

## **Workshop on Introduction To R**

### **15th - 17th October 2019**

#### **About R Programming**

The R language is widely used among statisticians and data miners for developing statistical software and data analysis. R possesses an extensive catalog of statistical and graphical methods. It includes machine learning algorithm, linear regression, time series, statistical inference to name a few. It compiles and runs on UNIX platforms and other systems including Linux, Windows and macOS.

R is not only entrusted by academic, but many large companies also use R programming language, including Uber, Google, Airbnb, Facebook and so on.

#### **Why you should learn R Programming**

R is open-source and freely available. Unlike SAS or Matlab, you can freely install, use, update, clone, modify, redistribute and resell R. R is cross-platform compatible. R can be run on Windows, Mac OS X and Linux. It can also import data from Microsoft Excel, Microsoft Access, MySQL, SQLite, Oracle and other programs. R is a powerful scripting language. As such, R can handle large, complex data sets. R is also the best language to use for heavy, resource intensive simulations and it can be used on high performance computer clusters. With R language as a skill-set, one can find jobs such as Data Analyst, Data Scientist, Quantitative Analyst, Financial Analyst.

#### **Course Pedagogy**

This workshop is a judicious mix of classroom learning as well as hands on experience. Required material would be provided in soft copy. Students can carry their own laptops. Attendance is mandatory for all days. Certificate will be provided at the end of the workshop.

#### **Target Audience**

Under-Graduate, Post-Graduate students and research scholars from all academic streams.



# SYMBIOSIS CENTRE FOR MANAGEMENT STUDIES

## SYMBIOSIS INTERNATIONAL ( DEEMED UNIVERSITY ) , NOIDA

### Day Wise Schedule of the Course

Day 1	Introduction to R & Operators	Day 2	Loops and Conditions & Statistical analysis using R	Day 3	Statistical analysis using R & Graphs and Visualization
9:00 – 11:00	Installing R, R studio and R-packages & Data Types , Types of objects	9:00 – 11:00	If loop, While loop	9:00 – 11:00	Hypothesis testing (t-tests, F-test)
11:00 – 11:10	Tea	11:00 – 11:10	Tea	11:00 – 11:10	Tea
11:10 – 1:10	Vectors, Lists and Factors & Matrices and Data frames	11:10 – 1:10	Repeat until loop & For loop	11:10 – 1:10	Hypothesis testing (ANOVA)
1:10 – 1:40	Lunch	1:10 – 1:40	Lunch	1:10 – 1:40	Lunch
1:40 – 3:40	Vector operations and Matrix operations & Operations on data frames	1:40 – 3:40	Importing data in R, Exporting data from R	1:40 – 3:40	Linear Modelling
3:40 – 3:50	Tea	3:40 – 3:50	Tea	3:40 – 3:50	Tea
3:50 – 5:00	Operations on factors & Arithmetic operations and text operations	3:50 – 5:00	Descriptive statistics	3:50 – 5:00	Univariate plots, Multivariate plots & Formatting plots

**Course Fee** - 5,500 ( Inclusive of GST ) , Fee includes workshop kit , lunch and tea for all days.  
(Batch Size - 35)

### Details for Online Bank Transfer

A/C Holder Name	Type of Account	Bank Name	Bank Address	Bank A/C No	IFSC Code
SCMS Receipt A/C	Saving Account	Bank of India	Sector 62, Noida	712210210000013	BKID0007122

### Important Dates

Last date for Registration :- 13th October 2019

Last date for Fee Payment :- 13th October 2019

**Registration Link** - <https://forms.gle/QwynZuoPxZbd7s1GA>



**SYMBIOSIS CENTRE FOR MANAGEMENT STUDIES**  
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LOCATION

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