



RABINDRANATH TAGORE UNIVERSITY

ববীন্দ্রনাথ ঠাকুর বিশ্ববিদ্যালয়

HOJAI, ASSAM



গড়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE

One Week FDP on Data Analysis Using 'R'

Date: 23rd to 27th December 2023

Organized by
**Department of Commerce & IQAC,
Rabindranath Tagore University**

In Collaboration with
IQAC, Gargaon College,



Brochure

RABINDRANATH TAGORE UNIVERSITY

In Collaboration with

GARGAON COLLEGE

ONE WEEK FDP ON DATA ANALYSIS USING R (BASIC, ONLINE)

The role of data analysis in research cannot be overstated, as it serves as the foundation for informed decision-making and scholarly advancement. In today's academic landscape, the extraction, interpretation, and utilization of data are pivotal in shaping the trajectory of research outcomes across diverse domains. Through meticulous analysis, researchers gain insights, identify patterns, and draw conclusions that substantiate their hypotheses or theories.

Among the multitude of statistical programming tools available, R stands out as an indispensable asset in research endeavors. Its versatility, extensive range of statistical functions, and open-source nature make it a preferred choice for data manipulation, visualization, and complex modeling. R empowers researchers to delve deep into data, facilitating advanced analyses and enabling the presentation of findings in a comprehensible manner.

As the Faculty Development Program welcomes participants from varied fields, understanding the significance of data analysis, particularly through tools like R, can foster enhanced research methodologies and outcomes, enriching the academic landscape across disciplines.



DATE: 23RD-27TH DEC 2023
TIME: 07:00 PM TO 09:00 PM

MODE: ZOOM PLATFORM



RESOURCE PERSON
Dr. Arpita Basak
Assistant Professor
Dept. of Statistics
Gauhati University, Assam

PROGRAM CO-ORDINATOR
DR.MRINAL GHOSH (9101038993)
MISS. ANKICA DUTTA (9954272431)

ASSISTANT CO-ORDINATOR
DR. GARGI SARMA (9508640496)
MR. GAUTOM HAZARIKA (9101229718)

Technical Co-Ordinator
Mr. Indrajit Mazumder



RABINDRANATH TAGORE UNIVERSITY: AT A GLANCE

Rabindranath Tagore University, Hojai, came into existence as a result of upgrading of Hojai College as per ASSAM ACT NO. XXXIV of 2017. This newly founded university has successfully completed four years and is making rapid progress in affirming its role as a premiere university in the state, thanks to the unwavering determination of the RTU community. The dedicated faculty members and staff are carrying out their responsibilities with utmost sincerity. The students' enthusiasm for learning and active participation in academic and extracurricular activities contribute to the overall excellence of the institution. The University aims for national and global eminence, fostering an environment nurturing societal, intellectual, and cultural development.

ONE WEEK FDP ON DATA ANALYSIS USING R (BASIC, ONLINE)

ORGANISED BY

DEPARTMENT OF COMMERCE AND IQAC, RABINDRANATH TAGORE UNIVERSITY

In Collaboration with

IQAC, GARGAON COLLEGE

Registration Link

<https://forms.gle/PJaCWkpGe75ct2qA7>

You Can Also Scan the Alongside QR for Registration Link



Payment Information

FDP Fees: Rs 800 Only.
Account Name: Rabindranath Tagore University
Branch: SBI, Hojai Branch
A/C No: 38560758714
IFSC Code: SBIN0002065

UPI ID: 9435318050@SBI

The Zoom Link of the FDP will be shared in the WhatsApp Group.



GARGAON COLLEGE: AT A GLANCE

Established in 1959, Gargaon College in Assam stands as a prestigious institution committed to higher education excellence. Driven by its founder Principal, Dr Harendra Nath Phukan, the college has strived for learner development and societal progress. Affiliated with Dibrugarh University, it attained government support in 1966 and provincialization under Tanu Konger's leadership. The college's dedication to quality education led to the addition of diverse courses and vocational programs, complemented by career guidance initiatives. Continuously adapting, it enhances its educational approach and infrastructure, reflected in NAAC accreditations in 2004, 2010, and 2019. Notably, the college shoulders the responsibility of uplifting its students from the region's socio-economic challenges, aiming to shape them into exemplary contributors to society's advancement.



