



# ശാസ്ത്രപഥം -2019

കുന്വളത്ത് ശങ്കുപിള്ള മെമ്മോറിയൽ  
ദേവസ്വം ബോർഡ് കോളേജ്  
ശാസ്താംകോട്ട

ജനുവരി 26, 27, 28

(സമഗ്ര ശിക്ഷ- കേരളം,  
കേരള ഹയർസെക്കറി വിദ്യാഭ്യാസ വകുപ്പും  
കോളേജ് വിദ്യാഭ്യാസ വകുപ്പുമായി സഹകരിച്ചു നടത്തുന്ന റെസിഡൻഷ്യൽ  
ശാസ്ത്ര ക്യാമ്പ്)

## Report on

SHASTHRAPADHAM -2019

conducted at K.S.M.D.B. College, Sasthamcotta  
on 26<sup>th</sup> 27<sup>th</sup> and 28<sup>th</sup> of January 2019

Report By  
College Coordinator,  
Dr. Rathika Nath G.

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by College coordinator, Dr. Rathika Nath G.

The programme was organized in such a way that there were both theory and practical classes. Theory classes were on subjects like career development, recent advances in sciences, ethical issues, pseudo sciences etc. Practical classes were on hands on training on Chemistry, Physics, Botany, Zoology and Mathematics. Excellent resource persons were selected for lecture sessions from and outside the College and science labs were arranged for demonstration classes by the College students under the direction of teachers.

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ഉദ്ദേശ്യം: സാക്ഷരത		Sunday 27-01-2019	
പ്രവേശന സമയം	: 09.00 am to 10.00 am	07.00 am to 08.30 am	: Nature visit
അദ്ധ്യക്ഷ	: 10.00 am to 10.15 am	08.30 am to 09.00 am	: Break fast
	: 10.15 am to 10.45 am	09.00 am to 10.30 am	: 3 <sup>rd</sup> Session
കൃത്യത ഉദ്ദേശ്യം	: 10.45 am to 11.00 am		: Reflections on "What Light is"
	: 11.00 am to 11.30 am		: A history of photon.
	: 11.30 am to 12.00 pm		: Resource Person: Dr. Biju V
	: 12.00 pm to 12.30 pm		: Assistant Professor
	: 12.30 pm to 01.00 pm		: Department of Physics
	: 01.00 pm to 02.15 pm		: University of Kerala
	: 02.15 pm to 05.15 pm		: Tea break
	: 05.15 pm to 06.00 pm		: Lab Session
	: 06.00 pm to 06.00 pm		: Physics and Chemistry
	: 06.00 pm to 06.00 pm		: Lunch Break
	: 06.00 pm to 06.00 pm		: Lab session continues
	: 06.00 pm to 06.00 pm		: 4 <sup>th</sup> session
	: 06.00 pm to 06.00 pm		: Ethical issues in Science
	: 06.00 pm to 06.00 pm		: & Research Communications
	: 06.00 pm to 06.00 pm		: Resource Person: Dr. K. Rajesh
	: 06.00 pm to 06.00 pm		: Assistant Professor
	: 06.00 pm to 06.00 pm		: Department of Chemistry
	: 06.00 pm to 06.00 pm		: University College, Trivandrum
	: 06.00 pm to 06.00 pm		: Presentations by participating students.
	: 06.00 pm to 06.00 pm		: Monday 28-01-2019
	: 06.00 pm to 06.00 pm		: Break fast
	: 06.00 pm to 06.00 pm		: R&D visit
	: 06.00 pm to 06.00 pm		: CEPCI Lab & Research Institute
	: 06.00 pm to 06.00 pm		: Vaedictory function.

## Day 1 (Saturday, 26-01-2019)

The registration of students started at 9 am and the total strength of participants registered was 56 (31 boys and 25 girls). All participants were provided a kit consisting of file, notebook and pen.

The **Inaugural Session** started at 10.00 am and the venue was digital seminar hall. The ceremony was chaired by the College principal Dr. K. Beena, who expressed her happiness in hosting the function. It was certainly a privilege to have **Dr. M.R. Sudharshanakumar, former principal of MG College, who is considered as a well known researcher in the field of crystal growth and complexes** to inaugurate the function. Welcome speech was delivered by Dr. Rathika Nath G., the programme coordinator.

