

School of Computer Science and Engineering

Lab exercise-5

Code/Course	:	CSE3020 – Data Visualisation	Date	:	22/02/2021
Lab		Time Series Analysis	Slot	:	L15+L16
Experiments					L13+L10

Pre-requisite: Moderately familiar with basic concepts in R, including variables and functions, and with Studio, the integrated development environment for programming in R.

Consider the COVID-19 pandemic situation. Analysis and forecast the pandemic trend by using Covid19 dataset

- 1. You want to predict the last year monthly, weekly trend based on the RTPCR response, (i.e.) No. of +Ve cases and No. –Ve cases along with admitted and discharged trend.
- 2. Identify the death rate due to Covid-19
- 3. Compare the last year and this year trends with respect to $1^{\rm st}$, $2^{\rm nd}$ and $3^{\rm rd}$ wave also forecast the 4th Wave impact in India
- 4. Construct the model using the Simple moving average, Exponential Moving Average and ARIMA to forecast the Covid19 Dataset.
- 5. Show the all above implementation with the visual impact