



**SRI CHANDRASEKHARENDRA SARASWATHI VISWAMAHAVIDYALAYA
(SCSVMV)**

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Enathur, Kanchipuram - 631 561. Tamil Nadu



ChemNews

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Annual Newsletter of Department of Chemistry

2019-21

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Mrs. M. Parameswari, Assistant Professor in Chemistry

Mrs. K. Indumathy, Teaching Assistant in Chemistry

Issue Editor

Mrs. V. Vaidehi, Assistant Professor in Chemistry

"Chemistry is a Mystery of Chemicals; Chemists are the Detectives who solve this Mystery" — Maanyaa Jain

About the Department of Chemistry

The Department of Chemistry, SCSVMV offers B.Sc., M.Sc., M.Phil, and Ph.D. programmes in Chemistry. To present and promote science and spirituality in a balanced manner to ignite and steer the young minds on the pathway of science and technology. The department has highly qualified, motivated, and research-oriented faculty members.

The department has a research project Funded by UGC-DAE-CSR, Kalpakkam. The department has sophisticated instrument facilities such as cyclic voltammetry, Fourier transforms infrared spectroscopy, UV/visible spectroscopy, spectrofluorometer, flame photometry, Infra-red CO₂ analyzer, COD reactor, water quality analyzer, and ultrasonic interferometer. The department organizes various seminars and workshops funded by different funding agencies.

Highlights of the Department

- Offers UG, PG and Research degrees
- Qualified and Research Oriented Faculty
- Well stacked departmental library
- Funding from Government of India
- Well Equipped Laboratory
- Advanced Instrumentation facilities
- Faculty Engaged in Emerging Research Areas
- Publications in High Impact Journals
- Research Consultancy Services
- Seminar and Workshops by Experts

Courses Offered

- B.Sc. (Chemistry)
- M.Sc. (Chemistry)
- M.Phil. (Chemistry – Full Time)
- Ph. D (Chemistry – Full Time & Part Time)

Areas of Research

- Electrochemistry
- Supramolecular Chemistry
- Crystal Growth
- Environmental Chemistry
- Computational Chemistry
- Electrocatalysis

Department Activities

Career Guidance programme on 17.07.2019 & 18.07.2019

The Department of Chemistry conducted "Carrier Guidance Programme" on 17/07/2019 & 18/07/2019 for the final year UG and PG students at MCA seminar Hall. The purpose of this programme is to motivate the final year UG and PG students to have a plan for their career in the beginning of the academic year. Mrs. M. Parameswari, Asst. Prof. Department of Chemistry was the resource person and gave a lecture on the topic "Resume writing techniques" in the first session on 17/7/2019. She explained briefly about how to prepare resume for various jobs like Bank, Industries oriented, Marketing etc., Mr. V. Santhanam, Asst. Professor & Head, Dept. of Chemistry was the resource person for the second session and gave a lecture on "The unknown language". He explained about importance of body language, gesture, face reactions and body actions which influences the outcome of an interview and also discussed about personality development. Dr. B. Muthukumaran, Asst. Professor, Dept. of Chemistry was the resource person for the third session and delivered a lecture about "The future in Chemistry". He explained elaborately about job prospects in the chemistry related field after the completion of the course.



Dr. K. Sivakumar, Professor, Dept. of Chemistry, was the resource person for the fourth session on 18/07/2019 and gave a lecture on "Career Choices in Chemistry". In this lecture, he highlighted the opportunities for chemistry in the real scenario and gave ideas for how to prepare for competitive examinations, focus on the need for higher studies and the importance of research. Mrs. C. Jeyalakshmi, Asst. Professor, Dept. of Chemistry handled the final session on 18/07/2019 with the title "Road to achieve the career plan". She addressed the students how to fix their goal and explained about the importance of "A goal without a plan is just a wish". Students after attended this programme felt no fear to face an interview. Students enjoyed the programme and gained many messages from the resource persons for their higher studies.

