

## DEPARTMENTAL ACTIVITIES

| S. No | Date of the Event | Title of the Workshop/Seminar/Webinar/FDP   | Category (National/International/State) | Name of expert(s) invited along with name of Institution(s)  |
|-------|-------------------|---|---|--|
| 1     | 06/02/23          | "National Webinar On Atom by Atom Engineering Cluster in Science"                           | National                                | Dr. Prabhu Pandurangan<br>Assistant Professor (Senior Grade),<br>Department of Physical Chemistry,<br>University of Madras,<br>Guindy Campus,<br>Chennai – 600 025.  |
| 2     | 14/11/2022        | International Conference on “Novel Nanomaterials – Synthesis, Fabrication and Applications” | International                           | <b>Prof. Ren-Jei Chung</b><br>Department of Chemical Engineering and Biotechnology,<br>Director, Advanced Materials Research Center National Taipei University of Technology (Taipei Tech), Taiwan<br><br><b>Prof. P. Selvam</b><br>Department of Chemistry, Indian Institute of Technology Madras, Chennai<br><br><b>Prof. M. Arivanandhan</b><br>Center for Nanoscience and Technology,<br>Anna University,<br>Chennai |
| 3     | 27.05.2022        | National Webinar on “Basic Concept of Electro-Organic Synthesis”                            | National                                | Dr. R. Anandhan,<br>Assistant Professor,<br>Department of Organic Chemistry, University of Madras, Guindy Campus, Chennai – 600 025  |

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|----|------------------------|--|----------|--|
| 4  | 21 .04.2022            | National Webinar on<br>“Reaction Mechanism and<br>Dynamics via Theoretical<br>Methods”             | National | Dr. P. Manikandan,<br>Associate Professor &<br>Head, Department of<br>Chemistry, Indian<br>Institute of Technology<br>Jodhpur, Jodhpur,<br>Rajasthan, India  |
| 5  | 03.03.2022             | National Webinar on<br>“Basics of Supramolecular<br>Chemistry”                                     | National | Dr. R.<br>Nanda Kumar,<br>Professor, Karunya<br>Institute of Technology<br>& Science, Coimbatore,  |
| 6  | 19/12/2020             | Lecture on Chemists view<br>of Oral Biology  | National | Dr. Narayanan<br>Ramasubbu,<br>Prof of Oral Biology,<br>Rutgers School of<br>Dental Medicine, USA  |
| 7  | 28/02/2020             | “Women in Science”<br>National Science day   | National | Dr. Vanitha Kumari,<br>Corrosion science and<br>technology division,<br>IGCAR, Kalpakkam   |
| 8  | 27/01/2020             | <u>Workshop</u><br><br>1. Applications of Organic<br>Spectroscopy with<br>Stereochemical aspects   | State    | Prof. P. S. Kalsi,<br>Shoolini University,<br>Himachal Pradesh   |
| 9  |                        | 2. Combined Spectral<br>Applications for structural<br>determination-A problem<br>solving approach |          | Dr. K. Geetha,<br>Associate Professor and<br>Head, PG and Research<br>Department of<br>chemistry,<br>Muthurangam Govt<br>Arts college,<br>Vellore, Tamilnadu |
| 10 | 04/12/2019             | Annual Chemistry Meet<br>“QUANTA”  | State    | Dr. Arun Kumar<br>Bhaduri<br>Director, Indiragandhi<br>centre for Atomic<br>Research (IGCAR),<br>Kalpakkam, Tamil nadu                                       |
| 11 | 13/2/2019<br>& 14/2/19 | <u>Workshop</u><br><br>Organic Synthesis<br>methods and Strategies                                 | State    | Prof. K. K.<br>Balasubramanian   |

