

**A REPORT**  
**on**  
**International Conference on "Recent Trends in Materials Science-  
Synthesis, Characterization and Applications" [RTMS- 2023]**  
**03<sup>rd</sup>-04<sup>th</sup> January 2023**

Department of Physics, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati organized Recent Trends in Materials Science- Synthesis, Characterization and Applications" [RTMS – 2023] during 03<sup>rd</sup>-04<sup>th</sup> January 2023 on the occasion of "Azadi Ka Amrit Mahotsav" and "Dimond Jubilee Year of College".

Total 06 foreign delegates from Australia, China, France, chzek Republic, Ireland, South Korea and 102 faculty and students participated in the conference from South Korea and various states of India like Uttar Pradesh, Delhi, Rajasthan and Maharashtra. There were 03 plenary talks, 08 invited talks, 26 oral presentations and 44 poster presentations in the conference.

The conference was inaugurated by Prof. Dr. Pandit Vidyasagar (Former VC. SRTM University, Nanded). On this occasion, Hon. Shri. Milind Shaha, Secretary, Anekant Education Society Baramati, Prof. Dr. Pramod Patil (Pro. VC Shivaji University, Kolhapur), Prof. Dr. Bharat Kale (Director, C-MET Pune), Prof. Dr. Shivaji Pawar (Director CIAR), Hon. Dhananjay Jamdar, Dr. Chandrashekhar Murumkar, Convener and Principal, Prof. Dr. P.C. Pingale, Co-Convener and Head Department of Physics, Dr. R. T. Sapkal, Co-ordinator, and Prof. Dr. A. E. Kalange, Organizing Secretary, Dr. R.D. Mane were present.

At the inaugural function, Principal Dr. Chandrashekhar Murumkar welcomed the delegates on behalf of organizing committee. Prof. Dr. P.C. Pingale in his introductory speech focused on objectives and scope of the conference.

Inauguration of Abstract Book Proceedings of RTMS-2023 along with two other books *Silk Fibroin: Advances in Applications and Research*-Edited by Prof. Dr. S.H. Pawar (NOVA Science Publisher, USA) and *Modern Optics*-Written by Dr. R. D. Mane (Shubham Publication, Kanpur) is done by dignitaries on the dais. Key note address was delivered by Prof. Dr. Pandit Vidyasagar (Former VC, SRTM University, Nanded). Hon. Mr. Milind Shaha gave the presidential speech. Prof. Dr. A. E. Kalange proposed the vote of thanks.

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Prof. Dr. Bharat Kale (Director, C-MET Pune), Prof. Dr. Pramod Patil (Pro. VC Shivaji University, Kolhapur), Prof. Dr. Shivaji Pawar (Director CIAR), delivered plenary talks. Prof. Dr. Deepak Dubal (Professor at Queensland University of Technology Australia), Dr. Sonali Rohiwal (Institute of Animal Physiology and Genetics- chzek Republic), Prof. Dr. Vikas Patil (I/C Pro Vice-Chancellor Punyashlok Ahilyadevi Holkar Solapur University, Solapur), Dr. Ramesh Deokate, Dr. Raghvendra Bohara (Biomedical Sciences, University of Galway, Ireland), Dr. Harpal Rana (France), Dr. Sandip Patil (Scientist, Shenzhen Children Hospital, Shenzhen- China) delivered invited talks.

Poster presentation session was evaluated by Dr. Dhanaji Dalavi and Dr. Kalpesh Chandekar on 3<sup>rd</sup> January 2023. There were 44 posters presented by the faculty and participants.

At the valedictory function, Hon. Prof. Arun Patil Vice Chancellor Sanjay Ghodavat University, Kolhapur was the chief guest and Hon. Vikas Shah Lengarekar was guest of honor. Principal Dr. Chandrashekar Murumkar was the president of the function. Ms. Girija Mahamuni, a representative from participant expressed her views on the organization of conference. Dr. R. D. Mane announced the awards for best Oral and poster presentations. Prof. Arun Patil felicitated Dr. Chandrashekar Murumkar, Prof. Dr. P.C. Pingale, Prof. Dr. A. E. Kalange and Dr. R. T. Sapkal for the successful organization of the conference. Dr. R. T. Sapkal proposed vote of thanks.

