



# 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)

## National Workshop on Historical Development of Mathematics

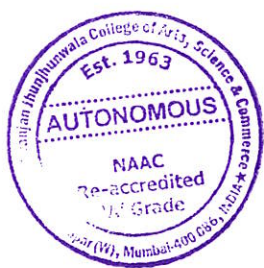
### A First Step in Research Methodology

#### NOTICE

Department of Mathematics is organising 3-day National Workshop on Historical Development of Mathematics during 25-27 March, 2021 in online mode. This workshop aims to provide opportunities to explore and share some historical aspects and development of mathematics among undergraduate students and teachers. This is a first step in initiating research. The details of the workshop are given in the brochure.

*Mary Jossy*  
Head,

Department of Mathematics



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

Flyer of National Workshop on Historical Development of Mathematics

2019: Star College Status by DBT

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

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## Flyer of National Workshop on Historical Development of Mathematics



Hindi Vidya Prachar Samiti's  
Ramniranjan Jhunjunwala College (Autonomous),  
Ghatkopar, Mumbai - 400 086

**DEPARTMENT OF MATHEMATICS**  
ORGANIZES  
**A NATIONAL WORKSHOP**  
ON  
**HISTORICAL DEVELOPMENT OF MATHEMATICS**  
MARCH 25-27, 2021  
(under the aegis of DBT Star College Scheme)

**ORGANIZING COMMITTEE**

**Chief Patron**  
Dr. Usha Mukundan  
Director, Hindi Vidya Prachar Samiti

**Patron**  
Dr. Himanshu Dawda  
In-Charge Principal

**Conveners**  
Mr. Ajaykumar Shukla  
Dr. Sanket Tikare

**Members**  
Ms. Mary Jossy  
Mr. Indrasingh Saud

**ABOUT THE WORKSHOP**

*"Modern mathematics tends to obliterate history: each new school rewrites the foundations of its subject in its own language, which makes for fine logic but poor pedagogy."*  
R. Hartshorne

In this workshop we aim to provide opportunities to explore and share some historical aspects and development of mathematics among undergraduate students and teachers.

**EMINENT SPEAKERS**

- Prof. R. S. Kulkarni  
Bhaskaracharya Pratishthan, Pune
- Prof. Amartya Kumar Dutta  
Indian Statistical Institute, Kolkata
- Prof. Inder Kumar Rana  
IIT, Mumbai
- Prof. Subhas S. Bhoosnurmath  
Karnatak University, Dharwad
- Prof. S. A. Katre  
Savitribai Phule Pune University, Pune
- Prof. S. R. Chaudhari  
KBC North Maharashtra University,  
Jalgaon
- Dr. Giriraj Methi  
Manipal University, Jaipur

**TOPICS TO BE COVERED**

Historical development of:

- Algebra
- Calculus
- Complex Analysis
- Differential Equations
- Geometry and Topology
- Number Systems
- Number Theory

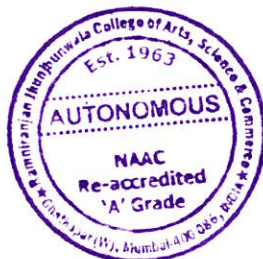
**EXPECTED PARTICIPANTS**

Teachers and undergraduate students of any discipline.  
E-Certificates will be provided to all participants.

**HOW TO APPLY**

Interested participants can register through the following link:  
<https://forms.gle/kz9gPd1zhA9uRuqq5>

There is no registration fees.



  
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## REPORT

### Research Methodology

#### National workshop on Historical Development of Mathematics

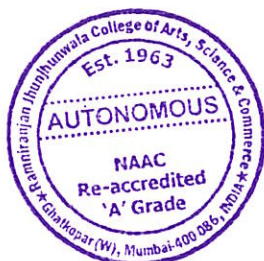
The department of Mathematics has organised a National workshop on Historical Development of Mathematics during March 25-27, 2021 in virtual mode. The workshop was inaugurated by Dr Usha Mukundan, Director Hindi Vidya Prachar Samiti. Seven eminent speakers were invited from reputed Institutes of our country. History is a prerequisite for any research to be undertaken thus this workshop is an integral part of research methodology. They spoke on historical aspects of important fields of Mathematics such as, Real Number Line, Number line, Number Systems, Complex Analysis, Algebra Calculus, Differential Equations and Number theory. Each session of the workshop was of one hour and fifteen minutes of post-session discussion. Many participants were actively engaged in the discussion with speakers. We believe that we have all benefited significantly from the deliberations during 3 day web workshop.