Brochure

Program Schedule:

All 5 Days	TOPICS TO BE COVERED
Day 1	<ul style="list-style-type: none">✓ Installation of R,✓ Introduction to the Basic Structure of R,✓ Data Types, Data Entry, and Variables,✓ Hands-On-Practice.
Day 2	<ul style="list-style-type: none">✓ Data Structure (Vector, Data Frames)✓ Importing Data✓ Working on Sample Data Set✓ Hands-On-Practice
Day 3	<ul style="list-style-type: none">✓ Data Entry to Validation, Data Transformation, Manipulation & Cleaning✓ Descriptive Statistics and Graphical Representation of Data (Bar Diagram, Pie Diagram, Line Diagram)✓ Hands-On-Practice
Day 4	<ul style="list-style-type: none">✓ Introduction to Statistical Tests in R (T Test, Paired T Test, ANOVA, Chi-Square Test)✓ Correlation✓ Linear Regression Analysis✓ Hands-On-Practice
Day 5	<ul style="list-style-type: none">✓ Logistic Regression Analysis✓ Principal Component Analysis (PCA)✓ Hands-On-Practice

After the End of the Program the Participants Will Learn:

As the program progresses, participants will explore essential data structures like vectors and data frames, learning to import and work with datasets effectively. Hands-on sessions will solidify their grasp on data entry, validation, transformation, and cleaning, indispensable skills in real-world data analysis scenarios. Emphasis will be placed on descriptive statistics and various graphical representations such as bar diagrams, pie diagrams, and line diagrams, enabling participants to visually communicate and interpret data insights.

Moreover, participants will delve into statistical tests integral to data analysis, including T-tests, Paired T-tests, ANOVA, and Chi-Square tests. They will explore correlation and delve into linear regression analysis, understanding predictive modelling using data relationships. Moving further, the program will cover logistic regression analysis, offering insights into binary outcomes, and principal component analysis (PCA), aiding in dimensionality reduction and data interpretation.

By the culmination of the FDP, participants will emerge equipped with a multifaceted skill set in R, capable of proficiently handling data, performing statistical analyses, conducting regression analyses, and employing advanced techniques like PCA. The combination of theoretical learning and practical application through hands-on exercises ensures that participants can confidently navigate R's functionalities, empowering them to apply their knowledge effectively in academic research or professional settings, thereby enhancing their data analysis capabilities significantly.

THANK YOU



BRIEF REPORT:

Resource Person

Dr. Arpita Basak, Assistant Professor in Statistics at Gauhati University

The "One Week FDP on Data Analysis Using R," a collaborative effort between the Department of Commerce & IQAC, Rabindranath Tagore University and IQAC, Gargaon College, was successfully organized from 23rd to 27th December 2023.

The event commenced with an inaugural address by the esteemed Academic Registrar, Rabindranath Tagore University, Dr. Amar Gautam, highlighting the significance of inferential research. Dr. Sabyasachi Mahanta, the honourable principal of Gargaon College, delivered a detailed welcome address, emphasizing the role of open-access software in research. Dr. Utpal Phukan, IQAC Director at Rabindranath Tagore University, underscored the importance of such FDPs in fostering a conducive research environment through institutional collaborations.

Dr. Arpita Basak, Assistant Professor in Statistics at Gauhati University, was the resource person, elucidating the fundamental functions of the R program. The feedback from participating students was notably positive, indicating the program's success and providing valuable insights for future improvements. Co-ordinators.

Dr. Mrinal Ghosh and Miss Ankika Dutta, along with Assistant Co-ordinators Dr. Gargi Sarma and Mr. Gautom Hazarika, ensured the smooth execution of the program. Additionally, the technical coordination was efficiently handled by Mr. Indrajit Mazumder and Dr. Dimbeshwar Das.

The event culminated on a positive note, with participants gaining comprehensive insights into data analysis using R. The collaborative effort between these institutions not only enriched the learning experience but also laid the groundwork for future endeavor in advancing research methodologie in advancing research methodologies.