*National Seminar on "Periodic Table of Chemical Elements" on 7 and 8th November 2019
(Sponsored by DST-SERB & CSIR)*



A two-day national seminar on "Periodic table of chemical elements" sponsored by DST-SERB & CSIR during 07 & 8th of November 2019 was organized by the Department. Prof. Dr. K. Sivakumar, Convener, Dept. of Chemistry, welcome the gathering. Mr. V. Santhanam, Asst. Professor & Head, Department of Chemistry, Coordinator of the event briefed about the theme and importance of the seminar. The inaugural function was presided over by Prof. Dr. S.V. Raghavan, Vice Chancellor, SCSVMV. In his presidential address he highlighted about the importance of the Periodic Table of Chemical Elements and motivated the participants by emphasizing the importance of attending the seminar. Prof. Dr. G. Srinivasu, Registrar, SCSVMV, and Prof. Dr. S. Balaji, Dean, FoS, SCSVMV, felicitated the gathering. Dr. B. Muthukumaran, Asst. Prof. Department of Chemistry, proposed the vote of thanks.

In connection with the National Seminar on Periodic Table of Chemical Elements, the Department of Chemistry conducted various competitions like Quiz, Completion of the periodic table on 04th & 05th, November, 2019; more than 100 students from the Departments of Mathematics, Physics and Chemistry participated in the competitions. Prof. Dr. S.V. Raghavan, Vice Chancellor, SCSVMV distributed the prizes for the winners.

Lecture on Placement Guidance on 30.07.2019

Lecture on Placement Guidance programme for the final year B.Sc. & M.Sc. students was organized by the Department of Chemistry on 30/07/2019 at MCA seminar hall. The aim of this programme is to motivate the final year UG and PG students to have a plan for their carrier in the beginning of the academic year. Prof. Dr. K. Sivakumar, Dept. of Chemistry delivered welcome address and introduced the speaker. Dr. M. Kannan, Placement Coordinator acted as the resource person and gave a Lecture on "How to plan and prepare for placements". He briefed about what is placement and what the benefits of placement for the



students are. He shared his past three years' experience in the recruitment drive with the students. He motivated the students in decision making, attitude and how to physically and mentally prepare for the interview. The students said that they learned how to set a goal for higher studies and came to know about importance of decision-making tendency, got clarity to attend the interview without fear. Students enjoyed the programme and gained many messages from the resource person for their carrier.

CONTECH-19 on 31.01.2020

The department organized CONTECH-19 with the support of ACT (Association of Chemistry Teachers) C/o Homi Bhabha Centre for science Education (HBCSE), Mumbai. The aim of the event is self-analysis by a student through a concept test in chemistry. The test was conducted on 31/01/2020. The conceptual test was conducted in four venues under the invigilation of four faculty members of department of chemistry. All UG students (145 students) actively participated in the CONTECH-19. The event was successfully coordinated by Mrs. M. Parameswari, Asst. Prof of Chemistry.



Job at Syngene-Awareness Programme on 28.01.2020

Final year M.Sc. and B.Sc. students of Department of Chemistry participated in the Syngene International, India's largest and the only listed contract research organization meet with the students was held in SCSVMV on 28.01.2020. Prof. Dr. K. Sivakumar, Dept. of chemistry, welcomed the gathering. Dr. Ganesh Babu, Research Director, Synthetic organic Chemistry acted as a resource person, he explained elaborately about the some exciting career options Syngene offers to Fresher's in the simple way of understandable manner. Students from other institutions like Pachaiyappas women college, Arignar Anna Govt. College, Sankara Arts and Science College also participated. Mr. V. Santhanam, Asst. Prof & Head, Dept. of Chemistry proposed the vote of thanks. Dr. M. Kannan, Asst. Prof of Placement coordinator, Mrs. K. Indumathy, Teaching Asst. of chemistry, Department Placement coordinator, coordinate the event fruitfully.



Industrial visit

Stahl, India Private Limited, Kanchipuram on 26.02.2020

The Department of Chemistry arranged an Industrial visit to Stahl India Private, Limited Kanchipuram for III B.Sc. Students (63 students) with 3 faculty members on 26.02.2020. This visit was mainly focused to familiarize the students about the properties of leather dye-stuffs. The on-site guiding staff were very supportive and explained about the instrumentation techniques of GC-MS, AAS, UV, IR etc. During the visit, students actively interacted and learnt about environmental safety data of leather dyestuffs. They also learned about GLP (Good Laboratory Practices). This tour was highly useful for the students to gain practical knowledge about the working of an industry and this will help students to mold themselves for their career and bringing about a positive change in thinking and practice in sharpening their skills.



