

| Academic Year | : 2024 - 2025 | Activity Date: 05.08.2024 |
|-----------------------|---|---------------------------|
| Organizing Department | : PG and Research Department of Chemistry | |
| Name of the Activity | : CHEMISTRY ASSOCIATION INAUGURATION | |
| Venue | : Seminar hall | |
| No. of participants | : 110 | |
| | | |

"CHEMISTRY ASSOCIATION INAUGURATION REPORT"

The P.G. and Research Department of Chemistry was organized, "CHEMISTRY ASSOCIATION INAUGURATION" on 05.08.2024 [Monday] at 11.30 am in the KMG Seminar Hall. The program begins with Thamizhthai Valthu and lightning of Kuthu Vilakku, Dr. S. Praveen Kumar, Head P.G. and Research Department of Chemistry, Welcomes the gatherings and advised the students to develop their skill through association activities and coated Thirukkural-315 "அறிவினான் ஆகுவ துண்டோ பிறிதின்நோய் தந்நோய்போல் போற்றாக் கடை, he also asked the student to have interest in research and develop the sustainable society for all living organisms. Our respected Principal Prof. Dr. C. DHANDAPANI, has honor the Chief Guest and given the presidential address, our principal insisted that Chemistry is prestigious subject. The students who studied Chemistry they have to proud, since he wants to study chemistry in his higher secondary level, unfortunately, he couldn't get admission, but still, he likes Chemistry because of the important of Chemistry in all aeras. Chemist can convert the waste into useful materials and they can develop the society. Mr. B. Balaji, Assistant Professor, P.G. and Research Department of Chemistry and IQAC Coordinator, has introduce the Chief Guest Dr. K. GEETHA, Head, P.G. and Research Department of Chemistry, Muthurangam Government Arts College, Vellore. Our Chief Guest has given the invited talk on "Impact of Chemistry on Diverse Sectors". Madam focused on the Radiation and its important in cancer therapy, madam encouraged the students to have research interest, through the Alfred Nobel life history and creation of Nobel Prize, invention of radiation by Becquerel. Madam discussed many materials how to kills cancer cells and few materials also affected the normal cells, then through many research how the efficiency of cancer drugs improved to kill only cancer cells. Finaly madam conclude with the important of chemotherapy in cancer treatment. Students enjoy the session and gain the knowledge. The association members have been introduced by Dr. S. Praveen Kumar, Head P.G. and Research Department of Chemistry. Mr. V. Umamageshwaran, Assistant Professor as Faculty In-Charge, Ms. K. Yamuna, II M.Sc., Chemistry, President, Ms. J. Shailaja, III B.Sc., Chemistry, Secretary, Mr. S. Mohanraj, II B.Sc., Chemistry, Join Secretary and Mr. Bharath Kumar, I B.Sc., Chemistry, Join Secretary. Then **Mr. V. Umamageshwaran**, Assistant Professor, P.G. and Research Department of Chemistry has proposed the vote of thanks. Finally, the program ends with National anthem.









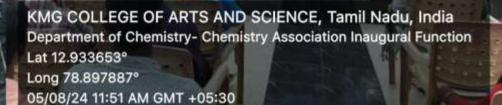




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Freshers' Day Report



The newly joined student eagerly await for their most remarkable event of the college "FRESHER'S DAY". The purpose of fresher's day is to welcome new students in a friendly atmosphere and encourage their creative impulses to boost their confidence. It is the day where seniors and juniors finally bond and unite to celebrate being part of the college.

The PG and Research Department of Chemistry, K.M.G. College of Arts and Science (Autonomous), Gudiyatham, arranged "Freshers' Day" for the academic year 2024-2025 on 30th of August 2024(Friday). This day marked a momentous day for the new UG and PG students, this event, orchestrated by the dynamic "Chemical Association", was a jubilant occasion that brought together students to celebrate the commencement of their college journey.

The Freshers' Day celebration commenced with the Thamizh Thaai Valthu, followed by lighting of a sacred lamp Kuthuvilakku by our respected Principal Dr. C. Dhandapani, Students Coordinator and Head Department of Thamizh Dr. J. Jayakumar, Dean Academics and Head PG and Research Department of Microbiology, Head PG and Research Department of Chemistry Dr. S. Praveen Kumar and Newly joined students.