List of Participants


Name	Designation	Name of the Organization
Mrs. Bondita Borbora	Assistant Professor	Dudhnoi College
Dr. Pimily Langthasa	Assistant Professor	Gargaon College
Mr Bedanta Tamuly	Assistant Professor	Morigaon College
Mr. Ankit Biswas	Assistant Professor	Lala Rural College, Lala
Miss Mrinali Pegu	Assistant Professor	Lakhimpur Commerce College
Mr. Partha Pratim Gogoi	Assistant Professor	Dimoria College, Khetri
Miss Tamalika Sikder	Assistant Professor	Gauhati Commerce College
Ms. Suman Saikia	Assistant Professor	Pragjyotish College
Miss Purobi Jarampusa	Assistant Professor	Lakhimpur commerce college
Dr. Rathin Sarma	Assistant Professor	Rabindranath Tagore University
Mr. Saurav Chakravarty	Assistant Professor	Lakhimpur Commerce College
Miss Manisha Das	Assistant Professor	Murkong Selek College
Mrinmoy Sandilya	Researcher	Pathway Communications
Dr. Sangeeta Deka	Assistant Professor	Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya
Dr. Rashmi Dutta	Assistant Professor	Gargaon College, Sivasagar, Assam
Miss Chayanika Borah	Assistant Professor	RTU
Dr. Champa Devi	Assistant Professor	The Assam Royal Global University
Dr Madhurjya Mohan Chetia	Assistant Professor	Department of Sociology, Rajiv Gandhi University
Miss Karjum Riba	Researcher	Rajiv Gandhi University, Doimukh, Arunachal Pradesh
Miss Anjana Baruah	Researcher	Rabindranath Tagore University, Hojai
Mr. Akash Moran	Researcher	Rajiv Gandhi University, Rono hills Arunachal Pradesh
Gaurav Das.	Researcher	Mizoram University.
Miss Renuprava Sonowal	Assistant Professor	Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya
Dr. Lakhinanda Bordoloi	Assistant Professor	Dhing College
Mr. Jyotish Engti	Assistant Professor	Panigaon Om Prakash Dinodia College
Dr Snigdha Mahanta	Associate Professor	Dhing college
Gitanjali Goswami	Associate Professor	Dhing college
Mr. Pema Dorjee Sharjo	Researcher	Rajiv Gandhi University
Nafisa Ahmed	Assistant Professor	Rupahi College Nagaon
Mr Alok Regon	Assistant Professor	Lala Rural College
Abul Bashar Ahmed	Associate Professor	Kharupetia College
Dr. Dijamani Sarmah	Assistant Professor	Rabindranath Tagore University, Hojai
Dr. Prem Sagar Prasad	Associate Professor	Rabindranath Tagore University, Hojai
Mr. Abdul Hannan	Associate Professor	KHARUPETIA COLLEGE
Miss Mayuri Hazarika	Researcher	Dibrugarh University
Miss Priyadarshani Baruah	Assistant Professor	Darrang College
Dr Nur Jaman	Associate Professor	Kharupetia College
Mr. Arabinda Medhi	Assistant Professor	Lumding College
Miss Panchi Haloi	Researcher	Department of Economics, Assam University
Mr. Lohit Ch. Baishya	Assistant Professor	Rangapara College
Mr. Jyotish Saharia	Associate Professor	Kharupetia College
Dr. Pallabita Das	Assistant Professor	Rabindranath Tagore University. Hojai
Dr. Tashi Dorjee Megeji	Assistant Professor	Govt. College Bomdila
Mr. Subrat Kakati	Assistant Professor	Nabajyoti College, Kalgachia
Mr. Khirod kalita	Assistant Professor	Bhawanipur Anchalik College
Dr. Barnali Hazarika	Assistant Professor	Rabindranath Tagore University



গড়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE

Sample Certificate

Rabindranath Tagore University and Gargaon College Rabindranath Tagore University and Gargaon College

 **RABINDRANATH TAGORE UNIVERSITY** 
GARGAON COLLEGE

CERTIFICATE OF PARTICIPATION

proudly presented to

Mrs. Bhagyalakhi Gogoi
Assistant Professor at Women's College, Tinsukia

For Participation in the "One Week FDP on Data Analysis Using R"
Dated: 23rd Dec-27th Dec, 2023

