



# SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.)

(Accredited by NAAC with 'A' Grade)

(ISO 9001-2015 & 14001-2015 Certified)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057.

## Department of Biotechnology

Academic Year: 2023-2024

### Certificate Course – R Programming for Biotechnologists Post Event Report

*Type of event/activity	Certificate Course
Name/Title of the Activity/Event	<b>R Programming for Biotechnologists</b>
Date of Organization	18 <sup>th</sup> December 2023 to 22 December 2023
Venue	Computer lab
Resource Person	<p><b>Dr Vishwanathan</b> Senior Scientific Officer, Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore</p> <p><b>Ms. Padhmeni Priya</b> Mediomix Diagnosis and Bioresearch Pvt, Ltd. Bangalore</p> <p><b>Ms. Shilpa</b> Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore</p> <p><b>Ms. Pooja Singh</b> Quality Data Operations and Management, Genisys Group</p>
Objectives of the event/activity	The objective of this module to make students exercise the fundamentals of statistical analysis in R environment. They would be able to analysis data for the purpose of exploration using Descriptive and Inferential Statistics. Students will understand Probability and Sampling Distributions and learn the creative application of Linear Regression in multivariate context for predictive purpose
Participants	BT Students
Organized By	Dr Soumya C Assistant Professor, Biotechnology Department

Principal

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## Department of Biotechnology

Academic Year: 2023-2024

### Event Description:

Course was conducted with title of "R Programming for Biotechnologists." The following module comprises of R programming basics and application of several Statistical Techniques using it. The module aims to provide exposure in terms of Statistical Analysis, Hypothesis Testing, Regression and Correlation using R programming language. To develop an advance innovation and growth mindset form of problem identification For all the Students of Department of Biotechnology, Sapthagiri College of Engineering, Bangalore on 18<sup>th</sup> December 2023 to 22<sup>nd</sup> December 2023.

### Syllabus and Schedule of the certification program

Date	Time	Topics
18/12/2023	8:30 AM – 4.30 PM	Introduction to R Programming language, Fundamentals
19/12/2023	8:30 AM – 4.30 PM	Variables, Scope, Input and Output, Data types
20/12/2023	8:30 AM – 4.30 PM	Data Structure
21/12/2023	8:30 AM – 4.30 PM	Vectors
22/12/2023	8:30 AM – 4.30 PM	Matrices, Application

### Brochure



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14/5, Chikkasandra, Hesarghatta Main Road, Bengaluru-560057  
**DEPARTMENT OF BIOTECHNOLOGY**  
The Institute of Engineers (India) Student Chapter