Ms. K. Yamuna, President Chemical Association welcome the gatherings, our respected Principal Dr. C. Dhandapani given the presidential address, he encourage the newly joined students and explain the important of Chemistry, Students Coordinator and Head Department of Thamizh Dr. J. Jayakumar given the felicitation address our Head PG and Research Department of Chemistry Dr. S. Praveen Kumar, given the necessity of Freshers' Day celebration, how it create a good relation with juniors and seniors in the college campus.

The celebration featured captivating dance performances that whisked the audience on a cultural Thamizh, showcasing the rhythmic footwork and vibrant costumes that represent the country's rich cultural heritage. Talented students took the stage delivering mesmerizing performances by Mr. S. Rupesh and Ms. P.N. Someswari. The freshers had their moment in the spotlight through stunning dance with Mr. S. Gokulakrishnan and a variety of dance performances and singing songs displaying exceptional talents of the students.

These memories will serve as a wellspring of inspiration, encouraging students to contribute to the nation's growth, prosperity, and unity. Finally the celebration of Freshers' Day ends with vote of thanks by Ms. B. Rakshitha, I M.Sc. Chemistry.

















A Report of the International Conference on *"INTERNATIONAL CONFERENCE ON ADVANCE INNOVATIVTE MATERIALS IN CHEMISTRY (ICAIMC – 2024)"*

Organized by the PG and Research Department of Chemistry, KMG College of Arts and Science (Autonomous), Gudiyatham 24th SEPTEMBER 2024 (TUESDAY)



Inauguration

The PG and Research Department of Chemistry, KMG College of Arts and Science (Autonomous), Gudiyatham, organized one day international conference on 24th September 2024

(Tuesday). This International conference organized in the title of *INTERNATIONAL CONFERENCE ON ADVANCE INNOVATIVTE MATERIALS IN CHEMISTRY (ICAIMC – 2024)*, it has been inaugurated by our Respected Principal Dr. C. Dhandapani, Dr. J. Jayakumar, Student Coordinator & Head Department of Tamil, Dr. D. Manigandan, Dean Academics & Head Department of Microbiology. Our Respected Principal, delivered the keynote address emphasizing the challenges in synthesis of new materials using advance synthetic chemical approach and the factor involving enhancement of materials property. He also highlighted the key role of chemist in the materials synthesis and its applications in everyday life. The need of chemist in the current technological world is very crucial, hence we have to proud to be a chemist and sir also congratulated the chemistry department who organized the international conference in a needful title. Also, he released the Conference Proceedings with our Chief Guest Dr. R. Suresh, Associate Professor, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore and Dr. V. Sivakumar, Senior Scientist, Analytical Research and Development, Pfizer Health Care India Pvt.Ltd., Chennai.



The Convenor of the Conference, Dr. S. Praveen Kumar, Head, PG and Research Department of Chemistry welcomed the Chief Guest, Principal and all the participants, expounded the concept note of the conference. He also expressed his gratitude to the management for their whole support to organize this international conference. He also thanked all the teaching and non-teaching staffs in our institution.



Key Note I: Doped iron oxide photocatalysts for the treatment of dye pollutants

The international conference included well-renowned subject and research experts as resource persons, Dr. R. Suresh, Associate Professor, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore who addressed the various materials synthetic process and its different applications. He specifically given important for the synthesis of ferric oxides and their composites, the critical factors affecting morphology and properties of the ferric oxide. He highlighted the different applications of ferric oxides and their composites in our day today process in the plenary session.

Professors, experts, researchers and students from various higher education institutions participated in the conference to discuss the most recent developments, challenges, opportunities and applications in the field of material science.

From various institutions, such as CSIR – CECRI Karaikudi, Islamiah College (Autonomous) – Vaniyambadi, Valliammai Engineeing College, Easwari Engineering College, Jain College for Women Vaniyambadi, Government Thirumagal Mills College, Gudiyatham 50 research work were presented in the conference. More than 150 students both UG and PG were participated and gain knowledge in the conference.



Key Note – II : Harnessing Metal Oxides for Sustainable Energy, Environment and Economy Resource Person: Dr. Sook-Keng Chang, Faculty of Health and Life Sciences, INTI International University, Persiaran Perdana BBN, Putra Nilai, 71800 Nilai, Negeri Sembilan, Malaysia.