Number of Beneficiaries : 191 participants

Date: 25<sup>th</sup>-27<sup>th</sup> March, 2021

Time : 09:00 am to 01: 00 pm

Event platform: Online ZOOM and you tube live stream



  
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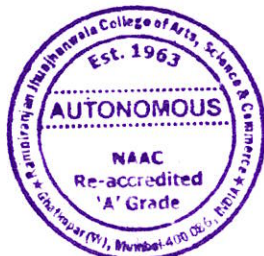
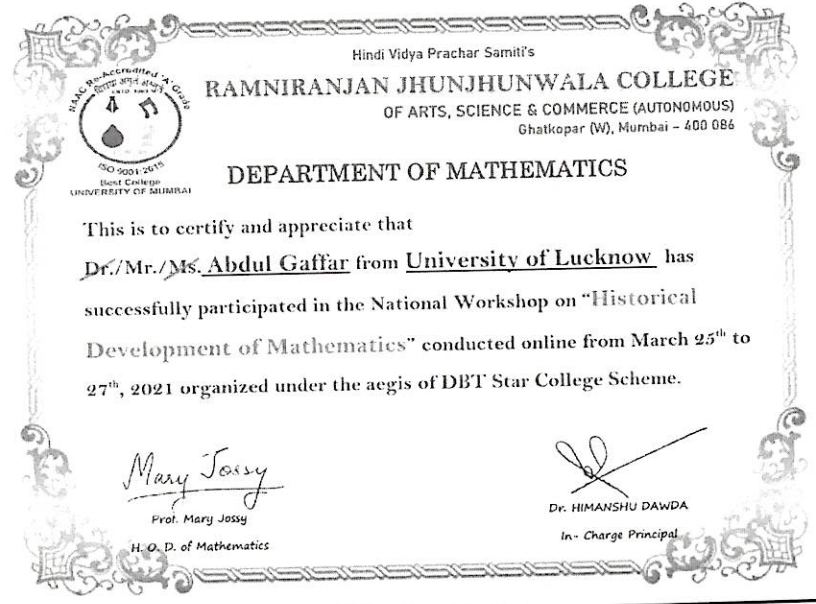
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Specimen of certificate of National Workshop on Historical Development of Mathematics



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Snapshots of National Workshop on Historical Development of Mathematics



*[Signature]*  
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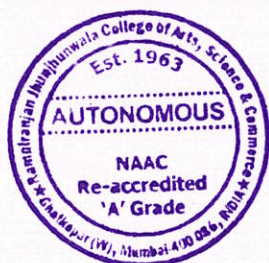
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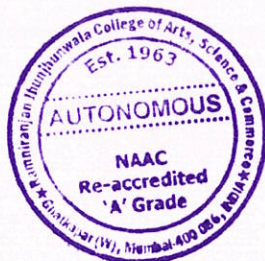
**List of Participants (National workshop, 25-27 March, 2021)**