Department of Physics, Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati thanks *RUSA New Delhi* for providing financial support to organize this international conference.



**Organizing secretary**

**Prof. Dr. A.E. Kalange**



**Co-ordinator & Vice Principal**

**Dr. R.T. Sapkal**



**Co-Convener & HoD Physics**

**Prof. Dr. P.C. Pingale**

Anekant Education Society's  
Tuljaram Chaturchand College, Baramati  
(Autonomous)

**International Conference on**

"RECENT TRENDS IN MATERIALS SCIENCE-SYNTHESIS, CHARACTERIZATION AND APPLICATIONS"

(RTMS- 2023)

Attendance

January 03-04, 2023

Sr.No	Name	Name of College	03/01/2023	04/01/2023
1	Ravishankar Ramesh Ambi	Jaysingpur College, Jaysingpur	<i>[Signature]</i>	<i>[Signature]</i>
2	Tejashree Aher	Abasaheb Garware College, Pune	<i>[Signature]</i>	<i>[Signature]</i>
3	Ms. Manjusha Nandalal Pawar	G.S. Tompe Arts, Commerce	<i>[Signature]</i>	<i>[Signature]</i>
4	Kamlesh Vasant Rao Chandekar	Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai	<i>[Signature]</i>	<i>[Signature]</i>
5	Prof. Yadav Sarjerao Pandurang	K. B. P. College, Vashi, Navi Mumbai 400703	<i>[Signature]</i>	<i>[Signature]</i>
6	Miss. Mane Aparna Tanaji	Tibrewala University, Jhunjhunu Rajasthan	<i>[Signature]</i>	<i>[Signature]</i>
7	Mr. Shinde Dinesh Prakash	Karmaveer Bhaurao Patil Mahavidyalaya Pandharpur	<i>[Signature]</i>	<i>[Signature]</i>
8	Dr. Tanaji Ramchandra Mane	Sangola College Sangola	<i>[Signature]</i>	<i>[Signature]</i>
9	Sandip Mahadeo Nikam	Bhagawati Mahavidyalaya Kurukali	<i>[Signature]</i>	<i>[Signature]</i>
10	Bade Sujata Bhagwat	Ahmednagar college Ahmednagar	<i>[Signature]</i>	<i>[Signature]</i>
11	Anand Ashok Bansode	Indapur College, Indapur	<i>[Signature]</i>	<i>[Signature]</i>
12	Sujit Sambhaji Mhaske	Tuljaram chaturchand collage Baramati	<i>[Signature]</i>	<i>[Signature]</i>
13	LADHANE SANDIP ASHOK	Shri Shiv Chhatrapati College, Junnar	<i>[Signature]</i>	<i>[Signature]</i>
14	PAYAL SOMNATH GHORPADE	Sharadchandra Pawar Mahavidyalaya Lonand	<i>[Signature]</i>	<i>[Signature]</i>
15	Mr. Avinash Tanaji Mane	Shankarrao Mohite Mahavidyalaya, Akluj	<i>[Signature]</i>	<i>[Signature]</i>
16	Aparna Pandharinath Kulkarni	MES Abasaheb Garware College, Pune	<i>[Signature]</i>	<i>[Signature]</i>
17	Thorat Sopan Muralidhar	Tuljaram Chaturchand College	<i>[Signature]</i>	<i>[Signature]</i>
18	Thube Sanjay Gajaba	Dada Patil Mahavidyalaya, Karjat	<i>[Signature]</i>	<i>[Signature]</i>
19	Ramesh N. Zade	Siddharth College, Fort, Mumbai	<i>[Signature]</i>	<i>[Signature]</i>
20	Girija Prashant Mahamuni	Department of Physics, University of Mumbai	<i>[Signature]</i>	<i>[Signature]</i>
21	Hitesh G Pande	VBMV, AMRAVATI	<i>[Signature]</i>	<i>[Signature]</i>
22	TUSHAR R INGLE	VBMV, AMRAVATI	<i>[Signature]</i>	<i>[Signature]</i>
23	Pise Prashant Suresh	Jaysingpur College Jaysingpur	<i>[Signature]</i>	<i>[Signature]</i>
24	Smt. Wagh Aparna Damodhar	New Arts, Commerce and Science college, Shevgaon	<i>[Signature]</i>	<i>[Signature]</i>
25	Sonail Bagwan	Abeda Inamdhar Senior College, Pune	<i>[Signature]</i>	<i>[Signature]</i>
26	Shreyas Uday Bhojraj	MES Abasaheb Garware College of Arts and Science, Pune	<i>[Signature]</i>	<i>[Signature]</i>



