



**KERALA UNIVERSITY COLLEGE OF TEACHER
EDUCATION**

KUMARAPURAM, THIRUVANANTHAPURAM

**REPORT OF
PROGRAMMES CONDUCTED AS A PART OF
NATIONAL SCIENCE DAY 2019**

on

28th February, Thursday

Sponsored by,



**KERALA STATE COUNCIL FOR SCIENCE, TECHNOLOGY
& ENVIRONMENT**

Supported by



सत्यमेव जयते
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DST

**DEPARTMENT OF SCIENCE & TECHNOLOGY,
GOVT. OF INDIA**

**REPORT OF
PROGRAMMES CONDUCTED AS A PART OF
NATIONAL SCIENCE DAY 2019**

**Focal Theme:
Communicating Science for All**

A Glance

Intercollegiate Competitions

- Poster making Competition
- Essay writing Competition
- Quiz Competition

School level Competitions

- Pencil Drawing Competition
- Painting Competition

Theme Presentations

- ‘Science for Community’
- ‘Public Awareness of Science and Technology’

REPORT ON NATIONAL SCIENCE DAY

CELEBRATION 2019

We live today in a world of scientific achievements. Some knowledge of the present position and progress of science is necessary to obtain an adequate understanding of the world in which we live. Scientific knowledge trains our mind, create socially desirable habits and develops an increasing awareness about ourselves, about fellow creatures and about the material universe we live in. It also makes us more intelligent consumers. It develops our reasoning power which in turn helps us to discharge our duties in a better way so as to lead successful social life. Advances in science, particularly its applications to home, to industry, to agriculture and community living have changed our environment. Let us think how fine it is that today so many of us are alive and well, largely because of science and its application what greater benefit could science give us, than the gift of life itself, together with the health and prosperity to enjoy it fully. Today at least we can be optimistic about the future than ever before in the history of mankind and this optimism necessarily must be based up on science. Science has penetrated into all the scientific aspects of human life so much so, that a basic knowledge has become an unavoidable need for every individual, who doesn't want to be a misfit in society. The amount of scientific knowledge accumulated over the last couple of decades bears witness to the knowledge explosion and can be longer ignored. The newspapers and other channels of media give due coverage to new

application of science. Today communicating is considered as a strategic function by the majority of organisations which interact in our social system. It identifies them, justifies them, allows them to gain consensus and to work to achieve the objectives that all systems have: to survive, to protect themselves, to obtain resources and to grow.

National Science Day is celebrated all over India with great enthusiasm on 28th February every year in order to commemorate the Indian Physicist Sir Chandrasekhara Venkata Raman. The day is being celebrated to widely spread a message about the significance of scientific applications in the daily life of the people and to display all the activities, efforts and achievements in the field of science for human welfare. Variety of programmes and activities are also held for the common public and student community to popularise the science and technology. The theme of the year 2019 is “**Communicating Science for All**”. It is the time to make the people aware of innovations and better technology to fulfil their dreams. In this context, Kerala University College of Teacher Education (KUCTE), Kumarapuram organised a seminar sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE) and supported by Department of Science and Technology (DST), Government of India on the focal theme “Communicating Science for All” on 28th February 2019.

INAUGURAL SESSION

The inaugural session for the celebration of the National Science Day 2019 began by chanting a prayer by the college choir. The respected dignitaries were duly welcomed by Smt. Shymija M.Z. (Asst. Professor in Physical Science & the Programme Co-ordinator). In her welcome speech she specified the importance of science in our daily life and how science can be benefitted for the common people.

Next Dr. Sunith Kumar G.N. (Principal & General Convenor), delivered the presidential address. In his speech, he proposed the importance of science and the public awareness of science and technology in our daily walk of life. The Science Day celebration was inaugurated by Sri. Shiju Khan J.S. (Hon'ble Member Syndicate, University of Kerala). His inaugural address aimed at the development of science and scientific attitude and temper for the younger generations. He emphasised on the various projects done by the government for the development of science and promotion of science in school level. The felicitation of the function was given by Smt. Beena O. (Staff Advisor & Asst. Professor in Malayalam), She in her speech spoke about her experience and how society promotes science. Also, Smt. Vanaja M. (Staff Secretary & Asst. Professor in Perspectives in Education), Smt. Letha K.G. (Asst. Professor in Natural Science), Sri. Abhijith A. (Chairman, College Union 2017-18), Sri. Varun J.S. (Chairman, College Union 2018-19) gave the felicitation. They also, in their speech, spoke about the role of science and its

