

## ACADEMIC ACTIVITY 2022-2023

### **PG & RESEARCH DEPARTMENT OF CHEMISTRY**

### **DGVC CHEMICAL SOCIETY**

#### ANNUAL REPORT OF THE PG & RESEARCH DEPARTMENT OF CHEMISTRY

2022-2023

#### **1. DEPARTMENT ACTIVITIES**

The PG & Research Department of Chemistry showcases various co-curricular and extra-curricular activities under the banner of DGVC Chemical Society. Several Programmes such as National seminar, CSIR-UGC NET workshop, Entrepreneurship and skill development workshop, Inspire alumni lecture series etc., were organized by the department in order to engage for students to enrich and excel in their career.

The Department in collaboration with IGCAR organized the Inauguration of DGVC Chemical Society and **Azadi Ka Amrit Mahotsav-Program on “ANU AWARENESS”** on 26.08.2022. The guest of honours were **Dr.N. Ramanathan**, Head, Actinide Chemistry & Separation Science Section of Materials Chemistry & Metal fuel Cycle Group, IGCAR. **Dr.N. Sivaraman**, **Dr.V.Jayaraman** AD, Fuels and Materials Chemistry Group & **Dr.CVSB Rao**, Head Solution Chemistry and Mass Spectrometry Section and Dean, Chemical Sciences, HBNI-IGCAR.

A National Level CSIR-JRF/NET Workshop on Chemical Sciences was conducted on 19.10.2022. **Dr. K.S.Viswanathan** Professor(Retired), Department of Chemistry, IISER-Mohali and **Dr.S.R.Bheeter**, Head(Retired), Dept. of Chemistry ,St.Joseph College, Trichy **Mr.S.Srivathsan**, and **Dr.S.Swarnalakshmi**, Retired Professors of the Department of Chemistry, Guru Nanak college were the resource persons who enthralled the students with problem solving approach of lectures. At this juncture the department is proud to inform that **Karishma.P** of M.sc Batch 2022 has cleared **CSIR-UGC-NET-2022**.

The Department organizes “INSPIRING ALUMNI” lecture series by inviting distinguished alumni to motivate the students and share their learning experiences and challenges of their career. In that line this year the invited alumni were **Dr. T Sivaramakrishnan**, Asst.Prof, Department of Chemistry, Ramakrishna Mission Vivekananda College, Mylapore, **Dr. K. Thenmozhi**, Assistant Professor- Senior, Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology. **Mr. Richardson**

**Lawrence**, Doctoral Research Fellow- Department of Materials Science and Engineering, National Yang Ming Chiao Tung University, Hsinchu city, Taiwan and **Dr. V. Subha**, Assistant Professor in Chemistry, Department of Science and Humanities, R.M.D Engineering College.

Entrepreneurship & Skill Development Workshop was organized on 20.1.2023. **Dr.Nisha Nujumudeen**, Director JOLABE E-Commerce Pvt Ltd, Co-founder Rey Fashion Events delivered a lecture on “The future of Entrepreneurs in young minds” in a vibrant and lucid way. The students hand crafted various products using Plaster of Paris as raw material and it was judged by a team of judges **Dr. U.Amaleshwari head (SOM)**, **Dr.Prabha Rajagopalan, Head, Dept. of Corporate Secretaryship** and **Dr.D.Uthra, Head ,Dept. of Physics**

The Guest Lecture was organized on 07.02.2023. **Dr. Mangala Sunder Krishnan**, Professor Emeritus, Department of Chemistry, IIT Madras elaborated on the topic ‘Molecular Spectroscopy’.

An Industrial visit for final year B.Sc students to Madras fertilizers Limited (MFL) was carried away on 19.1.2023. The experts of MFL explained the technical aspects of urea manufacture and enlightened the importance of usage of various catalysts in the process.

Industrial visit for PG Students to IGCAR was arranged on 28.2.2023. They visited Radio metallurgical lab (RML) and Radio chemistry Laboratory (RCL). The Scientific officers briefed about the FBTR and KAMINI reactor.