Organized by
Department of Commerce & IQAC, Rabindranath Tagore University, Hojai and
IQAC Gargaon College, Simaluguri, Assam

Dr. Amalendu Chakraborty Dr. Sabyasachi Mahanta Dr. Mrinal Ghosh Miss. Ankika Dutta
Vice Chancellor, RTU Principal, Gargaon College Co-Ordinator Co-Ordinator

Rabindranath Tagore University and Gargaon College Rabindranath Tagore University and Gargaon College



Media Coverage



Garhaon College organised Weeklong Faculty Development Program

Khairuddin Ahmed Sibsagar, Dec 28: One Week FDP on Data Analysis Using R The "One Week FDP on Data Analysis Using R," a collaborative effort between the Department of Commerce & IQAC, Rabindranath Tagore University and IQAC, Gargaon College, was successfully organized from 23rd to 27th December 2023. The event commenced with an inaugural address by the esteemed Academic Registrar, Rabindranath Tagore University, Dr. Amar Gautam, highlighting the significance of inferential research. Dr. Sabyasachi Mahanta, the honourable principal of Gargaon College, delivered a detailed

welcome address, emphasizing the role of open-access software in research. Dr. Utpal Phukan, IQAC Director at Rabindranath Tagore University, underscored the importance of such FDPs in fostering a conducive research environment through institutional collaborations.

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Media Coverage

তথ্য বিশ্লেষণৰ ওপৰত এফডিপি

আমাৰ খবৰ, হোজাই, ২ জানুৱাৰী :
ববীন্দ্রনাথ ঠাকুৰ বিশ্ববিদ্যালয়ৰ
বাণিজ্য আৰু আইকিউএচি বিভাগ
আৰু গড়গাঁও মহাবিদ্যালয়ৰ
আইকিউএচিৰ সহযোগিতাত যোৱা
২৩ ডিচেম্বৰৰ পৰা ২৭ ডিচেম্বৰলৈ
এফডিপি অন ডাটা এনলাইছিছ
ইউজিং আৰ সফলতাৰে আয়োজন
কৰা হয়। ববীন্দ্রনাথ ঠাকুৰ
বিশ্ববিদ্যালয়ৰ একাডেমিক পঞ্জীয়ক
ড° অমৰ গৌতমে আনুমানিক
গৱেষণাৰ তাৎপৰ্যৰ ওপৰত
আলোকপাত কৰে। গড়গাঁও
মহাবিদ্যালয়ৰ অধ্যক্ষ ড° সব্যসাচী
মহন্তই গৱেষণাত মুক্ত প্ৰবেশৰ
ছফটৱেৰৰ ভূমিকাক গুৰুত্ব আৰোপ
কৰি আদৰণি ভাষণ প্ৰদান কৰে।
ববীন্দ্রনাথ ঠাকুৰ বিশ্ববিদ্যালয়ৰ
আইকিউএচিৰ সঞ্চালক ড° উৎপল
ফুকনে প্ৰতিষ্ঠানিক সহযোগিতাৰ
জৰিয়তে অনুকূল গৱেষণা পৰিবেশ
গঢ়ি তোলাৰ ক্ষেত্ৰত এনে এফডিপিৰ
গুৰুত্বৰ ওপৰত আলোকপাত কৰে।
গৌহাটী বিশ্ববিদ্যালয়ৰ পৰিসংখ্যা
বিজ্ঞানৰ সহকাৰী অধ্যাপিকা ড°
অৰ্পিতা বাছাকে সমল ব্যক্তি হিচাপে
উপস্থিত থাকি আৰু কাৰ্যসূচীৰ
মৌলিক কাৰ্যসমূহ স্পষ্ট কৰি দিয়ে।
অংশগ্ৰহণকাৰী ছাত্ৰ-ছাত্ৰীসকলে
ইতিবাচক মতামত আগবঢ়ায়।
সমন্বয়ক ড° মৃগাল ঘোষ আৰু
অংকিতা দত্তৰ লগতে সহকাৰী
সহযোগী ড° গাৰ্গী শৰ্মা আৰু গৌতম
হাজৰিকাই কাৰ্যসূচী সূচাৰূপে সম্পন্ন
হোৱাটো নিশ্চিত কৰে। ইয়াৰ উপৰি
কাৰিকৰী সমন্বয়ৰ কাম দক্ষতাৰে
চলুৱালিছিল ইন্দ্ৰজিৎ মজুমদাৰ আৰু
ড° ডিব্ৰুৱৰ দাসে।