importance and use in our life and how the scientific discoveries have changed the world. The inaugural session came to its conclusion by the vote of thanks by Smt. Sinimol V.M. (Asst. Professor in Perspectives in Education). The next programme in the agenda were two theme presentations which specified on Communicating Science to all and also on the public awareness of science and technology. It emphasised on the public awareness of latest innovations and technological developments.

FIRST SESSION

First session of the seminar was handled by Prof. Aravindhakshan (Science popularist, Former Principal, Govt. College for Women, TVM) was started at 11.00 a.m. Smt. Letha K.G (Asst. Professor in Natural Science) welcomed him to the programme and Dr. Sunith Kumar G.N. (Principal & General Convenor) introduced him to the students and declared the focal theme of the seminar.

The theme of the seminar was '**Science for Community**'. The seminar takes a hands on approach to learning the tricks of science communication as a conversation. In this session he simply spread the message of the importance of science and its application in the daily life of people; this was necessary to accelerate the pace of the development.

He was ready to interact with students for presenting the theme '**Science for Community**' only with the help of an umbrella stick. He just extended the umbrella frame in front of students and asked what they have observed and how they can correlate that shape with the surrounding things. The whole class was little bit confused. Finally he reached the actual answer that, the stretcher stick portion of umbrella was designed based on the shape of a bat. This is how we correlate science with daily life. As student teachers we got an idea that these kinds of interesting and funny facts and good stories enhanced with science, also spark about the subject to continue beyond the text books. By this simple interactive session, we realise that we can learn new

things, we can think of new concepts, seeing things from different perspectives; a lot of this has to do with a very rich mental space, kind of a mental playground; which helps to lay down in the world of science.

He revealed so many facts through his seminar and taught us all of the activities performed by human beings are governed and controlled by science to some extent and in different ways. From this effective session, as student teachers, we understood that the objective can only be fulfilled if teachers will impart their knowledge by relating them with the real incidences taking place in everyday life. While imparting information of various scientific facts, teachers should make use of examples taking place in the daily life of the children. If science teaching will be done by relating it with the actual happening of the surroundings, then it will become more interesting and meaningful. He spread the message that science is not only for science scholars, but also for all the general community. An effective method in which science can be correlated with everyday life of the public is to make use of community resources found in the environment in which we exist or live. This was the highlight of the session. The session lasted for an hour and was informative enough to light up the minds of trainees.

SECOND SESSION

The scientific community celebrated National Science Day with great enthusiasm to widely spread a message about the significance of scientific applications in the daily life of the people. Afternoon session was handled by Dr. Sarika A.R., Scientist, Kerala State Council for Science, Technology and Environment (KSCSTE). Her presentation was started with an introduction about celebrating National Science Day and its relevance. She spoke about the developmental pathway of Raman Effect and its applications in various disciplines of science. **‘Public Awareness of Science and Technology’** was the focal theme of her presentation. This topic has been chosen as the focal theme of presentation for the purpose of raising public appreciation of the scientific issues involved.

After that she discussed that by the evolution of science and technology, new concepts and theories were born in the minds of budding scientists along with scientific temper and attitude which are needed for the progress of science. She pictured how the advancement in science and technology has revolutionised our day to day activities and made our life much easier in every aspects. Later she explained about the interaction between science and technology and gave detailed

information about the pivotal role played by DST in promoting scientific education, scientific research and development throughout the nation. Further she focused on the applications of Biotechnology, Genetic engineering, biotechnical methods for enhancing the awareness of pupil about the overlapping nature of science and technology and also discussed about the indispensable role of science and technology in every sphere of our life like to treat diseases such as cancer, genetic diseases and brain diseases etc.

After that she pointed out the techniques of emerging gene therapy, personalised medicine, genetically modified organisms and applications of biotechnology and genetic engineering etc. She concluded the presentation by mentioning the role that KSCSTE plays for the development of science in our state and familiarised the government schemes, initiatives, fellowships and scholarships provided for scientific research and academic excellence. The informative as well as meaningful presentation had ended at around 3 p.m.