Dr. Sook-Keng Chang, presented her thoughts on the synthesis of metal oxides using different chemical process, particularly green chemical process. The presentation included so many characterizations of metal oxides, it clearly explains the composition and morphology of the oxides. The various applications and its efficiency depends on the structure and oxidation states of the metal oxides. She gave a detail presentation in energy storage materials to get sustainable Energy, good Environment and better Economy.

Students from various colleges were presented in different titles. These presentations were examined by Dr. R. Suresh, Associate Professor, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore and Dr. V. Sivakumar, Senior Scientist, Analytical Research and Development, Pfizer Health Care India Pvt.Ltd., Chennai. The best three presentations appreciated with certificates and momentum.





The Students from various colleges were presented their findings in different areas as poster presentation. These poster presentations were examined by Dr. A. Thaminum Ansari, Associate Professor and Head, Department of Chemistry, Government Thirumagal Mills College, Gudiyatham. The best three presentations appreciated with certificates and momentum.





Valedictory

The international conference concluded with the valedictory and certificate distribution. Dr. V. Sivakumar, Senior Scientist, Analytical Research and Development, Pfizer Health Care India Pvt.Ltd., Chennai, was the chief guest to the valedictory function. In his valedictory address, appreciated the organizers of the conference for the recent and relevant themes chosen for dissemination, discussion and deliberation. He illustrated the importance of the materials that are widely used by the human beings. Also, he highlighted the important significance of drug molecule and its properties based on the chemical structures. Finally. Mr. V. Umamageshwaran, Assistant Professor, Department of Chemistry proposed the vote of thanks and thanked the participants for creating an immersive academic experience in the conference. He also thank the management for given a big support and effort to organize the conference. He expressed in gratitude to our respected principal, all the teaching and non-teaching staff in KMG College of Arts and Science(Autonomous), he also thanked Mrs K. Gandhimathi, Assistant Professor, Department of Chemistry and Ms. P. Pavithra, Assistant Professor, Department of Chemistry for the introduction of our key note speakers. Finally the conference concluded with national anthem.





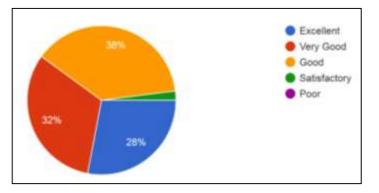


Feedback Report of the International Conference on "INTERNATIONAL CONFERENCE ON ADVANCE INNOVATIVTE MATERIALS IN CHEMISTRY (ICAIMC - 2024)"

To improve the quality of our organizing programs we have taken feedback about the conference. The listed questions and its response consolidate in this report.

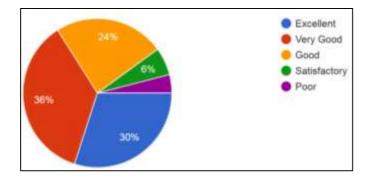
1. Overall opinion about the Conference

Overall opinion about the conference was highly appreciated by the participants. More than 60% of the participants were given Very Good opinion. It gives an immensed pluser to the organizers.



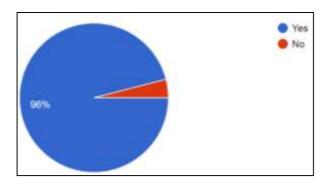
2. Theme and content of the Conference.

Overall, the content of the conference was highly appreciated by the participants. The purpose, results and outcomes were regarded as relevant and meaningful.



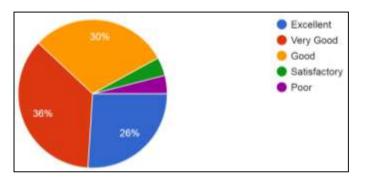
3. Did the conference increased your knowledge?

Most of the participants 96% accepted their knowledge improved through the conference. It's clearly indicates that conference have good content and theme. It has helped all the participants to get knowledge.



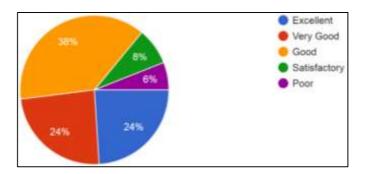
4. How would you rate the quality of keynote speakers and their talks?

It's very essential of the conference rate, the key note speakers were get high quality rate. Most of the participants given excellent rate to the key note speakers. It shows the success of conference.