Sr. No.	Name of the participants	Faculty/ Student	Class	Institute
1	ABDUL GAFFAR	Student	PhD	University of Lucknow
2	Aishi Chatterjee	Student	MSc	Lady Brabourne College
3	Aishwarya Pavan Bhong	Student	BSc	Rajarshri Shahu Mahavidyalaya Autonomous
4	Ajaz Ismail	Faculty	--	P G department of mathematics University of Kashmir
5	Ajim Uddin Ansari	Faculty	--	C.M.P. Degree College, Prayagraj
6	AKANKSHA SAMPAT SHINDE	Faculty	--	VPM B N BANDODKAR COLLEGE OF SCIENCE, THANE
7	Akash Jain	Student	MSc	Delhi Technological University (formerly DCE)
8	Akash Mahajan	Faculty	--	Aims Gurdaspur
9	AKSHAY PAWAN JENEKAR	Student	BSc	Arts, Commerce and Science College, Maregaon
10	Amandeep Verma	Student	TYBSc Maths	R.J.College
11	Amanpreet kaur	Faculty	--	Ggn khalsa college,civil lines,ldh
12	Amin Chaithanya Sadananda	Student	BSc	Ismail Yusuf College
13	Amisha Lallan Singh	Student	TYBSc Maths	R. J College
14	Amlan Kumar Sahu	Student	MSc	CET,Bhubaneswar
15	Andela Malleswari	Student	PhD	Yogi Vemana University
16	Anesha H R	Student	PhD	St. Mary's College(Autonomous)
17	Anil Kumar	Student	PhD	Manipal University Jaipur
18	Anjali	Student	MSc	Sant longowal institute of engineering and management
19	Ankita jagtap	Student	BSc	M. D college parel



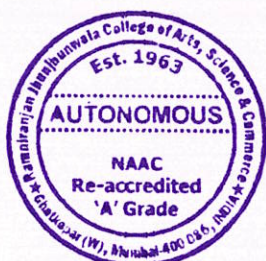
  
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20	ANSARALI A	Faculty	--	JAMAL MOHAMED COLLEGE
21	Anshu	Student	MSc	Chaudhary Devi Lal university
22	Archana C Varsoliwala	Student	MSc	SVNIT
23	Archana Suresh Bhosale	Faculty	--	Tuljaram Chaturchand College, Baramati
24	Arjun Maurya	Student	BSc	Deen Dayal Upadhadhyay Gorakhpur University
25	Arti Rajendra Devkar	Student	BSc	Modern college ganeshkhind , pune.
26	ARVIND KUMAR	Student	MSc	SARASWATI COLLEGE OF EDUCATION
27	Ashish Kumar	Student	MSc	Magadh University Bodhgaya
28	Ashweta Padhan	Student	MSc	Veer Surendra Sai University Of Technology, Burla, Sambalpur
29	Ashwini Ashok jadhav	Student	BSc	Dr. Babasaheb Ambedkar college Mahad, Raigad
30	Ashwini Shete	Student	TYBSc Maths	Ramniranjan Jhunjhunwala
31	Ayesha Mukhtar Hafiz	Student	BSc	Dr. Baba Saheb Ambedkar college of arts, commerce and science, Mahad
32	Badaaishisha Snaitang	Faculty	--	Nongstoin College
33	Banashree Saikia	Student	PhD	Dibrugarh University
34	BAPYNDAP RYNDEM	Faculty	--	NONGSTOIN COLLEGE
35	Bhagyashree Shivaji Kale	Student	BSc	MIT ACSC
36	Borase Dipali Sunil	Student	MSc	School of Mathematical Sciences, KBCNMU, Jalgaon
37	Borse Rupali Rajendra	Student	MSc	A.S.C. college chopda
38	Chaitali Vilas Survase	Student	MSc	Rajarshi Shahu Mahavidyalaya, Latur.
39	Chavan Sandesh Suresh	Student	BSc	Rajarshi Shahu Mahavidyalaya, Latur
40	chinmaya sharma	Student	MSc	chaudhary mahadeo Prasad Degree college