Environmental Field trip to Dakshina Chitra located at Muthukadu, ECR, Chennai was arranged for II B.Sc students on 22.2.2023 . The South Indian heritage was highlighted through this visit. The traditional house model instilled an insight about our ancestor’s life style and civilization.

Parents Teachers Meeting was organized on 28.01.2023 for both the UG & PG students. The academic progress of the students were discussed with the parents for their improvements and achievement in the fore coming semester examination.

The SILVER JUBILEE celebration of “RASAYANOTSAV” combined with alumni meet was organized on 3.3.2023. The retired professors of the dept were felicitated and the alumni of the dept shared their experiences during their stay in the campus.

For the intercollegiate Chem Fest Rasayanotsav students from various colleges participated and showcased there in depth knowledge in chemistry through various interesting events.

## **2. STAFF ACHIEVEMENTS**

**Dr.N.Vidhya Lakshmi**, Assistant Professor, PG and Research Department of Chemistry has received THE BEST SCIENTIFIC PROJECT award from science and engineering research board – Department of Science and Technology (SERB-DST), New Delhi with the collaboration of American Chemical Society (ACS), USA. Her project secured 11<sup>th</sup> rank with a score of 8.25/10 in top 21 SERB projects.

**Dr.P.Tamizhdurai**, Assistant Professor, PG and Research Department of chemistry has received BEST YOUNG RESEARCHER AWARD in CST ACHIEVERS AWARD-2022 for his outstanding contribution in the field of research.

## **3. FACULTY EMPOWERMENT STRATEGIES**

Event	Total
Publications	<b>24</b>
Seminar/ Workshop attended/ Conference attended	<b>22</b>
FDP completed	<b>14</b>
Acted as Resource person	<b>17</b>

## **4. ACHIEVEMENTS OF STUDENTS**

Santhosh.S of 2nd M.Sc. Chemistry won 1st prize with 50,000 cash prize poster presentation in “CHEMSKILL’Z 23” organized by Manali Petrochemicals Pvt. Ltd.,

Vinothini .R of III B.Sc participated in the Contest named Second AAAA\_Chem\_Prize conducted by - Waseda Research Institute for Science and Engineering (WRISE) Waseda University, Shinjuku-ku, Tokyo, Japan and won cash prize of Rs. 5000 and certificate.

Name of the student	Details
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Ms.Edal Queen.J, (Research Scholar)	1st prize for best poster presentation in International conference on Next Generation Microbiologist-Challenges and Opportunities 2.0 organised conducted by dept. of Microbiology DGVC
Ms. V. Sathyasini (Research Scholar)	3 <sup>rd</sup> prize for oral presentation in International conference on Research Innovations And Entrepreneurial venues conducted by Dept. of Biotechnology DGVC.
	2 <sup>nd</sup> prize for the oral presentation in the International conference on Next Generation Microbiologist-Challenges and Opportunities 2.0 organised conducted by dept. of Microbiology DGVC.
Evangeline Steffil. C and Saveetha. R (III B.Sc Chemistry)	1st prize for flamless cooking in “Desolutions” conducted by PG and Research Department of Biochemistry ,D.G. Vaishnav college.
Gokul Shankar (III B.Sc Chemistry)	JAM event conducted by Ethiraj College for women and secured second place.
Kowshik and Sanjay (III B.Sc Chemistry)	3 <sup>rd</sup> prize in periodic fashion event in Reactions’23 conducted by Stella Maris college
Silviya dorathi and Rajalakshmi (I M.Sc Chemistry)	3 <sup>rd</sup> prize in Chem-memes conducted by WCC and Loyola college
Aswin. P and G.K. Madhana Gopal (II M.sc Chemistry)	1 <sup>st</sup> prize in PG QUIZ conducted by Stella Maris College.
Anushree raju	

(II M.sc Chemistry)	2 <sup>st</sup> prize in JAM conducted by Stella Maris College.
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#### **5. Ph.D COMPLETED**

**Ms.A.Sumita's** C/O Dr.R.Kumaran -Public Viva-Voce examination held on 30.06.2022. **Title of the thesis :** Photophysical studies and Molecular docking approach on the interaction of acridinedione dyes with adenine, globular proteins and amino acids in aqueous solution.