

College is recognized under Section 2(f) & 12(B) of the UGC Act, 1956

Affiliated to UNIVERSITY OF MUMBAI II NAAC Re-Accredited 'A' Grade (CGPA: 3.50)

25/03/2019

NOTICE

DEGREE COLLEGE

The Department of Statistics is organising a Value-Added Course in **Intermediate R Programming Using R Studio**. The value-added course will commence from April 2019. On successful completion of the course students will be awarded with a certificate.



Principal
PRINCIPAL
RAMNIRANJAN JHUN. HUMWALA COLLEGE
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)
Ghalkopar (W), Mumbai-400 086, Maharashtra, INDIA



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Department of Statistics
Value Added Course in
Intermediate R programming Using R Studio
Organized on
April 2019- May 2019



Hindi Vidya Prachar Samiti's R. J. College of Arts, Science and Commerce (RAMNIRANJAN JHUNJHUNWALA COLLEGE OF ARTS, SCIENCE AND COMMERCE)

(AUTONOMOUS)

DEPARTMENT OF STATISTICS organises

Value added course in

'Intermediate R Programming Using R Studio'



April 2019 to May 2019



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accredited
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Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA

2019: Star College Status by DBT



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BROCHURE





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Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA. Email: rjcollege@rjcollege.edu.in Tel No: +91 22 25151763 Fax No: +91 22 25150957 Website: www.rjcollege.edu.in

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CERTIFICATE COURSE IN DATA ANALYTICS USING R SOFTWARE



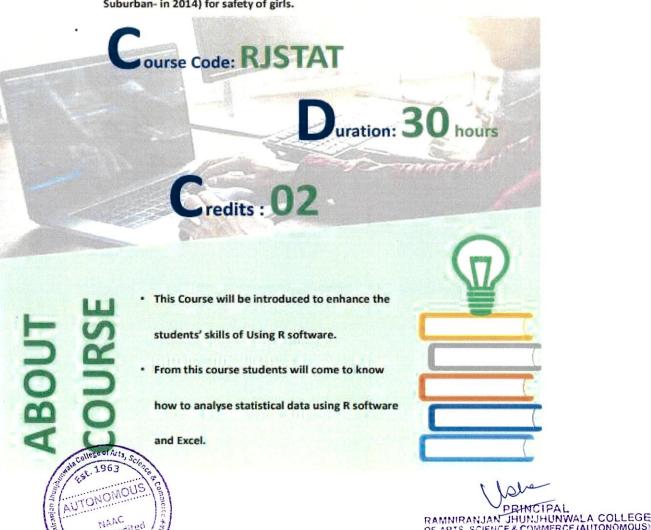
Hindi Vidya Prachar Samiti was incepted on the auspicious day of Shri Krishna Janmashtami, 15th August 1938. A brain child of a visionary Late Shri Nandkishore Singh Jairamji, samiti was established with the objectives of catering to the educational needs of the Hindi speaking community, Ramniranjan Jhunjhunwala College came into existence in 1963, enabling a larger section of the society to take advantage of the facilities provided for higher education.

From 1999-2000 the College has added a number of self-financing courses like B.M.S., B.B.I., B.Sc. in Computer Science, Information Technology, Biotechnology, M.Sc. in Computer Science, Biotechnology and Information Technology as well as add on courses, which further hone the special skills of the students.

The college has been reaccredited with 'A' Grade by NAAC in 2014 with a CGPA 3.50 and received the Best College Award (2007-2008) of the University of Mumbai. The College has been bestowed with IMC "Ramkrishna Bajaj Performance Excellence Trophy", 2010.

The Former Principal of the college was awarded "Best Teacher" by Government of Maharashtra in 2011.

Government of Maharashtra conferred the college with JAANIVANCHA" (First in Mumbai Suburban- in 2013 and Second in Mumbai Suburban- in 2014) for safety of girls.