Celebrations

Pongal Festival on 10.01.2020

UG and PG students of the Department of Chemistry celebrated Pongal festival on 10/01/2020 in front of the Vidhya Vihar block to portray the tradition. Pongal is the harvest festival, which is dedicated to the sun-God. People show their gratitude to the God for the year's cultivation of crops with the grand celebrations and happiness of the harvest day. The most important part of this harvest festival is cooking Pongal with newly harvested grains. Sakkarā Pongal and Ven Pongal were prepared by the students in a traditional way. When it started to boil over, everyone shouted out "pongalo Pongal" happily and shared their happiness with everyone. During the time of the celebration Registrar of the University, Prof. Dr. G. Srinivasu came in person shared his happiness with our department faculties and students. Prof. Dr. K. Sivakumar, Dept. of Chemistry and all the faculty members actively participated. The day ended with a grand Pooja and Prasadams were distributed to all the students.



Saraswathi Pooja on 04.10.2019



The Department of Chemistry performed Saraswathi Pooja on 04/10/2019 in UG and Research lab premises of the department. The celebration started at 10.30 am in the Research lab and then staff room and finally at UG lab, Prof. Dr. S. Balaji, Dean, Faculty of Science, Presided over the pooja.

I B.Sc & I M.Sc Inauguration and PTA on 21.08.2019

I B.Sc. (50 students) & I M.Sc. (11 students) Inauguration was held by the Department on 21/08/19 at 9.30 am in I B.Sc. classroom both students and parents were present for the meeting. Prof. Dr. K. Sivakumar, Dept. of Chemistry wished the students and insisted the students that they have to develop multi-disciplinary skills and assimilate knowledge from the core subject and also instructed the students to maintain discipline and proper dress code on the university campus. He introduced all the staff members of the department of chemistry to the first year B.Sc. & M.Sc. students and enlightened about the department facilities for their studies and advised the students to utilize it in a proper way. In addition to this inaugural function, PTA meeting was also conducted in the III B.Sc. classroom, and parents of all I B.Sc. and I M.Sc. students participated.



Mrs. M. Parameswari, Asst. Prof, Department of Chemistry, Coordinator (I B.Sc.) and Dr. R. Prabhakar Krishnan, Asst. Prof, Department of Chemistry, Coordinator (I M.Sc.) coordinated the meet and interacted with the parents along with the Head, Department of Chemistry. Finally, the function came to an end with Tea and snacks for all the students and parents on behalf of department of Chemistry.

Fresher's Day

Fresher's Day Celebrations for the First Year B.Sc. and M.Sc. students of the Department of Chemistry was organized by the UG and PG students on 06.09.19 between 1.00 pm-2.30 pm at Sri Adi Sankara Auditorium. The aim of the grand event was to help the fresher to allay fear and develop friendship with the seniors and juniors. Various games were conducted for the fresher's in the main lab of the Chemistry department between 9.30 am to 11.30 am before the fresher's day function. After the game events, a light refreshment was provided to the students. The programme started with a gift to all the faculty members as the token of love for the teacher's day celebration. Then Mr. V. Santhanam, Asst. Professor & Head, Dept. of Chemistry, Dr. B. Muthukumar, Asst. Professor, Dept. of Chemistry, Mrs. C. Jeyalakshmi, Asst. Professor, Dept. of Chemistry, wished the fresher's and insisted the students that they have to assimilate knowledge from the core subject and also maintain discipline in the class room and also motivated the students for CSIR exam preparation and also for other competitive exams. Finally Prof. Dr. K. Sivakumar, Department of Chemistry, gave hearty wishes for the fresher's and also advised the students to maintain discipline and neat dress code in the class room. Prizes were distributed to the students those who won the games were conducted in the main lab. B.Sc. and M.Sc. students shared their thoughts about the department with their juniors. All the faculty members of the Department of Chemistry gave their hearty wishes to the fresher's. The programme ended with National anthem and Tea & snacks were distributed to the students.



Special Achievements by the Department:

- Received Rs. 75,000/- funding from Council Of Scientific and Industrial Research (CSIR), New Delhi for the National seminar on Periodic Table of Chemical Elements organized during 07th & 08th /11/2019 in commemoration of International Year of Periodic Table of Elements – 2019.
- Received Rs. 75,000/- funding from Science & Engineering Research Board (SERB), New Delhi for the National seminar on Periodic Table of Chemical Elements organized during 07 & 08th /11/2019 in commemoration of International Year of Periodic Table of Elements – 2019.

