



**Scan for Registration**



# 7-Days Faculty Development Programme (FDP-Online Mode) on

# Statistical Computing and Data Analysis using R Language (Phase-I)

**Organised by:**

**Dept. of Statistics, Bahona College**

**In Collaboration with:**

NIELIT, Jorhat Extension Center of Guwahati

**In Association with:**

IQAC, Bahona College and Bahona College Library

**Date:**  
15<sup>th</sup> Sept - 21<sup>st</sup> Sept  
2025

**Time:** 3:00 PM Onwards

**Registration Fees**

**RS. 500/-**

**Patron**

Dr. Sumbit Chaliha  
Principal, Bahona College

Sh. Manab Kalita  
Scientist-F / ECIC  
NIELIT Jorhat EC

**Convenor**

Dr. Shyamali Dutta  
Dr. Pankaj Bora  
Dr. Tousifur Rahman

**Coordinator**

Dr. Anupam Chanda  
Dr. Dimpal Pathak  
Mr. Jyotirmoy Deka

**Contact us: 7002155940/7002039631**

**7-Days Faculty Development Program  
on  
Statistical Computing and Data Analysis using R Programming**

**Organized by  
Department of Statistics, Bahona College, Bahona, Jorhat, Assam  
In collaboration with**

**National Institute of Electronics & Information Technology, (NIELIT) Jorhat  
Date- 15-09-2025 to 21-09-2025**

Day	Date	Time	CONTENTS
1	15-09-2025 Monday	3.00 PM – 5.00 PM	<p><b>Inaugural Session program, Introductory speech by dignitaries</b></p> <p><b>Introduction to Statistical Computing and Data Analysis</b></p> <ul style="list-style-type: none"> <li>• Introduction and History of statistical computing</li> <li>• Introduction and Importance of data analysis</li> <li>• Brief history of R programming and applications</li> <li>• Installation of R studio</li> </ul>
2	16-09-2025 Tuesday	3.00 PM- 5.00 PM	<p><b>Basics of R programming</b></p> <ul style="list-style-type: none"> <li>• Basic of R (Variables and Data Structures)</li> <li>• Operators and Conditional Statements</li> <li>• Subsetting and indexing techniques</li> <li>• Strings in R and Functions</li> <li>• Lops in R</li> <li>• Hands-on exercise</li> </ul>
3	17-09-2025 Wednesday	3.00 PM- 5.00 PM	<p><b>File Handling in R</b></p> <ul style="list-style-type: none"> <li>• Reading and writing data: CSV, Excel, etc.</li> </ul> <p><b>Data Visualizations In R</b></p> <ul style="list-style-type: none"> <li>• Barplot, Pieplot, Scatterplot, Histogram, Scatter matrix, Boxplot etc.</li> <li>• Hands-on exercise</li> </ul>
4	18-09-2025 Thursday	3.00 PM- 5.00 PM	<p><b>Statistics for machine learning</b></p> <ul style="list-style-type: none"> <li>• Summary Statistics</li> <li>• Correlation and regression</li> <li>• Probability distribution</li> </ul> <p><b>Types of Data</b></p> <ul style="list-style-type: none"> <li>• Structured, Semi-structured, Unstructured</li> </ul>
5	19-09-2025 Friday	3.00 PM- 5.00 PM	<p><b>Data Manipulation</b></p> <ul style="list-style-type: none"> <li>• Introduction to dplyr for data manipulation</li> <li>• Hands-on with select, filter, mutate, arrange, summarize</li> </ul> <p><b>Data Wrangling &amp; Cleaning</b></p> <ul style="list-style-type: none"> <li>• Handling missing data: na.omit, is.na, tidyr::replace_na</li> <li>• Data transformation with tidyr: gather, spread, unite, separate</li> </ul>
6	20-09-2025 Saturday	3.00 PM- 5.00 PM	<ul style="list-style-type: none"> <li>• Hypothesis testing:</li> <li>• t-tests: one-sample, two-sample</li> <li>• Chi-square test</li> <li>• ANOVA and post-hoc tests</li> </ul>
7	21-09-2025 Sunday	3.00 PM- 5.00 PM	<ul style="list-style-type: none"> <li>• Basics of Machine Learning</li> <li>• Its types and R programming as a toll for ML</li> <li>• Offer final thoughts and closing remarks.</li> </ul>

**\*\*\* Another Faculty Development Program on “Artificial Intelligence using R programming”  
will be conducted later as Phase 2 of this FDP series. Thank you\*\*\***

## **About Bahona College**

Bahona College is a premier institution of higher education located in a rural environment. The college was established in 1966, to cater to the needs of higher education as well as to alleviate the socio-economic conditions of the larger locality within which it is located. Numerous distinguished educationists and social workers had taken the initiative in the establishment of the college to open up new vistas of a brighter future for the generations to come. The college offers courses of study in Arts and Science Streams at Higher Secondary and Undergraduate level and also ITEP BA/BSc courses. It has Distance Education Programmes under Dibrugarh University, KKHSOU and ASOS from Higher Secondary to Master Degree Level. Bahona College unequivocally occupies the place of pride among the institution of higher education affiliated to the Dibrugarh University.

## **About NIELIT Jorhat EC**

The NIELIT Jorhat Extension Centre is now operational at its own permanent campus in land provided by the Govt. of Assam in Rowriah, Jorhat, Assam. The Extension Centre was established and is operational since August'2013 in the **Knowledge City Jorhat** of Assam, which is also cultural hub of Assam. NIELIT Jorhat Extension Centre whose mandate is to provide up-to-date industry relevant training programs in the areas of Information, Electronics and Communication Technology (IECT) in the non-formal sector will start operating from it's own in near future. With state-of-the-art infrastructure and equipments, Jorhat Extension Centre of NIELIT-Guahati is one of the most renowned training centres in the whole of upper Assam.

## **About Bahona College Library**

Bahona College Central Library is fully automated with Koha ILMS and barcode technology. It has 36000+ printed books and subscriptions to 4 printed journals, 7newspapers, and 9 magazines. The library is open from 10:00 AM to 4:00 PM on all working days. The library has access to ONOS (One Nation One Subscription) database.

## **Payment Details (Rs. 500 Only)**

**Bank Name: Assam Gramin Vikash Bank**

**Account Holder Name: M/S Statistics Society Bahona College**

**Account No.: 7197010066404**

**IFSC: PUNB0RRBAGB**

**Branch: Bahona**

**N.B: *After successful payment, take a screenshot of the transaction and upload the screenshot while filling up the registration form.***

### ***Registration Link:***

**[https://docs.google.com/forms/d/e/1FAIpQLScdh\\_Yu0zBiMdhXy9TbeBZHOiGwOIuqCA5qE1f4VqxIfjPxZw/viewform?usp=preview](https://docs.google.com/forms/d/e/1FAIpQLScdh_Yu0zBiMdhXy9TbeBZHOiGwOIuqCA5qE1f4VqxIfjPxZw/viewform?usp=preview)**

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