

“AN EFFECTS OF COVID-19 DURING THE PERIOD (2019-2022)”

A Project report submitted

In partial fulfillment of the requirements for the award of the

Degree of

BACHELOR OF SCIENCES(B.Sc)

6th semester end examination

April 2022

Under the Esteemed Guidance of

SRI.P.GANDHI M.Sc,M.phil

SRIAPPALARAJU

Associate professor of statistics

Mrs.A.V.N college,Visakhapatnam



Head of the Department of **MATHEMATICS & STATISTICS**

Mrs. A.V.N.College, Visakhapatnam, March2022

NAAC“A”GRADE

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Mrs.A.V.N COLLEGE
(Affiliated to Andhra University)

BONAFIDE CERTIFICATE

This is to certify that the project report titled "*AN EFFECTS OF COVID-19 DURING THE PERIOD (2019-2022)*" " submitted By
"TEAM: B. APARNA, P. V. PADMAVATHI, E. NOOKARATNAM, I. RANIDEVI, S. HEMA, T. SANTHOSH KUMARI, S. RAMYA, B. DHANA LAKSHMI" in partial fulfillment of the requirements for the award of the Degree of the *BACHELOR SCIENCES* at *Department of Mathematics & Statistics*, Mrs *.A.V.N COLLEGE*, Visakhapatnam is bonafide record of the work done by him/her under my supervision.

Mrs .A.V. N.COLLEGE

Visakhapatnam.

March 2022



SIR.P.GANDHI

PROJECT DIRECTOR

DECLARATION

We, TEAM: B. APARNA, P. V. PADMAVATHI, E. NOOKARATNAM, I. RANIDEVI, S. HEMA, T. SANTHOSHI KUMARI, S. RAMYA, B. DHANA LAKSHMI, students of final year B.Sc of Mrs. A. V. N. College, Visakhapatnam hereby declare that this project work "AN EFFECTS OF COVID-19 DURING THE PERIOD 2019-2022" has been carried out by us at Statistics laboratory and not submitted to any other title. This project report is submitted in partial fulfillment of the requirement for the award of Bachelor's Degree of Computer Science during the academic year of 2021-22.

Under the Guidance of

Sri. P. Gandhi

Submitted by

TEAM: B. APARNA, P. V. PADMAVATHI, E. NOOKARATNAM, I. RANIDEVI, S. HEMA, T. SANTHOSHI KUMARI, S. RAMYA, B. DHANA LAKSHMI

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We wish to take this opportunity to express my deepest thanks to all my class friends who had helped in this project at every stage.

TEAM: B.APARNA, P.V.PADMAVATHI, E.NOOKARATNAM, I.RANIDEVI, S.HEMA, T.SANTHOSHI KUMARI, S.RAMYA, B.DHANA LAKSHMI

ABSTRACT

- How Statistics play a Crucial role in this pandemic Situation. While collecting the data we use sample survey techniques. For Analysis of data we use some statistical tools like sample mean ,population mean ,sample variance ,population variance etc.....
- Sample mean and population mean are used to collect the average Mortality rate of the particular city or area.
- Mortality means the number of deaths in a given area or period or from a particular cause, here cause is "covid".
- Sample Variance and Population variance are used to compare mortality between or among the particular areas/cities.
- Interpretation of data we used tables, graphs pie-charts etc.....
- In this way statistics are used in the pandemic situation.

Abstract The 2019 novel-coronavirus (COVID-19) has affected 181 countries with approximately 1197405 confirmed cases (by 5th April). Understanding the transmission dynamics of the infection in each country which got affected on a daily basis and evaluating the effectiveness of control policies are critical for our further actions. To date, the statistics of COVID-19 reported cases show that more than 80% of infected are mild cases of disease, around 14% of infected have severe complications, and about 5% are categorized as critical disease victims. Today's report (5th April 2020; daily updates in the prepared website) shows that the confirmed cases of COVID-19 in the United States, Spain, Italy, and Germany are 308850, 126168, 124632, and 96092, respectively. Calculating the total case fatality rate (CFR) of Italy (4th April 2020), about 13.3% of confirmed cases have passed away. Compared with South Korea's rate of 1.8% (seven times lower than Italy) and China's 4% (69% lower than Italy), the CFR of Italy is too high. Some effective policies that yielded significant changes in the trend of cases were the lockdown policy in China, Italy, and Spain (the effect observed after some days), the shutdown of all nonessential companies in Hubei (the effect observed after 5 days), combined policy in South Korea, and reducing working hours in Iran.