

# DEPARTMENT OF CHEMISTRY



SES COLLEGE,  
SREEKANDAPURAM

ACTION TAKEN REPORT

2021-22

## Hand sanitizer Preparation (Extension activity)


Department of Chemistry in association with NSS made **Hand sanitizer**, on **28 June 2021** and distributed to the students and staff of SES college, during the corona virus pandemic period. 40 students participated in this preparation and distribution.



### **YouTube channel Inauguration (Online extension activity for sharing knowledge)**

On 27<sup>th</sup> July 2021 Department YouTube channel named "CHEM INFORM" was inaugurated by Respected Principal Dr.Dominic Thomas through online Google meet platform where about 40 students participated. As a part of inauguration first video about "How to progress in your academics through on line" was releases successfully. It became so popular and has got 2,324 views

**DEPARTMENT OF CHEMISTRY**  
**SES COLLEGE SREEKANDAPURAM**  
**YOU TUBE**  
**CHANNEL INAUGURATION**

 **CHEM  
INFORM**

**PROGRAMMES**

**Welcome Speech** : Mrs Saumya Maria Jacob  
(HOD.Dept of Chemistry)

**Inauguration** : Dr.Dominic Thomas  
(Principal,SES College)

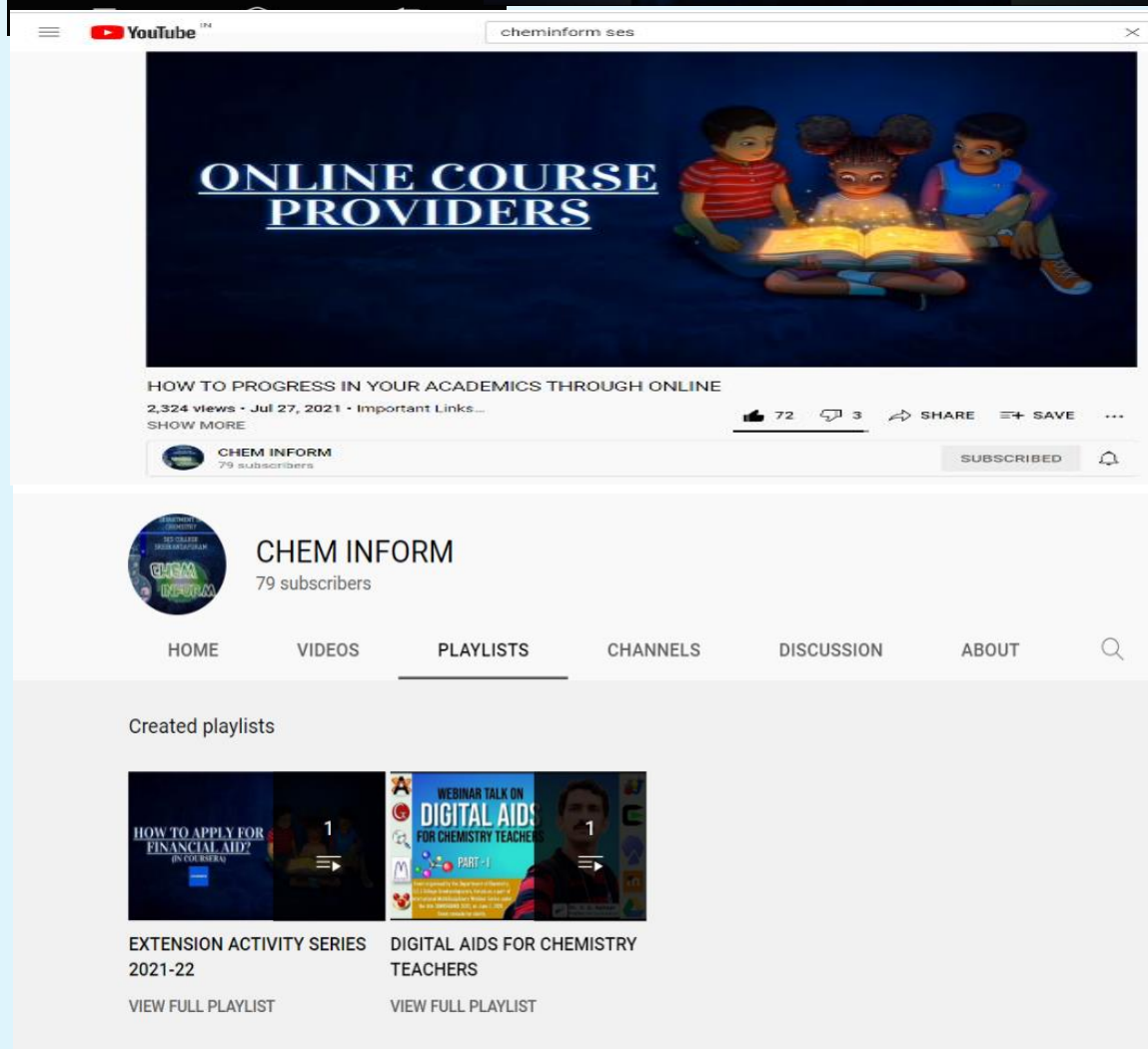
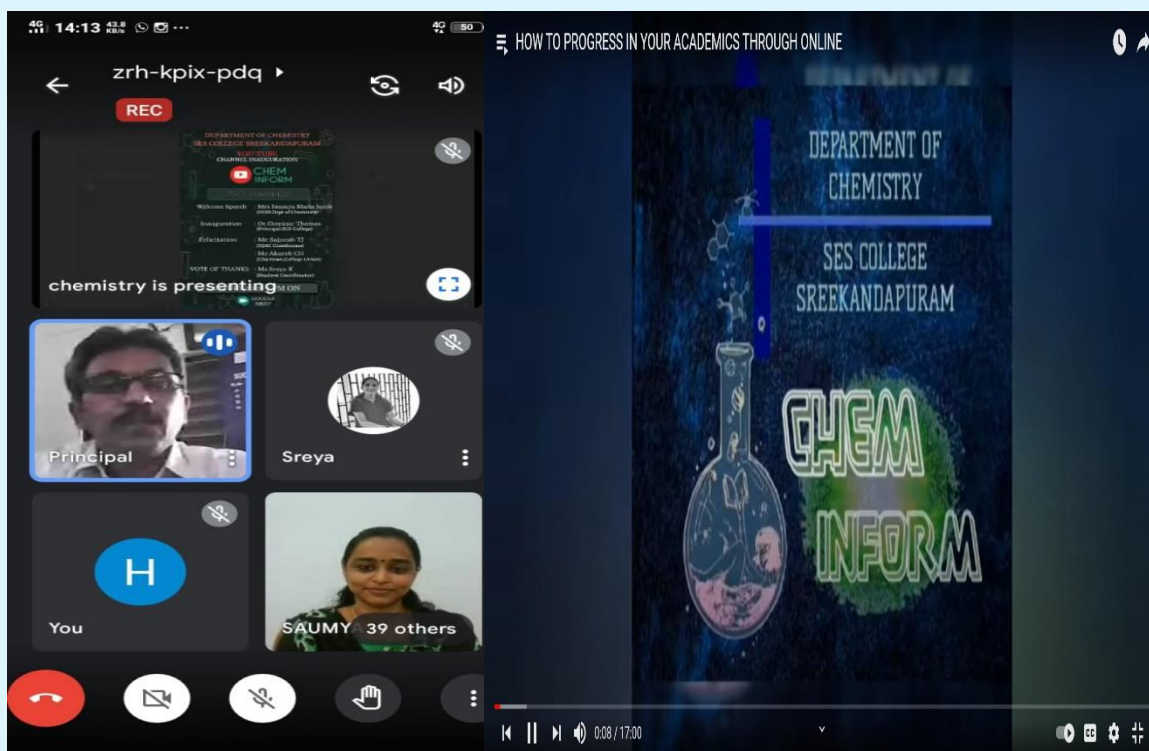
**Felicitation** : Mr.Sajeesh TJ  
(IQAC Coordinator)

: Mr.Akarsh CH  
(Chairman,College Union)

**VOTE OF THANKS** : Ms.Sreya K  
(Student Coordinator)

**27 JULY 2021 2 PM ON**

 **GOOGLE  
MEET**



### Career Guidance Programme- Success mantra

A career guidance programme “**Success mantra- ASPIRING TO FLY HIGH? What about a Ph.D. Abroad?**” was organized by department of chemistry SES College on **30 July 2021**. Students of CMS college, Kottayam who got admitted for Ph.D. in international Universities shared the experience of their journey to the remarkable achievement. A welcome speech was delivered by HOD, Mrs. Saumya Maria Jacob. Our students interacted with Ph.D. scholars and was inspired by their achievement. Around 50 participants attended the webinar.

DEPARTMENT OF CHEMISTRY  
SES COLLEGE SREEKANDAPURAM

**SUCCESS MANTRA**

ASPIRING TO FLY HIGH?  
What about a Ph.D. abroad?