VALEDICTORY SESSION

The valedictory session began at 3.00 p.m. Smt. Beena O. (Asst. Professor in Malayalam) gave the welcome speech. She welcomed all the dignitaries on the dais. Next the presidential address was given by our beloved college principal Dr. Sunith Kumar G.N. In his speech he gave the importance of the day and also talked about the programmes conducted on the occasion of Science Day. The inaugural address was done by Fr. Dr. Kurian Chalangady (Principal, Christ Nagar, HSS(ICSE)). In his speech he recollected his college days and how science affected him. He also spoke about his experience as the Principal and how science has changed the way of teaching and the effect of technology in a child's life. The felicitation was done by Sri. P. Sanal Kumaran Nair (Principal, Govt. HSS, Medical College). He also shared his experience as the head of the school and also how technological changes are done in the school and school teachings. He talked about the challenges faced by the teachers who are digital immigrants to teach the digital natives. Also felicitation was given by Smt. Sinimol V.M. (Asst. Professor in Perspectives in Education), Smt. Sheeja B. (Asst. Professor in Mathematics). After this the prize were distributed for the winners for the Inter collegiate Competitions and also for the School level Drawing and Painting Competitions. Smt. Vanaja M. (Asst. Professor in Perspectives in Education) delivered the vote of thanks to all the distinguished and honoured guests, to the Principal, to the teachers and to all the student teachers who helped to

make this programme a grand success. The programme ended with the National Anthem.



Banner of National Science Day celebration 2019



Invocation



Welcome speech by Smt. Shymija M.Z (Asst. Prof. in Physical Science & programme co-ordinator)



Inaugural Address by Dr. Sunith Kumar G.N (Principal and General Convener)



Sri. Shiju Khan J.S. (Hon'ble Member Syndicate, University of Kerala) inaugurating the seminar.



Inaugural Address by Sri. Shiju Khan J.S. (Hon'ble Member Syndicate, University of Kerala)



Principal, KUCTE Kumarapuram presenting the memento to Sri. Shiju Khan J.S



First Session by Prof. C.P Aravindakhan



Refreshment provided for the participants of Seminar (morning session)



Refreshment provided for the participants of Seminar (morning session)



Theme presentation by Dr. Sarika A.R



Audience of second session



Fr. Dr. Kurian Chalangady presenting memento to Dr. Sarika A.R



Refreshment provided for the participants of Seminar (evening session)



Refreshment provided for the participants of Seminar (evening session)



Valedictory Session



Inaugural Address of Valedictory session by Fr.Dr.Kurian Chalangady



Principal, KUCTE Kumarapuram presenting the memento to Fr.Dr.Kurian Chalangady



Felicitation by Sri. P. Sanalkumaran Nair (Principal GHSS Medical College)

Prize Winners of School Level Competitions







Prize Winners of Intercollegiate Level Competitions



Trophy to the first prize winner of essay writing competition



Trophy to the second prize winner of essay writing competition



Trophy to the first prize winner of poster making competition



Trophy to the second prize winner of poster making competition



Trophy to the third prize winner of poster making competition



Trophy to the first prize winner of quiz competition



Trophy to the second prize winner of quiz competition



Trophy to the third prize winner of quiz competition



Vote of thanks by Smt. Vanaja M (Asst. Prof. in Perspectives in Education)

Decorations





Display of posters, paintings and pencil drawings





REPORT OF THE COMPETITIONS

In connection with the National Science Day celebrations 2019, Kerala University College of Teacher Education, Kumarapuram in collaboration with Kerala State Council for Science Technology and Environment (KSCSTE) and supported by Department of Science and Technology (DST) has proposed to conduct the following intercollegiate level and school level competitions as per the given schedule.

INTERCOLLEGIATE LEVEL COMPETITIONS SCHEDULE

DATE	ITEM	THEME	TIME
22/02/2019 Friday	Poster making Competition	Science is Fun	10.00 a.m. to 11.15 a.m.
22/02/2019 Friday	Essay writing Competition	Technology: a boon or a curse?	11.30 a.m. to 12.30 p.m.
22/02/2019 Friday	Quiz Competition	General Science for Public, Sustainable development & climate change	1.30 p.m. to 3.30 p.m.

