

DEPARTMENT OF CHEMISTRY
SRM Institute of Science and Technology
Kattankulathur – 603203, Tamil Nadu.

Report

3rd SRM Crystal Growing Challenge and Quiz Contest 2024 (05 October, 2024)

3rd SRM Crystal Growing Challenge & Quiz Contest 2024
(for School Students)
05th October 2024
Venue: University Building (ground floor)
Organised by
Department of Chemistry
SRM Institute of Science and Technology
Kattankulathur, Tamil Nadu 603203.

NAAC A++
UGC
KBC
NIRF (2024) 12th Ranked University
QS (2025) World Ranking one among 46 Indian Universities
THE (2024) World Ranking one among 91 Indian Universities
QS 4 Star Rated Globally
SHANGHAI RANKING (2024) World Ranking Ranked 5-7 in Indian Universities

The banner of the program.

Registration form

Name of the School / College: _____

Address: _____

Name of the Student: _____

Class: _____

Section: _____

Name of the Teacher In-charge: _____

Contact details: _____

Sir/madam

The undersigned is pleased to nominate the above mentioned students to participate in the Science competition for School students organized by Department of Chemistry, SRMIST.

Signature of the principal with seal

Date: _____

Online Registration

<https://docs.google.com/forms/d/e/1FAIpQLSfxzHSva2RUzMPegMTeryeNpN9hkXKB8kGxN0boS2mX37v2Zg/viewform?usp=sharing>



CHIEF PATRONS

Dr. T. R. Paarivendhar, Founder Chancellor
Dr. Ravi Pachamuthu, Pro-Chancellor (Admin)
Dr. P. Sathyanarayanan, Pro-Chancellor (Academics)
Dr. R. Shivakumar, Chairman, SRMIST
(Ramapuram and Trichy Campuses)

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Dr. D. John Thiruvadigal, Dean (Sciences), SRMIST
Dr. B. Neppolian, Dean, Research, SRMIST

CONVENOR

Dr. M. Arthanareeswari, Professor and Head

CO-CONVENORS

Dr. Goutam Kumar Kole, Asst. Prof.
Dr. T. Pushpa Malini, Asst. Prof.
Dr. R. Kalaivizhi, Assoc. Prof.
Dr. Samarendra Maji, Res. Assoc. Prof.
Dr. A. John Bosco, Asst. Prof.
Dr. Ganesh Pandian, Assoc. Prof.

COORDINATORS

Dr. Tumpa Sadhukhan, Res. Asst. Prof.
Dr. S. Vadivel, Res. Asst. Prof.
Dr. Jayanta Samanta, Res. Asst. Prof.
Dr. N. Clament Sagaya Selvam, Res. Asst. Prof.
Dr. S. Anandha Kumar, Res. Asst. Prof.
Dr. Abhilash Pullanchiyodan, Res. Asst. Prof.



3rd SRM Crystal Growing Challenge



05 October 2024



Organized by

DEPARTMENT OF CHEMISTRY
SRM Institute of Science and Technology
Kattankulathur, 603203, Tamil Nadu.

ABOUT THE INSTITUTION

SRM Institute of Science and Technology is one of the top ranking Universities in India with over approx. 60,000 students and 3000 faculty members, offering a wide range of undergraduate, postgraduate, and doctoral programs in Science, Engineering, Management, Medicine, Health Sciences, and Humanities. It has established itself as a premier centre for teaching, research, and industrial consultancy in the country. It has world class infrastructure including smart classrooms, hi-tech labs, advanced instruments and equipments, research laboratories, modern library and Wi-Fi facility. Ministry of HRD, Govt. of India placed SRMIST in the category I. SRMIST is accredited by NAAC with an A++ grade in 2024.

ABOUT THE DEPARTMENT

Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur, has been engaged in opening up the fascinating world of Chemistry to students since 1985. The Department is supported by DST FIST, Govt. of India. The Department is offering B.Sc. (Chemistry, 3 years), B.S. (Chemistry, 4 years) M.Sc. (Chemistry), M.Sc. (Organic Chemistry) and Ph.D. (Chemistry) programs. It has 65 faculty members whose areas of expertise and research include organic, inorganic, physical, analytical, environmental, electrochemistry and nanotechnology. The faculty members of the department have contributed to academics by publishing books, research articles in high-impact peer-reviewed journals, presenting papers in conferences, delivering guest lectures, and invited talks. The Department has tie-ups with recognized institutions, industries and R&D laboratories for student projects, training and research activities. Chemistry at SRMIST has been ranked #351 – 400 in QS World Ranking by Subject in 2024.



