Sree Krishna College Guruvayur

Dept. of Physics

Syllabus

Certificate Course on "Data Analysis and Plotting Softwares"

2024-25

Course Code : CERSKCPHY002/24

R (10 hrs)

- ❖ Introduction to R,
- ❖ Variables in R,
- ❖ Scalars, Vectors,
- ❖ Matrix,
- ❖ Reading CSV files,
- ❖ Arithmetic operations,
- ❖ Saving R files as word or PDF, Charts

SigmaPlot (10 hrs)

- ❖ About SigmaPlot,
- ❖ Graph Types and Styles,
- ❖ Graph Style Gallery and Templates,
- ❖ Using Toolbars, Viewing Toolbars,
- ❖ Positioning Toolbars, Graph Defaults,

- ❖ SigmaPlot 10.0 Worksheet,

- ❖ Regression Wizard, Transforms, Drawing Tools

Origin (10 hrs)

- ❖ Introduction,

- ❖ Origin File Types,

- ❖ Import Data,

- ❖ Data Selection,

- ❖ Workbooks Worksheets Columns,

- ❖ Graphing,

- ❖ Data Analysis, Curve Fitting

Total 30 hrs (Theory 10 hrs , Practicals 20 hrs)

Course Director: Dr. Rajesh.K.R, Head of the Dept. Physics,
                    Sree Krishna College Guruvayur

Course Co-ordinator: Dr. Devanarayanan V P, Assistant Professor in Physics,
                    Sree Krishna College Guruvayur