  
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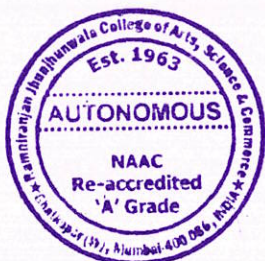
<b>List of Participants (National workshop, 25-27 March, 2021)</b>				
41	Chipade pratiksha yashavant	Student	BSc	Tuljaram chaturchand college, baramati
42	D.Ilakkiya	Student	MSc	C.P.A College
43	Deepali	Student	BSc	Chandigarh group of colleges, Jhanjeri
44	Deepali Patil	Student	BSc	V. G. VAZE COLLEGE
45	Dhiman Sarkar	Student	PhD	Cooch Behar Panchanan Barma University
46	Dr Govardhan Karbhari Sanap	Faculty	--	Sunderrao solanke mahavidyalaya majalgaon
47	Dr Mrs Vandana Z Badade	Faculty	--	ICLES' M J College, Vashi, Navi Mumbai
48	Dr Vaibhav D Bokey	Faculty	--	Nehru Mahavidyalaya
49	Dr. Alfred Yusuf Shaikh	Faculty	--	Indira Gandhi Kala Mahavidyalaya, Ralegaon
50	Dr. Amit Kumar Pal	Faculty	--	Seth Anandram Jaipuria College, Kolkata
51	Dr. Animesh Kumar Sharma	Faculty	--	Swami Vivekanand College of Agricultural Engineering and Technology, IGKV, Raipur
52	Dr. C. Sivashanmugaraja	Faculty	--	Periyar Govt. Arts College
53	Dr. JIGMI DORJEE BHUTIA	Faculty		COOCH BEHAR COLLEGE
54	Dr. KETINENI SUBBARAYUDU	Faculty	--	Sri Venkateswara Institute of Science and Technology
55	Dr. Koushik Ghosh	Faculty	--	University Institute of Technology, The University of Burdwan
56	Dr. Naveen Kumar	Faculty	--	Chandigarh University, Mohali
57	Dr. Pallvi Mahajan	Faculty	--	Beant College of Engg. & Tech, Gurdaspur
58	Dr. Sanjay Ramkrishna Bhoyar	Faculty	--	Phulsing Naik Mahavidyalaya Pusad
59	Dr.A.RAVIKUMAR	Faculty	--	Kyathi college
60	Dr.G.Priscilla Pacifica	Faculty	--	St.Mary's College (Autonomous)



  
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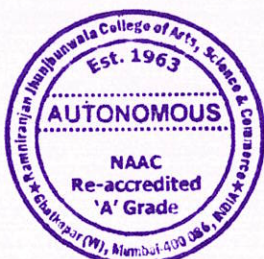
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61	Dr.P.GOMATHISUNDARI	Faculty	--	Rajah Serfoji Government College
62	Duste Fatima Ilyas	Student	BSc	Dr.Babasaheb Ambedkar College Mahad
63	Firdous Ahmad Mala	Faculty	--	Govt. Degree College Sopore
64	G ANIL KUMAR	Faculty	--	Swami Vivekananda Institute of Technology
65	Gaikwad Rutuja Rajendra	Student	BSc	Tuljaram chaturchand college baramati
66	Gajanan Dhumal	Faculty	--	B.K.Birla College of Arts, Science and Commerce (Autonomous), Kalyan
67	Gavireddy Lakshmi Devi	Student	BSc	Vellore Institute of Technology
68	GEHANI NARENDRAKUMAR SHANKARLAL	Student	BSc	R.R.MEHTA COLLEGE OF SCIENCE, PALANPUR
69	Ghadage Sukanya Sangeetrao	Student	BSc	Tulajaram Chaturchand College Of Art, Science And Commerce, Baramati
70	Ghule Dilip Balasaheb	Faculty	--	Dr D Y Patil SOET lohgaon
71	Gurpreet Singh	Student	BSc	Panjab University, Chandigarh
72	Hemant	Student	BSc	Chandigarh group of college, jhanjeri
73	Himakshi	Student	BSc	Pt.cls.govt.college kagnal
74	J Gopal Rao	Faculty	--	St. Joseph's school
75	Jadhav Ashwini Lalaso	Student	BSc	T.C.College,Baramati.
76	JAVID MAJID	Student	BSc	Jamia Millia Islamia, New Delhi, India
77	Jay Gaikwad	Student	TYBSc Maths	Ramniranjan Jhunjhunwala College
78	Jiban Barman	Student	MSc	Jadavpur University, Kolkata
79	K.Aarthy	Student	MSc	Cpa college
80	K.Bharathi	Student	MSc	CPA college
81	Kadam Sanjivani Shriram	Student	BSc	Rajarshi Shahu Mahavidyalaya



