A

PROJECT REPORT

ON

APPLICATION OF MATHEMATICS IN REAL LIFE

BACHELOR OF SCIENCE

IN

MATHEMATICS

UNDER SUPERVISION OF:

Dr. P.Surekha
Head Of the Department
Dept. Of Mathematics

SUBMITTED BY:

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CERTIFICATE

This is certify that this is a Bonafede project work done by V.Ramu, III

B.Sc,MPCs with Reg No (1800442008)

During the academic year 2020 -2021 is the Dept.of Mathematics, govt.

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ACKNOWLEDGEMENTS

I am('G Jagapathi Naidu) Student of III B.Sc of Govt Degree College, Narasapnnaeta, srikakulam would like to acknowledge the efforts of all thouse who have helped as in doing project work.

Firstly I would like to express gratitude to our vice chancellor of Dr.B.R.Ambedkar University, Srikakulam for introducing students study projects in our curriculam.

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I would also like to thank our another faculty of mathematics Mrs.M.Harika) for her valuable suggestions and insights which helped me to improve the project work.

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Last but not lest , I would like to express my gratitude towards my supervisor (Mrs.P.Surekha,)n charge of Dept.of Mathematics whose constant help and support, stimulating suggestions and encouragement helped me in all time of project and writing of this report. Also without her help, this project would not been possible.

PREFACE

by the Dr.B.R.Ambedkar University, srikakulam for the B.Sc VI semester cluster (Mathematics) includes study project, as for the matrix of study project, as for the guidelines I have selected the topic "Application of Mathematics in Real Life" Mathematics in Real Life" in this context I have conducted an in depth survey of deta on the said topic. deta on the said topic. I am presenting a project report based on the result to the Mathematics, Govt. Degree & PG College, Narasannapeta, Srikakulam.

Date: 25/8/2021 Station: Noncyannopela.

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The simple pendulum:

A Simple pendulum consists of a rouss'm' hanging from a strong of length L' and fixed at a flut point p. when displaced to an Printfal angle and selected, the pendulum will swing back and selected, the pendulum will swing back and selected, the pendulum will swing back and toth with periodic motion. By applying Newton's secont law to satath onal systems, the equations of motion to the pendulum may be obtained.

T = Ia => -mg Sin OL = ml dt

and seassanged go + g sin0 = 0

The amplitude of angular displacement is small Is small crough that the small angle approve of approximation (sin ~0) holds toue, then the equation of motion seduces to the equation of Emple parallem harmonic motion. do + 8 0 = 0 The Simple harmonic salution is $\theta(t) = \theta_0 \cos(\cot + \phi)$ whith w = 18/L being the natural frequency of the motion.

Fun Algebraic Equations to use in Every day life :-Ah, Algebra. What all poin et 63 can be to memorise formulas and how to solve them. For those who did not Like malty class, "i'm never going to 4 use this!" sons through your mind go you do your homework. But guess what, you do use ?t and probably don't even realize it. you even use 9t do tun, everyday activities

calulating Graming time: (x/y)*a/b=c you want to spend a couple of hours playing your new game with your friends tongt, but your purents say you have to send of the energie tol 30 minutes tol every 20 minutes of game fine. How long do you have to sead of exercise to get your 2 harris of game 0 fine in? you caly stalb = c to find out. 3 0