



K.M.G. COLLEGE OF ARTS AND SCIENCE



PG AND RESEARCH DEPARTMENT OF CHEMISTRY

*Permanently Affiliated To Thiruvalluvar University
Recognised Under Section 2(f) & 12(B) of the UGC Act 1956
Accredited By NAAC with 'A' Grade (CGPA of 3.24/4 - IInd Cycle)*

FRESHER'S DAY PROGRAMME

P.G. and Research Department of Chemistry was organized, “**FRESHER'S DAY**” on 14.07.2023 [Friday] at 2.00 pm in the KMG Seminar Hall. The second PG, third UG and second UG students made all the arrangements and program activities with faculties for the first UG students. The program begins with Thamizhthai Valthu and lighting of Kuthu Vilakku, **Dr. S. Praveen Kumar**, Head P.G. and Research Department of Chemistry, Welcomes the gatherings, our respected Principal **Prof. Dr. M. SENTHILRAJ** has given the presidential address, Principal Sir advice the first year students to join with seniors in all the activities, for that the Fresher's Day helps to have good coordination, **Dr. J. Jayakumar**, Students Coordinator and Head Department of Thamizh, has given the felicitation address, then Mrs. Nathiya from II M.Sc., Chemistry, Ms. R. Selvi and Ms. E. Mageshwari from II B.Sc., Chemistry have given inspirational speech with few lines of poem. Before begins the cultural program, the live launching of CHANDRAYAAN – 3 has shown to the students. Then **Mrs. Jayapriya**, First year student has proposed the vote of thanks. Finally the program ends with National anthem.





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104th FOUNDER'S DAY CELEBRATION QUIZ PROGRAMME

P.G. and Research Department of Chemistry was organized, a QUIZ PROGRAMME in CHEMISTRY, for the celebration of "104th FOUNDER'S DAY" - on 19.07.2023 (Wednesday). There are six teams had participated in the programme. The first three teams were awarded with momentums. **Dr. S. Praveen Kumar.**, Head, P.G. and Research Department of Chemistry, Welcomes the gatherings, our respected Principal **Prof. Dr. M. SENTHILRAJ** has given the presidential address. **Mr. B. BALAJI**, and **Mr. V. UMAMAGESHWARAN** both the faculties regularized the QUIZ programme.

Winners List

First Prize – Team

- | | | |
|-----------------|---|--------------------|
| 1. N. Sowmiya | – | II M.Sc Chemistry |
| 2. S. Elayaraja | – | III B.Sc Chemistry |
| 3. N.P Pavana | – | II B.Sc Chemistry |
| 4. S. Gopika | – | II B.Sc Chemistry |
| 5. M. Monisha | – | I B.Sc Chemistry |
| 6. S. Parthiban | – | I B.Sc Chemistry |

Second Prize – Team

- | | | |
|--------------------|---|--------------------|
| 1. R. Hemapriya | – | II M.Sc Chemistry |
| 2. B. Rakshitha | – | III B.Sc Chemistry |
| 3. G. Yamani | – | III B.Sc Chemistry |
| 4. S. Sakthi | – | II B.Sc Chemistry |
| 5. A.Lakshimikanth | – | I B.Sc Chemistry |
| 6. A. Jaya Priya | – | I B.Sc Chemistry |

Third Prize – Team

- | | | | |
|----|---------------|---|--------------------|
| 1. | G. Rahul | – | II M.Sc Chemistry |
| 2. | R. Mageshwari | – | III B.Sc Chemistry |
| 3. | G. Dhanush | – | II B.Sc Chemistry |
| 4. | P. Priya | – | II B.Sc Chemistry |
| 5. | K. Mukesh | – | I B.Sc Chemistry |
| 6. | R. Sabitha | – | I B.Sc Chemistry |





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CHEMISTRY ASSOCIATION INAUGURATION

The P.G. and Research Department of Chemistry was organized, “**CHEMISTRY ASSOCIATION INAUGURATION**” on 28.07.2023 [Friday] at 12.30 pm 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, our respected Principal **Prof. Dr. M. SENTHILRAJ**, has honor the Chief Guest and given the presidential address, **Mr. E. Jagan**, Assistant Professor, P.G. and Research Department of Chemistry, has introduce the Chief Guest **Dr. B. MUTHURAAMAN**, Head, Department of Energy, University of Madras, Guindy Campus, Chennai. Our Chief Guest has given the invited talk on “**Green Energy**”. Sir focused on the Solar cells, particularly dye sensitized solar cells, he has given the initial stages of solar cell fabrication and few ideas to minor projects in dye sensitized solar cells. 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. Mrs. K. Gandhimathi, Assistant Professor as Faculty In-Charge, Mr. S. Selvakumar, II M.Sc., Chemistry, President, Ms. N.P. Sugitha, III B.Sc., Chemistry, Secretary, Ms. E. Mageshwari, II B.Sc., Chemistry, Joint Secretary and Mr. S. Mohanraj, I B.Sc., Chemistry, Joint 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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CHEM-FEST - 2023

P.G. and Research Department of Chemistry was organized intra department **CHEM-FEST - 2023**, in Chemistry Association to conduct different competition for the students on 18.08.2023 (Friday). The **CHEM-FEST – 2023** was started with Thamizh thai valthu, then Ms. N.P. Sugitha Secretary, Chemistry Association, from III B.Sc., Chemistry, welcome the gatherings. Our respected Principal **Prof. Dr. M. SENTHILRAJ**, has been encouraged the students to participate all the activities, sir also said that “Participation is better than winning”, so don’t miss any chance. The following programs were conducted and its winning students enclosed in this report. Drawing, elocution, Slogan writing and dumb charades. There are nine teams were participated in the dumb charades each team have four members, first three teams were selected based on their performance. Then, Ms. E. Mageshwari, Join Secretary, Chemistry Association, from II B.Sc., Chemistry, was proposed vote of thanks. Finally the **CHEM-FEST – 2023** ended with national anthem.

