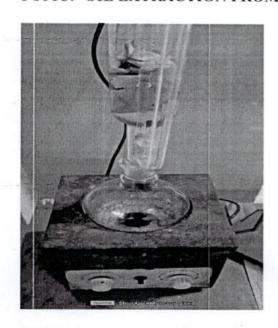
Problem Solving Methodologies

The project courses enable the students to identify societal problems and provide user-friendly/environment-friendly and economically feasible solutions using their innovative and creative thinking capabilities. Students are provided with problem solving assignments for better understanding the theatrical concepts. Tutorial classes are conducted for problem-oriented subjects to students for enhancing their problem-solving abilities.

NAME OF THE MATERIAL: - AZOLLA - Azolla, a remarkable aquatic fern, is revolutionizing agriculture. Its rapid growth and nitrogen-fixing ability make it a natural fertilizer, enriching soil health. Farmers are increasingly using Azolla to boost crop yields, reduce chemical dependency, and support sustainable farming practices.



TOPIC:- OIL EXTRACTION FROM AZOLLA



VIKAS COLLEGE OF ENGG. TECH.

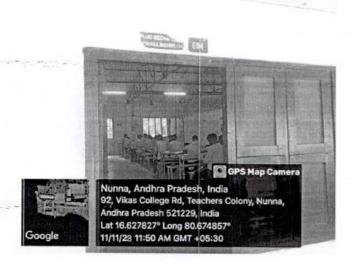
NUNNA - 521 212

NUNNA - 521 212

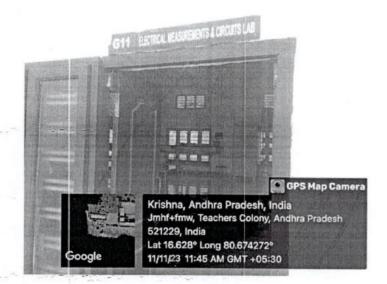
Vilayawada Rural, NTR Dist., A.R.

1.1. LABORATORY COURSES

FLUID MECHANICS AND HYDRAULICS MACHINES LAB



ELECTRICAL MEASUREMENTS & CIRCUITS LAB



PRINCIPAL
VIKAS COLLEGE OF ENGG, TECH.
NUNNA - 521 212
Vilayawada Rural, NTR Dist., A.P.

LAB: SUDHAMURTHY LAB



FIELDWORK



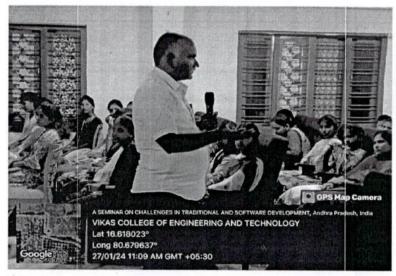
FIELDWORK



PRINCIPAL
PRINCIPAL
RIKAS COLLEGE OF ENGG, TECH.
NUNNA - 521 212
Vilayawada Rural, NTR Dist., A.R

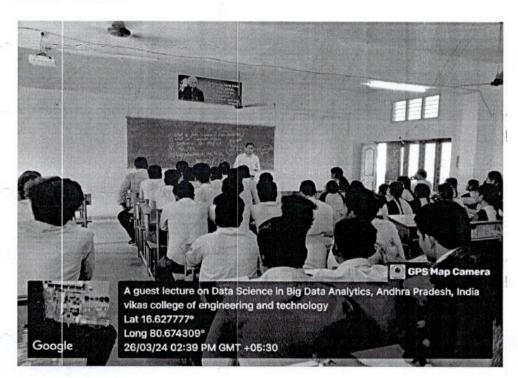
2. PARTICIPATIVE LEARNING

SEMINAR TOPIC: - CHALLENGES INTRADITIONAL AND SOFTWARE DEVELOPMENT DATE: -27/01/24



GUEST LECTURE TOPIC: DATA SCIENCE IN BID DATA ANALYTICS

GUEST FACULTY DATE: - 26/03/24



PRINCIPAL
VIKAS COLLEGE OF ENGG. TECH.
NUNNA - 521 212
Vilayawada Rural, NTR Dist.,