Special Achievements by the Faculty member

- Mrs. C. Jeyalakshmi, Asst. Professor, Department of Chemistry received a "Certificate of Outstanding performance" in the record event Maximum Authors contributions for a book on Covid 19 and its impact, ESN Publications, Chennai, India.

Chemistry Puns and Jokes

Why did the white bear dissolve in water?

Because it is polar

What did the scientist say when he found 2 isotopes of helium?

He He

Student Placed Details

- Mr. S. Ajith Kumar, M.Sc. student (2018-2020) had been placed as a Chemist in Tex Biosciences, Tiruvallur.
- Ms. R. Arulmozhi, M.Sc. student (2018-2020) had been placed as a Chemist in Kanchi Karpooram Company, Kanchipuram.
- Ms. R. Chitra and Ms. L. Sridevi, B.Sc. students (2017-2020) were selected as Associate in the Sutherland Global Services recruitment drive held on 11/11/19.

Student Activities

- Mr. G. Padmanaban (III B.Sc.) won II prize in the Mock interview event in ELITE 2K19 5th National Level Technical Symposium on 18/10/2019 organized by the Department of Computer Science and applications, SCSVMV.
- In connection with the National Seminar on Periodic Table of Chemical Elements the Department of Chemistry conducted various competitions like Quiz programme, Completion of the periodic table on 04 & 05/11/19, more than 100 students from Maths, Physics and Chemistry participated in the competitions. The following students won the prizes.

Completion of Periodic Table

P.Priya (II B.Sc.) - I Prize

P.Nandhakumar (I B.Sc.) -II Prize

P.Karthikeyan (I B.Sc.) -III Prize

A.Balaji (II M.Sc.) - I Prize

- I B.Sc. Chemistry students (49 students) participated in the “Invited Lecture on Amine-Boranes: Synthesis and Applications” organized by Department of Physics, SCSVMV on 03/12/2019.
- II M.Sc. students (21 students) participated in the awareness programme about competitive exams” organized by the Placement Cell, SCSVMV on 03/02/2020.
- III B.Sc. students (63 students) participated in the seminar on “How to develop smart Personality and Confidentiality” organized by the Placement Cell, SCSVMV on 07/02/2020.

Riddles

➤ I may not be gold but I make gold look more beautiful. I help you fly and even though I'm not popular, my prices run high. What am I?

Answer: Rhodium

➤ Kids really love me because I make things float. You can even use me to expand small things. What am I?

Answer: Helium

➤ Shiny like silver, denser than lead, rarer than gold, could stop a bullet if I wanted to. What am I?

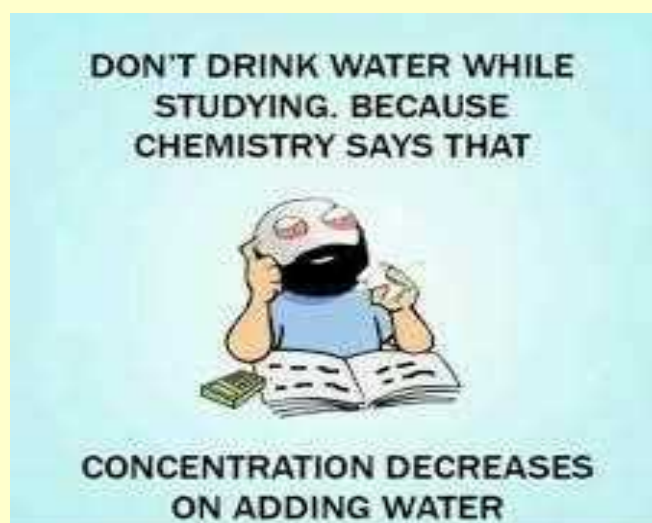
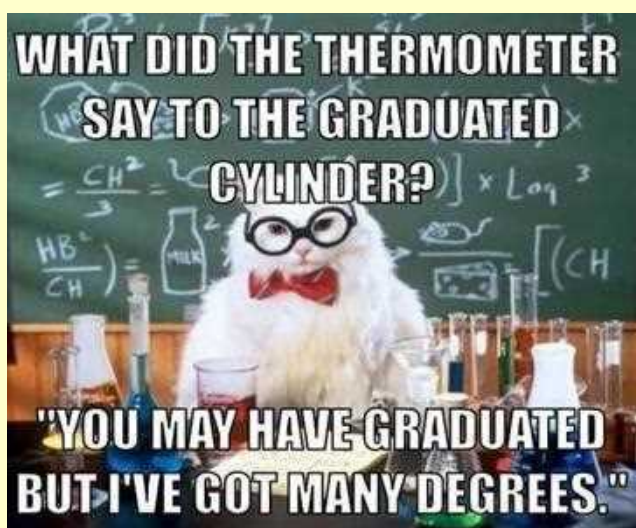
Answer: Osmium