গড়গাঁও

গড়গাঁও মহাবিদ্যালয়ত সপ্তাহজোৰা অনুঘদ উন্নয়ন কাৰ্যসূচী

আমাৰ অসম'ৰ শিৱসাগৰৰ
ষ্টাফ বিপ'ৰ্টাৰ, ২৮ ডিচেম্বৰ :
হোজাই জিলাৰ ববীন্দ্রনাথ ঠাকুৰ
বিশ্ববিদ্যালয়ৰ বাণিজ্য বিভাগ
তথা আভ্যন্তৰীণ মান নিৰূপণ
কোষ আৰু শিৱসাগৰৰ গড়গাঁও
মহাবিদ্যালয়ৰ আভ্যন্তৰীণ মান
নিৰূপণ কোষৰ প্ৰচেষ্টাত 'ৱান
ইউক এফডিপি অন ডাটা
এনলাইছিছ ইউজিং আৰ' শীৰ্ষক
অনুঘদ উন্নয়ন কাৰ্যসূচীৰ
সফলতাৰে সমাপ্ত হৈছে।
উল্লেখ্য, ২৩ ডিচেম্বৰ পৰা আৰম্ভ
হোৱা সপ্তাহজোৰা অনুষ্ঠানটোৰ
আৰম্ভণি দিনা ববীন্দ্রনাথ ঠাকুৰ
বিশ্ববিদ্যালয়ৰ সন্মানীয় শৈক্ষিক
পঞ্জীয়ক ড° অমৰ গৌতমে
উদ্বোধনী ভাষণত বিষয়টোৰ
তাৎপৰ্যৰ ওপৰত আলোকপাত
কৰে। গড়গাঁও মহাবিদ্যালয়ৰ
সন্মানীয় অধ্যক্ষ ড° সব্যসাচী
মহন্তই গৱেষণাত মুক্ত শৈক্ষিক
সমলৰ ভূমিকাক গুৰুত্ব আৰোপ
কৰি আদৰণী ভাষণ প্ৰদান
আগবঢ়ায়। ববীন্দ্রনাথ ঠাকুৰ
বিশ্ববিদ্যালয়ৰ আভ্যন্তৰীণ মান
নিৰূপণ কোষৰ সঞ্চালক ড°
উৎপল ফুকনে অসমৰ দুয়োটা
শৈক্ষিক প্ৰতিষ্ঠানৰ সহযোগিতাৰ
জৰিয়তে গৱেষণাৰ অনুকূল
পৰিবেশ গঢ়ি তোলাৰ ক্ষেত্ৰত
এনে এফডিপিৰ গুৰুত্বৰ ওপৰত
আলোকপাত কৰে। অনুষ্ঠানটোৰ
বিভিন্ন সত্ৰসমূহৰ ভিতৰত
গুৱাহাটী বিশ্ববিদ্যালয়ৰ
পৰিসংখ্যা বিজ্ঞানৰ সহকাৰী
অধ্যাপিকা ড° অৰ্পিতা বাছাকে
মূল বিষয়ৰ ওপৰত আলোকপাত
কৰি সকলোকে সমৃদ্ধ কৰি
তোলে। অসমৰ বিভিন্ন প্ৰান্তৰ
যথেষ্ট সংখ্যক শিক্ষক-গৱেষক,
ছাত্ৰ-ছাত্ৰীয়ে অংশগ্ৰহণ কৰা
অনুষ্ঠানটোৰ ইতিবাচক সামৰণিৰ
বাবে সমন্বয়ক ড° মৃগাল ঘোষ
আৰু অংকিতা দত্তৰ লগতে
সহযোগী ড° গাৰ্গী শৰ্মা, গৌতম
হাজৰিকা আৰু কাৰিকৰী
সমন্বয়ক ইন্দ্ৰজিৎ মজুমদাৰ আৰু
ড° ডিব্ৰুৱৰ দাসে সকলোকে
ধন্যবাদ জনায়।