  
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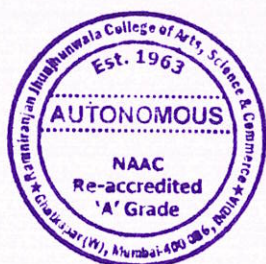
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82	KALAIARASI K	Faculty	--	Cauverycollege for women autonomous
83	Kamalpreet Kaur	Student	MSc	Lovely Professional University
84	Karan singh	Student	BSc	Mit acsc Alandi pune
85	Karunagaran K	Student	BSc	Karunagaran K
86	Khushboo Gupta	Student	BSc	Chandigarh group of colleges, Jhanjeri, mohali
87	Kole Sushma Mahaveer	Faculty	--	Babasaheb Chitale Mahavidyalaya, Bhilawadi
88	Kriti Jayprakash Pal	Student	TYBSc Maths	Ramniranjan Jhunjhunwala College
89	Kshitij Thakkar	Student	TYBSc Maths	RJ College of Arts Science and Commerce
90	LAKHLIFA SADEK	Student	MSc	Faculty of Sciences Chouaib Doukkali University Morocco
91	Leela Mantri	Faculty	--	Sri Indu college of engineering and technology
92	M.POOHELVI	Faculty	--	Cardamom Planters Association College
93	M.Ramya	Student	MSc	Cardamom Planters' Association college
94	Madane Sarika Ganpat	Student	MSc	Punyashlok Ahilyadevi Holkar Solapur university
95	mala singh	Student	Bed	Dr.R.N.S. College of education
96	Malu Varghese	Faculty	--	Kristu Jyothi
97	MANASA PATIL	Faculty	--	S.S.P.O.GOV'T FIRST GRADE COLLEGE, MUDDEBIHAL
98	Manju. K	Faculty	--	SMK Fomra Institute of Technology
99	Kajal Singh	Student	BSc	Dhanraj singh Mahavidyalaya
100	MAYAVEL P	Student	MSc	Anna University Chennai



  
**Principal**  
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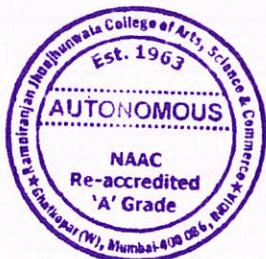
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102	Mohanapriya.V	Student	BSc	Sri Vasavi College , Erode
103	Mr. Ajaykumar Shukla	Faculty	--	Ramniranjan Jhunjhunwala College, Ghatkopar
104	Mr. Amit Sitaram Wadile	Faculty	--	Dahiwadi College Dahiwadi
105	Mr. GOSALA SEKHAR BABU	Faculty	--	GOVERNMENT COLLEGE (AUTONOMOUS), RAJAMAHENDRAVARAM
106	Mr. MOIENAHMAD RAEESAHMAD BOROTIKAR	Faculty	--	G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT, PUNE
107	Mr. Premkumar M	Faculty	--	Kongunadu College of Engineering and Technology
108	Mr. Rahul Ravindra Naik	Faculty	--	St. Xavier's College, Mapusa-Goa
109	Mr. Sourav Banerjee	Student	BSc	Nabagram Hiralal Paul College
110	Mr. Jamkar Vijayanand Manoharrao	Faculty		S.R.College Ghanswangi
111	Mrs. M. Sathiya	Student	B.Tech.	Paavai Engineering College
112	Mrs.K.JANOFER	Faculty	--	Sadakathullah Appa college
113	Mrs.Poongodi M	Faculty	--	Excel college for commerce and science
114	Ms.MAHIMA ANAND SINGH	Student	BSc	SEVA SADAN'S R.K.TALREJA COLLEGE OF ART'S SCIENCE AND COMMERCE
115	MUKESH KUMAR	Student	PhD	Central University of Punjab, Bathinda
116	Muskan Bhardwaj	Student	BSc	J.C.bose university of science and technology, YMCA Faridabad Haryana
117	Nabanita Sadhukhan	Student	BSc	Narasingha Dutt College
118	NAGNATH PRABHAKAR JOSHI	Faculty	--	RAJA LAKMAGOUDA SCIENCE COLLEGE
119	NALAVALA KUSUMA KUMARI	Faculty	--	V. R. S. DEGREE COLLEGE



