



R. J. COLLEGE of Arts, Science & Commerce (AUTONOMOUS)

(Hindi Vidya Prachar Samiti's RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce)

Opposite Ghatkopar Railway Station, Ghatkopar (West), Mumbai 400086, Maharashtra, INDIA.

Website: www.rjcollege.edu.in

Email: rjcollege@rjcollege.edu.in

Tel No: +91 22 25151763

Fax No: +91 22 25150957

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

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

Notice

Date - 11th March 2022

Value Added Course in Research Methodology, Quantitative Techniques and Basic Maths

Department of Economics is organizing Value Added Course in Research Methodology, Quantitative Technique and Basic Maths from Monday 14th March 2022. The course will be conducted offline in room no. 33 and in the computer labs for practical sessions.

The enrollment for the course is only through the google form. Interested students should fill the registration form with the help of the link given below.

The last date of the registration is Sunday 13th March 2022.

The detail time table will be communicated to the registered students in the whatsapp group.



Signature

Signature
PRINCIPAL
RAMNIRANJAN JHUNJHUNWALA COLLEGE
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)
Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA

2019: Star College Status by DBT

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BROCHURE



AY 2020 Onwards

Hindi Vidya Prachar Samiti's
RAMNIRANJAN JHUNJHUNWALA COLLEGE (AUTONOMOUS)
 (Also known as R. J. College of Arts, Science & Commerce as per UGC Notification)

Affiliated to UNIVERSITY OF MUMBAI || Recognized by UGC under 2f & 12B
 NAAC Accredited 'A GRADE' with CGPA 3.50

Knowledge is all Ambrosia

A	T	S	M	C	CERTIFICATE COURSE IN RESEARCH METHODOLOGY AND QUANTITATIVE TECHNIQUE

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CERTIFICATE COURSE IN RESEARCH METHODOLOGY AND QUANTITATIVE TECHNIQUE

COURSE CONTENT

Unit I	Meaning of research and Steps in the process of research Primary data: Sources of primary data - Questionnaire - characteristics of a good questionnaire - Technique of preparing a questionnaire; Training in making a google form for online survey through questionnaire method Introduction to Sampling techniques Secondary data: Sources of secondary data - Use of internet as a source of secondary data, making the students familiar to various authentic websites, portals, etc. Extracting the data from sources - Coding, classification and tabulation of the data - Data analysis (Use of descriptive statistics and Inferential Statistics) (Use of basic Excel in data analysis)
Unit II	Meaning of Hypothesis - Formulation of hypothesis - Null and alternate Hypothesis, testing of hypothesis - Use of Various Tests
Unit III	Set Theory - Derivatives - Matrices - Probability Distribution
Unit IV	Meaning and types - Format of research report - Case studies - Class Assignment on the topic of research report writing
Unit V	Use of power point presentation - Do's and Don'ts of the presentation - Developing presentation skills - Class Assignment on the topic given.

English

EVALUATION

Continuous evaluation, Multiple types of assignments.

100 MARKS

PASSING 40

WHO SHOULD DO IT?

Students interested in research and willing to acquire proficiency in data processing and presentations with the Micro Soft Excel and PowerPoint Presentation.



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CERTIFICATE COURSE IN RESEARCH METHODOLOGY AND QUANTITATIVE TECHNIQUE



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

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

Course Code: RJECOC01

Duration: 30 hours

Credits : 02

LEARNING OUTCOME

After completion of the course, the participants

- Would be able to identify research problems;
- Could conduct surveys for data collection;
- Would be well equipped with the knowledge of excel in data processing and analysis;
- Proficiently write the research report and
- Effectively present the research outcomes by using Power Point Presentation Techniques



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Report on Value Added Course in Research Methodology, Quantitative Techniques and Basic Maths

Department of Economics conducted Value Added Course in Research Methodology, Quantitative Technique and Basic Maths from Monday 14th March 2022. The course was conducted offline in room no. 33 and in the computer labs for practical sessions.

The detailed time table as per which the sessions were conducted is as follows.

