



SREE SANKARA COLLEGE,
KALADY

SASTRAPADHAM 2020

18TH TO 20TH JANUARY 2020
THE THREE DAYS' SCIENCE ENRICHMENT
RESIDENTIAL CAMP

REPORT

Submitted by,

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SASTRAPADHAM-2020

THREE DAYS SCIENCE CAMP AT SREE SANKARA COLLEGE, KALADY

18TH TO 20TH JANUARY 2020

**Organized by Samagra Shiksha, Kerala and Government of Higher
Secondary Education, Kerala**

REPORT

In association with Samagra Shiksha, Kerala in collaboration with Directorate of Collegiate Education and Government of Higher Secondary Education, Kerala, Sree Sankara College successfully organized a three days Science Enrichment Residential Camp named “Sasthrapadham-2020”, at the campus. The event was coordinated under the directions of college IQAC. Fifty-Two selected students of 11th standard, from various Government and government aided schools in Ernakulam district actively participated in this camp. 52 students including 30 boys and 22 girls from 31 schools participated in the camp. The camp was envisaged to enhance the scientific aptitude in students and to motivate them for pursuing higher studies and career in pure science.

Sasthrapadham-2020 at Sree Sankara College was inaugurated by the District Program Coordinator, Samagra Siksha Kerala, Ernakulam Smt. Usha Manatt. Sasthrapadam-2020 coordinator Smt. Priya S S welcomed the gathering on 18th January in a function presided by the college principal, Dr. A. Suresh. Usha Manatt delivered the keynote address and the meeting was felicitated by the Block Programme Officer Sri. Sunil Kumar K N. The College IQAC coordinator Dr. Preethi Nair rendered the vote of thanks.

Day I Inaugural Session







During the three days' camp, the students could listen to classes in Basic Science, Astronomy, higher education and career opportunities in science, handled by experts and got opportunities to do hands on experiments in the laboratories of Physics, Chemistry, Botany, Zoology, Microbiology and Mathematics departments in the college. They also got familiarized to various research laboratories associated with the above departments. The students could also interact with eminent academicians and scientists.

The students were served with sumptuous meals and snacks by the whole hearted cooperation from the college canteen. The stay was arranged at college hostel for girls near the college campus and bus was arranged for the safe and comfortable transportation of the girls students and for boys stay was arranged in the English block of this institution. Three male teachers and three female teachers along with Block Programme Officer stayed with the boys and the girls students, respectively.

The concluding session on 20th January was inaugurated by the renowned writer Sri. C Radhakrishnan. The students had an active and motivating interactive session with the participants and got their scientific doubts cleared with much enthusiasm. The programme ended with National Anthem and the students went back to their homes with a happy, motivated and satisfied self.

The detailed report of various activities is presented below.

DAY I – SATURDAY, 18.01.2020

The first session was handled by Sri. Sobhen P. S., Associate Professor in Physics retired from Maharajas College, Ernakulam talked about Scientific Temper (“*Sasthraavabodham*”) and had an interactive session with the participants to clear their doubts in Physics.



He articulated very clearly and jovially to students on how to make the learning of science a fun through interesting anecdotes.



Later on, ice breaking session was handled by Smt. Shinta Davis, Skill Development Executive, ASAP Kerala from Sree Sankara College, Kalady. Students acquainted with each other with nice adjectives to their names. Students were enthusiastic and actively participated in the fun games of that session. They formed different groups named after Indian scientists as part of the game and then each group collectively realized about the scientists and their contributions by group discussion. Each group leaders did their presentations.



Afterwards the students visited the Chemistry, Mathematics, Zoology and Botany laboratories and had experience with some experiments.



Students at Chemistry Laboratory





Students at Zoology Laboratory



Students at Botany Laboratory



Students at Zoology Laboratory



Students at Mathematics Laboratory

In the evening, representatives of Astronomical Society of Kerala (ASK), Dr. Tharanath R. (Asst. Professor in Physics, Aquinas College, Edakochi) and Dr. Nijo Varghese (Asst. Professor in Physics, Sacred Heart College Chalakkudy) gave a special session on observational Astronomy.

For selecting outstanding students, a quiz competition was conducted by Dr. Tharanath and selected five out of fifty-two students. Then Dr. Tharanath announced the winners and distributed their prize.