		03/01/2023	04/01/2023
66	DHERE RUSHIKESH DILIP	TULJARAM CHATURCHAND COLLAGE BARAMTI	
67	Mr. Anarthe Shivaji S.	P.V.P.College, Pravaranagar, Dist- Ahmednagar	
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82	Bhiste Shivani Dhananjay	Tuljaram chaturchand college of Baramati	
83	Bhambure Sayali Santosh	Tuljaram Chaturchand College Baramati.	
84	Jayashree Bagawade	Vidya Pratishthan's Arts, Science and Commerce College, Baramati	
85	Dr. Vijay Sampat Mohite	Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati	
86	SUPRIYA JYOTIRAM SHINDE	S.P.M.M. College Shardanagar, Baramati	
87	Dr. Rahul Subhash Bhondwe	Tuljaram Chaturchand College Baramati	
88	Dr. Dhanaji Suresh Dalavi	Krishna Mahavidyalaya, Rethare Bk	
89	Dr. Vaibhav Prabhakar Landage	TULJARAM CHATURCHAND COLLEGE, BARAMATI	
90	Mr. Jadhav Vinayak S.	Krishna Mahavidyalaya Rethare Skill Tale-kanad	
91	Shinde Nisha Bharat	Tuljaram chaturchand college baramati	
92	Shinde Veishali R.		
93	Rasal Devidas Venaji	Id. K.G. Kataria College, Daund	
94	Jadhav Anar Suraj	Tuljaram chaturchand collage	
95	Bhosale Dnyaneshwar	Tuljaram Chaturchand collage	
96	Sorate Aditya Subhat	Tuljaram Chaturchand collage	
97	Kale Shabbir Bhagwat	Tuljaram Chaturchand collage	
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99	Dhane N.K.	T.C college, Baramati	
100	Jagtap N.A.	T.C college, Baramati	
101	Kale Kalyani C.	T.C. College, Baramati	
102	Dr. P. P. M. P.	T.C. College Baramati	
103	P.M. Mohite	T.C. College Baramati	
104	Ms. A.G. Deshmukh	T. C. College, Baramati	
105	Pawar Aishwarya Chandrakant	T.C college, Baramati	
106	Khandekar Nikita Ranjit	T.c college, Baramati.	
107	Bankar Snehal Dattatray	T.c. college Baramati	

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Handwritten signatures and initials in the right margin, corresponding to the rows of the table. Some names are written in blue ink, others in black. The dates 03/01/2023 and 04/01/2023 are written at the top of the columns.