  
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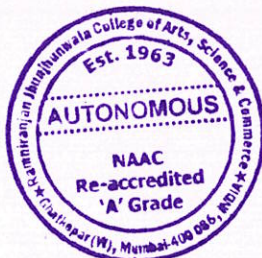
**List of Participants (National workshop, 25-27 March, 2021)**

120	NALAWADE NILESH BALASO	Faculty	--	KARMAVEER BHAURAO PATIL COLLEGE,VASHI.NAVI MUMBAI
121	Nalawade Vishvajeet Nanasaheb	Faculty	--	T.C.College Baramati
122	Neha Krishna Singh	Student	TYBSc Maths	Ramniranjan jhunjhunwala college
123	NIKITA RAJENDRA SHINDE	Student	BSc	Tuljaram Chaturchand College
124	NIRBHAY KUMAR	Student	PhD	University of Allahabad
125	NIYAS FATHIMA A	Student	MSc	Cardamom Planters' Association College
126	P. Anuradha, Assistant Professor of Mathematics	Faculty	--	S.R & B.G.N.R Government Degree College,
127	P. VICTOR	Faculty	--	Karpagam Academy of Higher Education
128	P.Manisha Rebecca	Student	PhD	St.Mary's college (Autonomous), Thoothukudi
129	Pandey Anjali Shyamdhar	Student	--	Ismail Yusuf College
130	PANKAJ KUMAR BHARTI	Faculty	--	DEPT. OF MATHEMATICS, JPU CHAPRA, SARAN
131	Pavitra Babasaheb More	Student	BSc	MIT ACSC Alandi
132	Prabhat kumar	Student	MSc	CMP college allahabad
133	Prakash Bapurao Fulari	Faculty	--	Tuljaram Chaturchand College, Baramati.
134	Pratiksha Shriniwas Kulkarni	Student	BSc	Rajashri Shahu Mahavidyalaya Autonomous Latur.
135	PRIYA KUMARI GUPTA	Student	MSc	Chaudhry Mahadev Prasad Degree College
136	Priyanka kumari	Student	MSc	Banaras hindu university
137	R Sutharsanam Ap/Mathematics	Student	BSc	Excel College For Commerce and Science



  
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138	Rahul kumar	Student	BSc	JCBOSEUST
139	Rajan Singh	Student	BSc	J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY YMCA FARIDABAD
140	Rajeev Kumar Ranjan	Student	BSc	College of Commerce
141	Rajendra Lekhwar	Faculty	--	G N Khalsa College Mumbai Matunga
142	Rajiv Deepak Mahamunkar	Student	BSc	Dr.Babasaheb Ambedkar college ,Mahad-Raigad
143	Rupali Tukaram Kadam	Student	BSc	Tuljaram Chaturchand college Baramati
144	S. LOURDU ELQUEEN	Student	BSc	St. Mary's College (Autonomous)
145	S.ANTONYCARLA	Student	PhD	MADURAI KAMARAJ UNIVERSITY
146	S.Indhupriyaa	Student	BSc	Excel College for Commerce and Science
147	Sabina Ayyaz Jamadar	Faculty	--	Willingdon College Sangli
148	SACHIN MADHUKAR DIXIT	Faculty	--	Willingdon College, Sangli
149	Sakshi Raju Nimje	Student	BSc	Modern college of arts , science and commerce, Ganeshkhind
150	Sandeep Dass	Student	BSc	Akal University
151	Dr. Sanket Tikare	Faculty	--	Ramniranjan Jhunjhunwala College
152	Sapna raju rasal	Student	BSc	Rajarshi shahu mahavidyalaya latur
153	SATYAJIT PAL	Faculty	--	Dr. B. N. Dutta Smriti Mahavidyalaya
154	Saurabh patel	Student	B.Tech.	Chandigarh group of college
155	Shaikh Kaneez fatima abrar ali	Student	TYBSc Maths	Ramniranjan jhunjhunwala College
156	Sharwari Dattatray Markale	Student	BSc	T.C college, Baramati