TIME TABLE FOR VALUE ADDED COURSE IN RESEARCH METHODOLOGY AND QUANTITATIVE TECHNIQUES

MARCH - APRIL 2022

Sr. No.	Topic	Name of the Teacher	Day and Date	Time	Number of hours allotted to each topic
1.	Research Process and Data Collection	Mrs. Pranali Karnik	14th March 2022	7.30am - 9.30am	6
			15th March 2022	7.30am - 9.30am	
			16th March, 2022	7.30am - 9.30am	
2.	Data analysis	Dr. Sucheta	17 th	7.30am -	8



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		Joshi	March, 2021	9.30am	
			19 th March, 2021	7.30am - 9.30am	
			21 st March, 2021	7.30am - 9.30am	
			22 nd March, 2021	7.30am - 9.30am	
3.	Hypothesis testing	Mrs. Satyawati Rao	11 th April, 2022	8am - 10am	4
			12 th April, 2022	8am - 10am	
4.	Basics of Mathematics and Advanced Statistics	Mrs. Satyawati Rao	13 th April, 2022	8am - 10am	7
			16 th April, 2022	8am - 10am	
			18 th April, 2022	8am - 10am	
			19 th April, 2022	8am - 9am	
5.	Preparation and Presentation of the research report	Mrs. Devashree Ghorpade	23 rd April, 2022	7am - 9.30am	5
			24 th April, 2022	7am - 9.30am	

The details of the Course content and credits and work hours

Course Code: RJECOC01



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Duration: 30 Hours

Credits: 2

Learning Outcome of the course:

- To be able to identify research problems;
- To be able to conduct surveys for data collection (Hands on in Google Form);
- To be well equipped with the knowledge of excel in data processing and analysis (Hands on in Excel);
- To be acquainted with basic mathematics and advanced statistics
- Proficiently write the research report and
- Effectively present the research outcomes by using Power Point Presentation Techniques (Hands on in PowerPoint Presentation)

The course is specifically designed for: Students interested in research and willing to acquire proficiency in data processing and presentations with the Micro Soft Excel and PowerPoint Presentation.

COURSE I	RESEARCH METHODOLOGY AND QUANTITATIVE TECHNIQUES COURSE CODE: RJECOC01
UNIT 1: Research Process and data collection	Meaning of research and Steps in the process of research Primary data: Sources of primary data - Questionnaire - characteristics of a good questionnaire - Technique of preparing a questionnaire; Training in making a google form for online survey through questionnaire method Introduction to Sampling techniques Secondary data: Sources of secondary data - Use of internet as a source of secondary data, making the students familiar to



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	various authentic websites, portals, etc.
UNIT 2: Data analysis	Extracting the data from sources - Coding, classification and tabulation of the data - Data analysis (Use of descriptive statistics and Inferential Statistics) (Use of basic Excel in data analysis)
UNIT 3: Hypothesis testing	Meaning of Hypothesis - Formulation of hypothesis - Null and alternate Hypothesis, testing of hypothesis - Use of Various Tests
UNIT 4: Basics of Mathematics and	Set Theory - Derivatives – Matrices – Probability Distribution

Advanced Statistics	
UNIT 5: Preparation and presentation of the research report	Meaning and types - Format of research report - Case studies - Class Assignment on the topic of research report writing Use of power point presentation - Do's and Don'ts of the presentation - Developing presentation skills - Class Assignment on the topic given.

Evaluation: Continuous evaluation, assignments



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Marks: 100

Passing Standard: 40%

Terms and conditions:

Eligibility criteria for 2 extra credits and certificate of Value-added Course:

Students will be eligible for 2 extra credits and Certificate of Value – Added Course only if:

1. They attend all the sessions (theory as well as practical) of the course;
2. They submit all the assignments in the given time;
3. They score minimum 40% in all the given assignments.

In addition to the sessions to be attended, students were also asked to submit their assignment to the respective teachers according to the deadlines given for the submission.

Following are the details of the assignment given by each teacher.

Assignment No.1: Making of Questionnaire for Data Collection- Teacher: Pranali Karnik

Make a questionnaire in word on the topic allotted.

Upload the PDF version of the assignment with the details of Roll number, Name and Class on Google classroom.

Assignment No.2 Classification and Tabulation in excel: Teacher: Dr. Sucheta Joshi

1. Classify the data that is collected through the questionnaire into different categories in excel.

2. Prepare following types of tables from the classification:

A. Simple table (One Way Table): 1

B. Complex table (Two way, Three Way table): 1 each



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Assignment 3: Graphical Presentation of data with the use of Excel: Teacher: Dr. Sucheta Joshi

Students should prepare at least 3 charts of different types (such as bar diagram, pie chart, histogram) from the tables prepared in the assignment 2 with the help of Excel.

