NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

Cachar, Assam

B.Tech. IVth Sem

Subject Code: CS216

Subject Name: Applied Probability

Submitted By:

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Branch : CSE – B

- 1. Write an R program to plot multiple time series using ggplot2 data visualisation package.
 - → Steps:
 - i. Install 'ggplot2' package and load it.
 - > install.packages ("ggplot2")
 - > library (ggplot2)
 - ii. Create multiple time series using data.frame function to store x and y data in each time series.

#Creating first time series

- > x1 <- 1:10
- > y1 <- rnorm(10)
- > time1 <- data.frame(x1, y1)

#Creating second time series

- > x2 <- 1:10
- > y2 <- rnorm(10)
- > time2 <- data.frame(x2, y2)</p>

#Creating third time series

- > x3 <- 1:10
- > y3 <- rnorm(10)
- > time3 <- data.frame(x3, y3)
- iii. Plot the created three time series using ggplot function and geom_line function.
 - > ggplot (time1, aes(x1, y1)) + geom_line (color = "red") + geom_line (aes(x2, y2), color = "blue") + geom_line (aes(x3, y3), color = "green") + xlab ("Time") + ylab ("Rate")

