



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY)

ACCREDITED WITH "A" GRADE BY NAAC

APPROVED BY AICTE

SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOTECHNOLOGY

*Organizes value added course
on*

“R Programming”

DATE: 21st Jan 2019 – 8th Feb 2019 (15 working Days)

TIME: 3.00 pm to 5.00 pm

RESOURCE PERSONS

Dr. Alex Anand,
Associate Professor,
Department of Bioinformatics and
Data Science,
Sathyabama Institute of Science
and Technology.

Dr. Ramesh Kumar,
Associate Professor,
Head, Department of Biotechnology,
Sathyabama Institute of Science and Technology

*ELIGIBLE STUDENTS- B. TECH
BIOTECHNOLOGY AND M. TECH
BIOTECHNOLOGY*



Attendance is mandatory for all classes

ORGANIZER

DR. MASILAMANI SELVAM

ASSISTANT PROFESSOR

DEPARTMENT OF BIOTECHNOLOGY

FOR REGISTRATION CONTACT: Dr. PRAKASH P - 9840522688



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY)
ACCREDITED WITH "A" GRADE BY NAAC
APPROVED BY AICTE



SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOTECHNOLOGY

*Organizes value added course
on*

“R Programming”

OBJECTIVES

- This course objective is to provide a practical introduction to the R programming language.
- Explore and understand how to use the R documentation.

COURSE CONTENT

TOTAL: 30 HRS

Module 1: The R Statistical Programming Language, The RStudio Integrated development environment (IDE)	6 Hrs
Module 2: Data importation methods, Basic R Data Types	6 Hrs
Module 3: Data processing and manipulation techniques.	6 Hrs
Module 4: External add-in packages for R, Summary statistic functions	6 Hrs
Module 5: Data visualizations using ggplot, Error types.	6 Hrs

OUTCOMES

By the end of this course, Students be able to:

- Download and install R and RStudio
- Navigate and optimize the R integrated development environment (IDE) RStudio
- Install and load add-in packages
- Import external data into R for data processing and statistical analysis



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY (DEEMED TO BE UNIVERSITY)
ACCREDITED WITH "A" GRADE BY NAAC
APPROVED BY AICTE

SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to certify that, Mr./Ms./Mrs. **Alka Ashok**, a Mtech Biotechnology Student of Sathyabama Institute of Science and Technology, has successfully completed value added course on **R PROGRAMMING** organized by the Department of Biotechnology, Sathyabama Institute of Science and Technology from 21st Jan 2019 - 8th Feb 2019

DR. RAMESH KUMAR,
HEAD OF THE DEPARTMENT
DEPARTMENT OF BIOTECHNOLOGY
SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY

DR. ALEX ANAND,
ASSOCIATE PROFESSOR,
DEPARTMENT OF BIOINFORMATICS AND DATA SCIENCE,
SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY.