



# 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

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

08/01/2022

## NOTICE

### Department of Mathematics

The department is organizing a talk on “Why Are Soap Bubbles Approximately Spherical?” on January 17, 2022 at 04.00 pm on ZOOM platform. The resource person for the talk is **Dr. Anisa Chorwadwala**, Department of Mathematics, Indian Institute of Science Education and Research (IISER), Pune. The talk is organized under the aegis of DBT Star College Scheme.

#### **ZOOM meeting details:**

Meeting ID: 986 2045 7113

Passcode: 12345

*Mary Jozzy*

Head,

Department of Mathematics



*[Signature]*

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## Flyer of a talk on "Why Are Soap Bubbles Approximately Spherical" by Anisa



GUEST SPEAKER

**Dr Anisa Chorwadwala**

Department of Mathematics,  
Indian Institute of Science Education  
and Research, Pune



Talk on: **Why Are Soap Bubbles Approximately Spherical?**

Hindi Vidya Prachar Samiti's

Ramniranjan Jhunjhunwala College  
(Autonomous), Ghatkopar, Mumbai

Department of Mathematics

Organizes a Talk on  
**Why Are Soap Bubbles Approximately Spherical?**  
(Under DBT Star College Activity)

DATE: **January 17, 2022**

TIME: **04:00 PM - 05:00 PM**

EVENT PLATFORM: **Online ZOOM**

**Meeting ID: 986 2045 7113**

**Passcode: 12345**

All are cordially invited

**Abstract:** The following questions arise quite naturally from what we see around us. Why are soap bubbles that float in air approximately spherical? Why does a herd of reindeer form a round shape when attacked by wolves? Of all geometric objects having a certain property, which ones have the greatest area or volume; and of all objects having a certain property, which ones have the least perimeter or surface area? These problems have been stimulating much mathematical thought. Mathematicians have been trying to answer such questions and this has led to a branch of mathematical analysis known as "shape optimization problems". A typical shape optimization problem is, as the name suggests, to find a shape which is optimal in the sense that it minimizes a certain cost functional while satisfying given constraints. Isoperimetric problems form a special class of shape optimization problems. A typical isoperimetric problem is to enclose a given area with a shortest possible curve. The talk will be about the classical Isoperimetric Problem, its fascinating history and its evolution with time.



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## Profile of Dr. Anisa Chorwadwala

Dr. Anisa Chorwadwala is an Assistant Professor in the Department of Mathematics at Indian Institute of Science Education and Research (IISER), Pune. She did her Bachelors in Mathematics in 1999 from SIES College, Mumbai, then Masters in Mathematics from University of Mumbai in 2001, followed by a PhD in Mathematics from University of Mumbai in 2007. After her PhD, Dr Chorwadwala joined The Institute of Mathematical Sciences, Chennai as a Post Doctoral Fellow for 2 years. Then during 2009 to 2011 she was a Visiting Fellow at the Tata Institute of Fundamental Research, Mumbai. In 2011, she joined IISER, Pune as an Assistant Professor of Mathematics and continue till date. She has 10 research papers to his credit. Her research interest includes Shape Optimization Problems, Calculus of Variations, Eigenvalue Optimisation Problems, Energy Minimization Problems. Dr Chorwadwala visited several institutes across the country and abroad including Chile, France, Iran, Italy, Spain, UK for her research works and collaborations. She is a member of the Executive Committee of Indian Women and Mathematics since 2015. She is a member of the International Mathematical Union- Committee for Women in Mathematics since August 2016. She is member of Board of Studies in Mathematics of many autonomous colleges. The Awards and Recognitions received by her includes

1. NBHM Research Award,
2. NBHM Post-doctoral fellowship,
3. Grant to attend International Congress of Mathematician 2006 held at Madrid, Spain,
4. DST SERB MATRICS Research Grant for three years 2020-2023.