2019: Star College Status by DBT 2008: Best Chege by Win ersity of Mumbai 2010: IMC RBNQ Award 'Performance Excellence' for the year 2009

OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS), Ghatkopar (W), Mumbai-400 086, Maharashtra, (NDIA)

Re-accredited

'A' Grade



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CERTIFICATE COURSE IN

DATA ANALYTICS USING R SOFTWARE

COURSE

Unit	Objectives	Suggested Activities	Duration	Mode of Assessment
1	Understanding the R work- space and how to write R commands to solve statistical problems.	Lectures Assignment Library work	2 Hours 3 Hours 2 Hours	Quiz (20 Minutes)
11	Writing codes to find different types of central tendency and dispersions in R software and Excel.	Lectures Assignment Library work	2 Hours 3 Hours 2 Hours	Quiz (20 Minutes
m	Visualize the data and analyze it using correlation and regression in R software	Lectures Assignment Library work	2 Hours 3 Hours 2 Hours	Quiz (20 Minutes
IV	Understanding how to write codes for different probability distributions in R.	Lectures Assignment Library work	2 Hours 3 Hours 2 Hours	Quiz (20 Minutes)

COURSE CONTENT

Unit

R Fundamentals: Introduction to the interface (R/ R Studio): Basic Functionalities: Type of vectors, Data Exploration using R, Reading Data into R, Subsetting, Matrices & Data Frames. Diagrammatic Representation - Bar Diagrams – Subdivided, Multiple, Percentage, Pie Charts, Stem & Leaf, Box-plot. Frequency distributions- preparation of freq. distribution table, graphical representation, histogram (grouped ungrouped), polygon, ogives, empirical distribution.

Using R software :-

Unit

Measures of central tendency and dispersion – Mean(Arithmetic Mean, Geometric Mean, Harmonic Mean), Median, Mode, Quantiles (for grouped and ungrouped data), Mean deviation, Quartile deviation, Standard deviation, Skewness, Kurtosis.

Simple Random Sampling (WR and WOR), Estimation of sample size, Stratified and Systematic Sampling.

Using R software :-

Scatter Diagram, Product Moment correlation and its properties.

Unit

Spearman's Rank Correlation'

Concept of linear regression. Fitting a straight line by method of least square. Relation between regression coefficients and correlation coefficient. Concept and use of coefficient of determination R².

Using R software :-

Some standard discrete distributions:

Unit

Discrete Uniform, Binomial, Poisson and Hypergeometric distribution.

Recurrence relation for probabilities of Binomial and Poisson distribution

Recurrence relation for probabilities of Binomial and Poisson distribution.

Some standard continuous distribution:

Uniform, Exponential, memory less property of exponential distribution.

Normal and Standard Normal distribution. Properties of Normal and SNV.

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of Mumbai 2010: IMC RBNQ Award 'Performance Excellence' for the year 2009 by Government of Maharashtra 2013: DST-FIST 2014: DBT STAR College

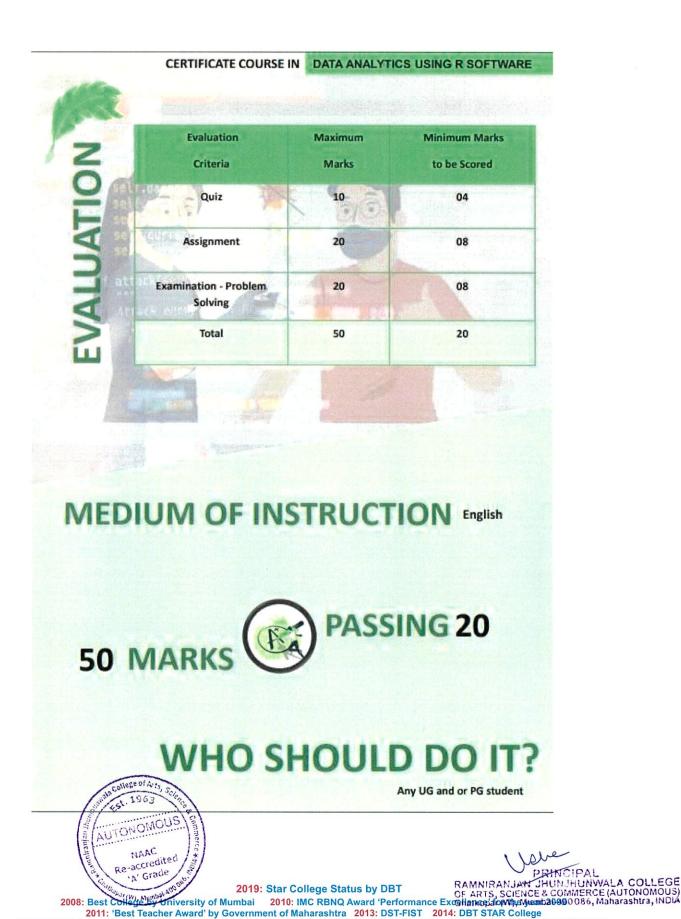


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2013 & 2014: 'Jagar Jaanivancha Award' by Govt, of Maharashtra 2016: ISO 14001:2015 2016: ISO 9001:2015 2017: ISO 27001:2013 2018: Autonomous Status by University Grants Commission (No. F. 22-1/2018(AC) - 28.05.2018) & by University of Mumbai (No.Aff./ICD/18-19/440 - 08.06.2018)