**EXPERIENCE SHARING**

WELCOME SPEECH : SAUMYA MARIA JACOB  
(HOD, DEPARTMENT OF CHEMISTRY)

**JIBIN S S**  
Ph.D. admit @ University of North Carolina, Greensboro, US

Anandhu Krishnan  
Ph.D. admit @ Michigan Technological University, Houghton, Michigan, USA

Anjali Radhakrishnan  
Ph.D. admit @ University of Kansas, Lawrence, USA

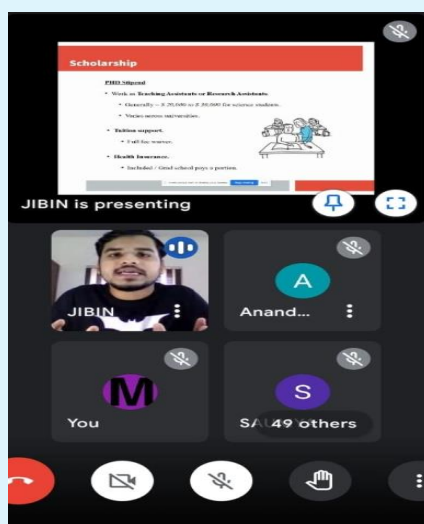
Abhijith Kumar  
Ph.D. @ Case Western Reserve University, Cleveland, Ohio, USA

**VOTE OF THANKS : SREYA K**  
(Student Coordinator)

Friday, July 30 • 10:30am – 12:30pm

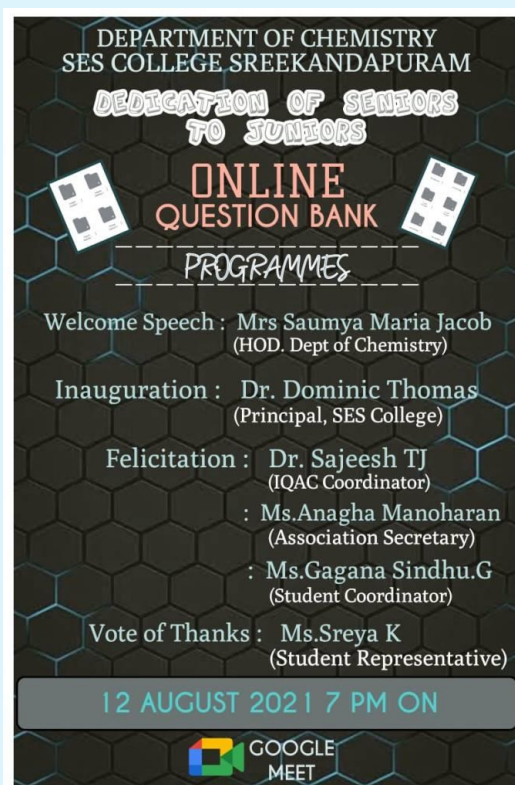
GOOGLE MEET

RESOURCE PERSONS



### Online question bank (Academic)

**Online question bank** dedication of seniors to juniors was officially inaugurated by Respected Principal Dr. Dominic Thomas on **12 Aug 2021** via online mode. Mrs. Saumya Maria Jacob, HOD Chemistry welcomed the gathering. Dr.Sajesh T J, IQAC Co-ordinator, Ms.Anagha Manoharan, Ms. Gagana Sindhu have given the felicitation address. Ms.Sreya K, student representative have given the vote of Thanks. The question bank is a collection of question papers of all the papers of BSc Chemistry course since 2016. Around 31 students participated in the inaugural meeting.



**International webinar -“Exciting career opportunity” (Career guidance by Alumni)**  
 On 28 Aug 2021 an **International webinar** on the topic “*Exciting career opportunity*” in Chemistry by Dr Shandev P, Assistant Professor, Dept of Applied Chemistry, CUSAT, Cochi and Post Doctoral fellow, Dept of Chemistry, University of Leuven, Belgium via Google Meet. Around 35 participants were there.



**SES COLLEGE SREEKANDAPURAM**  
 Department of chemistry

**Presents**

*“Exciting career options in chemistry”*



**Dr. Shandev. P. P**  
 Assistant professor,  
 Department of applied chemistry  
 (CUSAT)  
 (Post doctoral fellow:  
 Dept. Of chemistry,  
 University of Leuven,  
 Belgium.)

**5:18** 47%

non-amsq-zvo

REC



P P Shandev is sharing their screen

**Welcome speech** • Mrs. Salija. P. V  
 (Assistant professor)

**Inauguration** • Dr. Dominic Thomas  
 (Principal, SES College)

**Felicitation** • Dr. Sajeesh T. J  
 (IQAC Co-ordinator)

• Mrs. Saumya Maria Jacob  
 (HOD chemistry dept.)

• Mrs. Sruthi T. V  
 (Assistant professor)

**Vote of thanks** • Nandana. M. V  
 (3rd Bsc chemistry)

## CONVERGENCE 2021

### International Multidisciplinary webinar series CONVERGENCE 2021

An international webinar on the topic: “Importance and Opportunities of Interdisciplinary Research” has been organised by the Chemistry Department of SES College, Sreekandapuram in association with IQAC has organized on **25<sup>th</sup> September 2021** as a part of **International Multidisciplinary webinar series CONVERGENCE 2021** via Zoom platform. Around 56 participated in this webinar. Dr. Sujith S.S., Research and Development Engineer, Central Science Park, Taiwan was the resource person. Mrs. Salija P V welcomed the gathering.



The poster features the S.E.S. COLLEGE logo at the top left, which includes a book and a lamp. To the right, it lists the college's affiliation with Kannur University and its accreditation by NAAC. The central text reads 'INTERNATIONAL MULTIDISCIPLINARY WEBINAR SERIES CONVERGENCE 2021' with a date of '16<sup>th</sup> Sept. 2021, Thursday onwards'. Below this, the date and time 'on 25<sup>th</sup> September 2021 at 02.00 pm' are displayed. A pink banner contains the topic: '“Importance and Opportunities of Interdisciplinary Research”'. A photo of Dr. Sujith S.S. is shown next to his title as Resource Person. The host and coordinator information is provided at the bottom.

**S.E.S. COLLEGE**  
Affiliated to KANNUR UNIVERSITY  
Accredited by NAAC with B Grade  
SREEKANDAPURAM, KANNUR KERALA 670631  
www.sescollege.ac.in | sescollege.skprm@gmail.com

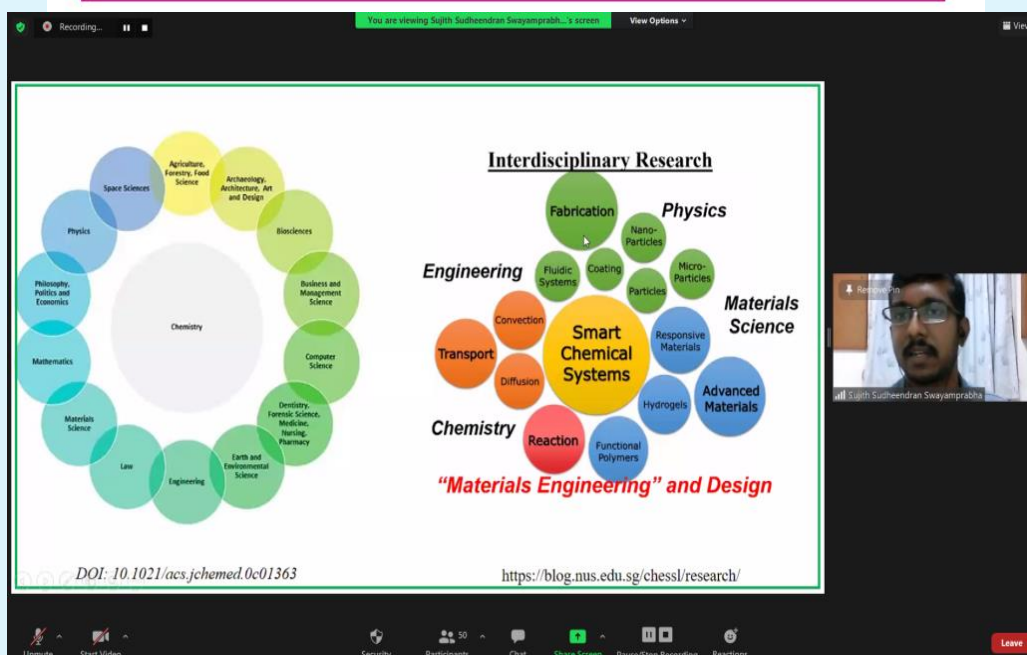
INTERNATIONAL MULTIDISCIPLINARY WEBINAR SERIES  
**CONVERGENCE 2021**  
16<sup>th</sup> Sept. 2021, Thursday onwards

on 25<sup>th</sup> September 2021  
at 02.00 pm

Topic:  
**“Importance and Opportunities of Interdisciplinary Research”**

**Resource Person**  
**Dr. Sujith S.S.,**  
Research and Development Engineer,  
Advanced Technology Dept.  
**Raystar Optronics Inc**  
**Central Taiwan Science Park, Taiwan**

