VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-560014, Karnataka



CGV MINI PROJECT REPORT ON

"wind mill simulation"

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE CGV LAB

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE & ENGINEERING

Submitted By

HARSHITHA T A (1SV20CS014)

Under the guidance of

Mr.Renukaradhya P.C B.E., M.Tech.,

Assistant Professor, Dept. of CSE.

PRINCIPAL SIET. TUMKUR.



Department of Computer Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated To Visvesvaraya Technological University)
Sira Road, Tumakuru – 572106, Karnataka.
2022-23



Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, Computer Graphics and Visualization Mini-Project of entitled "Wind mill simulation" has been successfully carried out by HARSHITHA T A [1SV20CS014], in partial fulfillment for the CGV Lab of Bachelor of Engineering in Computer Science & Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all the corrections/suggestions indicated for internal assessments have been incorporated in the report. The Mini- Project report has been approved as it certifies the academic requirements in respect of Mini-Project work prescribed for the Bachelor of Engineering Degree.

Signature of Guide

Mr. Renukaradhya P.C B.E., M.Tech.,

Assistant Professor, Dept. of CSE, SIET, Tumakuru.

PRINCIPAL SIET. TUMKUR. Signature of H.O.D

Dr. Basavesha D M.Tech., Phd,

Associate Professor & HOD Dept. of CSE. SIET, Tumakuru.

Name of the Examiners

1. GIRISH-L

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Signature with date

(1013/9/23



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

I,HARSHITHA T A[1SV20CS014], student of VI semester B.E in Computer Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the Mini-Project work entitled "WIND MILL SIMULATION", embodies the report of our Mini-Project work carried out under the guidance of Mr.Renukaradhya P.C, Assistant Professor, Department of CSE, SIET, Tumakuru aspartial fulfillment of requirements for the CGV Lab in Bachelor of Engineering inComputer Science & Engineering of Visvesvaraya Technological University, Belagavi, during the academic year 2022-23. The Mini-Project has been approved asit satisfies the academic requirements in respect to the Mini-Project work.

Place: Tumakuru

Date: 04.07/23

Houseltha T.A

Student Name & Signature

HARSHITHA TA [1SV20CS014]

SIET. TUMKUR.

ABSTRACT:

The objective of this paper is to determine optimal solutions for the implementation of renewable energy in Romania, using for this purpose the available Geographic Information Systems technology. We also want to demonstrate that the GIS technology can be used as a substitute for programs dedicated to wind energy.

High energy consumption problem has become increasingly acute human needs. Domestic heating in winter involves considerable expenses, so the idea of energy conservation and the need to implement reliable and innovative solutions in the field of energy in constructions emerged. Given these constrains, a judicious approach of the built environment is the study of energy consumption starting from the concept phase. This paper presents a parametric study regarding impact on energy consumption for different factors and the weighing associated. The analysis has been performed using an energy simulation program, which is able to provide a complex analysis of the thermal behavior of the building for different cases. The thermal behavior of a building should be the result of a multicriteria optimization, considering both thermal comfort and energy **Technology used**

Graphics Software: various software packages are available forcreating computer graphics, including 3D modeling and animation software,

Computer Hardware:

A powerful computer with a good graphics card and sufficientstorage capacity is required to run graphics software, C++ and python languages are used in graphics.

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