

Department of Statistics, St. Thomas College Palai

**Vocational Training in
STATISTICAL COMPUTING USING R**

Resource Person: Dr. K M Kurian
Associate Professor

Target Group: Students of MSc Statistics

Syllabus

Objectives: Students are expected to learn the basics in R programming

Module I: Introduction to statistical software R, Data objects in R, Manipulating vectors, matrices, lists, importing of files, data frame, and computations of descriptive statistics measures.

Module II: R-Graphics- Histogram, Box-plot, Stem and leaf plot, Scatter plot, Plot options;

Module III: Multiple plots in a single graphic window, frequency table,

Module IV: Controlling Loops- For, repeat, while, if , if else etc, lm and glm functions. Analysis of variance using lm function.