Host: **Dept. of Chemistry**  
Coordinator: **Mrs. Salija P. V.**  
6238159264

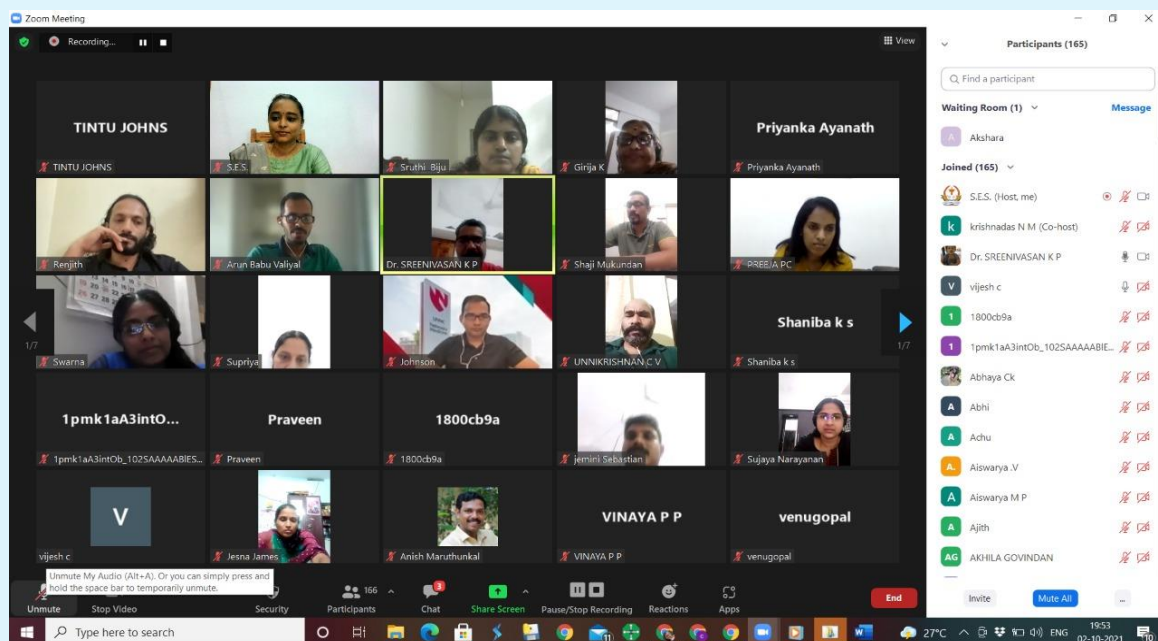


The screenshot shows a Zoom meeting interface. The main content is a slide titled 'Interdisciplinary Research' which features a central diagram. The diagram consists of a central circle labeled 'Chemistry' surrounded by various other disciplines: Space Sciences, Agriculture, Forestry, Food Science, Archaeology, Architecture, Art and Design, Biosciences, Business and Management Science, Computer Science, Dentistry, Forensic Science, Medicine, Health, Pharmacy, Earth and Environmental Science, Engineering, Law, Materials Science, Philosophy, Politics and Economics, Physics, and Mathematics. To the right, another diagram shows 'Smart Chemical Systems' at the center, surrounded by 'Engineering' (Fabrication, Fluidic Systems, Coating, Particles, Micro-Particles), 'Physics' (Nano-Particles, Micro-Particles), 'Materials Science' (Responsive Materials, Hydrogels, Advanced Materials), and 'Chemistry' (Reaction, Functional Polymers). The slide also includes the text '“Materials Engineering” and Design' and a URL: <https://blog.nus.edu.sg/chessl/research/>. A DOI is also present: DOI: 10.1021/acs.jchemed.0c01363. The Zoom interface at the bottom shows controls for Unmute, Start Video, Security, Participants (50), Chat, Share Screen, Pause/Stop Recording, Reactions, and a Leave button.



## Virtual Alumni meet "Vaagamathanalil"

A Virtual Alumni meet "Vaagamathanalil" was conducted on **02 Oct 2021** through online (Zoom) for the students and teachers of batches from 1993 to 2021. Memories of campus and live talk made the program a memorable one. Ongoing students presented cultural activity to make the program colorful. The program was a great success where almost 170 participated.



## Sevanavaracharanam (celebrating National Day)

An initiative to promote a clean and green campus and encourage a habit of keeping our surroundings clean "Sevanavaracharanam" was conducted by chemistry department from 02 Oct to 09 Oct 21 to celebrate 152<sup>nd</sup> Gandhi Jayanthi. Around 53 students participated.



## LECTURE SERIES-CHROMATPGRAPHY BASIC TECHNIQUE (Alumni Engagement)

Dr. Vidya E, alumna of 1999-2002 batch has taken a lecture series on “Chromatography – basic techniques” via a combination of online and offline mode for final year BSc Chemistry students from 12/11/2021 to 16/11/2021. 27 students of final year have attended it.

**CHEMIOS**  
**CHEMISTS OF SES**  
SES College Sreekandapuram

alumtalks

Live interaction session with alumnus

**Dr. Vidya E**  
(1999-02 Chemistry batch)

**Chromatography- basic techniques**

Lecture series  
from 12/11/2021 to 16/11/2021

Thalakode, Kerala, India  
SES College Rd, Thalakode, Kerala 670631, India  
Lat 12.026328°  
Long 75.518758°

GPS Map Camera

Vidya B is presenting

14:54

Mech. para distribution Sfo. Nibi

1. Adsorption chem. } Selective adsorption

2. Partition chem.

People

All invited Add people Host controls

You

Abhya Ck

NAMNA N

NAMNA N

SARNA H

SOORNA V

Sreya K

16 others

Vidya B Meeting host

VINAY C

2:54 PM Lecture series- Day 2-Dr Vidya E




## Bridge Course and Induction Programme 2021-22 (Academic )

Orientation and Bridge course programme was organised by SES college for first year Degree students from 13<sup>th</sup> to 19<sup>th</sup> November 2021 to introduce the college and to bridge a connection to the academics. 22 First year students have attended.

17/11/2021 – 19/11/2021 Bridge Course 2021-22	
<p><b>SES Aided</b></p> <p><b>BBA :</b> Management Concepts and Basics Accounting</p> <p><b>B.Com:</b> Basics Accounting and Management Concepts</p> <p><b>BA English :</b> Introduction to the realms of English language and Literature</p> <p><b>BA Economics:</b> Economics Foundation Programme</p> <p><b>BSc Mathematics:</b> Fundamentals of Calculus</p> <p><b>BSc Physics:</b> Foundational Course in physics</p> <p><b>BSc Chemistry:</b> Fundamentals of Inorganic Chemistry</p>	<p><b>MAJMC:</b> Introduction to print media, electronic media and communication skills</p> <p><b>SES Unaided</b></p> <p><b>B.Com</b> Basics of Accounting and Management Concepts</p> <p><b>BA English:</b> Basics of English Language and Literature</p> <p><b>BCA &amp; BSc Computer:</b> Introduction to IT and Basics of Mathematics</p>

INDUCTION AND BRIDGE COURSE PROGRAMME 2021-22	
	
<p>Orientation Programme and Bridge Course are organised by SES College for First year Degree students to introduce the college to the students and also familiarise the initiatives of the college.</p>	
<p><b>13/11/2021 (Online)</b> 10.30 to 11.30 am: Anti-ragging awareness programme (for 1 DC students) Resource persons on: <b>Sri. Vinod Kumar</b> (Section officer, Kannur University)</p>	
<p><b>15/11/2021 (Offline)</b> Principal's Presentation: <b>Dr. Dominic Thomas</b> (Principal S.E.S College) IQAC Presentation: <b>Dr. Sajeesh T J</b> (IQAC Coordinator) Introduction to NCC: <b>Mr. Reju K Paul</b> (NCC Officer) Introduction to NSS: <b>Dr. Rajith P</b> (NSS Officer) Motivation class &amp; Counseling: <b>Dr. Sunitha Joseph</b> (Coordinator -Counseling center) Awareness Programme for seniors: <b>Mrs. Jessy Jacob</b> (Convener -Anti-ragging cell)</p>	<p><b>(16/11/2021) (Department-wise)</b> 9.30 to 10.30 am: Introduction of curriculum PO &amp; PSO (by HoD) 10.30 to 11.30 am: Introduction by Tutors 11.30 to 12.30 pm: Introduction to Bridge courses/Certificate courses and others 1.30 to 2.30 pm: Introduction to various department clubs 2.30 to 3.30 pm: Introduction of COs (by course-wise Teachers)</p>
<p><b>15/11/2021 (Online)</b> 7.00 to 8.00 pm: Introduction of curriculum and syllabus (Along with Parents)</p>	

## CRASH COURSE (Alumni Engagement)

### SESSION 1 : How to prepare for an entrance exam?

Ms. Vinaya P P ,CSIR-JRF holder,currently a research scholar of CSIR-IICT,Hyderabad ,the alumna of 2013-16 batch has given a session on tricks and ways to crack different entrance exams for BSc Chemistry students on 14<sup>th</sup> November 2021 at 3 pm via online mode. Around 72 students have joined the session. Soorya V of final year BSc Chemistry have cleared JAM EXAM.