Assignment 4: Use of Excel in Descriptive and Inferential Statistics: Teacher: Dr. Sucheta Joshi

1. Calculate percentage / arithmetic mean / median / mode from the tables created by you in Assignment Two in the Excel.
2. Also find out correlation between any two variables of your study with the help of excel
3. Submit your 1 excel file including all the 3 assignments in the following way:
Sheet 1: Assignment 2
Sheet 2: Assignment 3
Sheet 3: Assignment 4
Rename the sheets with the assignment numbers.

Assignment No 05 : Report writing : write a technical report: Teacher: Prof. Devashree Ghorpade

1. The topic will remain same for which you are preparing google form.
2. The Format of report should be strictly according to the format given in the attachment.
3. Results of Assignments 2, 3 and 4 should be used while writing the research report.

Assignment No.6 Power Point Presentation (PPT) Submission: Teacher: Prof. Devashree Ghorpade

1. Prepare a PPT on the basis of your research report and upload that PPT with Narration here.
2. Use following techniques while preparing a PPT
 - a. narration,
 - b. animation,
 - c. design templates,
 - d. smart art,
 - e. effects, etc.

No. of students who successfully completed the course: 17




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LIST OF THE STUDENTS WHO HAVE SUCCESSFULLY COMPLETED THE COURSE

Sr. No.	Roll No	Name of the Students	Class
1	6	DABHOLKAR HARSHALI SUNIL PRIYA	TYBA
2	7	INGALE RUPALI DADARAO SUNANDA	TYBA
3	10	KAKADE ISHA GANESH ROHINI	TYBA
4	11	KHAN AKHTAR JAHAN MOHAMMAD HUSAIN SAEEDUNNISA	TYBA
5	12	KHAN HUSAN AARA MOHAMMED HUSAIN SAEEDUNNISA	TYBA
6	14	KHAN SHAINAZ KHATUN NURUL HASAN TAVRUN NISHA	TYBA
7	19	NAIR VARUN SANJEEV NEELAM	TYBA
8	21	PAL POOJA JAIKESH PAL URMILA DEVI	TYBA
9	37	SONAVANE DHANSHRI MANOJ PRAJAKTA	TYBA
10	42	YADAV POOJA BADRI ANURADHA	TYBA
11	43	YADAV RISHABH JAIPRAKASH KUSUMLATA	TYBA
12	45	YADAV SEEMA KEDAR REKHA	TYBA
13	48	CHAUDHARY SANGITA RAMVINOD REENA	TYBA
14	49	SHAIKH RESHAM MOHAMMED MOIN SHABINA	TYBA
15	52	PATEL VIKAS HARISHANKAR JIRAVATI DEVI	TYBA
16	56	GHEWARI SAKSHI SANJAY VIDHYA	TYBA
17	128	ARCHITA SHARMA	TYBCOM



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Website : www.rjcollege.edu.in Email : rjcollege@rjcollege.edu.in Tel. No.: +91 22 25151763 Fax No: +91 22 25150957

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)

CERTIFICATE



Hindi Vidya Prachar Samiti's

RAMNIRANJAN JHUNJHUNWALA COLLEGE of Arts, Science & Commerce

(AUTONOMOUS)

Opposite Ghatkopar Railway Station, Ghatkopar (W), Mumbai 400 086.

Certificate of Completion

This is to certify that

DABHOLKAR HARSHALI SUNIL PRIYA

of Class TYBA Roll No. 6

has successfully completed the Value-Added Course in Research Methodology, Quantitative Techniques and Basic Math organized by Department of ECONOMICS and conducted from March-April 2022

COURSE CODE
RJECOC01



Issue Date: 24 June, 2022



Dr. Himanshu Dawda
In-charge Principal

CERTIFICATE ID: RJC-VAC-202122-2093




PRINCIPAL
RAMNIRANJAN JHUNJHUNWALA COLLEGE
OF ARTS, SCIENCE & COMMERCE (AUTONOMOUS)
Ghatkopar (W), Mumbai-400 086, Maharashtra, INDIA

2019 : Star College Status by DBT

2008 : Best College by University of Mumbai 2010 : IMC RBNQ Award 'Performance Excellence' for the year 2009

2011 : 'Best Teacher Award' by Government of Maharashtra 2013 : DST-FIST 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

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)