2.1 PARTICIPATIVE LEARNING

NPTEL

TOPIC: - MAINTENANCE AND REPAIR OF CONCRETRE STRUCTURES



GROUP DISCUSSIONS TOPIC:- ADVANCED



3. PROBLEM SOLVING METHODOLOGIES

MAJOR PROJECT

DEPT: - ECE

TOPIC: - SMART WALLET AI -INFUSED IOT DEVICES FOR

FINANCIAL SECURITY

Smart wallet Al-Infused IOT Devices for Financial Security

VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY NUNNA VIJAYAWADA RURAL, KRISHNA (DIST.), A.P. DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



This is to certify that the project entitled "SMART WALLET AI-INFUSED IOT DEVICES FOR FINANCIAL SECURITY" is the bonified work done by

M. REVANTH

:20NQ1A0418

A. R. VALLABHA RAYUDU

:20NQ1A0401

P. SANTOSH KUMAR

:20NQ1A0425

A. VENU GOPAL

:20NQ1A0403

M. ARAVIND

:20NQ1A0413

Students of IV B. Tech-II semester, in the department of ECE, VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY, NUNNA during the academic year 2023-2024 in partial Fulfilment for the award of bachelor degree of Technology, JNTU-KAKINADA.

Mr. P. V. L. N. PHANL

Mr. B. V. REDDY M. Tech (Ph. D),

Associate Professor

Sr. Assistant Professor

XTERNAL EXAMINER

VIKAS COLLEGE OF ENGG. TECH.

NUNNA - 521 212
NUNNA - 521 212
NINVawada Rural, NTR Dist., A.P.

VCTN, ECE

DEPT: - CIVIL

TOPIC: - AN EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF FINE AGRREGATE WITH WASTE RUBBER TYRE CRUMBS

CERTIFICATE

This is to certify the project work entitled, "AN EXPERIMENTAL STUDY ON PARTIAL REPLACEMENT OF FINE AGGREGATES WITH WASTE RUBBER TYRE CRUMBS" is a bonified work



Submitted by

N. SANJANI

20NQ1A0112

K. BHAGYASRI

20NQ1A0104

M. SANDEEP

20NQ1A0110

R. SRIRAM NAIK

20NQ1A0115

M. JAGAN SAI

2011Q17101115

1

21NQ5A0114

V. ANUSHA

PROJECT GUIDE

KKD VARA PRASAD PAO

HOD

EXTERNAL EXAMINER

PRINCIPAL

IKAS COLLEGE OF ENGG, TECHNONIA - 521 212

NUNNA - 521 212

Vilayawada Rural, NTR Dist., A.P.

DEPT: - MECH

TOPIC: - PREPARATION OF BIOMASS BRIQUESTTES USING VARIOUS AGRO WASTES

> "PREPARATION OF BIOMASS BRIQUETTES USING VARIOUS AGRO WASTES"

> JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA



A project Submitted In partial fulfilment of the Requirements for the award of the

Degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

Submitted by

VAMSI PRASAD

DURGA 21NQ5A0305

21NQ5A0314

T. REVANTH

K. CHANIKYA

21NQ5A0304

Y. PAVAN

21NQ5A0317

R. LAKSHMI KIRAN

21NQ5A0312



Under the guidance of

Mrs L.BINDU,

Asst.Professor

Department of Mechanical Engineering VIKAS COLLEGE OF ENGINEERING AND TECHNOLOGY

(Affiliated to JNTU Kakinada, Approved by AICTE) Nunna, Vijayawada -521212, Andhra Pradesh www.vikasinstitutions.org

PRINCIPAL VIKAS COLLEGE OF ENGG. TEC... NUNNA - 521 212 Vilavawada Rural, NTR Dist., A.P.