The screenshot shows a Google Meet interface. On the left, a dark blue banner contains the following text: 'CHEMISTS OF SES CHEMIOS' with a logo, 'alumtalks' in a circle, 'Crash course Session 1: How to prepare for an entrance examination', 'Resources person: Vinaya P P UGC, JRF', 'PhD student CSIR-IICT Hyderabad (2013-16 Chemistry batch, SES College)', '2021 November 14, Sunday 3 pm', and 'Through' with a Google Meet icon. The main meeting area shows a video feed of the speaker, Vinaya P P, and a slide titled 'How To Prepare For Entrance Exam' featuring a 3D figure with a red question mark. The slide also lists 'VINAYA P P CSIR-UGC JRF CSIR-IICT, HYDERABAD (SES Alumni, 2013-16 Batch)'. On the right, a grid of participant avatars is visible, including names like Akshaya A, SALLUA P V, ADIWARYA V, Abhaya Cx, NAVYA N, Akshaya TS, and S. The meeting controls at the bottom show the time as 3:18 PM and 3:19 PM.



S.E.S COLLEGE SREEKANDAPURAM  
DEPARTMENT OF CHEMISTRY



**Soorya.V**

*Hearty Congratulations*

On securing admission in

**NIT CALICUT**

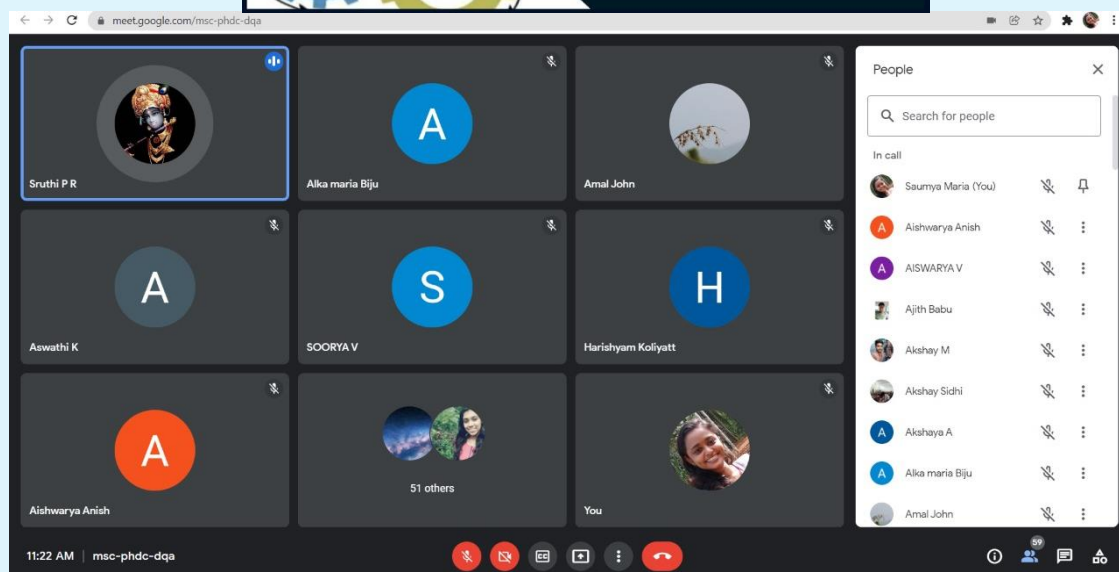
(MSc Chemistry)

## Orientation class from CIPET Palakkad (Career guidance)

Orientation class on Fundamentals of Polymer Synthesis and Characterization Techniques was organized Dept. of Chemicals and Petrochemicals, Ministry of Chemical And Fertilizers, Govt. of India, CIPET Palakkad in association with SES College, Sreekandapuram on 20/11/2021 at 11 am in online platform. 59 participants were present.



The poster features the CIPET logo at the top, followed by the text 'CIPET PALAKKAD' and 'DEPT. OF CHEMICALS AND PETROCHEMICALS, MINISTRY OF CHEMICAL AND FERTILIZERS, GOVT. OF INDIA'. It mentions 'in association with SES COLLEGE, SREEKANDAPURAM'. The main title is 'Organizing SKILL UPGRADATION PROGRAM ON FUNDAMENTALS OF POLYMER SYNTHESIS AND CHARACTERIZATION TECHNIQUES'. Key features listed include 'Hands on experience' and 'CIPET (govt.of india) Certificate will be provided after completion.'. A yellow box states 'Orientation classes on 20/11/2021 at 11 am'. The presenter is identified as 'By, NIKHIL K R DOMAIN TRAINER IPET - PALAKKAD'. The background includes gear icons and a globe.



The screenshot shows a Google Meet interface with a grid of participants. The participants are: Sruthi P R, Alka maria Biju, Amal John, Aswathi K, SOORYA V, Harishyam Koliyatt, Aishwarya Anish, 51 others, and You. The 'People' sidebar on the right lists the participants in the call. The bottom of the screen shows the time as 11:22 AM and the meeting ID msc-phdc-dqa.

## FRESHERS DAY PROGRAMME (Cultural Programme)

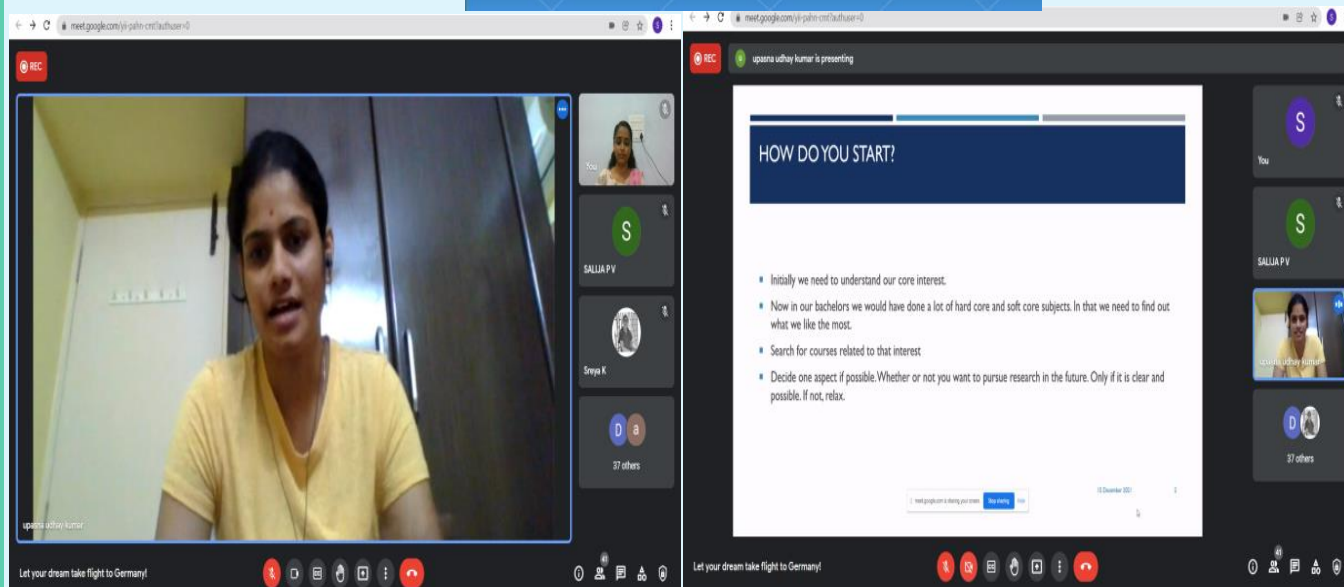
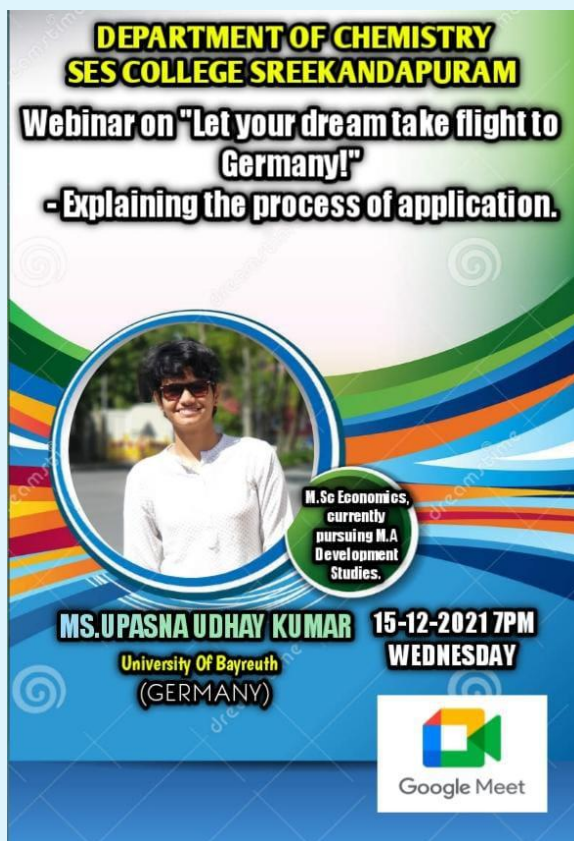
Senior students have organised a fresher's day programme for first year students on 3<sup>rd</sup> December 2021. Refreshments were also given as a token of love and welcome. Around 73 students have participated.





