



**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



Scan for Registration

Date:

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

***** 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-Guwahati 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, 7 newspapers, 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_Yu0zBiMdhXy9TbeBZH0iGwOIuqCA5qEI_f4VqxIfjPxZw/viewform?usp=preview

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