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA



"PRODUCTION OF BIOETHANOL FROM CATTAIL PLANTS"

A project Submitted In partial fulfilment of the Requirements for the award of

the Degree of

BACHELOR OF TECHNOLOGY

MECHANICAL ENGINEERING

Submitted by

21NQ5A0313 SHAIKARIF

21NQ5A0308 MOGHALAMIR BAIG

21NQ5A0315 VADLAMUDI JAYARAM PODTHULUSIVANARESH

21NQ5A0311 KUMAR

20NQ1A0305 LINGINENIMANIKANTA



Under the guidance of

Mr.T.MASTHANAIAH,

Associate Professor

Department of Mechanical Engineering

VIKAS COLLEGE OF ENGINEERINGAND TECHNOLOGY

(Affiliated to JNTU Kakinada, Approved by AICTE)

Nunna, Vijayawada -521212, Andhra Pradesh

INTERNSHIP (MINIPROJECT)

DEPT: - MECH

TOPIC: ANSYS WORKBENCH VIRTUAL



INTERNSHIP

Completion Certificate



28/07/2024

This is to certify that

KALLAGUNTA VAMSI CHANDRA

Student ID:22NQ5A0304

College: VIKAS COLLEGE OF ENGINEERING AND TECHNOLIGY

has successfully Completed Internship on Ansys Workbench Virtual Internship, during 3rdJune to 27thJuly-2024 at Naresh Technologies and Consultancy Services.

During this period, the intern has served as a Developer and has displayed remarkable exceptional coordination skills and effective communication abilities. Intern has consistently approached new assignments and challenges with enthusiasm towards Ansys Workbench. Intern has commitment and willingness to acquire new knowledge and skills have been evident throughout internship.

Internship Details:

Internship ID

Ansys Workbench

Location

Virtual

Duration

3rd June to 27th July-2024

Certificate ID

62Dh83634c2666509376

Best regards.

Authorized Signatory

AICTE

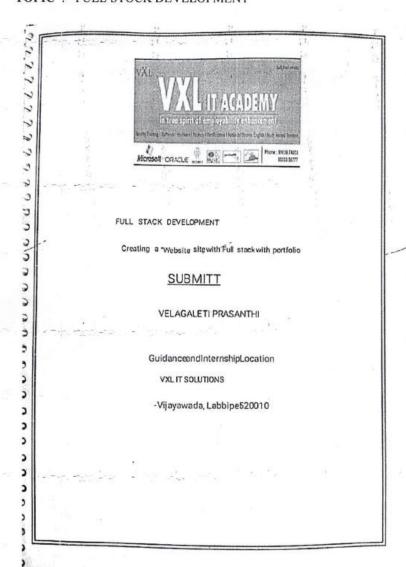
MCAO SWALL A MEDIUM ENTERPRISES
SHA CRI ÇA TUTA GÜR
OUR STRENDIM 1-118 3 filor

www.nareshtandcs.com

info@nareshtandcs.com

PRINCIPAL
VIKAS COLLEGE OF ENGG. TECH.
NUNNA - 521 212
Vijavawada Rural, NTR Dist., s

DEPT:- CSE **TOPIC**:- FULL STOCK DEVELOPMENT



PRINCIPAL

.IKAS COLLEGE OF ENGG. TECH.

NUNNA - 521 212

Vijayawada Rural, NTR Dist., A.R.

DEPT :- CSE

9

3

3

0

5

3

TOPIC :- RED-HAT ENTERPRISE LINUX

An Internship Report on

RED HAT ENTERPRISE LINUX

Submitted in accordance with the requirement for the degree of

Under the Faculty Guideship of

MR. VIJAY KOMARAPU

Department of Computer Science and Engineering

Vikas College of Engineering and Technology

Submitted by:

Pothuraju Akshayarani

Reg No.: 22NQ1A0572

Department of Computer Science and Engineering

Vikas College of Engineering and Technology

(Name of the College)

VIKAS COLLEGE OF ENGG. TECH.
NUNNA - 521 212
VIlayawada Rural, NTR Dist., A.F.

DEPT: - CIVIL

TOPIC: STAAD PRO DRAFTING USING AUTO CAD



Cell: 97037 23230

M. Surya Narayana

Licensed Civil Engineer, License No; CE-5/21 Consultants for VMC Plans, CRDA Plans, Structural Drawings, Estimations & Elevations

CERTIFICATE OF INTERNSHIP

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Kondaveeti Praveen Kumar (23NQ5A0106) has done his Internship at DL CONSTRUCTIONS, Vijayawada from 03-06-2024 to 30-07-2024.