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|----|-------------------------|---|----------|--|
|    |                         |   |          | Indian National Science Academy, Department of Biotechnology, Indian Institute of technology-Madras              |
| 12 |                         | Retrosynthetic Analysis – Basic disconnections                                  |          | Dr. S. Swarnalakshmi<br>Former Associate Professor,<br>Department of chemistry,<br>Gurunanak college,<br>Chennai |
| 13 |                         | Umpolung Synthetic Strategies   |          | Prof. A. Indrapal Singh<br>Department of chemistry, IIT-M,<br>Chennai  |
| 14 |                         | Protection and Deprotection of functional groups in organic synthesis           |          | Prof.S. Velmathi<br>Department of chemistry, National Institute of technology,<br>Trichy                         |
| 15 |                         | Chemo, Regio and Stereoselectivity and specificity                              |          | Prof. Sundarababu Baskaran, FASc,<br>Department of chemistry, IIT-M,<br>Chennai                                  |
| 16 |                         | Synthesis of some important target molecules and ring systems.                  |          | Dr. V. Sivamurugan<br>Department of chemistry, Pachaippa's College   |
| 17 |                         | Review of problems in synthetic methodology                                     |          | Dr. S. Swarnalakshmi<br>Former Associate Professor, Department of chemistry,<br>Gurunanak college,<br>Chennai    |
| 18 | 10/12/2018              | Annual Chemistry Meet "QUANTA"  | State    | Dr. T. O. Varghese<br>Chief manager (Technical) & Principal, CIPET,<br>Chennai                                   |
| 19 | 12/02/2018 & 13/02/2018 | Conference<br>Recent Advances in Material Science and Technology (NCRAMST-2018) | National |  |

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|    |  |  |  |  |
| 20 |  | “Excitement in Nano science and Technology”  |  | Dr. B. S. Murty<br>Professor and Head,<br>Department of<br>Metallurgical and<br>Materials Engineering,<br>IIT Madras   |
| 21 |  | “Challenges and Opportunities in Olefin polymerization”.                                 |  | Dr. Samir H. Chikkali<br>Senior Scientist and<br>Assistant professor,<br>Polymer science and<br>Engineering Division,<br>CSIR-National<br>Chemical Laboratory,<br>Pune   |
| 22 |  | “Materials characterization: Understanding materials behavior at the fundamental level”  |  | Dr. Swarnagowri<br>Addopalli<br>Centre for Nanoscience<br>and Engineering, Indian<br>Institute of Science,<br>Bangalore  |
| 23 |  | “Nano devices for Biomedical Applications  |  | Prof. Kuruvilla Joseph<br>Senior Professor and<br>Dean (SA), Department<br>of Chemistry, Indian<br>Institute of Space<br>Science and<br>Technology,<br>Department of Space,<br>Government of India,<br>Thiruvananthapuram,<br>Kerala |
| 24 |  | “Cobalt Computational insights based molecular electrocatalyst for hydrogen production”. |  | Dr. Madhavan Jaccob<br>DST Inspire Faculty<br>Fellow, Assistant<br>Professor, Department<br>of Chemistry, Loyola<br>College  |
| 25 |  | “Advances in s for polymer Electrolyte Fuel Cells”.                                      |  | Dr. Akhila Kumar<br>Sahu,<br>CSIR-CECRI, Chennai<br>centre, Assistant  |

|    |          |  |               |   |
|----|----------|--|---------------|---|
|    |          |  |               | professor, CSIR<br>campus, Taramani   |
| 26 | 11/12/17 | Annual Chemistry Meet<br>“QUANTA”  | State         | Dr J. Raghava rao<br>Chief scientist Head,<br>Chemical Lab, CLRI                    |
| 27 | 2/3/17   | <u>SEMINAR</u><br>Computational Chemistry<br>“Basic Concepts and<br>applications of<br>Computational<br>chemistry” | State         | Dr. M. Jacob<br>Department of<br>chemistry, Loyola<br>College                       |
| 28 | 2/3/17   | Theory of Electronic<br>structure calculations and<br>covalent in teractions- A<br>computational view”             | State         | Dr. R. Vijay Solomon<br>Department of<br>chemistry,<br>Madras Christian<br>College. |
| 29 | 2017     | Guest Lecture - “Legal<br>metrology framework for<br>nanotechnology in<br>Australia and<br>internationally”        | International | Dr. Shiela<br>Devasahayam,<br>Lecturer, Macquarie<br>University, Australia          |
| 30 | 2016     | State Level Workshop on<br>“Computational<br>Chemistry”  | State         | -   |
| 31 | 1/9/2016 | Quanta 2016-chemistry<br>Association   | State         | Dr. C. Muralidharan<br>Chief Scientist,<br>CSIR, CLRI, Chennai                      |