Recent Research Publications

Total No. of papers published: 12

- ❖ Santhanam Venkatakrishnan, Raja Raghavan, Seshadri Srinivasan, Kurinjinathan Panneerselvam, Suvasini Chandramouleeswaran, "Growth, structural, spectral, thermal, electrical and optical characterization of a novel optical material: Triethanolamine picrate single crystals for optical applications"(2019), Volume 67, 27-36 [IF: 2.6].
- ❖ Sivakumar K, Rajamohan Rajaram, Kothai Nayagi S, Swaminathan.M, "pH Independent Complexation of 2-Aminobenzimidazole with β -cyclodextrin", Analytical and Bio analytical Chemistry research, (2019).volume 6(2), 457-476 [IF: 0.38].
- ❖ Krishnamoorthy Sivakumar, Samikannu Prabu, Rajaram Rajamohan, and Sharifah Mohamad, "Spectral Studies on the Supramolecular Assembly of Uridine with β -Cyclodextrin and Its In Vitro Cytotoxicity", Polycyclic Aromatic Compounds,(2019) 1-20. [IF: 1.894].
- ❖ K, Sivakumar, R. Periasamy, S. Kothainayagi, G. Ramasamy, "Synthesis and Characterization of host-guest inclusion complex of β -cyclodextrin with 4,4'-methylenedianiline by diverse methodologies" Journal of Molecular liquids, (2020) [IF: 4.85]
- ❖ B.Muthukumar and S.Balaji, "Ethanol electrooxidation reaction catalyzed by Pt Nanoparticles Anchored on synthetic clay/Nafion Nanocomposite in alkaline medium."(2019), 6(2).
- ❖ D.Latha, G.Gnanamoorthy, Virendrakumaryadav, V.Karthikeyan, V.Naarayanan, "Enhanced Photocatalytic performance of ZnSnO₃/rGO nanocomposite", Chemical Physics Letters ,(2020)739,137050

Funny facts



Workshop/Conferences/other activities

Dr. K. Sivakumar

- Convener for DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 07 & 08 November 2019.
- Acted as a chair person on DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 08/11/2019.

Mrs. Usharani pisipaty

- Acted as a chair person on DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 07/11/2019

Mr. V. Santhanam

- Coordinator for DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements on 07 & 08 November 2019.
- Acted as a chair person on DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 07/11/2019.

Dr. B. Muthukumar

- Acted as a chair person on DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 07/11/2019.

Mrs. C. Jeyalakshmi

- Acted as a chair person on DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 08/11/2019.
- Acted as a Panel member for the session on "Need for Effective Environmental Education in College and University" of Anil Agarwal Environment Training Institute, Rajasthan on 29/01/2020.
- Acted as a resource person for the webinar and delivered a lecture on "Sustainable Development" organized by National Service Scheme, Unnat Bharat Abhiyam, AJK College of Arts and Science, Coimbatore on 24th April 2020.

Mrs. M. Parameswari

- Acted as a chair person on DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 07/11/2019.
- Coordinator for the Concept test in Chemistry (CONTECH) 2019-20 conducted by Association of Chemistry Teachers C/o Homi Bhabha Centre of Science Education, Tata Institute of Fundamental Research, Mumbai on 31/01/2019.

Mrs. K. Indumathy

- Coordinator for Career Guidance Programme -17/07/2019 & 18/07/2019

Dr. R. Prabhakararishnan

- Acted as a chair person on DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 08/11/2019.

Dr. D. Latha

- Acted as a chair person on DST-SERB & CSIR sponsored National Seminar on Periodic Table of Chemical Elements organized by Department of Chemistry, SCSVMV on 08/11/2019.