WHO CAN ATTEND?

- Students studying at 11th & 12th standard, and Undergraduate levels can participate

BENEFITS OF THIS COMPETITION

- By participating in the 'crystal growing challenge', students will learn how to grow single crystals. This will raise curiosity among the students to know how crystals of the minerals grow naturally on the earth's crust; and the importance of single crystals in Chemistry research.
- Participation in the quiz contest will help them to explore beyond the textbooks, and think outside the box. This will also help them to perform well in other competitive exams and in higher education.

Our Rankings :-



DETAILS OF THE COMPETITIONS

1. Crystal Growing Challenge

- A group of 4 students can grow single crystals at their home institute, and showcase them on the day of the competition at SRMIST.
- Two groups from one institute can participate in the competition.
- Participants should arrange chemical(s) for crystal growth in their own institute.
- Each student should register separately.
- Participation in the competition is free of any charge.

2. Quiz Competition

- On General Chemistry
- Only for HS students, a team of 4 students.

DATE AND TIME

- 05 October 2024
- 10 am to 3 pm.
- Last Date of Registration
- 30 September 2024

ADDRESS FOR COMMUNICATION

- All communications may be sent via email to: goutamks@srmist.edu.in

PRIZE DISTRIBUTION

- Three prizes will be given to the 1st, 2nd and 3rd winners for each of two competitions.

PARTICIPATION CERTIFICATES

- Certificates would be issued to the registered participants only.

☒ Lunch and local transport will be provided.

Brochure of the programme..

The 3rd edition of the SRM Crystal Growing Challenge (3rd-SRMCGC) was conducted by the Department of Chemistry, SRMIST, Kattankulathur, to reach out to the high school (11th and 12th) students from the neighbourhood. The programme was also combined with a quiz contest to make it more attractive. The program was intended to attract potential students' community and get to know and explore more about the campus and opportunities offered by, and facilities of SRMIST. There was no registration fee to participate in this programme. Transport facilities, refreshments and lunch were provided to all the participants and accompanying teachers. Efforts were taken to spread the fragrance of goodness of SRMIST to the higher secondary students.

Faculty members from the Department of Chemistry, SRMIST, who acted as the organising committee members for the programme, personally visited many schools to invite them. Also, they have taken the initiative to explain the science and arts of crystal growth, and answered all the queries raised by the teachers and students during their venture into crystal growth. 220 students from 22 different schools registered online via the Google link provided. 200 students from 20 different high schools appeared and participated on the day. In addition, 3 students from one UG college also participated. The name list of participating schools and their students is appended below. We received overwhelming responses from students and accompanying teachers.

In the morning, registration started at 8:30 am. Students in a team of four members displayed beautiful crystals of various commonly available chemicals (thorough guidelines were shared with the participants well in advance), grown by themselves at their home institutions, at the ground floor lobby at the University building. The innovative ideas of showcasing their crystals by the participants were commendable. The exhibition remained open for all to explore until 12:00 pm. Respected **Vice-Chancellor Prof. Dr. C. Muthamizhchelvan** graced the exhibition and interacted with the participating young minds. **Dr. V. Thirumurugan**, Associate Director, campus-life, also visited the exhibition. Faculty members of the Department of Chemistry, SRMIST also visited the exhibition. They all interacted with the young participants actively and inquired about their career goals. We hope the young students have been motivated and inspired by the valuable interaction with the dignitaries. A group of three-member judges – **Dr. S. Sreejith**, Res. Asst. Prof., **Dr. B. Vedhanarayanan**, Res. Asst. Prof. and **Dr. D. Karthik**, Res. Asst. Prof. inspected the quality of the crystals and interacted with the participants. Based on their evaluation following **six teams** (6 x 4 = 24 students) were selected for prizes.

Award for Crystal Growth	Name of the School	Name of the students
1st (joint)	Zion International Public School, Puthur, Mappedu	1. Krisanth R. 2. Ansely Immanuel A.
1st (joint)	Shree Nikethan Patasala, Varadarajapuram	1. Aishwarya R. L. 2. T. Danica L. C. 3. Tharikasini G. 4. Akkshaya S.
2nd (joint)	Srm Public School, Guduvanchery	1. Shree Vignesh S. 2. Sri Senthil Kumaran V. S. 3. Jessica P. 4. Keerthana M.
2nd (joint)	Alwin International School	1. Keshwan Kederick Martin Selvaraj

		2. B. G. Sachin 3. Arjun Takku Kumara Kannan 4. Kailash Krishnamoorthy
3rd (joint)	Ramakrishna Mission Matriculation Higher Secondary School, Chengalpattu	1. Yadav Harish 2. Md. Shahzeb 3. S. Sujit 4. R. S. Manish
3rd (joint)	Bharathiyar Matriculation Higher Secondary School, Guduvanchery	1. Sathish Kumar P. 2. Sadhana Priya M. 3. Mithra Hasini T. S. 4. Nandita G.