#### PLACEMENT DETAILS

| Batch               | No.of Students Placed | Company Name  |
|---------------------|-----------------------|---|
| 2013 – 2016<br>(UG) | 03                    | CTS<br>Sutherland<br>TCS  |
| 2014 – 2016<br>(PG) | 02                    | India<br>International<br>Public School<br>The Scientific<br>Publishing |
| 2018 – 2019<br>(PG) | 01                    | Biocon  |

|                     |    |   |
|---------------------|----|---|
| 2019 – 2020<br>(PG) | 04 | Kalyan<br>Jewellers,<br>Domex                         |
| 2019 – 2020<br>(UG) | 14 | SITEL group,<br>TNQ<br>Technologies,<br>CTS IT, Domex |
| 2020 – 2021<br>(UG) | 01 | TCS   |
| 2020 – 2021<br>(PG) | 03 | Prompt<br>personnel,<br>Health plus,<br>Domex         |

**Extension Services:**

- Preparation of washing powder (Surf type)
- Preparation of dishwasher (Sabeena type)
- Testing of Iodine content in rock salt was carried out in adopted village (Nemilicheri)
- Hands-on training sessions for school students in UG laboratory

**Research Scholarships\Fellowship received by our students:**

| <b>S.No</b> | <b>Name of the student</b>                             | <b>Title of the project and duration</b>  | <b>Amount sanctioned (Rs)</b> | <b>Funding Agency</b> |
|-------------|--|---|-------------------------------|-----------------------|
| 1.          | E.Abinaya<br>II B.Sc Chemistry<br>2018 -2019           | Summer Fellowship programme at Jawaharlal Nehru Centre for Advance Science Research, Bengaluru – 3 years                        | 2000                          | JNCASR                |
| 2.          | Aishwarya S<br>II B.Sc Chemistry<br>2019 -2020         | Summer Research Fellowship Program conducted by Indian Academy of Science, Bangalore  | 25,000                        | IAS                   |
| 3.          | Valarmathy C<br>II M.Sc Chemistry<br>2018-2020         | Summer Research Fellowship Program conducted by Indian Institute of Technology, Gandhinagar                                     | 16000                         | IIT                   |
| 4.          | Sundaravalli. N<br>II BSc Chemistry<br>2018 -2019      | Summer Research Fellowship Program conducted by JNCASR  | 20000                         | JNCASR                |
| 5.          | Umamaheswari. R<br>Ph.D. Research Scholar - 2017       | Sambuvarayar Endowment Scholarship by University of Madras  | 10000                         | UNOM                  |
| 6.          | Umamaheswari. R<br>Ph.D. Research Scholar<br>2017-2019 | Ranked 11 and received Full time Ph.D. Scholarship for three years by Tamilnadu Collegiate Education, Government of Tamilnadu   | 1,56,000                      | TNDCE                 |
| 7.          | Aswini. R<br>Ph.D. Research Scholar<br>2019-2021       | Fellowship for two years by ECRIC, Ethiraj College for Women  | 1,08,000                      | ECRIC                 |
| 8.          | Umamaheswari.R<br>Ph.D. Research Scholar<br>2019-2021  | Fellowship for one and half years by ECRIC, Ethiraj College for Women   | 88,000                        | ECRIC                 |
| 9.          | Usha. R<br>Ph.D. Research Scholar<br>2019-2021         | Functionalization of graphene with heteroatom's of O, S, N by green method for pollution management and industrial applications | 3,40,000                      | TNSCST                |
| 10          | Aswini. R<br>Ph.D. Research Scholar<br>2021-2023       | Novel Carbon-based polymer Nanocomposites for fuel cells  | 4,85,000                      | TNSCST                |



**Community Activities of the student (2016-2021)**

| S.No | Activity      | No of students involved |         |           |           |           |           |
|------|---------------|-------------------------|---------|-----------|-----------|-----------|-----------|
|      |               | 2013-2016               | 2014-17 | 2017-2020 | 2018-2021 | 2019-2022 | 2020-2023 |
| 1    | NSS           | 10                      | 7       | 1         | 10        | 10        | 5         |
| 2    | NCC           | -                       | -       |           |           |           |           |
| 3    | Women Studies | 26                      | 11      |           | 2         |           | 2         |
| 4    | Sports        | -                       | 6       | 3         | 2         | 2         |           |
| 5    | CSS           | -                       | -       |           |           | 10        | 14        |
| 6    | YRC           | 1                       | -       |           | 15        | 12        | 5         |
| 7    | ROTARACT      | 48                      | 30      | 45        | 41        | 48        | 35        |
| 8    | RRC           | -                       | -       |           |           |           |           |
| 9    | e-Club        | 10                      | 1       |           |           |           | 23        |
| 10   | SIFE          | -                       | -       |           |           |           |           |