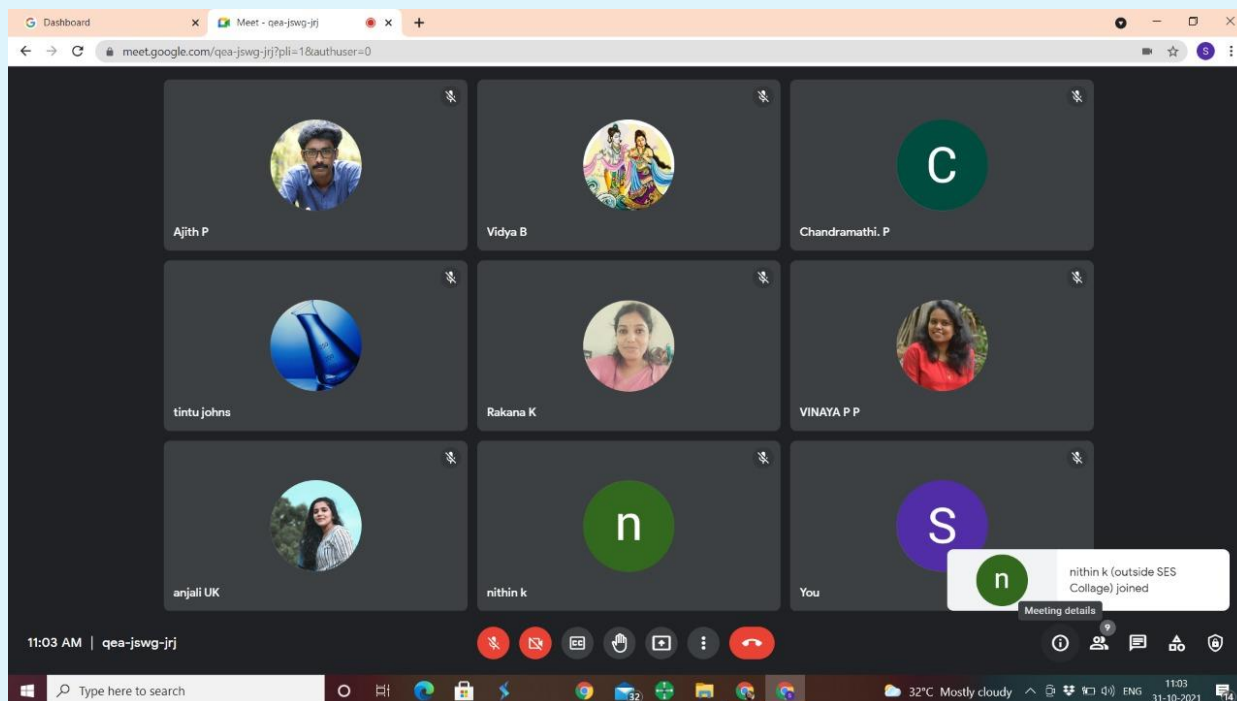
## Opportunities for higher education/job in Germany (Career Guidance Programme)

Ms.Upasna Udhay Kumar,MSc Economics,Currently pursuing M.A Development Studies University of Bayreuth,Germany had given a Webinar on the topic"Let your dream take flight to Germany!" - Explaining the process of Application on Wednesday, December 15 2021 at 7 pm. Around 41 participants were present.



## Alumni Executive Committee-CHEMIOS 2021-22

New Alumni executive committee was elected on 31<sup>st</sup> october 2021 in an online meeting via google meet and the Alumni was given the name “CHEMIOS-Chemists of SES. Around 10 participated.





# CHEMIOS CHEMISTS OF SES



S.E.S. COLLEGE SREEKANDAPURAM

## ALUMNI EXECUTIVE COMMITTEE

### President



Mrs. Chandramathi P  
(Batch: 1993-96)

### Vice-presidents



Mr. Unnikrishnan C V  
(Batch: 1995-98)



Mrs. Sruthi Biju  
(Batch: 2000-2003)



Mrs. Vidhya Edathil  
(Batch: 1999-2002)

### Secretary



Dr. Renjith Johnson  
(Batch:2001-2004)

### Joint secretary



Ms. Salini T O  
(Batch:2011-14)



Ms Tintu Johns  
(Batch:2011-14)



Ms. Vinaya P P  
(Batch:2013-16)



Master. Anurag S  
(Batch:2015-18)

### Treasurer



Mr. Prajith P O  
(Batch:2009-12)

### Executive Committee members



Mrs. Salija P V  
(2004-2007)



Mr. Nithin K  
(Batch:2009-2012)



Ms. Rakana K Nambiar  
(Batch:2010-13)



Ms. Akshara C H  
(Batch:2014-17)



Master. Vaishak K  
(Batch:2016-19)



Master. Jaideep K  
(Batch:2017-2020)

## Valentine's Day Competition (Competition)

In association with Valentine's Day celebration "Best Moment Capture" competition was conducted by Chemistry Association on February 14. Pranav V and Sanjay K V of 3DC English won first prize won second prize respectively. Participants ~ 10



**SES COLLEGE UNION**  
**CHEMISTRY ASSOCIATION**  
**PRESENTS**

**പടം പിടി**  
**പണം പിടി**

തിങ്കളാഴ്ച നടക്കുന്ന പ്രോഗ്രാമിലെ ബെസ്റ്റ് മൊമെന്റ് ക്യാപ്ചർ ചെയ്ത ഞങ്ങൾക്ക് അയക്കുക

**RULES:**

- No editing
- Must be in document
- One can send only a photo

Cash prize for winners :  
1<sup>st</sup> prize:- Rs.501  
2<sup>nd</sup> prize :- Rs.250

Send before  
**Feb 14**  
**(8pm)to**  
**8301919136 or**  
**6235287129**

**SES COLLEGE UNION**  
*chemistry association*

**PADAM PIDI**  
**PANAM PIDI**  
*contest*

*First prize*



**Pranav .V**  
(3RD DC BA ENGLISH)

*Second prize*



**Sanjay.K.V**  
(3RD DC BA ENGLISH)

## ALUMNI CONTRIBUTION

BSc Chemistry 2000-2003 and 1999-2002 batches for contributing Rs.7500 for Microscale apparatus set and Rs. 3000/- for providing scholarship for financially backward students for doing project in CIPET,Palakkad on 22/02/2022.



## SCIENCE DAY CELEBRATION- CROSS WORD PUZZLE COMPETITION

In association with Science Day Celebration, Department of Chemistry has conducted a crossword puzzle competition on 28<sup>th</sup> February 2022, which was open to all. Kumari Ashna Gireesh of 2DC Mathematics won the first prize. Participants ~ 6



SES COLLEGE CHEMISTRY  
DEPARTMENT PRESENTS...

# CROSSWORD PUZZLE COMPETITION

On National science day

28 FEBRUARY 2022

The competition will be conducted online and is open to all..

## CROSSWORD



**Across:**

2. The centre of an atom
6. Mixture made up of multiple substances.
7. State of matter with no definite shape or volume.
9. Number of protons in an element.
10. Molecule that has charge.
11. State of matter with a definite shape and volume.
12. Subatomic particle with a positive charge.

**Down:**

1. State of matter similar to gas.
2. Sub atomic particle with no charge.
3. State of matter that takes the shape of its container.
4. Sub atomic particle having negative charge.
5. The amount of matter in an object.
8. Mass per volume.
9. Smallest form of an element.