Ph. D Awardees

The Public Ph.D. viva voce examination was held on 19/07/2019 for Mr. Mrinal Kanti Sarkar, an external candidate, with the title of the thesis "Formulation and Evaluation for Hydroxypropyl Methyl cellulose based controlled –Release Matrix Tablets of Prazosin HCL" under the guidance of Dr. Tarun Kanti Ghosh, Assistant professor, Regional Institute of Pharmaceutical Science and Technology (RIPSAT), Abhoynagar, Agartala. Dr.P.Shanmugasundaram, Director School of Pharmaceutical sciences, Vels Institute of Science, Technology and Advanced studies, Chennai as an external examiner.



The Public Ph.D viva voce examination was held on 29/02/2020 for Mr. B. Muthukumar, an internal candidate, with the title of the thesis "Electro catalyzed oxidation of alkanols by metal nanoparticles embedded over synthetic clay/ Nafion composites" under the guidance of Prof. Dr. S. Balaji, Dean, Faculty of science, SCSVMV, Dr N. Rajalakshmi, Senior Scientist, Centre for fuel cell technology, Taramani, Chennai as an external examiner.

Placed students Details



Ajith Kumar, M.Sc
(2018-2020)
Quality Controller
Tex Biosciences



R. Arulmozhi, M.Sc
(2018-2020)
Quality controller as trainee
Kanchi Karpooram
Company



R. Chitra, B.Sc.
(2017-20)
Associate,
Sutherland, Chennai



L. Sridevi, B.Sc.
(2017-20)
Associate,
Sutherland, Chennai

Department Activities

Career Guidance programme on 10.02.2021 & 11.02.2021

Career guidance programme for final year B.Sc. & M.Sc students was organized by the Department virtually from 10 to 11th February 2021 with 8 sessions through Google meet. The purpose of this programme is to motivate the final year UG and PG students to have a plan for their careers in the beginning of the academic year. Mrs.C.Jeyalakshmi, Asst. Prof, Dept. of Chemistry handled the first session with the title “Ideas to make your job desirable” on 10.02.2022. She addressed the students on how to fix their goals and explained the importance of “A goal without a plan is just a wish”. She made the students do some self-activities and briefed them about the difference between ambition and attitude and also explained goal setting, developing a plan and the steps involved in career planning etc., Mrs.M.Parameswari, Asst. Prof, Department of Chemistry was the resource person for the second session and gave a lecture on the topic “Resume writing techniques”. She explained briefly how to prepare resumes for various jobs like Bank, Industries oriented, Marketing etc., and how to prepare resumes to impress hirers in an interview. Dr. D. Latha, Asst. Prof, Dept. of Chemistry was the resource person for the third session, she explained about Course and career options available after UG and PG Chemistry and shared about the various chemical industries in and around Kanchipuram. Dr .T. Pushpanathan, Head, Department of English, was the resource person for the fourth session on 11.02.2021, he delivered his talk on English for Empowerment, in his talk he explained the need for English in today’s world. Dr. M. Kannan, Asst. Prof, Department of CSA & placement coordinator was resource person for the fifth session, he addressed the students on the topic How to face an Interview?



Mr .V. Santhanam, Asst. Professor & Head, Dept. of Chemistry gave a lecture about “How to answer tough questions in an interview?” He explained about the importance of answering questions during the interview. Dr. B. Muthukumar, Asst. Professor, Dept. of Chemistry delivered a lecture about “Understanding Career”. He explained elaborately about job possibilities in the chemistry-related field after the completion of the course. His lecture motivated the students on how to prepare mentally and physically to choose a career, and how to develop a personal attitude in front of others in an interview etc., Prof. Dr. K. Sivakumar, Department of Chemistry, gave a lecture on “Career Choices in Chemistry. In this he highlighted the opportunities for chemistry in the real scenario and gave ideas for how to prepare for competitive examinations, focusing on the need for higher studies and the importance of research. Finally, he shared some tips on interview techniques.

Paper Published by full-time scholar

S. No	Name of the Scholar	Title	Name of the Journal	Year	Page No.	Impact factor
1.	G. Parinamachivayam	Reinforcement of 'imine-hydroxyl chelation pocket' by encapsulating into the β -CD cavity for the sterically protective detection of Al^{3+} .	Journal of Molecular Liquids	February, 2021	114949	5.0

Paper presented by Faculty members

S.No.	Name of the Faculty	Title of the paper	Place	Date
1	Dr. K. Sivakumar	Fading of Rhodamine B using CdS quantum dots under solar light.	57 th Annual Convention of Chemists (Indian Chemical Society), The Industrial & Applied Chemistry" Section.	27.12.2020 & 28.12.2020