# ACHIEVEMENTS

## CO-CURRICULAR ACTIVITIES

### 2017-2018

- ❖ B.Sivaranjani of I B.Sc Chemistry (2017-18) secured II prize in the poem writing competition on the Founders day.
- ❖ The March past team of the Department of Chemistry was placed third and won the prestigious trophy in the *Annual Sports meet* of our College held on 23<sup>rd</sup> February 2018.
- ❖ The final year Undergraduate and Post graduate students were on an *industrial tour* to Munnar and Idukki and visited Kannan Devan Tea factory.
- ❖ Our department final year UG students participated in various intercollegiate competitions and bagged various prizes in chem Tunes
- ❖ D. Ishwarya , B. Kanimozhi, J. Pavithra, P. Priya Dharshinie, R. Saraswathi won second prize at Loyola college and
- ❖ B.Kanimozhi and M. Priyanka won second prize in Cook without Fire at D.G. Vaishnav College.
- ❖ K. Kaviyaa, P.B. Malathi won first prize in Chem Connections
- ❖ K. Kaviyaa, P.B. Malathi, G. Nivetha and S. Preethi won second prize in adzap
- ❖ S.Venisha , R.Jayashree, B. Aadhirai won second prize in Rangoli
- ❖ Abinaya.E of II B.Sc won second prize in Powerpoint Presentation in the Chemfest held at SCP Jain College.

### 2018-2019

- ❖ S.Divya of III BSc Chemistry won a cash prize of Rs.5,000/- in the Intercollegiate essay writing competition conducted by Gurunanak College.
- ❖ B.Sivaranjani of II B.Sc Chemistry received first prize in ‘Street Theatre’ at “Pragati 2019” organized by JBAS College
- ❖ P.Madhumitha of II B.Sc Chemistry was awarded as “Community Service Director” by Rotaract Club of Ethiraj.

### 2019-2020

- ❖ Dhivya. G of II BSc Chemistry won 1st prize in the Essay writing competition in Gurushiksha conducted by the Gurunanak College and received a cash prize of **RS. 10000**
- ❖ Dhivya. G of II BSc Chemistry won second prize in the essay writing competition conducted in the Kaviyasar Kannadhasan Vizha and received a cash prize of **RS. 3000**
- ❖ Sundaravalli . N of II BSc Chemistry won 2nd prize of **Rs. 6000** in Poetry writing competition in the event "Guru Shiksha 2019" by Guru Nanak College.
- ❖ Yamini Krishna of III BSc Chemistry won the KKB Quiz conducted by Loyola

- ❖ College and also received a cash prize of **RS. 400.**
- ❖ Shalini Palani of III BSc Chemistry won the International Space Science competition conducted by the GO4GURU.
- ❖ D. Priya of II MSc Chemistry cleared the NPTEL course on Bioinorganic Chemistry with **96% ( gold - top 5%) conducted by IIT Kanpur**
- ❖ D. Priya of II MSc Chemistry Cleared the NPTEL course on Infrared Spectroscopy for pollution monitoring with **77% (silver) conducted by the IISC Bangalore.**