**Dr. M.R. Sudharshanakumar** spoke on the importance of nurturing scientific temper among students during his inaugural speech. He also interacted with the student participants. Shri. B. Radhakrishnan Unnithan, District Project Coordinator of Samagrashiksha, Kollam explained about the Sasthrapadham project. The IQAC coordinator of the College, Dr. V. Jayasree proposed vote of thanks for the inaugural session.







The inaugural session ended at 10.30 am. After a tea break, an ice breaking session was conducted by the coordinator. The students were divided into paired up in friends and asked to introduce one another.





The first session on the “History of Science” was handled by Dr. M.R. Sudarshanakumar and it started at 11 00 am. The session ended at 12.30 pm. Lunch was provided at the college canteen.



The second session by Dr. G. Ajayakumar, Department of Chemistry, Government College for Women, Trivandrum, was on “Career Opportunities in Science” from 1.30 pm to 03.00 pm. Both sessions had interactive time at the end.



Afternoon session on demonstration experiments started at 2 pm. Students were then grouped into groups of 10 and were managed by 5 different departments- Physics, Chemistry, Botany, Zoology and Mathematics. The sessions were handled by faculty

attached to the individual departments. M.Sc and Research Students acted as Lab Assistants & the sessions continued till 6 pm. Tea and snacks were provided during the session. From 6 to 8 pm, cultural programmes were held. Project topics for groups of students were also distributed in the interim.



The students enjoyed the performances of college students immensely. They too came forward and participated in the programme showcasing their talents.

The first day's programme came to an end at 8.30 pm. Dinner was arranged at the mess hall of the College. The NSS officer and member of faculty of the College, Mr. Aathman arranged for the accommodation of boy students in the class rooms. 10 mentors (Degree and PG students (boys)) stayed with the participants during night. Girls students



were accommodated at the college hostel and Dr. Rathika Nath and Dr. V. Jayasree stayed with them. The accommodation was provided in College hostel under concessional rates.

**Day 2 (Sunday, 27-01-19)**

The second day started with a break fast. Then the students were taken for a nature walk along the shores of Sasthamcotta fresh water lake. The students immensely enjoyed the tryst with nature.



The first technical session for the day was handled by Dr. Biju V, Assistant Professor of the Department of Physics, University of Kerala. The topic was “Reflections on What Light is –A history of photon”, and the session started at 09.00 am and ended at 10.30 am. Then the students went for lab sessions at various labs. Lunch was provided in between the lab session. The second lecture session by Dr. K.Rajesh, Assistant Professor in Chemistry, University College, Trivandrum started after a tea break at 3.30 pm The topic of the session



was “ Ethical issues in Science and Research Communications” which ended at 05.00 pm. Both lecture sessions had interactive sessions at the end.



At around 06.00 pm, honorable Dr. A.P. Kuttikrishnan, State Project Director of Samagra Siksha, Kerala visited and interacted with the students. It was a very wonderful session and students openly shared their views and were very enthusiastic. The Director, SIET Shri. B. Aburaj, and Kollam District Project Coordinator of Samagrashiksha, Shri B. Radhakrishnan Unnithan, also interacted with the students. The students presented their projects till 8 pm.



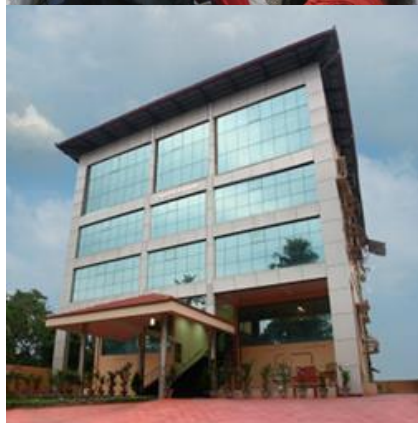


### **Day 3 (Monday, 28-01-2019)**

The day 3 sessions started at 8.30 am with travel for R&D visit. Break fast was provided on the way to the CEPCI Lab at Thushara's Restaurant, Kollam . The group reached Cashew Export Promotion Council of India Laboratory and Technical Division at 10



am. The visit to various laboratories extended upto 12 noon. The students were given detailed explanation about the working and function of various Sophisticated equipments by the CEPCI team.