Book Published by the faculty

S.No	Books Title/Edited Book Title (Edition)	Chapter Title	Publisher Details	Year of Publication	ISBN Number/ISSN Number
<i>Dr. K. Sivakumar, Professor, Department of Chemistry</i>					
1)	Emerging Developments and Environmental Impacts of Ecological Chemistry	Photocatalytic Activity of ZnO Nanoparticles on the Degradation of Organic Dyes Under Solar Light.	Medical Information Science Reference, IGI Global Publishers, United States of America	2020	ISBN13: 978 1799812418
<i>Mrs.C.Jeyalakshmi, Asst.Professor, Department of Chemistry</i>					
2)	Maximum Authors contributions for a book on Covid 19	Physics and Statistics	ESN Publications	2021	C.No R16M24

- K. Sivakumar, S. Priyanka, V. Ragavendran, H. Manikandan, "Apoptosis effects of phenyl tagged isoxazole-benzoxadiazole hybrids On MDA MB-231 cancer cell line", *European Journal of Molecular & Clinical Medicine*, ISSN 2515-8260, 7 (11) (2020) 6879-6894.
- V. Santhanam, R. Raja, S. Seshadri, P. Kurinjathan, C. Suvasini, "Growth, structural, spectral, thermal, electrical and optical characterization of a novel optical material: Triethanolamine picrate single crystals for optical applications", *Chinese journal of physics*, 67 (2020) 27-36. [Impact factor: 2.6]
- V. Santhanam, R. Ellappan, S. Arumugam, "Electro-chemical corrosion Behaviour of Vegetable oil- Based Engine oil", *IOP. Conference. science: Materials Science and Engineering*, 954 (2020) 01204
- K. Sivakumar, M. Murugan, A. Anitha, R. Rajamohan, "Effect of pH and structural orientation on supramolecular complexation of chloroquine in β -cyclodextrin medium", *Journal of Molecular Liquids*, 325 (2021) 115157. [Impact factor: 6.1]
- K. Sivakumar, G. Parinamachivayam, M. MuraliKrishnan, V. Ragavendran, T. Stalin, K. Premkumar, Sujay Chakravarty, A. Bharathi, "Reinforcement of 'imine-hydroxyl chelation pocket' by encapsulating into the β -CD cavity for the sterically protective detection of Al^{3+} ", *Journal of Molecular Liquids*, 323, (2021) 114949. [Impact factor: 6.1]
- K. Sivakumar, V. Ganesan, Maniyazagan Munisamy, Esakkimuthu Shanmugasundaram, S. Senthilvelan, K. Paramasivaganesh, T. Stalin, "Electrochemical sensing of N-phenyl-1-naphthylamine using the MWCNT/ β -CD through 'host scavenger-guest pollutant' mechanism", *Chemical Papers*, 75(2021)1421-1430. [Impact factor: 2.0]
- K. Sivakumar, R. Periasamy, S. Kothainayagi, "Host-guest inclusion complex of β -cyclodextrin and 4,4-(1,4-phenylenediisopropylidene)bisaniline: Spectral, structural and molecular modeling studies", *Journal of Molecular Structure*, 68 1224, (2021) 129050. [Impact factor: 3.1]
- V. Santhanam, V. Nivetha, V. Ragavendran, B. Logeswaran, S. Kaleeswaran, "Experimental and computational insights into the synthesis and characterization of a novel Schiff base ligand 2,2# - [1z, 14e)-2,5,8,11,14- pentaazapentadeca-1 14-diene-diy]diphenol", *CSI Transactions on ICT*, (2021) , DOI:10.1007/s40012-020-00322-3