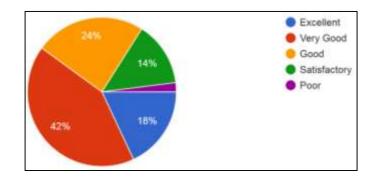
5. How would you rate the communication from the conference organizers?

The communication support was considered as a valuable aspect of the conference format. Most of the participants accept the organizers have given proper communication in the conference.



6. The pace of presentation of the subject content was appropriate.

Most of the participants accepted the subject content which has been delivered in the conference was appropriate.





REPORT OF IIT – TIUPATHI VISIT on 25.09.2024(Wednesday)



DETAILS OF THE VISIT

PG and Research Department of Chemistry, KMG College of Arts and Science (Autonomous), Gudiyatham had organized an industrial visit on 25th September 2024 (Wednesday) to Indian Institute of Technology, Tirupati, Andhra Pradesh. The visit was organized and coordinated by Dr. S. Praveen Kumar, Head of the Department, PG and Research Department of Chemistry, KMG College of Arts and Science (Autonomous) and Dr. P. Gandeepan, Associate Professor, Department of Chemistry, Indian Institute of Technology, Tirupati.

We started travelling from the college campus at 6.30 am through bus. Totally **50 students** along with **3 coordinators faculty namely** Dr. S. Praveen Kumar, Mrs. K. Gandhimathi and Ms. P. Pavithra were there in the journey.

Industrial visits are arranged by colleges for the students to provide an opportunity to explore different sectors in which the students are passionate about it, high quality of education, research, project work and fellowships provided by state and central governments. Industrial visit helps to mix theoretical knowledge with practical knowledge in a good way. Hence, Industrial realities are opened to the students through industrial visits.



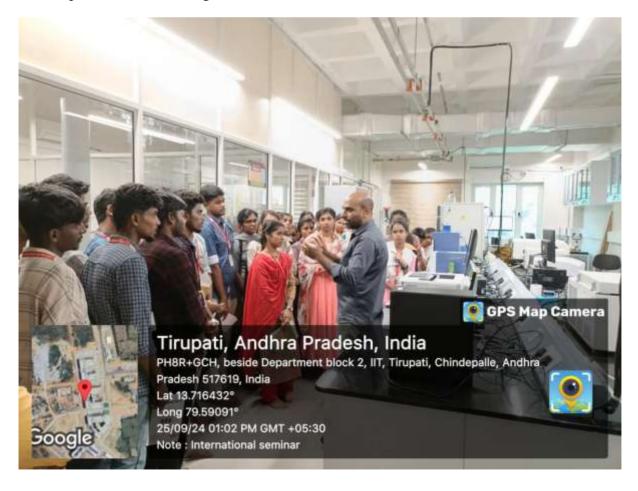
Objective of the visit

The Main objective of visit is to give a motivation to the students get their higher education in well prestigious institution and get an exposure to students about practical working environment in quality research. They also provide students a good opportunity to gain full awareness about lab practices and handling instruments. Through industrial visit students get awareness about new technologies, various competitive exams and fellowships.

The students getting theoretical knowledge in classes are so boring, to balance the situation and get more interesting practical knowledge has been introduced. Nowadays practical and other curricular activities are included in the part of the syllabus so that students can study more diligently. Similarly, an Industrial visit is a type of practical knowledge that introduces us to the working world.

The objective of the visit is to provide instrumental knowledge to students. It provides a practical real-world perspective on different instruments in research such as UV-Visible, FT-IR, NMR, Cyclic Voltammetry, Chromatography etc.

Moreover, it gives exposure from the academic point of view to the students. The main aim of visit is to give exposure to the students about the practical working environment with theoretical learning. They provide students a good opportunity to achieve full awareness about research practices and working.



Outcome

- IIT Tirupati visit gives a huge impact in students about the infra facilities and induced a curiosity to get their higher education in well prestigious institutes.
- The Visit also brings an awareness about joining in IITs and get the students practical experience, how they get admission in IIT – Tirupati.
- The Bridge the gap between classroom theoretical training and practical learning in a real-life environment.
- > It provides an opportunity for students to ask questions related to their area of interest.
- > This also gives students a platform to enhance their research and practical skills.