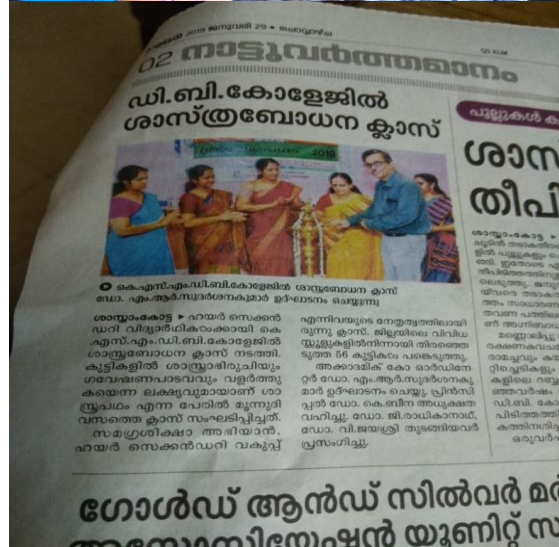
During the return journey to the college, a heavy lunch was provided at Thushara's Restaurant, Kollam and the team arrived back at around 1.30 pm.



Feed back forms were issued and collected at 2.00 pm. The valedictory function was conducted between 2.30 pm and 04.00 pm. The function was presided over by Dr. C. Unnikrishnan, Head, Department of Malayalam and Kerala Sahitya Academy member. IQAC coordinator of the college, Dr. V. Jayasree welcomed the gathering. Principal, Dr. K. Beena inaugurated the function and gave away certificates. Shri. B. Radhakrishnan Unnithan, District Project Coordinator of Samagrashiksha, Kollam did a felicitation speech. Certificates and TA @Rs 200 per participant were given away during the function. Parents also attended the function and tea and snacks were also provided. The vote of thanks was proposed by Dr. Rathika Nath G, coordinator of the programme. The students were handed over to their parents after the valedictory function. Both inaugural session and valedictory session were covered by the media.







. The total amount earmarked by Samagrashiksha authorities for the programme was Rupees Two lakh Twenty thousand five hundred (Rs 2,20,500/- ). The SSA sanctioned an amount of Rupees 1,65,000/- (Rupees One lakh Sixty five thousand only ) as advance for the programme. It was drawn on 28<sup>th</sup> of January 2019 through Principal's Account. The PTA of the college gave an advance of Rs 25,000/- for covering the expenses till the amounts from SSA was received. Though 50 participants were supposed to participate, 56 students actually attended the event. An amount of Two lakh three thousand nine hundred and sixty seven (**Rs 2,03,967/-**) was actually spent for the programme. Considering the head wise limits, an amount of Rupees thirty four thousand five hundred and fift eight (**Rs 34,558/-**) will be reimbursed by the SSA on receipt of vouchers and this report.

#### **Statement of Expenditure**

SI NO	Voucher nos	Head	Actual Amount spent	Amount sanctioned for head	Actual amount spent limited to amount sanctioned for the head
1	1 to 4	Student's TA	11200	12000	11200
2	5 to 15	Stay, Hall Rent, Hall Arrangements	24247	25000	24247
3	16 to 22	Food	61360	60000	60000
4	23 to 57	Honorarium	43500	43500	43500
5	58 to 65	Resource Person TA/ DA	10400	20000	10400
6	66-69	Lab Setting	10211	20000	10211
7	70-76	Printing, Stationary, Publicity, R&D visit Expenses, Documentation and other organising Expenses	43049	40000	40000
		Total	203967	220500	199558

Total amount sanctioned (Rs) 220500

Total amount paid as advance (Rs) 165000

Total expenditure (Rs) 203967

Toal expenditure limited to sanctioned amount 199558

Balance amount to be reimbursed (Rs) 34558



### **Acknowledgements:-**

We take this opportunity to congratulate the state government and the educational minister for their projects aimed at promoting Science awareness among students.

It is with sincere gratitude that we thank Dr. A.P. Kuttikrishnan, State Project Director of Samagra Siksha, Kerala for providing us with a wonderful experience and also for motivating the students during his visit to the college. We express our sincere thanks to Shri. B. Radhakrishnan Unnithan, District Project Coordinator of Samagrashiksha for constant encouragement and support for the successful conduct of the programme. We express our gratitude to Mrs Anitha H R. District Programme officer, Samagra Siksha, Kollam, Project Manager of SIET for helping us immensely in executing the programme smoothly. Sri.B.Aburaaj, Director, SIET, who visited the college on the second day also motivated the students.