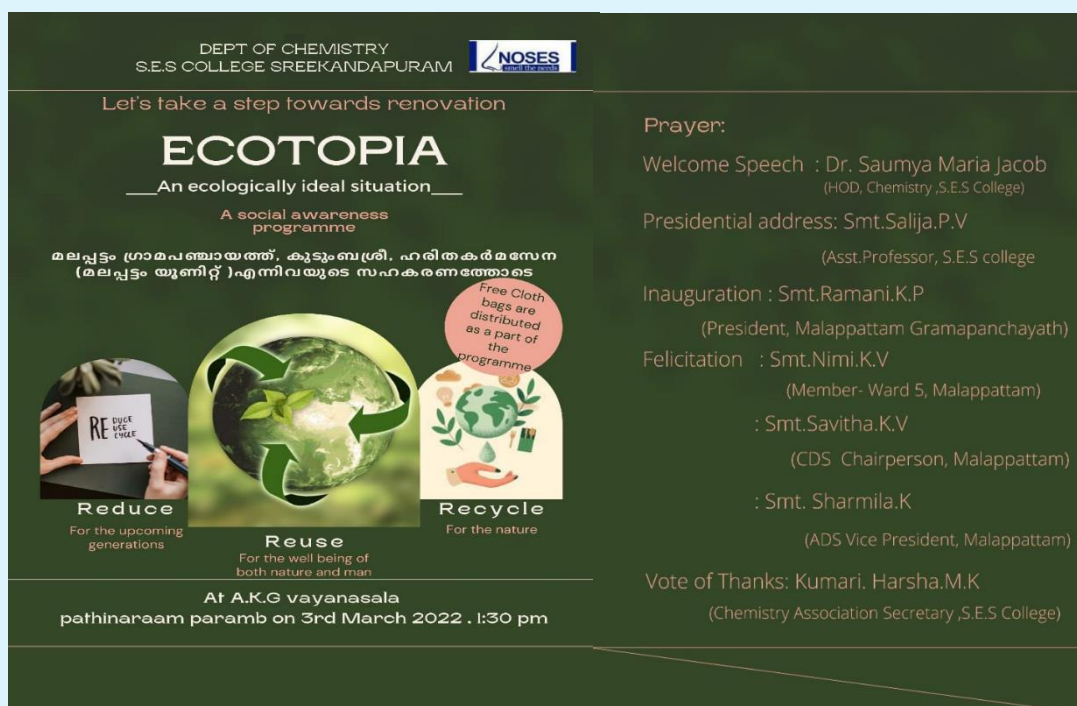
SES COLLEGE SREEKANDAPURAM  
CHEMISTRY DEPARTMENT  
Science day Crossword  
competition winner



Ashna Gireesh  
2nd year, Bsc Mathematics  
CONGRATULATIONS

## ECOTOPIA-A Social Awareness Programme (Extension Activity)

Dept of Chemistry in association with Malapattam Gramapanchayat, Kudumbasree unit, Haritha Karma Sena has conducted a social awareness program on “Plastic Waste Management” at AKG Vayanashala on 3<sup>rd</sup> March 2022 at 1.30 pm. The function was presided by Smt.Salija P V. Malapattam Panchayat President K. P Ramani inaugurated the function and distributed the cloth bag to Smt.Sharmila(ADS Vice-President) which was donated by students. Additionally they played a skit on Plastic waste management. The programme was a grand success which include around 110 participants who have contributed to it in different ways.



DEPT OF CHEMISTRY  
S.E.S COLLEGE SREEKANDAPURAM

Let's take a step towards renovation

# ECOTOPIA

— An ecologically ideal situation —

A social awareness programme

മലപ്പുട്ടം ഗ്രാമപഞ്ചായത്ത്, കുടുംബശ്രീ, ഹരിതകർമ്മസേന (മലപ്പുട്ടം യൂണിറ്റ്) എന്നിവയുടെ സഹകരണത്തോടെ

Free Cloth bags are distributed as a part of the programme

**Reduce**  
For the upcoming generations

**Reuse**  
For the well being of both nature and man

**Recycle**  
For the nature

Prayer:  
Welcome Speech : Dr. Saumya Maria Jacob  
(HOD, Chemistry, S.E.S College)  
Presidential address: Smt.Salija.P.V  
(Asst.Professor, S.E.S college)  
Inauguration : Smt.Ramani.K.P  
(President, Malappattam Gramapanchayath)  
Felicitation : Smt.Nimi.K.V  
(Member- Ward 5, Malappattam)  
: Smt.Savitha.K.V  
(CDS Chairperson, Malappattam)  
: Smt. Sharmila.K  
(ADS Vice President, Malappattam)

Vote of Thanks: Kumari. Harsha.M.K  
(Chemistry Association Secretary ,S.E.S College)

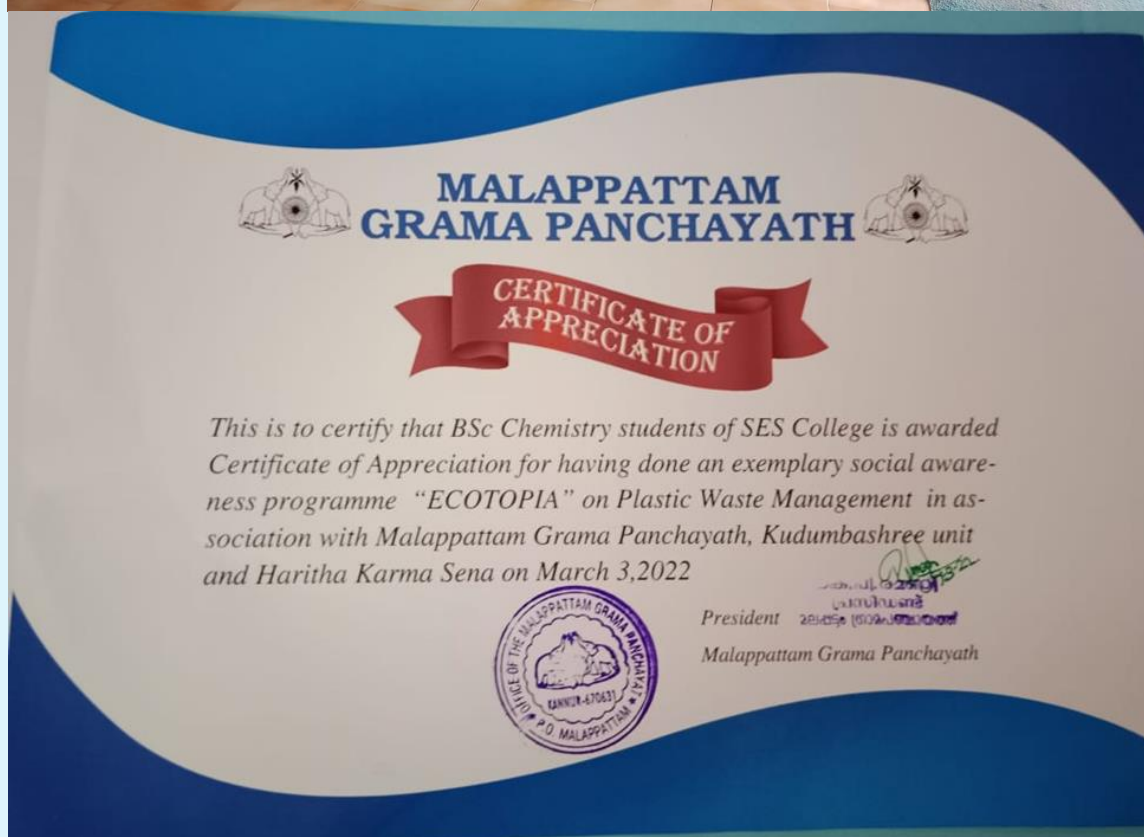
At A.K.G vayanasala  
pathinaraam paramb on 3rd March 2022 . 1:30 pm





## CERTIFICATE OF APPRECIATION FOR ECOTOPIA

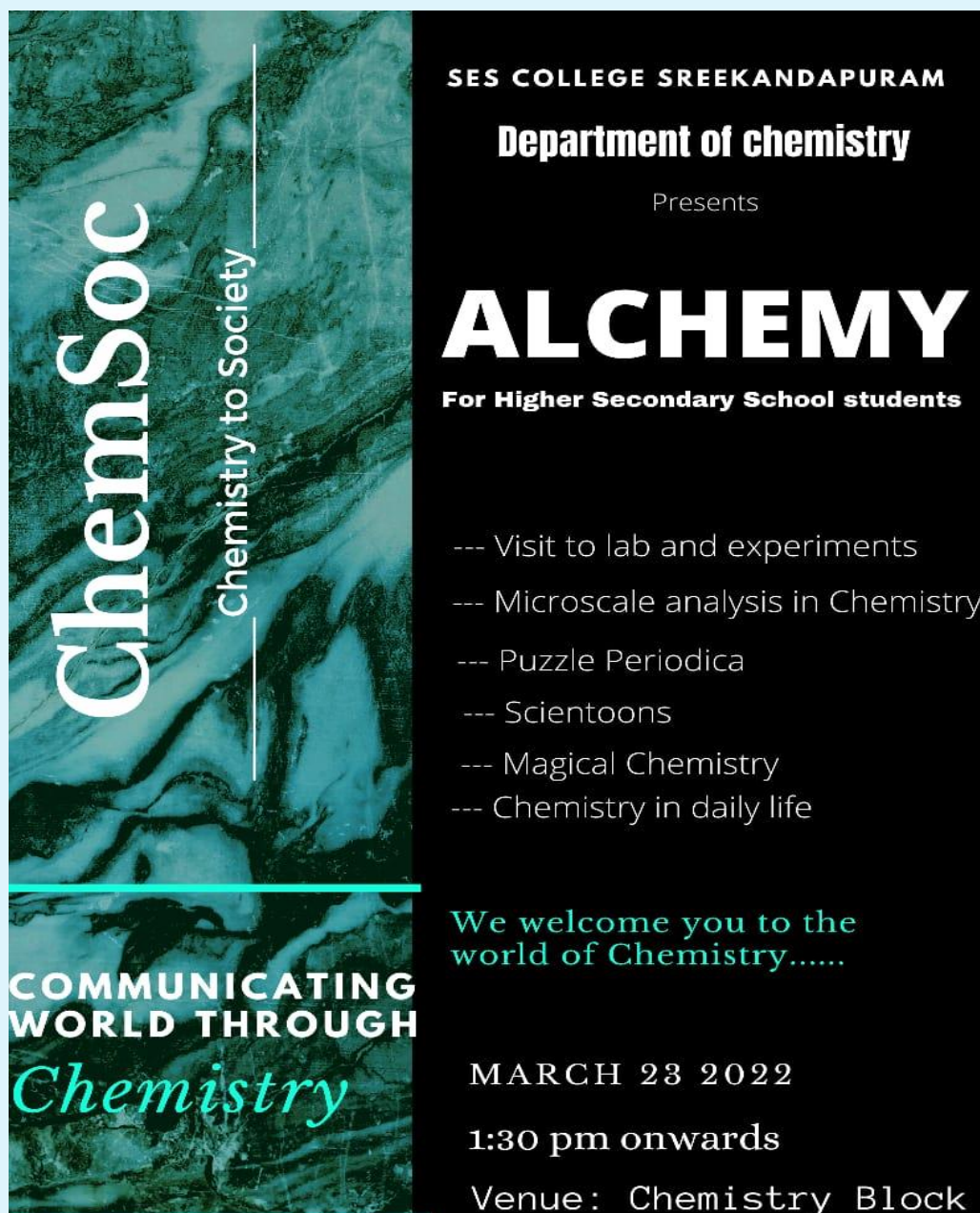
The Malappattom Panchayat has given a Certificate of Appreciation for having done an exemplary social awareness programme, Ecotopia in their Panchayat by BSc Chemistry students at a meeting organized in Malappattom Panchayat office.