The selected students are

- First prize: Sagar Sreenivas
Mar Elias HSS, Kottappady
- Second prize: Mathson Beshy
St. Joseph's HSS
- Third prize: DathanLal
E B HSS
- Fourth prize: Aswin Dev E J
Mar Elias HSS, Kottappady
- Fifth prize: Amritha Priya
T V Joseph Memorial HSS, Chelad



Sagar Sreenivas



Mathson Beshy



Dathan Lal



Aswin Dev E J



Amritha Priya

The resource persons explained the theory behind the nomenclature of different months and weeks in Malayalam astronomical calendar and also about the wonderful stories of galaxies. The students learnt about the basics of sky watching with the help of the software “Stellarium”. A sky watching session was arranged on the terrace of the college building with the guidance of Dr. Tharanath and Dr. Nijo Varghese using Cassergain telescope. The students could experience various celestial wonders, especially planet Venus.



Dr. Nijo Varghese talking on Skywatching



Skywatching arranged on the terrace



Food at college canteen



Transportation to Ladies Hostel

DAY II – SUNDAY, 19.01.2020

The second day was tightly scheduled starting with a short introduction to the campus biodiversity by Dr. Mini K. D., of Zoology department. The students were taken for a morning walk through the natural greenery of the campus (“*Prakrithiyilode oru prabhatha savari*”), led by Dr. Mini. She talked about the wonderful life thriving around us and how important it is to be responsible enough to keep our environment sustainable and survivable. Rest of the day was spent for classes, lab visits and research facilities visits.





In the second session, Dr. Jijo P Ulahannan, Assistant Professor, Dept. of Physics, Govt College, Kasaragod talked on Higher education and Career Opportunities in Science (*“Sasthrapadanavum Thozhil Sadhyathakalum”*). He talked about how to attain the ability to focus on studies. Dr. Jijo explained about the selection of career and higher studies of one’s aptitude, by making use of technological advancements.



In the third session, Dr. N Shaji, Adjunct Faculty, Dept. of Physics, CUSAT talked on Pseudo-science (*“Kapadasasthram”*). He talked about which all news and reports should be scientifically accepted and which all to ignore.

One must make use of the technological advances is very advanced to disprove hoaxes and not fall in the superstitious comments and myths, which appear in print as well as social media. Then he had an interactive session with the students to clear the doubts about these concepts.



In the fourth session, Dr. Tessy Mohan, Principal Scientist of MagGenome, Kochi talked on Options for Higher Studies in Basic Science (“*Adisthanasasthrathil Unnathavidyabhyasathinulla Avasarangal*”). She talked about how to choose areas for higher education in various disciplines and also mentioned the best universities in India and abroad for higher education. In the interactive session with the students, she cleared all the doubts.



After lunch, the students visited Physics and Microbiology laboratory and research facilities on these labs.



Students at Physics Laboratory



Students at Microbiology Laboratory

In the evening, Dr. N. Manoj, Professor, Department of Chemistry, CUSAT talked about Molecules that change the world ("Lokathinte gathimattiya thanmatrakal"). He started with small chains in the organic molecule and ended with huge organic molecular chain in the DNA structure. He cleared the doubts of students in the interactive session.



In the last session, Sri. Ben Jos, Associate Professor, Department of Physics, Sree Sankara College, Kalady talked on how to learn physics through day to day life experience. The students learned the laws in physics and some physical quantities through experience in this session.





After this session student were very enthusiastic and energetic. The dinner was arranged at canteen and the second day ended successfully.

DAY III – MONDAY, 20.01.2020

The final day of the three days' camp, started with yoga class led by Ms. Supriya, Yoga Practitioner, Sattva Cultural Space, Angamaly.



The breakfast was arranged at the college canteen and afterwards they visited Plan@earth, the plastic recycling center, Edathala Gramma Panchayath. A talk was also arranged on how to recycle plastic, how to segregate various types of plastics, and the different processes in recycling.





Then the students experienced the Material recovery facility of Edathala panchayath to understand grades and recovery of plastic for recycling.



Towards the evening, the valedictory function was arranged with renowned writer Sri. C. Radhakrishnan. Dr. Minimol K C welcomed the gathering. Sri. C . Radhakrishnan spent almost one and a half hours interacting with the students. The students felt much motivated by discussing with him not only science and its developments, but also the methods and means to learn science and to pursue their career ambitions. Then a platform was given for students to share their experiences and to air their feedback about the three-day camp. After that, Smt. Vandana V, Cluster Coordinator, Block Resource Center Muvattupuzha rendered the vote of thanks. The camp came to an end at 4.30 pm with National Anthem.



Dr. Minimol K C welcomed the gathering



Inaugural speech by Smt. Usha Manatt



Chief guest Sri. C.Radhakrishnan talked on science and its development

Feedback by students







Smt. Vandana V rendered Vote of thanks.



Participants and organizers with chief guest

The participants gave excellent feedback about the organization of the camp, about resource persons and their classes, facilities, hospitality and food. The three days' science enrichment residential camp Sasthrapadham 2020 came to an end with remarkable response from the participants.