We are also indebted to the DDE Kollam, Smt. K. S. Sreekala for her support.

The constant encouragement and support rendered by the College Principal, Dr. K. Beena was the most important factor which made this event a huge success.

We express our sincere gratitude to the college PTA for advancing Rs 25, 000/- (subject to reimbursement), which helped immensely in starting the preparation early.

Thanks are due to the Heads of departments- Prof.S.Leela, Prof. P.K. Reji, Dr. P.Geethakrishnan Nair and Dr. Mini Chandran C., and members of faculty (both teaching and Non teaching) of all science departments as well as the UG and PG students of our college. There were 10 student volunteers and 12 student lab assistants from various science departments, whose dedication and sincerity made this event happen. The contributions by Adarsh, Akhil of III B.Sc Mathematics and Rahul and Vishnu of III B.Sc Physics deserve special mention.

Thanks to all external and internal resource persons for making the programme a great success. Special thanks are due to internal resource persons, Prof Shailaja Kumari, Associate Professor of Mathematics, Dr. Girija Kumari, Associate Professor of Zoology, Dr. P.Geethakrishnan Nair, Assistant Professor of Botany, Dr. Sujayakumari, Associate Professor of Chemistry, Dr. Meera A.P., Assistant Professor of Chemistry and Dr. Remya, Assistant Professor of Physics Department for handling the lab sessions and making them a success.

We also acknowledge with gratitude the support rendered by the college and the hostel authorities for providing hospitality. Special thanks are due for Mr. Biju and Smt Thankamani for housekeeping and general attendership for the whole programme.

I find no words to acknowledge the support rendered by the IQAC coordinator of our College and my dear friend, Dr. V. Jayasree who was with me throughout the programme and rendered help in every matters.

I greatly acknowledge the indebted help from my dear friends, Prof. Maya P.K. and her family.

The enthusiastic and vibrant team of students that we had as participants was the most important factor. On an analysis of the feedback, we felt immensely happy that our effort was not in vain. We acknowledge the support rendered by all the parents of participants.

**Dr. Rathika Nath G**

Shasthrapadham College Coordinator  
KSM DB college, Sasthamcotta.

**Dr. K. Beena**

Principal  
KSM DB College, Sasthamcotta



## **Annexure 1**

### **Brochure**

## ജില്ലാതല സമാപന സമ്മേളനം

സ്വാഗതം	:	<b>ഡോ ജയശ്രീ. വി.</b> (അസോസിയേറ്റ് പ്രൊഫസ്സർ ഫിസിക്സ് & IQAC കോ ഓർഡിനേറ്റർ)
അദ്ധ്യക്ഷൻ	:	<b>ഡോ. സി ഉണ്ണികൃഷ്ണൻ</b> മലയാളം വകുപ്പ് മേധാവി, കേരള സാഹിത്യ അക്കാദമി അംഗം
ഉദ്ഘാടനവും സർട്ടിഫിക്കറ്റ് വിതരണവും	:	<b>ഡോ കെ. ബീന</b> (പ്രിൻസിപ്പാൾ, കെ എസ് എം ഡി ബി കോളേജ്)
ആശംസകൾ	:	<b>ശ്രീമതി കെ എസ് ശ്രീകല</b> (വിദ്യാഭ്യാസ ഉപഡയറക്ടർ, കൊല്ലം)
	:	<b>ശ്രീ. ബി. രാധാകൃഷ്ണൻ ഉണ്ണിത്താൻ.</b> (ജില്ലാ പ്രോജക്ട് ഓഫീസർ, സമഗ്രശിക്ഷ കേരളം, കൊല്ലം.)
	:	<b>ശ്രീ. ശിവരാജൻ എൻ റ്റി.</b> (സ്റ്റേറ്റ് പ്രോജക്ട് ഓഫീസർ, സമഗ്രശിക്ഷ കേരളം)
	:	<b>ശ്രീമതി ശോഭന സുനിൽ</b> (സ്റ്റേറ്റ് പ്രോഗ്രാം ഓഫീസർ, സമഗ്രശിക്ഷ കേരളം)
	:	<b>ശ്രീ സുരേഷ് കുമാർ എ. കെ.</b> (സ്റ്റേറ്റ് പ്രോഗ്രാം ഓഫീസർ, സമഗ്രശിക്ഷ കേരളം)
	:	<b>ശ്രീമതി അനിത എച്ച്. ആർ</b> (ജില്ലാപ്രോഗ്രാം ഓഫീസർ, സമഗ്രശിക്ഷ കേരളം, കൊല്ലം)
കൃതജ്ഞത	:	<b>ഡോ. രാധികാ നാഥ് ജി</b> (പ്രോഗ്രാം കോ ഓർഡിനേറ്റർ)