## Chemistry Exhibition for Higher Secondary School students –

### Connecting Science to Society (Academic Extension Activity)

We have organized a Chemistry exhibition “ALCHEMY” for students A.K.S, Govt Higher Secondary School, Malapattam. The exhibition included familiarizing chemistry lab equipments and experiments, microscale analysis, Puzzle periodica where mnemonics on periodic table were introduced, Sciencetoons, magical experiments in chemistry etc. The students found the programme interesting and knowledgeable. Around 117 participants have attended.



**ChemSoc**  
Chemistry to Society

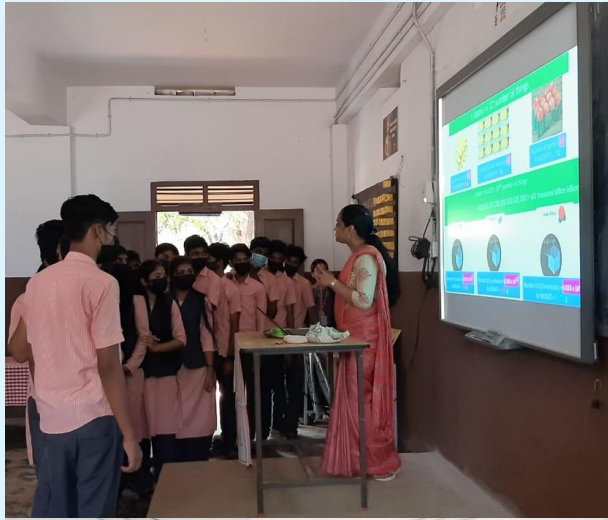
SES COLLEGE SREEKANDAPURAM  
**Department of chemistry**  
Presents  
**ALCHEMY**  
For Higher Secondary School students

- Visit to lab and experiments
- Microscale analysis in Chemistry
- Puzzle Periodica
- Sciencetoons
- Magical Chemistry
- Chemistry in daily life

We welcome you to the world of Chemistry.....

MARCH 23 2022  
1:30 pm onwards  
Venue: Chemistry Block

COMMUNICATING  
WORLD THROUGH  
*Chemistry*



**Training Programme - “Fundamentals of Polymer Synthesis and Characterization Techniques” at CIPET, Palakkad (Industrial visit)**

28 students of BSc Chemistry (2019-22 batch) had done a training Programme titled “Fundamentals of Polymer Synthesis and Characterization Techniques” at CIPET, Palakkad from March 21-23, 2022. They had a practical session on recycling plastic waste into useful products. The certificate were distributed to students Mr. Manoj, CIPET, Palakkad on 16<sup>th</sup> April 2022.

**CP**  
CIPET सिरेट

**CENTRAL INSTITUTE OF PETROCHEMICALS ENGINEERING & TECHNOLOGY (CIPET)**  
(Formerly Central Institute of Plastics Engineering & Technology)  
(Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Govt. of India)

HEAD OFFICE : GUINDY, CHENNAI - 600 032.

CENTRE: **CIPET:PALAKKAD**

Certificate No.: A **159878**

**CERTIFICATE**

*This is to certify that*

Shri / Smt. / Ms. **AKSHAY SIDHI P**

Slr / D/o / W/o **Shri. P Kunhi Kannan**

*has successfully completed the training programme titled*

**Fundamentals of Polymer Synthesis and Characterization Techniques**

Organized at **CIPET:Palakkad** from **21.03.2022** to **23.03.2022**

Date: **23.03.2022**

*Sidhi*  
COURSE COORDINATOR

*Jeel*  
TRAINING I/C - VTC

*Lid*  
CENTRE HEAD



28



1



2



3



4



5



6



7



8



9



10



11



12



13



14



15



16



17



18



19



20



21



22



23



24



25



26



27

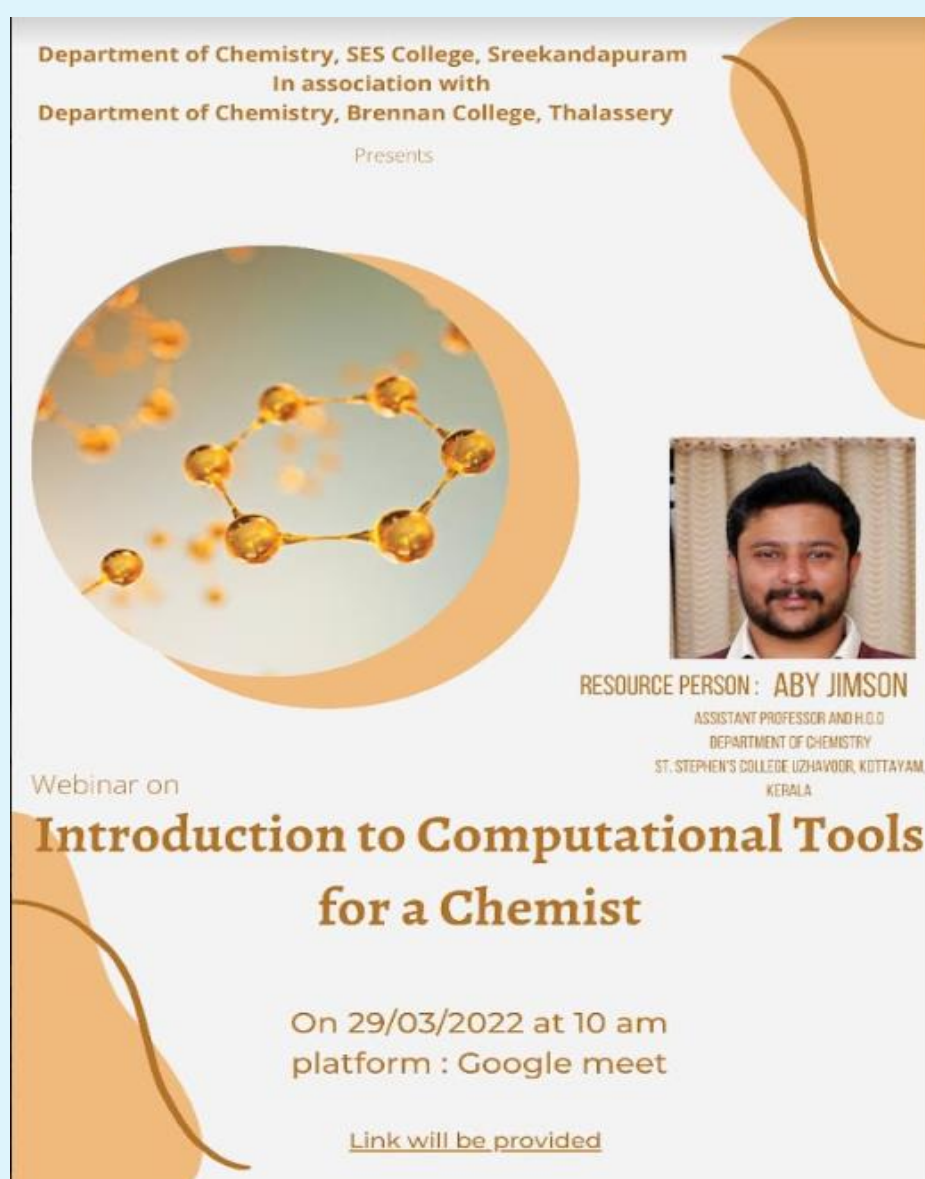


## Webinar on "Introduction to Computational Tools for a Chemist"

*(Skill Development Programme)*

Mr. Aby Jimson, Assistant Professor and Head, Department of Chemistry, St. Stephen's College, Uzhavoor, Kottayam has delivered an invited talk on "Introduction to Computational Tools for a Chemist" on 29/03/2022 for BSc Chemistry students of S.E.S College, Brennan college, Thalassery, S.N.G College, Iritty and Devamatha College Paisakiri. Approximately 67 students have participated in this webinar

He also has added the students for online course on Computational Chemistry and shared the material in google classroom.