A written test was conducted to reach a final list of the following 10 schools for the quiz contest.

1. Loyola Academy CBSE Senior Secondary School, Vadamelpakkam.
2. Bharathiyar Matriculation Higher Secondary School, Guduvanchery.
3. SRM Public School, Guduvanchery.
4. JRK Global School, Maraimalai Nagar.
5. Zion International Public School, Puthur.
6. Mahindra World School, Chengalpattu.
7. Alwin International Public School, Padappai.
8. Shri Natesan Vidyasala Matriculation and Higher Secondary School, Mannivakkam.
9. Shree Niketan Patasala, Varadarajapuram.
10. Zion Matriculation Higher Secondary School, Selaiyur.

After the lunch break, the quiz contest started at 1:30 pm at Prof. G. N. Ramachandran Hall. A team of four students represented their schools. Other participants remained in the audience. **Dr. T. Pushpa Malini**, and her team **Dr. R. Kalaivizhi, Dr. Tumpa Sadhukhan, Dr. S. Anandhakumar, Dr. Clament Sagaya Selvam and Dr. Abhilash Pullanchiyodan** conducted the quiz. Some questions were reserved only for the audience to keep them active. Chocolates were given as a token of appreciation to the students from the audience for answering correctly. Based on the scores in the question-answer session, **three teams** were selected for the award.

Awards	Name of the School	Name of the participants
1st	Alwin International Public School, Padappai.	Rahul Goswami, Jana Annda Patel, B. Ghosanraj, Abilash Deivasigamani
2nd	Loyola Academy CBSE Senior Secondary School, Vadamelpakkam	Tamil Selvan T., Calvin Rhenius C., Gokul Balamurugan P. V., Felix Rithik B.
3rd	Shri Natesan Vidyasala Matriculation and Higher Secondary School, Mannivakkam	Girija Bharathi S., Hemalatha D., Niranjan R., Logeswaran K.

Prof. D. John Thiruvadigal, Dean (Sciences) graced the valedictory and prize distribution function at 3 pm. He addressed the audience and enlightened them about the importance of crystals

in scientific research, as well as personality development. All the winners in both events were awarded with a memento and a '*certificate of recognition*'. All other participants were given a '*participation certificate*'. The program ended at 4 pm. Faculty members and research scholars took responsibility for sending off the participants and accompanying teachers by SRMIST buses. Some glimpses of the program are provided herewith for reference.

Under the leadership of HoD, Chemistry (also Convener of SRMCGC 2024), **the co-conveners Dr. Goutam Kumar Kole , Dr. T. Pushpa Malini , Dr. R. Kalaivizhi , Dr. M. Ganesh Pandian, Dr. Samarendra Maji and Dr. A. John Bosco** took care of the event activities flawlessly. Certificates were prepared by **Dr. Jayanta Samanta**. The food was arranged by **Dr. B. Natarajan** and the finance was taken care by **Dr. D. Paradesi**.

Several **Research Scholars** voluntarily worked hard and helped the organizing committee members in various ways. The program was well-received by the participants and accompanying teachers of the participating schools. We feel that the program was a great success!