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Capacity development and skills enhancement activity

(Awareness of trends in technology)

## REPORT

**Name of the Activity :-** Guest lecture on 'Why Are Soap Bubbles Approximately Spherical'(Under DBT Star College Activity)

**Resource Person:-** Dr Anisa Chorwadwala, Department of Mathematics, Indian Institute of Science Education and Research (IISER), Pune

**Brief Report :-** Dr Anisa Chorwadwala delivered a talk on the topic "Why Are Soap Bubbles Approximately Spherical?". She began the talk by asking several questions to participants about geometric shapes and their properties. First, she talked about classical isoperimetric problems in the Euclidean plane. She gave solutions to this problem by many methods including the moving plane method. Later on, she mentioned several websites for higher studies in Mathematics and motivate the students for higher study. After the talk, she answered several questions asked by participants.

**Number of beneficiary:** - 43 participants.

**Date:-** 17 January 2022 **Time:-** 04:00 pm to 05:00 pm

**Event Platform: Online ZOOM**

*Mary Jary*

Head,

Department of Mathematics



*[Signature]*

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## Screenshots of a talk on “Why Are Soap Bubbles Approximately Spherical?” by Anisa Chorwadwala



  
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## List of Registered Participants (A talk by Dr. Anisa, 17 Jan 2022)

Sr. No.	Full name	Name of the College/Institute	Student/faculty	Class	Roll No.
1	Pratima Santosh Bhosale	Ramniranjan junjunwala college , Ghatkopar	Student	Fybsc	110
2	Chandan Suresh Tiwari	RJ College	Student	Fybsc	14
3	Shubham shivprakash Yadav	RJ, Ghatkopar	Student	SYBSC	237
4	Khan fahima khatoon shahalam	Ramniranjan Jhunjhunwala College Ghatkopar	Student	S.Y.B.SC	301
5	Vijaya Bhimrao pagare	R K Telereja College	Student	T y bsc	2E+06
6	Roshni Rajendra Kumar Jaiswal Neetu	R.J.College	Student	T.Y.BSc (Mathematics)	311
7	Vipul Sureshkumar Dwivedi	Ramniranjan Jhunjhunwala College	Student	T.Y.B.Sc.	307
8	Rajat Vijay Maurya	Vivekaanand Education Society	Student	FYBSC-PCM	117
9	Subhash Mallinath Gaded	Seva Sadan's R K Talreja College of Arts Science and Commerce Ulhasnagar-03	faculty		
10	Suraj Rameshwar Tidke	Chandibai Himathlal Mansukhani College	Student	Fybsc,PCM	61
11	Nida Mohd Farooq Siddiqui	Smt CHM College	Student	SYBSc- PM	619
12	Shumayla Furkan Ansari	Vivekananda Education Society's College of Arts Science and Commerce	Student	Fy-bsc	103
13	Kumar Bhanudas Randhwan	VES College of Arts Science and Commerce	Student	FyBSc PCM	124
14	Sanjay Nivrutti Ghodke	K. P. B. Hinduja College Of Commerce	faculty		
15	Vinayak Dhananjay Singh	C. H. M College	Student	F.Y.B.S.C	54
16	Shivam Krishna Pandey	Ramniranjan Jhunjhunwala College	Student	Sybsc	332



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18	Jaswanth Shakuntala Pandey	Ramniranjan Jhunjunwala College	Student	S.Y.Bsc	222
19	Neelam ramnath harijan	V. E. S college of art, sci & comm(chembur)	Student	Tybsc(maths)	2
20	Sagar Shivcharan Gupta	Ramniranjan Jhunjunwala College	Student	TYBsc Mathematics	309
21	Sumit Ashok Chaurasiya	Ramniranjan Jhunjunwala College	Student	T. Y. B.sc	306
22	Chaudhary Murshida Khatoon	RJ college	Student	Tybsc B	305
23	Yogesh Balu Dalvi	Ramniranjan Jhunjunwala College	Student	Sybsc	204
24	Utkarsh Avinash Mishra	Ramniranjan Jhunjunwala College	Student	SyBsc	361
25	Gopi Panchamram Vishwakarma	Ramniranjan Jhunjunwala College, Ghatkopar	Student	Sybsc	232
26	Lalita Khorwal		faculty		
27	Mithilesh Rajdatta Shinde	Ramniranjan Jhunjunwala College	Student	Sybsc	226
28	Akash Sushil kumar Upadhyay	Ramniranjan Jhunjunwala college	Student	Tybsc	328
29	Patel Kiran Kamlesh	Rk Talreja College of Arts Science and Commerce	Student	Tybsc	2E+06
30	Abhishek Johan Sahani	Ramniranjan Jhunjunwala College	Student	Tybsc	321
31	Mubashera Ansar Ahmed Siddiqui	Ramniranjan Jhunjunwala College	Student	T.Y.B.Sc	325
32	Bushra Salim Shaikh	St Xavier's College	Student	FYBSc	555
33	Atharva Paramjit Pall	St Xavier's	Student	FYBSc	396
34	Shaikh Nemat Kalim	Ramniranjan Jhunjunwala college	Student	Sybsc	342