Department of Chemistry, SES College, Sreekandapuram  
In association with  
Department of Chemistry, Brennan College, Thalassery  
Presents

Webinar on  
**Introduction to Computational Tools  
for a Chemist**

On 29/03/2022 at 10 am  
platform : Google meet

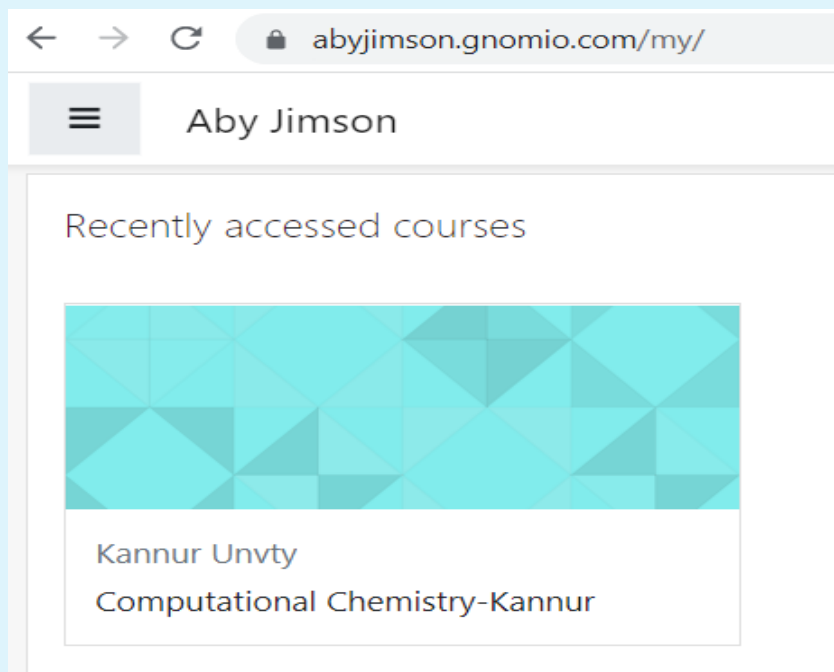
Link will be provided

RESOURCE PERSON : **ABY JIMSON**  
ASSISTANT PROFESSOR AND H.O.D  
DEPARTMENT OF CHEMISTRY  
ST. STEPHEN'S COLLEGE UZHAVOOR, KOTTAYAM,  
KERALA

11:00 AM | Webinar on "Introduction to Computational Tools ..."

10:50 AM | Webinar on "Introduction to Computational Tools ..."





☰ Aby Jimson 🔔 🗨️ Saumya Maria Jacob

Syllabus and Course outcome

Computational Quantum Chemistry (18 Hrs)

4.1 Introduction and scope of computational chemistry, potential energy surface, conformational search, global minimum, local minima, saddle points.

4.2 *Ab initio* methods: A review of Hartree-Fock method, self-consistent field (SCF) procedure. Roothaan concept basis functions. Basis sets and its classification: Slater type and Gaussian type basis sets, minimal basis set, Pople style basis sets. Hartree-Fock limit. Post Hartree-Fock methods - introduction to Møller Plesset perturbation theory, configuration interaction, coupled cluster and semi empirical methods.

4.3 Introduction to Density Functional Theory (DFT) methods: Hohenberg-Kohn theorems, Kohn-Sham orbitals, exchange correlation functional, local density approximation, generalized gradient approximation, hybrid functionals (only the basic principles and terms need to be introduced).

4.4 Comparison of *ab initio*, semi empirical and DFT methods.

4.5 Molecular geometry input: Cartesian coordinates and internal coordinates, Z matrix, Z-matrix of single atom, diatomic molecule, non-linear triatomic molecule, linear triatomic molecule, polyatomic molecules like ammonia, methane and ethane. General format of GAMESS / Firefly input file, single point energy calculation, geometry optimization, constrained optimization and frequency calculation. Koopmans' theorem.

4.6 Features of molecular mechanics force field- bond stretching, angle bending, torsional terms, non-bonded interactions and electrostatic interactions. Commonly used force fields- AMBER and CHARMM

Course Outcome

🔍 ×

**WEBINAR ON POLOROGRAPHY-An Electro-Analytical Technique (*Academic Lecture*)**

Dept of Chemistry in association has conducted a webinar “**POLOROGRAPHY-An Electro-Analytical Technique**” on 2<sup>nd</sup> April 2022 at 11.30 am where Dr.Rajeesh P,Assistant Professor , NAS Kanhangad for final year BSc Chemistry students. Around 13 participated.



Join us for  
**WEBINAR**  
On PoloroGRAPHY  
April 22. 11:30am  
S P E A K E R  
  
**Dr. Rajeesh p**  
Assistant Professor  
Nehru Arts and Science College, Kanjangad  
CHEMISTRY DEPARTMENT  
SES College Sreekandapuram

Meet - viq-qhcm-yoo

meet.google.com/viq-qhcm-yoo?authuser=0

rajeesh p is presenting

# POLAROGRAPHY

## Electro - Analytical technique

Dr. P Rajeesh.  
Assistant Professor, Dept. Of Chemistry  
NAS College ,Kanhangad

11:34 AM | viq-qhcm-yoo

Type here to search

34°C

11:34 22-04-2022

Participants: rajeesh p, Alan Thomas, Sreya K, SOORIYA V, Sahla AH, VINAY C, Aparna kv, 4 others, You


Meet - viq-qhcm-yoo

meet.google.com/viq-qhcm-yoo?authuser=0


rajeesh p is presenting

## HISTORY AND BACKGROUND

Polarography was created by Jaroslav Heyrovsky in Feb. 10th, 1922



1922



1959

On December 10th, 1959, he was awarded the Nobel Prize.

11:41 AM | viq-qhcm-yoo

Type here to search

35°C

11:41 22-04-2022

Participants: rajeesh p, Arya M K, Sreya K, SOORIYA V, Sahla AH, VINAY C, Aparna kv, 3 others, You

**Webinar on "Research Methodology- Fellowships & grants" (Research Methodology)**

Webinar on "Research Methodology- Fellowships & grants" by Dr.Remya Tressa Jacob, Postdoctoral Researcher at the India Competence Centre (ICC-FIM), University of St.Gallen, Switzerland on Tuesday, May 31<sup>st</sup> 2022 at 02:00 pm

Participants ~ 46

Webinar on

# Research Methodology Fellowship and grants

Tuesday | 31 May 2022

2 pm



**Dr. Remya Tressa Jacob**

Postdoctoral Researcher at the India Competence Centre (ICC-FIM), University of St.Gallen, Switzerland

The top screenshot shows a Google Meet interface with 40 participants in a grid. The participants' names are: remya, manjima t, Navya VN, Laya Raj K V, Alka maria Biju, Anagha K P, Krishna das, Sneha Jayaprak..., Aswathi K, Sreya K K, Amal John, Kailas nath, Abhaya Ck, Armeya Ajith E R, NAVYA N, Jishnu Pk, Harsha C P, AMRUTHA GOPI, Arya P, Shivangi Balakri..., Shaniba ks, Arya M K, Sahla AH, AISWARYA M P, Amal T k, Sayoojya Sivan..., Sourav M, Akshaya A, Aswathi K, SREYARAVI CH..., Shalu K, Gopika Prasad, Sreenesh A K, Aswathi Prem RK, Anisha Shaji, Akshay TS, ASWATHI P P, and 7 others.

The bottom screenshot shows the same meeting at 2:39 PM. A presentation slide is displayed with the following content:

### International Fellowships

- US-Fulbright Nehru Fellowship for masters and Doctoral study
- Canada-Indo Shastri Fellowship
- UK-Commonwealth Fellowship
- Australia-Endeavor Fellowship
- Cambridge University-Dr.Manmohansingh Scholarship
- UN WIDER-Visiting PhD Fellowship

The meeting details panel on the right shows the following information:

Meeting details

Joining info  
<https://meet.google.com/bsu-tvry-qtq>  
[Copy joining info](#)

Google Calendar attachments show up here

The participant grid in the bottom screenshot includes: remya, manjima t, Navya VN, Laya Raj K V, Alka maria Biju, AISWARYA M P, 33 others, and You.