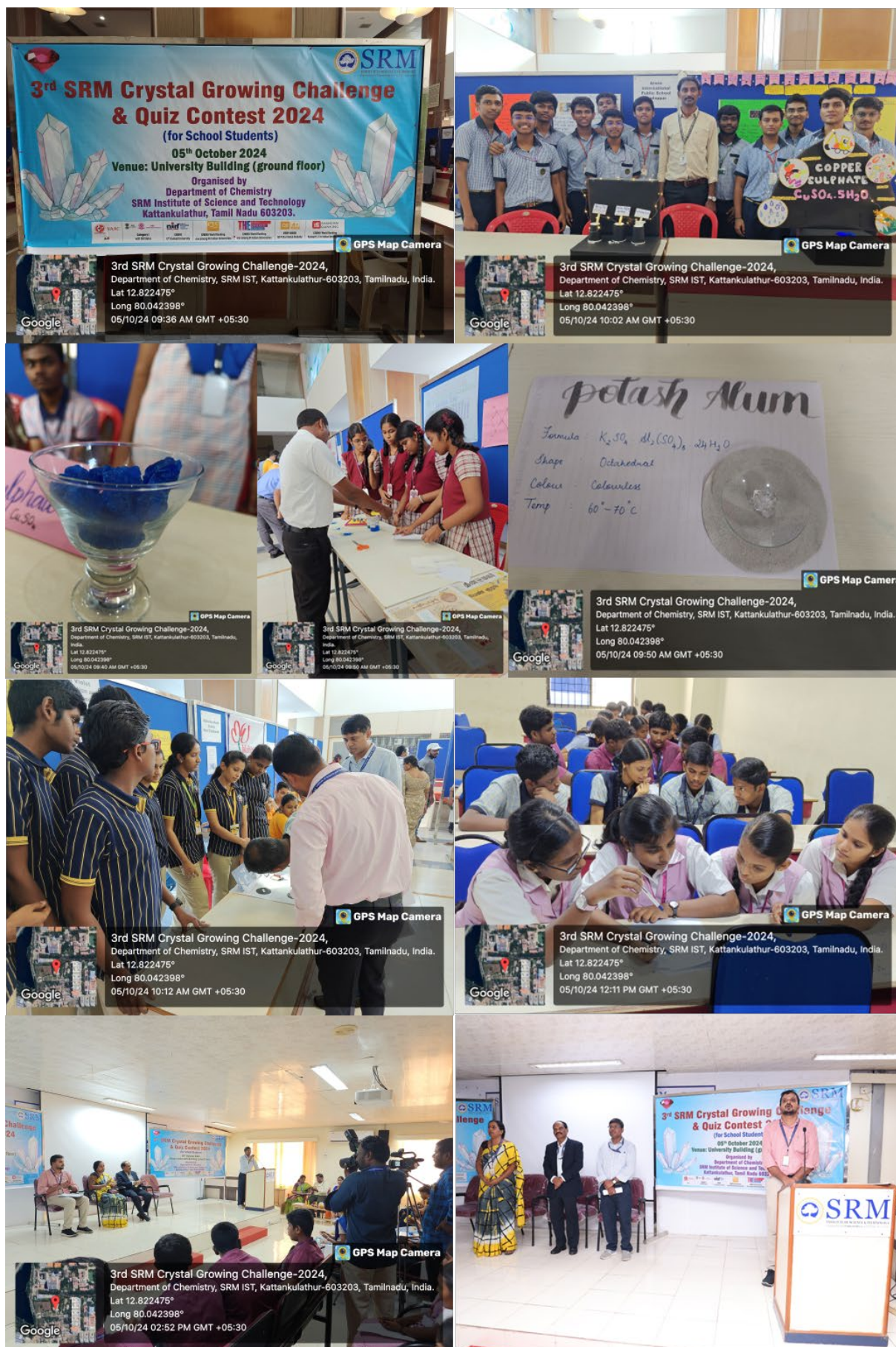
**Prof. M. Arthanareeswari,
Convener, SRMCGC 2024**

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Coordinators

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Dr. Clament Sagaya Selvam, Res. Asst. Prof.





Some glimpses of various events – the exhibition of crystals, quiz contest, valedictory function, distribution of certificates and mementos.

List of participating Schools and names of the students.