**കമ്പളത്ത് ശങ്കുപിള്ള മെമ്മോറിയൽ  
ദേവസ്വം ബോർഡ് കോളേജ്**  
ശാസ്താംകോട്ട

# ശാസ്ത്രപഥം 2019

**ജനുവരി 26, 27, 28**

(സമഗ്ര ശിക്ഷ- കേരളം, കേരള ഹയർസെക്കറി വിദ്യാഭ്യാസ വകുപ്പും കോളേജ് വിദ്യാഭ്യാസ വകുപ്പുമായി സഹകരിച്ചു നടത്തുന്ന റെസിഡൻഷ്യൽ ശാസ്ത്ര ക്യാമ്പ്)

പ്രിയരെ,

വിദ്യാർത്ഥികളിൽ ശാസ്ത്ര ബോധവും ശാസ്ത്രാഭിരുചിയും ഗവേഷണ പാടവവും വളർത്തുക എന്ന ലക്ഷ്യത്തോടെ സമഗ്ര ശിക്ഷ- കേരളം, കേരള ഹയർസെക്കറി വിദ്യാഭ്യാസ വകുപ്പും കോളേജ് വിദ്യാഭ്യാസ വകുപ്പുമായി സഹകരിച്ചു സംസ്ഥാനത്തെ പൊതു വിദ്യാലയങ്ങളിൽ നിന്നും തെരഞ്ഞെടുക്കപ്പെട്ട ഒന്നാം വർഷ ഹയർസെക്കറി വിദ്യാർത്ഥികൾക്കായി നടത്തുന്ന പരിപാടി ആണ് ശാസ്ത്രപഥം. സംസ്ഥാനത്തെ തെരഞ്ഞെടുക്കപ്പെട്ട കോളേജുകളിൽ നടക്കുന്ന മൂന്നു ദിവസത്തെ റെസിഡൻഷ്യൽ ക്യാമ്പിൽ, ഓരോ ജില്ലയിൽ നിന്നും 100 വിദ്യാർത്ഥികളാണ് ഭാഗമാകുന്നത്. കൊല്ലം ജില്ലയിലെ വിവിധ സർക്കാർ, എയ്ഡഡ് വിദ്യാലയങ്ങളിലെ പതിനൊന്നാം തരത്തിൽ പഠിക്കുന്ന വിദ്യാർത്ഥികളിൽ നിന്നും തെരഞ്ഞെടുത്ത വിദ്യാർത്ഥികളാണ് ഇതിൽ പങ്കെടുക്കുന്നത് . 2019 -ലെ ശാസ്ത്രപഥം കൊല്ലം ജില്ലയിൽ ശാസ്താംകോട്ട കമ്പളത്ത് ശങ്കുപിള്ള മെമ്മോറിയൽ ദേവസ്വം ബോർഡ് കോളേജിൽ വച്ച് 2019 ജനുവരി 26, 27, 28 തീയതികളിൽ നടക്കുന്നു. ഈ റെസിഡൻഷ്യൽ ത്രിദിന ശില്പശാലയിൽ ഭൗതിക ശാസ്ത്രം, രസതന്ത്രം, ജീവശാസ്ത്രം, ഗണിതശാസ്ത്രം എന്നീ വിഷയങ്ങളിലെ ശാസ്ത്ര പരീക്ഷണ - നിരീക്ഷണങ്ങൾ, വിദഗ്ദ്ധരുടെ ക്ലാസുകൾ, പ്രോജക്ടുകൾ, ഗവേഷണസമാപന സന്ദർശനം എന്നിവ ഉൾക്കൊള്ളുന്നതാണ്.