### 2020-2021

- ❖ In the intercollegiate events conducted at MCC, Ms. Livatha Mohan, Ms. Poojashri.G.P., Ms. Vishnupriya.M and Ms. Narmadha Devi.T of I B.Sc. Chemistry secured 3<sup>rd</sup> place in Chem-tunes.
- ❖ Ms. Livatha Mohan and Ms. Poojashri.G.P, of I B.Sc. Chemistry got the 2<sup>nd</sup> place in the surprise event at MCC.
- ❖ At DG Vaishnav college, Ms. Livatha Mohan and Ms. Poojashri.G.P. of 1<sup>st</sup> B.Sc. Chemistry secured the 2<sup>nd</sup> place in Potpourri event.
- ❖ In the intercollegiate events conducted at SDNB Vaishnav College, Ms. Livatha Mohan and Ms. Poojashri .G.P., of I B.Sc. Chemistry bagged the 2<sup>nd</sup> place in Chem Quiz.
- ❖ Ms. Livatha Mohan of I B.Sc. secured 1<sup>st</sup> place in Chem-collage and 2<sup>nd</sup> place in Chem-Jam at SDNB Vaishnav College, Chennai.
- ❖ At Stella Maris College, Ms. Poojashri.G.P. of I B.Sc. Chemistry secured 3<sup>rd</sup> place in JAM event.
- ❖ In the art event conducted by Rotaract club of Dhanalakshmi college of Engineering, Ms. Sneha. M of II B.Sc. Chemistry bagged the 2<sup>nd</sup> place. She also secured the 1<sup>st</sup> place in NSS singing competition and consolation prize in an art event.
- ❖ Ms. Kayalvizhi.N and Ms. Hemalatha.C of II B.Sc. Chemistry secured 3<sup>rd</sup> prize in quiz at SDNB Vaishnav College.
- ❖ In the quiz competition conducted by Anna Adharsh college for Women, Ms. Sundaravalli. N and Ms. Yogeshwari. M of III B.Sc. Chemistry secured 2<sup>nd</sup> place.
- ❖ Ms. Sundaravalli. N of III B.Sc. Chemistry got an AIR 282 in the Joint Admission Entrance Test conducted by Indian Institute of science, Bangalore.
- ❖ The students of the department of Chemistry have also participated in Inter-departmental events in the college and won prizes.
- ❖ In the Face Art competition conducted by N & D department, Ms. Livatha Mohan and Ms. Poojashri.G.P. of I B.Sc. Chemistry have secured 1<sup>st</sup> place.
- ❖ In Elocution competition conducted in the view of Science day, Ms. Poojashri.G.P. of I B.Sc. Chemistry bagged the 3<sup>rd</sup> place.
- ❖ Ms. Sinduja.M of III B.Sc. Chemistry secured II place in poster presentation competition at NUMERA 2021.

Apart from these, students have also enthusiastically enrolled in the certificate courses launched by National Programme on Technology Enhanced Learning and have completed them with flying colours.

- ❖ Ms. Tejasvini. S. R. of II B.Sc. Chemistry completed a course on “Basics in inorganic chemistry” with an overall score of 72% and also completed a NPTEL course on Co-ordination Chemistry.
- ❖ Ms. Kiruthigaa. S, Ms. Pooja. G, Ms. Lavanya. B and Ms. Divya. M of III B.Sc. Chemistry have completed a course on “Medicinal Chemistry” with an astounding, 94%.
- ❖ Ms. Hemamalini. S of III B.Sc. Chemistry completed a course on “Excel skills for Business” sponsored by our college on courser from Macquarie University, Australia.
- ❖ Ms. Sinduja. M of III B.Sc. Chemistry completed five courses sponsored by the college on courser on Artificial Intelligence, Public speaking and Cybersecurity.
- ❖ Mrs. Umamaheswari. R, Ph.D. Research Scholar, received “Best Research Scholar Award” by DK International Research Foundation and “Universal Best Research Scholar Award” by International American Council for Research and Development.
- ❖ Ms. Aswini. R, Ph.D. Research Scholar, completed a distance learning education course on Intellectual property with an overall score of 82%.

## 2021-2022

- ❖ Monika.K received “Best Research Paper Award” and the Cash prize of 1000 INR for the project titled “One pot synthesis of perovskite structure of calcium stannate from *anadaragranosa* seashell and *crassostrea virginica* seashell as a precursors” in the International Conference on "Frontiers in Chemical Research", organized by the PG and Department of Chemistry, Bishop Heber College (Autonomous), Tiruchirappalli, Tamil Nadu, India, February 3 - 4, 2022.
- ❖ Pooja Shri G. P., III B.Sc student, secured “Second Prize in Pot Pourri Competition RIPPLES - 22”, conducted by Department of Physics (Aided & SS) on 05/01/22
- ❖ Dharshini A., II B.Sc student, won “Second Prize in Tamil Poetry Writing competition”, International Women’s Day, organized by the Centre for Women’s studies, Ethiraj College for Women, held on 08/03/2022
- ❖ Ghaviya N., II B. Sc student, participated in “Trash to Art competition”, conducted by Rotaract club of Ethiraj College for Women, held on 02/05/2022
- ❖ Ghaviya N., II B. Sc student, secured “Third position in District Level Youth Convention competition on India @ 2047”, as part of Azadi ka Amrit Mohotsav Yuva Utsav – 2022
- ❖ Jeevitha V., II M.Sc. student, won the “First Prize in Essay writing competition (Tamil)”, Conducted by Sri Ramachandra Math- Chennai, Vivekanandha cultural center unit, held on 19/08/2022