S. No.	School Names	Student Names
1	Loyola Academy CBSE Senior Secondary School	Afrooza Janna, Sangavi M., Priyadarshini, Divyesh, R. Vaishnavi, S. Asvika, Rakul, G. Monika, P. V. Gokul, Balamurugan C., Calvin Rhenius, Santhosh Subramanian, M. Cherlin, Beulah Christina, Robert, Krish Bala, Kaviya. A., Jebarish Kumar, Pradeep, G. Nivitha, Disha P J., Karthika, Nithin. G, Buvaresh, Infant Susindar Raj, S. Nandhini, Pavithra P N, S. Sanjay
2	Ramakrishna Mission Vidyalaya Matriculation Higher Secondary School	Padma Priya R., Harini K., Dhivyadarshini M., Architha M., Deetshitha M., Ragavi M., Suismitha R., Lakshmi Priya A. S., Yadhav Harish R., Sujit S., MD. Shahzeb, Manish R. S., Tamilarasu M., Deepak M., Booshan G., Charles Finny M.
3	St. Mark's Matriculation Higher Secondary School	Muralidaran S., Ayush R. Aarush Krishna A., Shyam R., Mithra S., Harshini K., Hariharan G., Hemanish R.
4	Bharathiyar Matriculation Higher Secondary School	Sathish Kumar, Santhana Priya, Mithrahasini, Azim Fathima, Sai Sanjay, Nandhitha, Priya, Asma Begum
5	SRM Public School	Shree Vignesh S., Sri Senthil Kumaran. V. S., Jessica P., Keerthana M., Kathik Sarvesh R., Sachit Krishna V., Darsh Jha, Roshini
6	JRK Global School	A. Aadhira, T. J. Arunika, S. Dharshini, P. P. Anamika, V. Aakshaya, Mythelii G. B., Pavitra Haasini B., Charusri S.
7	Sri Ramakrishna Mission Vidyalaya Boys Higher Secondary School	S. Sachin, K. Sathish, M. Yogesh, T. Nithish Kumar, M. Pradeep, E. Manoj, M. Rathesh, S. Elanchezhian, N. Nithish, B. Jashwanth, S. Bharat, R. Praveen, R. Jashwanth, U. Robin Raj, G. Akash, N. Siva
8	St. John Matriculation Higher Secondary School	Krithika B., R. Felice Fiona, M. Jeevasri, Yuvasri sk, V. Sri Keerthana, Abhimanyu V., A. Kumaravel, Rakesh S
9	Zion International Public School	S. Mirthula Fernando, Prasanna M., Jairus Thangaraj, Gadamsetty Venkata Nagalakshmi Sanjana, Katheryn Chris, Krishanth Raj Kumar, Ansley Immanuel, Chandra Vidhya S.
10	Sitadevi Garodia Hindu Vidhyala Matriculation Higher School	Lakshaya D., Dhanya M., Nivedita A., Keerthani S., K. Sadhana, Thanasekar S., Dharshini N., Dharshini R., K. Jelin sweety, Pradeepa, Kaviya V., Kaviya Sri J., M. S. Sahana, Kodhainayaki S. B.
11	Mahindra World School	Abhijeet Sanjeev Varma, Tharun D., Thavaneesver S., A. Eshanika, Shital Yadav, Ramakrishnan S., Shaan Gurushankar, Shriniket Vivek Padhye
12	Alwin International Public School	Sachin, Pirranit, Punith, Eben, Richard, Arjun, Janek, Goshan, Kailash, Rahul, Keshwan, Abilash

13	Alwin Memorial Public School	Candace Dhanapaul, Harshini Srinitha Mi, Arrlene A., Shreelekha S., Bryan Vedh A., Arshad Sivakumar, Santhosh Krishna R., Jayakeerthan R. S.
14	Annai Violet Matriculation and Higher Secondary School	Ankit R., Subham R., Joshua A., G. B. Sudharshan, Aruna K., Yalini S., Sudharshan G., Pooja S., Gifty Grace
15	Seventh Day Adventist Matriculation and Higher Secondary School	M. Mohammed Ukas, Kathiresan, E. Joslin Reshma, S. S. Lakshana, G. Sree Deepak, P. Hemapriya, P. Hemasen, V. Debarahl
16	Shri Natesan Vidyasala Matriculation and Higher Secondary School	Harishmen S., B. Sanjay, Sunil S., Yuvanesh P., Logeshwaran K., Hemalatha D., Girija Bharathi S., Niranjan R.
17	Sri Ramakrishna Mission Vidyalaya Girls Higher Secondary School	S. Jeevana Priya, M. Varalakshmi, V. Preethi, S. Dhivya Dharshini, S. Bhuvaneshwari, K. Jasvini, S. Sujitha, R. Sandhiya shree
18	Shree Niketan Patasala	Niharikaa, Srilekha B., Aishwarya R. L., Avantika S., S. Akkshaya, Gayathri S., Tharikhasini Ganesh, Pavithra E. P., B. Thejusvini, Jayesh M. K., Syed Mohammed Suhail S., T. Danica Evangeline Celestina
19	Zion Matriculation Higher Secondary School	Sai Karthika J. S., Santhosh Sabari S., John Freddy R., Manish S.
20	Gurukulam Matriculation Higher Secondary School	Vidhya S., Divya Lakshmi R., Rifqa Z., Yogeshwari J., M. Priyan, M. Ranjith, Safana Yasmin S., Neelu Farnaz A.
21	D. G. Vaishnava College	Hariharan R., Harish Raghavan E., Avinesh Prabhakaran



A representative copy of the participation certificate given to the students.



A representative copy of the winner's certificate given to the students.