For the intercollegiate competitions we have invited twelve Teacher Training Colleges for participation.

REPORT OF INTERCOLLEGIATE COMPETITIONS

POSTER MAKING COMPETITION

An intercollegiate poster making competition was organised by the KUCTE Kumarapuram on 22nd February 2019. The competition started at 10.00 a.m. and the student teachers were enthusiastic. Five colleges participated in the competition. The main objective of the event was to engross the hidden talent of the teacher trainees. The student teachers showed their abilities through art wherein they expressed their feelings and ideas in the form of quotations, paintings, sketches etc. All the participants performed well.

Prize Winners

1st Prize: Krishna S. (KUCTE Kumarapuram)

2nd Prize: Sreedevi S.L. (St. Jacobs's Training College)

3rd Prize: Subhisha K.K. (St. Jacobs's Training College)

ESSAY WRITING COMPETITION

On the same day, an intercollegiate essay writing competition was also held on 11.30 a.m. The aim of conducting this competition was to express the theme “**Technology: a boon or a curse?**” in a more logical way and also to develop their writing skills and vocabulary in their own way. Five colleges participated in the competition.

Prize Winners

1st Prize: Adithya G.L. (KUCTE Kumarapuram)

2nd Prize: Reethu Rachel Jerome (St. Jacobs's Training College)

3rd Prize: Gowri Satheesh (KUCTE Kariavattom)

QUIZ COMPETITION

The intercollegiate quiz competition was conducted in the Smart classroom at 1.30 p.m. on the same day. Six colleges participated in the competition. Two students from each college represented their team. Dr. Sibi K.S. (Asst. Professor, Department of Physics, University of Kerala) was the quiz master. The main objective of conducting the quiz competition was to increase student's interest in science subject and to enhance student participation in acquiring the knowledge in the core and applied aspects of science. The competition provided an excellent opportunity and platform to both the teacher educators and student teachers for intersecting with each other, share knowledge and remains updated with advances in science and technology.

Prize Winners

**1st Prize: Aswathy Nair M.S. & Reshma Raveendran
(KUCTE Kumarapuram)**

**2nd Prize: Reshma Michael Pereira & Rini Jose
(St. Jacobs's Training College)**

**3rd Prize: Aswathy V.B. & Naseeb R.
(KUCTE Kariavattom)**



Banner of Intercollegiate competitions conducted as a part of National Science Day celebration



Intercollegiate poster making competition



Participants of Intercollegiate poster making competition



Intercollegiate essay writing competition



Participants of Intercollegiate essay writing competition



Intercollegiate Quiz competition



Audience of Intercollegiate quiz competition



Participants of Intercollegiate quiz competition

SCHOOL LEVEL COMPETITIONS SCHEDULE

GOVT. MEDICAL COLLEGE H.S.S KUMARAPURAM

DATE	ITEM	THEME	TIME
22/02/2019 Friday	Pencil Drawing Competition	Mobile addiction of a School boy	2:00 pm to 3:00 pm
22/02/2019 Friday	Painting Competition	Robot in the front office of a company	3:00 pm to 4:00 pm

REPORT OF SCHOOL LEVEL COMPETITION

As a part of National Science Day celebration Kerala University College of Teacher Education, Kumarapuram had conducted pencil drawing competition and painting competition at Govt. Medical College Higher Secondary School, Kumarapuram on 22nd February 2019. The topic for painting competition was “Robot in the front office of a company”. The aim of conducting pencil drawing competition and painting competition in school level was to engage children in a creative exercise to identify their hopes and dreams of the future. These competition helped them for the complete self-expression and supported their creativity. The competitions started at 2.00 p.m. in the smart class of the school and completed at 4.00 p.m. Students from 8th and 9th standard participated in the completion.

Prize Winners

Pencil Drawing Competition

1st Prize: Soorya Kiran (Std IX)

2nd Prize: Abi Krishnan (Std IX)

3rd Prize: Amal A.O. (Std VIII)

Painting Competition

1st Prize: Abi Krishnan (Std IX)

2nd Prize: Adarsh R.S. (Std IX)

3rd Prize: Amal A.O. (Std VIII)



School level painting competition



School level pencil drawing competition