Faculty Development Program (FDP) participated by the faculty members

<i>S.No</i>	<i>Faculty Name</i>	<i>Event Name</i>	<i>Organizer</i>	<i>Date</i>
1	Mr.V.Santhanam	National Webinar on Enhancing Research Effectiveness using Scopus, Science direct and Mendeley	Faculty Development Centre, Kurukshetra University in collaboration with Elsevier.	01.05.2020
2	Dr. B.Muthukumar	One day Webinar on "Enhancing Research Effectiveness using Scopus, Science direct and Mendeley"	Faculty Development Centre Kurukshetra University, Kurukshetra In Collaboration With Elsevier	01.05.2020
3		One Week Quality improvement program "Materials Characterization Techniques".	Department of MEMS, IIT Indore.	22.03.2021 to 27.03.2021
4		One week Faculty Development Programme (FDP) on "Research Methodology".	Department of Chemistry, Kamala Nehru Mahavidyalaya, Nagpur.	26.04.2021 to 01.05.2021
5	Mrs.C.Jeyalakshmi	Faculty development programme on "Education for Sustainable Development".	Sathyabama Institute of Science and Technology (Deemed to be a University)	12.05.2020 to 16.05.2020
6		FDP on Frontiers in Chemistry	St.Joseph College, Chennai	16.09.2020 to 18.09.2020
7		National level one week FDP on Research Methodology	Amar seva mandals Kamla Nehru Mahavidyalaya, Nagpur.	26.04.2021 to 01.05.2021
8	Mrs. M.Parameswari	Faculty development programme on "Education for Sustainable Development"	Sathyabama Institute of Science and Technology (Deemed to be University), Chennai.	12.05.2020 to 16.05.2020
9		3-Day Online FDP on "E-Content Development Using Open Source Tools".	Dr.M.G.R. Educational and Research Institute and Universal Teacher's Academy, Chennai.	27.05.2020 to 29.05.2020
10		National Level One-week Faculty Development programme on Research Methodology	Amar Sewa Mandal's Kamala Nehru Mahavidyalaya, Nagpur.	26.04.2021 to 01.05.2021
11	Mrs.D.Latha	FDP on "Education for Sustainable Development"	Sathyabama Institute of Science and Technology (Deemed to be University)	12.05.2020 to 16.05.2020

Workshop/Conferences/other activities

Dr. K. Sivakumar

- *Acted as a resource person for the virtual career guidance programme and delivered a lecture on “Career Choices in Chemistry” for final year students (B.Sc & M.Sc) organized by the Department of Chemistry, SCSVMV on 10 & 11 February 2021.*

Mr .V. Santhanam

- *Acted as a resource person for the virtual career guidance programme and delivered a lecture on “How to answer tough questions in an interview” for final year students (B.Sc & M.Sc) organized by the Department of Chemistry, SCSVMV on 10 & 11 February 2021.*

Dr .B. Muthukumaran

- *Acted as a resource person for the virtual career guidance programme and delivered a lecture on “Understanding Career” for final year students (B.Sc & M.Sc) organized by the Department of Chemistry, SCSVMV on 10 & 11 February 2021.*

Mrs.C.Jeyalakshmi

- *Acted as a resource person for the webinar and delivered a lecture on “Sustainable Development” organized by National Service Scheme, Unnat Bharat Abhiyan, AJK College of Arts and Science, Coimbatore on 24th April 2020.*
- *Acted as a resource person for the virtual career guidance programme and delivered a lecture on “Ideas to make your job desirable” for final year students (B.Sc & M.Sc) organized by the Department of Chemistry, SCSVMV on 10 & 11 February 2021.*

Mrs .M. Parameswari

- *Acted as a resource person for the virtual career guidance programme and delivered a lecture on “Resume Writing Techniques” for final year students (B.Sc & M.Sc) organized by the Department of Chemistry, SCSVMV on 10 & 11 February 2021.*

Mrs K, Indumathy

- *Coordinator for virtual career guidance programme -10.02.2021 & 11.02.2021*

Dr. D. Latha

- *Acted as a resource person for the virtual career guidance programme and delivered a lecture on “Course and career options available after UG and PG Chemistry” for final year students (B.Sc & M.Sc) organized by the Department of Chemistry, SCSVMV on 10 & 11 February 2021.*

Placed students Details



G. Suriyaprakash, M.Sc
(2018-2021)
Associate,
Sutherland, Chennai



V. Saravanan, B.Sc
(208-21)
Trainee Chemist
KeminnteK_Laboratories



G. Yuvashakthi, B.Sc
(2018-21)
Associate,
Sutherland, Chennai



SriKonda Madhuvallika, B.Sc
(2018-2021)
Associate,
Sutherland, Chennai



- ✓ Airbags in cars are manufactured with sodium Azide. It is a very poisonous chemical.
- ✓ The metal namely, Gallium can melt in your palm, as it has a melting point of 29.76°C .
- ✓ The metal namely, Gallium can melt in your palm, as it has a melting point of 29.76°C .



Keep in Touch with us

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