## FIVE DAYS CERTIFICATE COURSE ON

## R PROGRAMMING

By

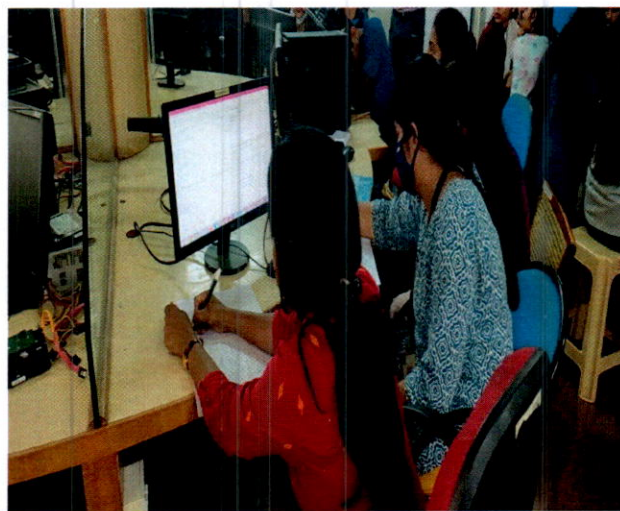
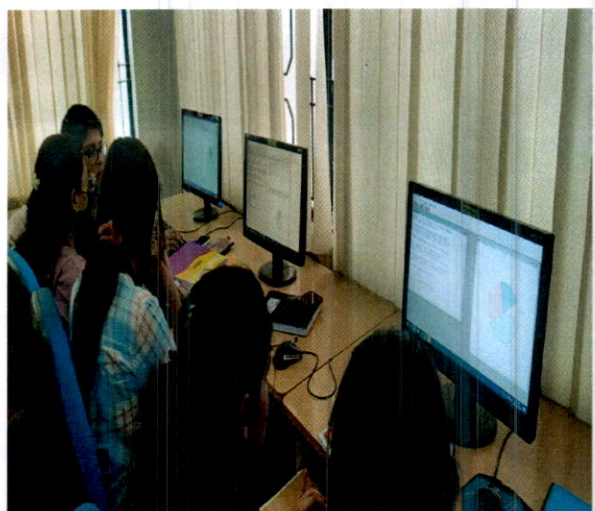
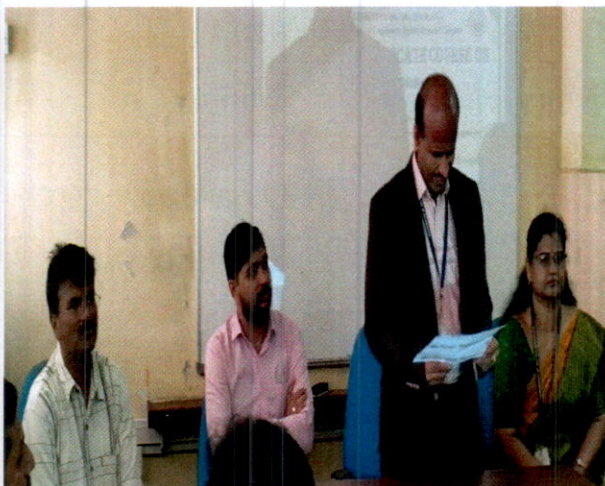
**Dr. Vishwanathan**, Senior Scientific Officer  
Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore  
**Ms. Padhmeni Priya**  
Mediomix Diagnosis and Bioresearch Pvt. Ltd. Bangalore  
**Ms. Shilpa**  
Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore  
**Ms. Pooja Singh**  
Quality Data Operations and Management, Genisys Group  
Shri. G Dayanand  
Chairman, SCE  
Shri. G D Manoj  
Managing Director, SCE

**Dr. Chaitra B S** IEI Convener  
**Dr. Soumya C** Faculty Coordinator  
**Dr. Veena S More** HOD, BT  
**Dr. H Ramakrishna** Principal

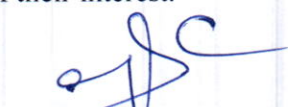
  
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**Images**



Conclusion: A program of education resulting in a certificate of completion rather than a degree. These programs prepare students to complete a specific task or allow them proficiency in one of the particular aspect of their field. Students were benefit with programming skills .Students pursues certificates in order to get ahead in the professional field of their interest.

  
**Coordinator**

  
**Head of the Department**  
Dept. of Bio -Technology  
Sapthagiri College of Engineering  
No. 57/1, Chikkasandra  
Hesaraghatta Main Road  
Bangalore -57

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

(NBA Accredited)

### Certificate Course Report

Department of mechanical Engineering conducted Certificate Course on Solid Works .

**GuestSpeaker:** Prof. AnillKumar, AsstProfessor , SCE Bengaluru


**Duration of the course:** five days from 20/11/2023 to 24/11/2023

#### Course detail

**Objective of the Course:** The five day course made the students to be familiar with the Solid Works which is a main platform for their career. Certificate Course became the vital step to improve the knowledge of students

Certificate course made them comfortable with the Knowledge on engineering management. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Faculty took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side.

Dates	SESSION 1 (9.00 am-12.00 pm)	SESSION 2 (1.00 pm- 4.00 pm)
20/11/2023 Monday	Drafting and Drawing	2D Sketch Modeling
21/11/2023 Tuesday	3D Modeling drawing	3D Modeling drawing
22/11/2023 Wednesday	Assembly drawing	Assembly drawing

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

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23/11/2023 Thursday	Sheet Metal parts drawing	Sheet Metal parts drawing
24/11/2023 Friday	Advance Surface Modeling	Advance Surface Modeling

**Conclusion:** The optimistic learning environment prompted motivation in the learning of the students. They felt bonhomie after the course they took. A sense of satisfaction was also seen. Faculty members were also equally benefited with the course. They felt more expedient while delivering the lectures as the margin was erased between these students and others. A structured environment was created. This helped in the smooth flow of academic lesson plan by adhering to the timelines.

  
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