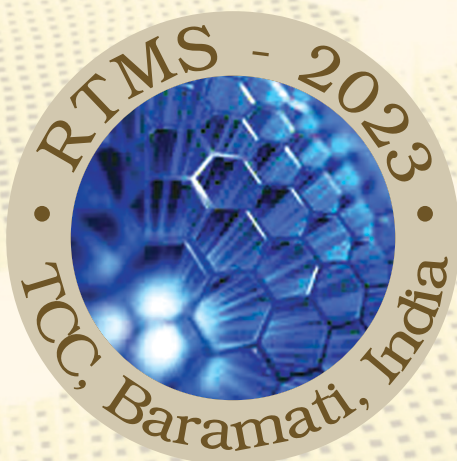
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28	Nagesh Babaso Kothawale	Jaysingpur College, Jaysingpur		
29	Mr. Pravin Sitaram More	Mithibai College, Mumbai-56		
30	KALANGE ASHOK EKNATH	Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati		
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32	Prof Dr Pandurang Chilu Pingale	Tuljaram Chaturchand College, Baramati		
33	Rohini Gire	TULJARAM CHATURCHAND COLLEGE BARAMATI		
34	Nalage pushpak Tanaji	Tuljaram chalurchand collage Baramati		
35	Vedpathak Gauri Prakash	Tuljaram Chaturchand College Baramati		
36	Dr Ramchandra T. Sapkal	T. C. College		
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38	Jayashri Vitthal Waghmode	Tuljaram Chaturchand College of Baramati		
39	SEEMA SHANKARRAO BHOYAR	SAVITRIBAI PHULE PUNE UNIVERSITY PUNE		
40	Sachin Tanwade	T. C. College Baramati Dist Pune		
41	Shubhangi Eknath Bhosale	T. C. College Baramati		
42	Tushar Balu More	VJTI, Mumbai		
43	Ashwini Rahul Palake	Department of Chemistry, SPPU		
44	Mr. Suraj Chandrabhan Bulakhe	Loknete Gopinathji Munde Arts, Mandangad, Dist-Ratnagiri 415203 (M.S.)		
45	Dr. Sachin Babasaheb Kulkarni	Tuljaram Chaturchand College Baramati		
46	KAKADE SANDIP BHIMRAO	Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati		
47	Dr. Swapnil Jinendra Rajoba	Tuljaram Chaturchand College Baramati		
48	Ganesh Sayaji Lonakar	Tuljaram Chaturchand College, Baramati		
49	DR. RAVINDRA DAMODAR MANE	Tuljaram Chaturchand College, Baramati		
50	Kiran Vinayak Madhale	Institute of Science Mumbai		
51	Salunkhe Dipali Jagannath	Tuljaram chaturchand College, Baramati		
52	Vasant Murlidhar Nikale	Dada Patil Mahavidyalaya, karjat		
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65	Ekatpure Mahesh Shridhar	Tuljaram Chaturchand Collage, Baramati.		





**INTERNATIONAL CONFERENCE ON  
“RECENT TRENDS IN MATERIALS SCIENCE-SYNTHESIS,  
CHARACTERIZATION AND APPLICATIONS”  
(RTMS-2023)**



**January 03-04, 2023**

**Organized by**

**Department of Physics**

**Anekant Education Society's**

**Tuljaram Chaturchand College of Arts, Science and Commerce,**

**Baramati - 413 102, Dist. Pune, Maharashtra, India**

**(Autonomous Status)**

**[www.tccollege.org](http://www.tccollege.org)**

## Invitation

Tuljaram Chaturchand College of Arts, Science, and Commerce, Baramati, Maharashtra, India is organizing an “**INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MATERIALS SCIENCE- SYNTHESIS, CHARACTERIZATION AND APPLICATIONS (RTMS - 2023)**” held on 3<sup>rd</sup> and 4<sup>th</sup> January 2023. The conference will emphasize all disciplines of Synthesis, Processing, and Characterization of Materials and will provide an excellent platform for eminent scientists, and researchers to explore and share the advancements in different kinds of materials and their applications.

## Objectives of the Conference

- ▶ The purpose of this conference is to explore, disseminate and strengthen initiatives in new directions related to the synthesis, characterization, and processing of Materials.
- ▶ This conference aims to foster and conduct collaborative interdisciplinary research in materials science and engineering.
- ▶ To provide a forum for researchers from academia and industries and an excellent opportunity to explore and share the advancements in different kinds of materials and their applications.

## Scope of Conference Includes, but is Not Limited to:

- ▶ Synthesis, Processing, & Characterization
- ▶ Nanomaterials
- ▶ Biomaterials
- ▶ Energy Storage Materials
- ▶ Magnetic Materials
- ▶ Photovoltaic Materials
- ▶ Sensor Materials
- ▶ Photonics and image processing
- ▶ Materials in Electronics
- ▶ Bioinformatics
- ▶ Computation for Materials

## About the College

Tuljaram Chaturchand College of Arts, Science, and Commerce, Baramati, Pune is one of the leading and prestigious colleges in Maharashtra established in 1962, with blessings from Jain Saint Late “Samantbhandra Maharaj”. It runs by the Anekant Education Society, Baramati established in 1961. The college has been awarded religious minority status in 2007 and its core philosophy is 'Siddhiranekantat' i.e. meaning Multidimensionalism. Our motto, 'We for Students' is at the heart of everything we do at the college. Keeping pace with modern trends in higher education, the college has full-fledged UG courses in Arts, Science, and Commerce along with PG courses almost in all subjects of different streams as well as Ph. D. Research centres.