He has worked on a project titled Analysis and Design of Building using STAAD Pro. This project was aimed at complete design of a building. As a part of the project, he has done Analysis and design of building using STAAD Pro and Drafting using AutoCAD.

During his internship he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time. We wish him all the best for his upcoming career.

(M.SURYANARAYANA) Proprietor

M. SURYANARAYANA, 8.Tech. LICENSED CIVIL ENGINEER VMC LICENCE NO: CE-05/2021 APCRDA Regd. No. MAUG1-DPOVI/ILE1/2/023 Gandhinagar, VIJAYAWADA-620 003, Cell: 9703723230, 9673720922.

26-16-13, Vuyyuru Jamindar Street, Gandhi Nagar, Vijayawada, NTR District, Pin: 520003 Email: suryakannakvr@gmail.com

PRINCIPAL

...KAS COLLEGE OF ENGG. TECH.

NUNNA - 521 212

NUNNA - 521 ZIZIA

DEPT: - CIVIL

TOPIC: WEB DEVELOPMENT WITH WORD PRESS



Date: 30-Apr-2024

Place: Virtual







ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

(A Statutory Body of the Government of A.P.)

CERTIFICATE OF COMPLETION

This is to	certify	that	Ms./Mr.	Ponugoti	Lakshmi	Reddy	_of _	Civil	Engineering	with	Registered	Hall
ticket no.												

20N01A0114 under Vikas College Of Engineering And Technology of INTUK has successfully completed Long- Term Internship of 240 hours (6 months) on Web Development With Word Press Organized by Smart Bridge Educational Services Pvt. Ltd. in collaboration with Andhra Pradesh St at e Council of Higher Education.

Certificate ID: EXT-APSCHE_FSD-17023

Amaria

Amarendar Kat kam Founder & CEO

PRINCIPAL

.. KAS COLLEGE OF ENGG. TECH.

NUNNA - 521 212

Vilayawada Rural, NTR Dist., A.

PROBLEM SOLVING ASSIGNMENTS

SUBJECT: - STRENGTH OF MATERIALS

O A Pear is simpley supposed from and cosilets a uniformly distributed load yokulm suncues the uniformly distributed load yokulm suncues the uniformly distributed load yokulm suncues the uniformly distributed bearing is seed to a local month and seed to a local month of the secotion to the secotion to and seed to a local month.
moment of invision of the secution to low months of invision of the secution to low months of the securion.
9)vendata; UDL=100 = MOKNIM => 40 KNIM => 40x10 N/M 40x0/M
max stress (Great): vocalland mot of secution (II)=7 X108 mind
2 95 Le)
seculion: seculion modulus fox a max. Bm m:0 max
secotion modulutes of the secotion
$\frac{1}{250} = \frac{3}{2}$ $= \frac{3}{2}$
$\frac{y_{\text{max}} + 9 \text{ somm}}{2}$ $\frac{7 \times 10^{3}}{250}$ $\frac{2}{2} = 9.8 \times 10^{5} \text{ mm}^{\frac{1}{2}}$

max. Bm fox a sse assing vol m= wg = 1 rocox 12 2 - excot mm m = soon L x looo worn put all voxlou's sub in equation no: (1) m= omax 7. 500012 ×1000 = 120 × (28×105) 12= 120x (28x105) 5000 X 1000 = 8.197m say 8.2 m L-8,200 mountain manage

1 (8) A team supproted as it's ends has a span of 2m and consider a up t of sookhilm over the a entire spain the coop secution of the beam is the exaction having slange wildle a snow stage Thickness somme urb Thickness Ismn found trapph soome. calculate maximum shes skess in the bearn and peace stes steem distribution diagram chiendala! 1 = 9 m => socomm scaknim 88: 7 RA=1 The given cosies unt cover it's enterespon solvation; RA = RB = CUL = 100×100 = 1×100 RA - RO - 200 Sheek frace (F): 5.00KN 9 = Alyitayta AHA A1= 25X175=4275mm / 41=95 = 875mm 12 = 125x25 = 325mm 32 : 175725 = 187.5mm

- (3035 X 81-5)+(3105 X 87-5) g= (29.12 mm)

4375+325