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35	Velencia Victor Almeida	St. Xavier's College	Student	FYBSC	676
36	Ganesh Chandrakant Takkalaki	Ramniranjan Jhunjhunwala college	Student	SyBSc	347
37	Ankita Yogesh Vishwakarma	Royal College of arts science and commerce	Student	Sybsc	89
38	Asha Aniruddha Yadav	Ramniranjan Jhunjhunwala College	Student	SYBSC	353
39	Manishkumar Rajendraprasad Jaiswal	Shri Chinai College of Commerce and Economics	faculty		
40	Tanvi Tapas Das	Royal College of Arts Science and Commerce	Student	Sybsc	90
41	Seema Harilal Pal	Ramniranjan Jhunjhunwala college	Student	Sybsc	327
42	Neelam Nandlal Kannaujiya	R.J college	Student	T.Y.B.Sc	312
43	Deep Bhavesh Padharia	SIES ASCS	Student	SYBSC	465

*Mary Jarry*

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29	Patel Kiran Kamlesh	Rk Talreja College of Arts Science and Commerce	Student	Tybsc	2E+06
30	Abhishek Johan Sahani	Ramniranjan Jhunjunwala College	Student	Tybsc	321
31	Mubashera Ansar Ahmed Siddiqui	Ramniranjan Jhunjunwala College	Student	T.Y.B.Sc	325
32	Bushra Salim Shaikh	St Xavier's College	Student	FYBSc	555
33	Atharva Paramjit Pall	St Xavier's	Student	FYBSc	396
34	Shaikh Nemat Kalim	Ramniranjan Jhunjunwala college	Student	Sybsc	342



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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)



# 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.

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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)

## List of attended Participants (A talk by Dr. Anisa, 17 Jan 2022)

Sr. No.	Full name	Name of the College/Institute	Student/faculty	Class	Roll No.
35	Velencia Victor Almeida	St. Xavier's College	Student	FYBSC	676
36	Ganesh Chandrakant Takkalaki	Ramniranjan Jhunjhunwala College	Student	SyBSc	347
37	Ankita Yogesh Vishwakarma	Royal College of Arts Science and Commerce	Student	Sybsc	89
38	Asha Aniruddha Yadav	Ramniranjan Jhunjhunwala College	Student	SYBSC	353
39	Manishkumar Rajendraprasad Jaiswal	Shri Chinai College of Commerce and Economics	faculty		
40	Tanvi Tapas Das	Royal College of Arts Science and Commerce	Student	Sybsc	90
41	Seema Harilal Pal	Ramniranjan Jhunjhunwala college	Student	Sybsc	327
42	Neelam Nandlal Kannaujiya	R.J College	Student	T.Y.B.Sc	312
43	Deep Bhavesh Padharia	SIES ASCS	Student	SYBSC	465