  
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157	Shivangi Rai	Student	BSc	Chaudhary Mahadev Prasad Degree College
158	Shraddha Patel	Student	MSc	Dr. Rammnohar Lohia Avadh University, Ayodhya
159	Shyam gurme	Student	BSc	Mumu
160	Siddiqui Mubashera Ansar Ahmed	Student	SYBSc	Ramniranjan Jhunjunwala College
161	Sirjandeep Singh	Student	B.Tech.	Chandigarh Group Of Colleges , Jhanjeri, Mohali
162	Sk Md Salauddin	Student	MSc	Aligarh Muslim University
163	SMRITIMOY CHAKRABORTY	Student	BSc	Indira Gandhi National Open University
164	Sneha Suresh Jadhav	Student	TYBSc Maths	Ramniranjan Jhunjunwala College
165	Snehal Deshbhushan Magdum	Student	BSc	Tuljaram Chaturchand College, Baramati
166	Sonali Vasant Kate	Faculty	--	Tuljaram Chaturchand College Baramati
167	Sonu kumar	Student	BSc	Chandigarh group of college
168	Srishti Sharma	Student	BSc	R.K. Talreja College, Mumbai University
169	Stuti Pandey	Student	BSc	Chaudhary Mahadev Prasad Degree College, Prayagraj
170	Sujit Shriram Shinde	Faculty	--	Walchand College of Arts & Science
171	Sunil Kumar	Student	BSc	GMSSSS BELARKHA
172	Supriya M D	Student	PhD	Siddaganga Institute of Technology, Tumkur
173	Surya Prakash	Faculty		CMP Degree College Prayagraj
174	Sushil Singla	Student	PhD	Shiv Nadar university
175	Dr. Monika Srivatsava	Faculty	--	SKD University HMH, Rajasthan

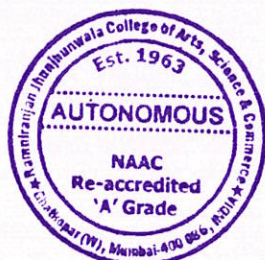


  
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<b>List of Participants (National workshop, 25-27 March, 2021)</b>				
176	Sushree Sangita Acharya	Student	PhD	Sikha o Anusandhan (Deemed to be University)
177	Swarnima srivastava	Student	MSc	Chaudhary Mahadev Prasad degree college
178	Swati Navanath Bote	Student	--	New Horizon Public School
179	Swati Srivastava	Student	PhD	Dr Ram Manohar Lohia Avadh University Ayodhya
180	Sweta Das	Student	MSc	Indian Institute of Technology, Madras
181	Switi Pradip Garghate	Student	BSc	Art's commerce and science college maregaon
182	Tambat Mayuri Mangesh	Student	BSc	K.B.C.N.M.U., Jalgaon
183	V. DHIVYA	Student	BSc	BHARATHIDASAN GOVERNMENT COLLEGE FOR WOMEN
184	Vaibhav Brock	Student	MSc	Lovely Professional university
185	VAIBHAV SINGH	Student	TYBSc Maths	RJ College
186	Varaliya Asmaben Kayumbhai	Student	BSc	R.R. Mehta College of Science and C.L. Parikh College of Commerce, Palanpur
187	VENUPRASAD K K	Faculty	--	Government First Grade College K R Pet
188	Wadekar Bhagyashree Ashok	Student	BSc	Modern college of arts, science and commerce Ganeshkhind, Pune 16
189	Wavhal Nisha Sudhakar	Student	BSc	Rajarshi Shahu Mahavidyalaya(Autonomous), Latur.
190	Yogita chandrakar	Student	PhD	Govt NPG college of science Raipur(C.G.)
191	Zende Shital Jaysing	Student	MSc	New Arts Commerce & Science College Ahmednagar

*Mary Jossy*

Head, Department of Mathematics



*[Signature]*  
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