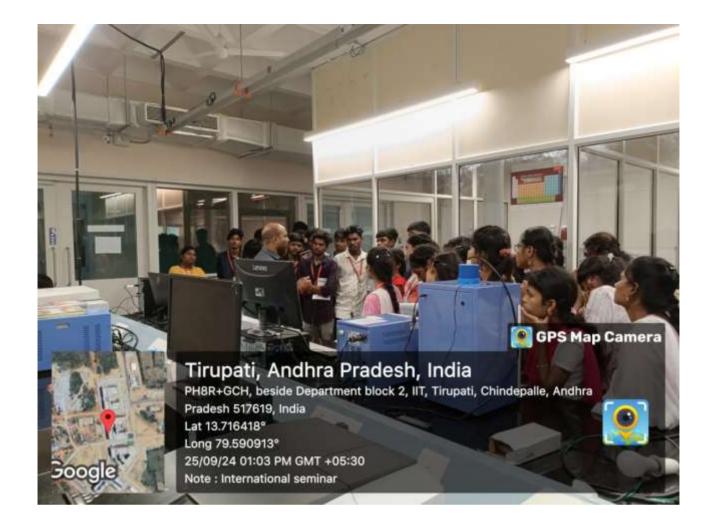
GRATITUDE

The students and faculties of PG and Research Department of Chemistry, KMG College of Arts and Science (Autonomous), Gudiyatham, would like to express their gratefulness to **Dr. P. Gandeepan**, Associate Professor, Department of Chemistry, Indian Institute of Technology, Tirupati. They also express their gratefulness to Dr. Gouriprasanna Roy, Professor and Head, Faculty members and research scholars in Department of Chemistry, Indian Institute of Technology, Tirupati. to the success of the visit.

Conclusion

The IIT – Tirupati visits are arranged by colleges for the students to provide an opportunity to explore different atmospheres in which the students are passionate about it. The visit helps to mix theoretical knowledge with practical knowledge in a good way. Hence, Research laboratory realities are opened to the students through this visits.

Industrial visit is considered to be the most tactical method of teaching. A student pursuing a particular degree will be taken to an institutes like IIT associated with their branch. There the students will get to know the procedures how to get admission, high quality class room environment, lab facilities and research project working environment. The main reason behind this is, it lets students understand things practically through interaction with the students studying in this environment. Moreover, it gives exposure from the academic point of view to the students. The main aim of the visit is to give exposure to the students about the practical working environment with theoretical learning. They provide students a good opportunity to achieve full awareness about research working.



















A Report of the Science Exhibition 2024"

Organized by the PG and Research Department of Chemistry, KMG College of Arts and Science (Autonomous), Gudiyatham 9th OCTOBER 2024 (WEDNESDAY)





Science Exhibition is an opportunity for students to apply the scientific method to conduct independent research and make a model with their own idea. The main purpose of science exhibition is to instil scientific attitude in the young generation to make them realize the interdependence of science, technology and society. Science exhibition provides a platform for the students and teachers where they can learn from each other's experiences and get motivated to design and develop something new and innovative. The vision of science exhibition is to encourage the students to take a more active interest in the study of science and conduct and present their independent scientific inquiries and innovations publicly.

The PG and Research Department of Chemistry, KMG College of Arts and Science (Autonomous), Gudiyatham, organized Science Exhibition for School students on 09th October 2024 (Wednesday). This Science Exhibition has been inaugurated by our Respected Principal Dr. C. Dhandapani. 25 working models were displaced in the Exhibition from more than 15 School around Gudiyatham. The Students were participated in the Exhibition with great attention.

The Exhibited models in the Science Exhibition were evaluated by the Judges from 12 PM onwards. Prof. N. S. Rajanandan, Head Department of Artificial Intelligence, Dr. N. Sundaramoorthy, Assistant Professor in Microbiology and Dr. C. Venkatesan, Assistant Professor in Biochemistry from KMG College of Arts and Science evaluated the Exhibits by the students and gave their valuable suggestions to the students. A small function was arranged at the end of the Science Exhibition to celebrate the Science day and felicitate the Jury members.

A Valedictory programme was arranged to present prizes to the winners of SCIENCE EXHIBITION at end of the day. A Welcome address was given by Dr. S. Praveen Kumar, Head of the Department. The Chief Guest of the Science Exhibition our Respected Principal Dr. C. Dhandapani, given the key note address. After the Chief Guest address, Convener of the Science Exhibition announced the winners list and the Chief Guest distributed the prizes to the winners with Cash award and certificates. 78 merit certificates were given to the participants who have presented the exhibits and projects in the Science Exhibition.