ഈ ത്രിദിന ശില്പശാലയുടെ ഉദ്ഘാടനം 2019 ജനുവരി മാസം 26 ന് രാവിലെ 10 മണിക്ക് ബഹുമാനപ്പെട്ട മുൻ എം ജി കോളേജ് പ്രിൻസിപ്പാൾ ഡോ. എം ആർ സുദർശനകുമാർ നിർവഹിക്കുന്നതാണ്. ജില്ലാതല സമാപന സമ്മേളനത്തിന്റെ ഉദ്ഘാടനവും സർട്ടിഫിക്കറ്റ് വിതരണവും 2019 ജനുവരി മാസം 28 ന് ഉച്ചക്ക് 2 മണിക്ക് നടക്കുന്നതാണ് . ഈ പരിപാടികളിൽ ഏവരെയും സ്വാഗതം ചെയ്യുന്നു.

**Dr. A.P. Kuttikrishnan**  
State Project Director  
Samagra Siksha, Kerala

**Dr. K.Beena**  
Principal  
KSM DB College

**Dr. Rathika Nath G**  
Programme Co-ordinator  
(Asst Professor in Chemistry)

ഉദ്ഘാടന സമ്മേളനം  
രവിലെ 10 ന്

പ്രാർത്ഥന സ്വാഗതം	:	ഡോ. രാധികാ നാഥ് ജി (പ്രോഗ്രാം കോ ഓർഡിനേറ്റർ)
അദ്ധ്യക്ഷ	:	ഡോ കെ. ബീന (പ്രിൻസിപ്പാൾ, കെ എസ് എം ഡി ബി കോളേജ്, ശാസ്താംകോട്ട)
ക്യാമ്പ് ഉദ്ഘാടനം	:	ഡോ. എം. ആർ. സുരേഷ്കുമാർ. [ശാസ്ത്രപഥം - അക്കൗണ്ടിംഗ് കോ ഓർഡിനേറ്റർ (മുൻ എം ജി കോളേജ് പ്രിൻസിപ്പാൾ)]
പദ്ധതി വിശദീകരണം	:	ശ്രീ. ബി. രാധാകൃഷ്ണൻ ഉണ്ണിത്തറൻ. (ജില്ലാ പ്രൊജക്ട് ഓഫീസർ, സമഗ്രശിക്ഷ കേരളം, കൊല്ലം.)
കൃതജ്ഞത	:	ഡോ ജയശ്രീ വി. (അസ്സോസിയേറ്റ് പ്രൊഫസ്സർ, ഫിസിക്സ് & IQAC കോ ഓർഡിനേറ്റർ)

Camp programme Schedule

Saturday, 26-01-2019

09.00 am to 10.00 am	:	Registration
10.00 am to 10.15 am	:	Inaugural Session
10.30 am to 10.45 am	:	Tea Break
10.45 am to 11.00 am	:	Ice breaking Session
11.00 am to 12.30 pm	:	1 <sup>st</sup> session History of Science Resource Person: Dr. M.R. Sudarsana Kumar Former Principal, M.G. College, Trivandrum
12.30 pm to 01.00 pm	:	Lunch break
01.00 pm to 02.15 pm	:	2 <sup>nd</sup> session Career Opportunities in Science Resource Person: Dr. Ajayakumar G Assistant Professor Department of Chemistry Government College for Women Trivandrum
02.15 pm to 05.15 pm	:	Lab Session Zoology, Botany and Mathematics
06.00 pm to 08.00 pm	:	Cultural activities

Sunday 27-01-2019

07.00 am to 08.30 am	:	Nature visit
08.30 am to 09.00 am	:	Break fast

09.00 am to 10.30 am	:	3 <sup>rd</sup> Session Reflections on "What Light is"- A history of photon. Resource Person: Dr. Biju V Assistant Professor Department of Physics University of Kerala
10.30 am to 10.45 am	:	Tea break
10.45 am to 12.45 am	:	Lab Session Physics and Chemistry
12.45 pm to 01.30 pm	:	Lunch Break
01.30 pm to 03.30 pm	:	Lab session continues
03.30 pm to 05.00 pm	:	4 <sup>th</sup> session Ethical issues in Science & Research Communications Resource Person: Dr. K. Rajesh Assistant Professor Department of Chemistry University College, Trivandrum Presentations by participating students.
06.00 pm to 08.00 pm	:	<u>Monday 28-01-2019</u>
07.30 am to 08.00 am	:	Break fast
08.00 am	:	R&D visit
02.00 pm to 03.30 pm	:	CEPCI Lab & Research Institute Valedictory function.





