MANAV RACHNA UNIVERSITY, FARIDABAD
Department of Computer Science & Technology

Course: B. Tech   **Semester: VI**
                                                                                                    Subject: R Programming

BT Level Covered: BT1, BT2, BT3
BT1- Knowledge; BT2-Comprehension; BT3-Applications
Course Outcome (CO): CO1: Define the basics of R programming concepts
and Business Analytics

Workshop/Lab: 1

1. **Introduction to R: A brief discussion**
    a) History
    b) Features
    c) Industrial uses

2. **Installation of R software:**
    a) **To Install R and R Packages:**
        i.   Open an internet browser and go to www.r-project.org.
        ii.   Click the "download R" link in the middle of the page under "Getting
        iii. Started."
        iv.   Select a CRAN location (a mirror site) and click the corresponding link.
        v.   Click on the "Download R for WINDOWS" link at the top of the page.
        vi.   Click on the file containing the latest version of R under "Files."
        vii. Save the .pkg file, double-click it to open, and follow the installation
        viii. instructions.
        ix.   Now that R is installed, you need to download and install RStudio**.**

    b) **To Install RStudio:**
        i.   Go to www.rstudio.com and click on the "Download RStudio" button.
        ii.   Click on "Download RStudio Desktop"
        iii. Click on the version recommended for your system, or the latest Mac
              version, save the .dmg file on your computer, double-click it to open,
              and then drag and drop it to your applications folder.

3. **Saving your work:**
    i.   Go to New file in R studio
    ii.   Create test1.R file
    iii. Perform basic syntax in R:
          (a) print ("Hello, World!")
          (b) Basics mathematics calculations:
              2+2; 44/2; 88*2
    iv.   Save your work and file & Run.