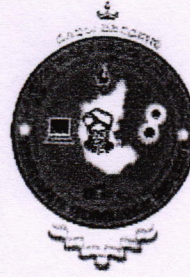# VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belagavi-560014, Karnataka

<u>CGV MINI PROJECT REPORT</u>
<u>ON</u>

"Rotation caused by Wind"

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
CGV LAB

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING

<u>Submitted By</u>

MAMATHA K

[1SV20CS022]

<u>Under the guidance of</u>

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

Assistant Professor, Dept. of CSE.

SHRIDEVI
EDUCATION

PRINCIPAL
SIE T. 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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, Computer Graphics and Visualization Mini-Project of entitled "Rotation caused by Wind" has been successfully carried out by MAMATHA K [1SV20CS022] 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 BE.,M Tech.,Phd.,
Head ,Dept. of CSE, SIET, Tumkur.

Name of the Examiners   **Signature with date**

1 .....GIRISH. L..................   ....12/7/23

2 ....Harish...................   ....12/7

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

I, MAMATHA K[1SV20CS022], 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 **"Rotation caused by wind"**, 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 as partial fulfillment of requirements for the CGV Lab in **Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi**, during the academic year **2022-23**. The Mini-Project has been approved as it satisfies the academic requirements in respect to the Mini-Project work.

PRINCIPAL
SIET. TUMKUR.

Place: Tumakuru

Date: 04/07/23

Student Name & Signature
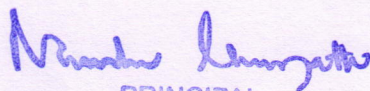
MAMATHA K

[1SV20CS022]

<u>ABSTRACT</u>

We have attempted to design and implement "Rotation caused by wind" scenario. OpenGlsupports enormous flexibility in the design and the use of OpenGl graphics programs. The presence of many built in classes methods take care of much functionality and reduce the job of coding as well as makes the implementation simpler.

The project was started with the designing phase in which we figured the requirements needed, the layout design, then comes the detail designing of each function after which, was the testing and debugging stage. We have tried to implement the project making it as user-friendly and error free as possible. We regret any errors that may have inadvertently crept in. The very purpose of developing this mini project is to exploit the strength of OpenGL graphics capabilities. This mini project is made in a effective manner by using the computer language C in a 2D view. In future it can be designed with a 3D animation view also. The extent is to study the concepts of computer graphics. And finally this project is prepared to help the society in future

Finally, we could say by developing the game we have learnt the basics of f computer graphics and in future by developing it further we shall learn more. It will be our pleasure if we could develop in 3d graphics package.

PRINCIPAL
SIET. TUMKUR.