*Mary Jary*

Head,

Department of Mathematics



*[Signature]*

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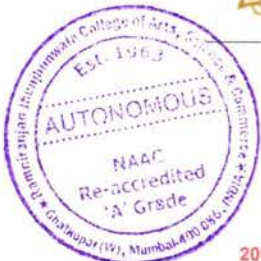
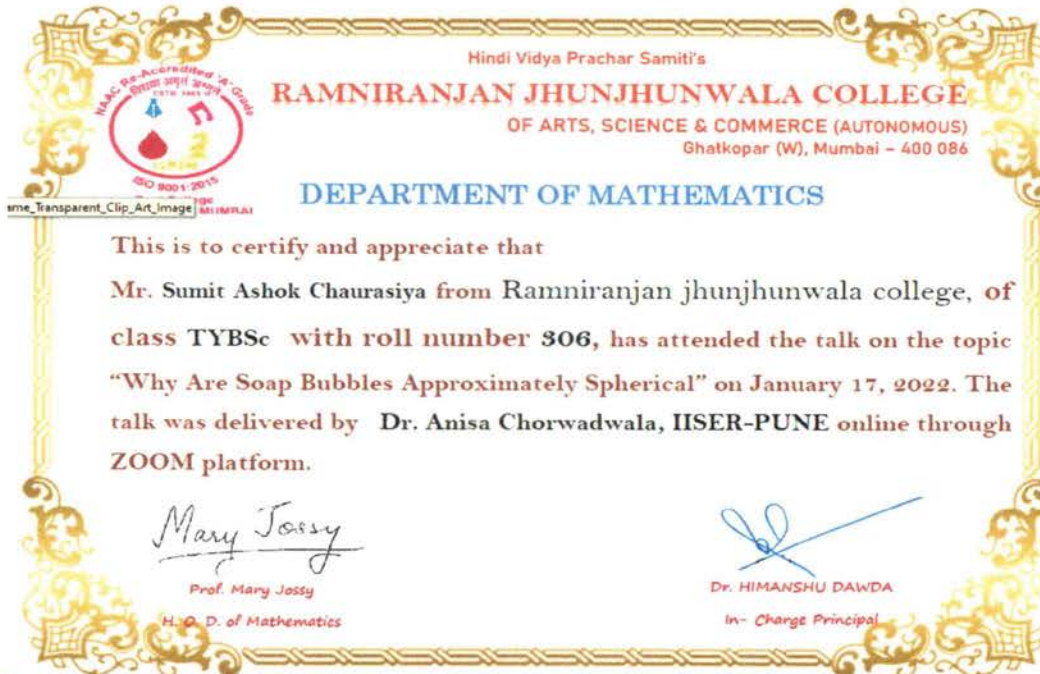
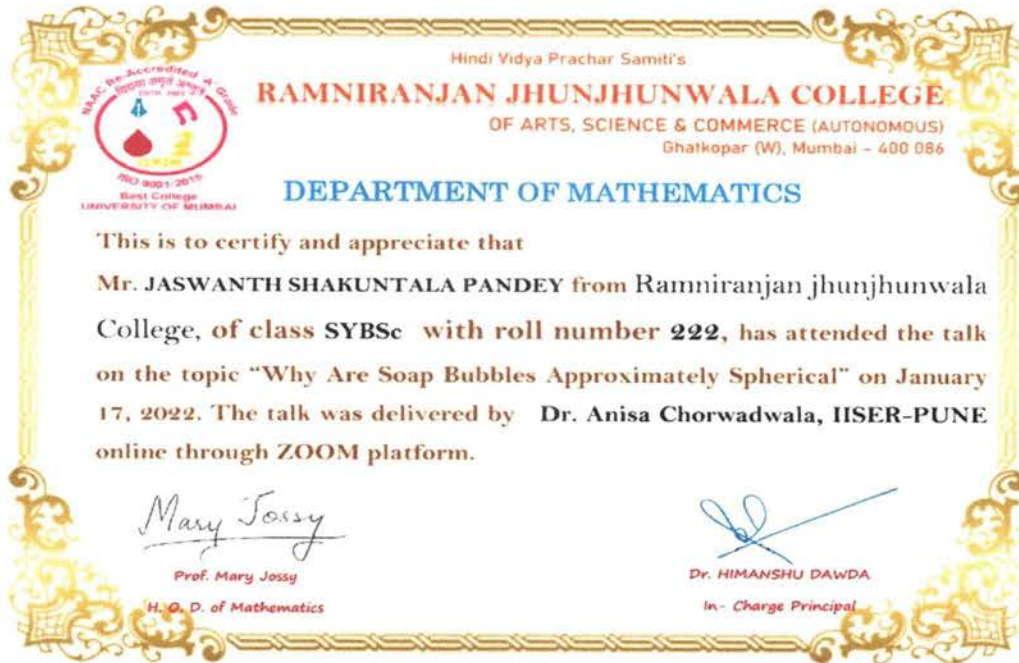
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CertificateS of the talk by Dr Anisa Chorwadwala, 17 Jan 2022



*Dr. Anisa Chorwadwala*  
PRINCIPAL

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