The College has been reaccredited for the third cycle with an 'A' grade (CGPA 3.55) by NAAC, Bangalore in 2017. It has been awarded the status of 'College with Potential for Excellence' by UGC and has been selected for the STAR College scheme by DBT & DST-FIST scheme by DST, New Delhi. The college has received several awards from Savitribai Phule Pune University, Pune including the Best College Award, Best Principal Award, Best Student Welfare Officer Award, Best NSS Coordinator Award, Best NSS Unit Award, Best NSS volunteer award, and also the recipient of awards from the Maharashtra Government.

Today, the Tuljaram Chaturchand College, Baramati stands tall, catering to more than 11,000 students from and around Baramati, providing quality education and reshaping them into responsible youth of India.

## About Post Graduate Department of Physics

The Department of Physics has been established in June 1962 and is recognized as Research Centre affiliated with Savitribai Phule Pune University, Pune. Department also runs UG and PG courses in Physics. It has a strong research wing with several major and minor completed as well as ongoing research projects. All faculty members are with strong research backgrounds and senior faculties are recognized as Ph.D. guides. Department is known for its contribution to many research papers published by faculty in national and international journals.

### Call for Abstract

The participants are requested to send abstracts in English on or before 30<sup>th</sup> November 2022. The abstract should be typed with a maximum of 250 words in Times New Roman font in size 12 points and line spacing 1.5 on a sheet of A4 size in MS Word. You are requested to send the abstract by e-mail: [rtms2023@gmail.com](mailto:rtms2023@gmail.com). Conference proceeding will be Published with all accepted abstract.

### Full Papers

Full-length papers should be sent by -  
e-mail: [rtms2023@gmail.com](mailto:rtms2023@gmail.com)  
and reach on or before 15<sup>th</sup> December 2022.

Full length research papers will be considered for the publication after rigorous peer review process in the UGC care / peer reviewed journal.

### Registration Fees

Delegates are requested to register their names by sending the completed Registration Form and paying fees electronically or by DD payable at Baramati (Dist. Pune), India in favor of 'Principal, Tuljaram Chaturchand College' Baramati, should send on or before 30<sup>th</sup> November 2022.

**Registration link:**  
<https://forms.gle/w5JE8RSLfuZ9BXnj8>

### Bank account details

Name: Principal, T.C.C. Sr. Non Grant Courses  
Bank of Maharashtra, Baramati.  
A/C. No: 20100269991  
IFSC Code: MAHB 0000073

### Accommodation

Baramati has a wide range of hotels to suit every budget. The hotel accommodation can be booked directly by delegates at any one of the following hotels. You can check on link [www.tccollege.org](http://www.tccollege.org)

### Travel Information

- ▶ Baramati is 100 km away from Pune, 300 km from Mumbai and 40 km from Daund by road.
- ▶ Baramati railway station is well connected with Pune (for north, east and west sides) and Solapur (for south side) via Daund railway junction.
- ▶ Nearest Airports are Pune and Mumbai.

For more details check the link [www.tccollege.org](http://www.tccollege.org) [How to reach]

Category	Registration up to 30/11/22	Registration After 30/11/22
Foreign Delegates	\$ 150/-	\$ 170/-
Indian Delegates	Rs. 3500/-	Rs. 4000/-
Research Students	Rs. 2500/-	Rs. 3000/-
Industrial Delegates	Rs. 5000/-	Rs. 6000/-

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Baramati Dist. Pune

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State Project Director, Government of Maharashtra

#### Hon. Shri. Jawahar Shah (Wagholikar)

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#### Prof. Dr. Shivaji Pawar

Director, CIAR Baramati, Former Vice-Chancellor, D. Y. Patil University, Kolhapur



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## Correspondence

**Prof. (Dr.) Kalange Ashok Eknath**

**Organizing Secretary,**

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**INTERNATIONAL CONFERENCE ON  
“RECENT TRENDS IN MATERIALS SCIENCE-SYNTHESIS,  
CHARACTERIZATION AND APPLICATIONS”  
(RTMS-2023)**



**January 03-04, 2023**

To,

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**Organized by  
Department of Physics  
Anekant Education Society's  
Tuljaram Chaturchand College of Arts, Science and Commerce,  
Baramati - 413 102, Dist. Pune, Maharashtra, India  
(Autonomous Status)**

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