## **Annexure 2**

### **List of Participants**

# Sasthrapadham-2019

Date – 2019 Jan- 26, 27, 28

Venue - K.S.M.D.B.College, Sasthamcotta,Kollam

## List of student participants

SI No	Name	School
1.	Mohammed Noushir	B J S M Madathil HSS
2.	Abhishek T Varghese	B J S M Madathil HSS
3.	Benson J John	GHSS Thevannoor
4.	K. B. Sidharth	GHSS Thevannoor
5.	Gladys Britto	GHSS Shooranaadu
6.	Indraja S	GHSS Shooranaadu
7.	Abid A Sha	VGSSAHSS Nediyaavila
8.	Athul Subhash	VGSSAHSS Nediyaavila
9.	Pravya Prakash L	SM HSS Padhaaram
10.	Arya Krishnan A	SM HSS Padhaaram
11.	Kashinath M Nair	GM GHSS, Chadayamangalam
12.	Vishnu G S	GM GHSS, Chadayamangalam
13.	Abhikrishnan R	DV HSS, Thalavoor
14.	Abishek Babu	DV HSS, Thalavoor
15.	Ajmal Thaha	Govt HSS and VHSS, Karunagappally
16.	Adil Sha	Govt HSS and VHSS, Karunagappally
17.	Harikrishnan V	Govt HSS, Vayala
18.	Abhirami A	Govt HSS, Vayala
19.	Adwaith S	SNSM HSS Ilampalloor
20.	Anjali M R	SNSM HSS Ilampalloor
21.	Shehansha S	Govt H S S, Chithara
22.	Haridev S	Govt H S S, Chithara
23.	Angelin Esther Jennifer	GHSS, Karukone
24.	Aparna M S	GHSS, Karukone
25.	Amala B	Govt Jawahar HSS, Ayur
26.	Jilu J S	Govt Jawahar HSS, Ayur
27.	Jermiah	GHS, Kulathoopuzha
28.	Ajmi Asharaf	GHS, Kulathoopuzha
29.	Akash R Janardhanan	KRGPM HSS, Odanaavattam
30.	Sajith Kumar S B	KRGPM HSS, Odanaavattam
31.	Saru Ajith	St. Stephens' HSS, Pathanaapuram
32.	Devika J	St. Stephens' HSS, Pathanaapuram
33.	Soju Eappan	Govt Boys HSS, Kottarakkara
34.	Tisha Elsa Joseph	St Gregorious HSS, Kottarakkara

35.	Anusree A D	EV HSS, Neduvathoor
36.	Arathy G S	EV HSS, Neduvathoor
37.	Abhiram M S	SVMM HSS, Vendaar
38.	Adithya R	SVMM HSS, Vendaar
39.	Amal S B	SN HSS, Chithara
40.	Shesin S R	SN HSS, Chithara
41.	Ansila Ansar	MG HSS, Edathara
42.	Sumayya Shajahan	MG HSS, Edathara
43.	Anfa S	GHSS, Anchal West
44.	Veneeshya R	GHSS, Anchal West
45.	Ansiya S	GHSS, Thodiyoor
46.	Sreelekshmi S	GHSS, Thodiyoor
47.	Vijay Viswam V	GHSS, Oachira
48.	Parvathy Das S	GHSS, Oachira
49.	Lekshmi Suresh	GM HSS, Vettikkavala
50.	Devu Vijayan	GM HSS, Vettikkavala
51.	Tijo Thomas	SG HSS, Kottarakkara
52.	Sonu P John	AEPM HSS, Irumpanaad
53.	Akbarsha K S	CP HSS, Kuttikkadu
54.	Afsal Z	SNT HSS, Punalur
55.	Harikrishnan S	Govt Boys HSS, Kottarakkara
56.	Karthik M S	SNT HSS, Ayikkarakkonam