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Report

Department of Statistics conducted a value-added course titled "Intermediate R Programming Using R Studio" from April 2019 to May 2019. The course was conducted by Balachandra Devadiga, Vivekananth Nadar, Rajashimman Achari, Anil Kumar and Mr. Atul Patil. It spanned a total duration of 30 hours and aimed to enhance participants' skills in R programming. The course incorporated various assessment methods such as quizzes, assignments, and mini projects to evaluate the students' understanding and progress. These evaluations served as an opportunity for participants to apply their knowledge and demonstrate their proficiency in R programming. A total of 20 TYBSC Statistics students and one staff from another department benefitted from this course. The participants had the opportunity to learn and develop their skills in R programming, equipping them with valuable knowledge in statistical analysis and data manipulation.

No. of registered students = 21

No. of participants benefited = 20 TYBSC (Statistics)+ 1 Staff

AUTONOMOUS

NAAC

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Grade

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PHOTOS OF THE VALUE-ADDED COURSE IN R SOFTWARE HELD FROM 8TH APRIL 2019 **ONWARDS**



Students during the value-added course.



Students during the certificate distribution function

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OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

2010: Best College by University of Mumbai

2010: IMC RBNQ Award 'Performance Excellence Mumbai (Performance Excellence Mumbai (Performance Excellence Mumbai (Performance Excellence Mumbai (Performance Excellence Mumbai (PRINCIPAL)

2018: Best College by University of Mumbai (Performance Excellence Mumbai (PRINCIPAL)

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Gramniranian

OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

Constitution (PRINCIPAL)

OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

2011: Best Teacher Award' by Government of Maharashtra (PRINCIPAL)

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OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

2011: Best Teacher Award' by Government of Maharashtra (PRINCIPAL)

2019: Star College Status by DBT

OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)

2011: Best Teacher Award' by Government of Maharashtra (PRINCIPAL)

2010: Best College by University of Mumbai (PRINCIPAL)

2011: Best Teacher Award' by Government of Maharashtra (PRINCIPAL)

2014: DBT STAR College 2013 & 2014: 'Jagar Jaanivancha Award' by Govt, of Maharashtra 2016: ISO 14001:2015 2016: ISO 9001:2015 2017: ISO 27001:2013



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List of students

Sr No	Name
1	Sachin Rampratap Gupta
2	vishwakarma chhotelal rajendra
3	Satyanarayan kori
4	Sayyed Sadaf Bande Nawaz
5	Shyama Suresh Shukla
6	Khan reshma ramzan
7	PRATIKSHA RAMCHANDRA JADHAV
8	Swati Janardan sakre
9	Yadav Manish Rammilan
10	Pooja Garud
11	Manisha Gupta
12	Chandrabhushan pandey
13	Mishra Rupesh Girjashankar
14	YADAV CHANDRABHAN GAMA
	Dipesh Kumar Ramesh Kumar
15	Jaiswal
16	Harsh Sudesh Waghmare
17	Sachin Gupta
18	Madhura Udhav Jejurkar
19	Neha Sanjay Chavhan
20	Yadav Mukesh Lalbahadur
21	Satyavati Rao



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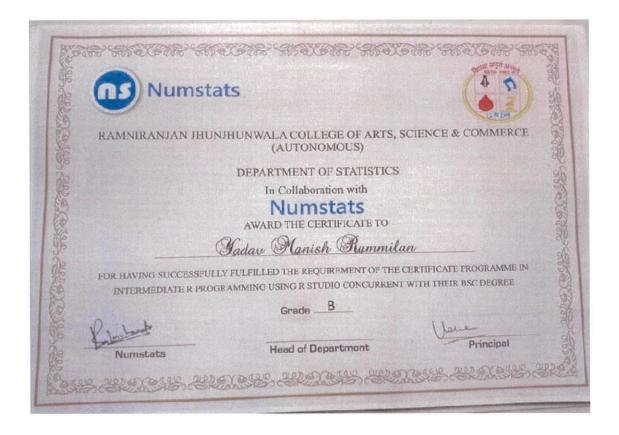


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Certificate





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