Winners

DRAWING

First Prize	–	S. Sanjay, III B.Sc., Chemistry
Second Prize	–	G. Yamini, III B.Sc., Chemistry
Third Prize	–	V.Z. Mohammed Fazil, III B.Sc., Chemistry

SLOGAN WRITING

First Prize	–	V. Jothilakshmi, II B.Sc., Chemistry.
Second Prize	–	J. Shailaja, II B.Sc., Chemistry.
Third Prize	–	A. Jaya Priya, I B.Sc., Chemistry.

ELOCUTION

First Prize	–	B. Rakshitha, III B.Sc., Chemistry.
Second Prize	–	J. Shailaja, II B.Sc., Chemistry.
Third Prize	–	R. Selvi, II B.Sc., Chemistry. & V. Poovarasi, II B.Sc., Chemistry.

ESSAY WRITING

First Prize	–	B. L. Gangha, III B.Sc., Chemistry.
Second Prize	–	R. Mageshwari, III B.Sc., Chemistry.
Third Prize	–	S. Abinayaphriya, II B.Sc., Chemistry.

DUMB CHARADES

First Prize – Team

1. S. Aswini	–	III B.Sc Chemistry
2. R. Sanjay	–	II B.Sc Chemistry
3. K. Santhosh	–	I B.Sc Chemistry
4. R. Vinoth	–	II B.Sc Chemistry
5. R. Sabitha	–	I B.Sc Chemistry

Second Prize – Team

1. B. Vignesh	–	III B.Sc Chemistry
2. B.L. Ganha	–	III B.Sc Chemistry
3. J. Sethupath	–	I B.Sc Chemistry
4. A. Jayapriya	–	I B.Sc Chemistry

Third Prize – Team

1. S. Hema	–	III B.Sc Chemistry
2. D. Karthikeyan	–	I B.Sc Chemistry
3. G. Swetha	–	I B.Sc Chemistry
4. K. Mukesh	–	II B.Sc Chemistry



K. M. G. COLLEGE OF ARTS AND SCIENCE, GUDIYATTAM, Tamil Nadu, India

Department of Chemistry "CHEM FEST-2023"

Lat N 12° 56' 23.0604"

Long E 78° 54' 5.6268"

18/08/2023 02:06 PM GMT +05:30

Shri Sivan Ter
Google



K. M. G. COLLEGE OF ARTS AND SCIENCE, GUDIYATTAM, Tamil Nadu, India

Department of Chemistry "CHEM FEST-2023"

Lat N 12° 56' 23.0604"

Long E 78° 54' 5.6268"

18/08/2023 03:02 PM GMT +05:30

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INDUSTRIAL VISIT ON 15.09.2023 (FRIDAY)

“INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH (IGCAR)”

The PG & Research Department of Chemistry organized an Industrial Visit at Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam on 15th September 2023 (Friday). Totally 30 students from our department (II M.Sc., Chemistry – 16 and III B.Sc., Chemistry – 14) along with two faculty members went to IGCAR. The visit begins at 4.30 am from our KMG College of Arts and Science, Gudiyatham. We reached IGCAR at 10.00 am after all checking process a faculty Mr. Rajenderan leads us for the whole visit of the day. A brief introduction class has been given to us about IGCAR and Madras Atomic Power Station (MAPS). In this lecture we learn about the history of IGCAR and MAPS, also we know about the Nuclear chemical reaction, radiation and hazardous protection measurements. Industrial Visit

IGCAR is the first nuclear research center established by India by its own techniques. Still now lots of research work was carried out in this center. Coolant materials, reaction controller, radiation measurement and other features are studying in this research center. We the nuclear reactor model, fuel cell model and reaction controller materials in the IGACR. Then we move to see the small scale nuclear reactor research models and research areas. Different types of research work is going on in IGCAR, we saw the life science departments, were working in the areas of how to protect living organism from radiation.

After the lunch break we move to see the MAPS, here 2 nuclear reactor is producing electricity from nuclear reaction. In this process three stage coolant is using, first stage sodium, in second stage heavy water (D_2O) and third stage sea water. We saw the process of sea water bring to the reactor and filter the solid wastes finally used as third stage coolant. The sea water convert steam and used to rotate the dinamo to generate electricity. It was amazing visit to us, a single page image of nuclear reactor, have such huge parts and lot of volume occupied in the land. Its wonders, we thank the Management and Principal for this great Industrial visit arrangements.





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NATIONAL CONFERENCE ON “RECENT ADVANCE MATERIALS IN CHEMISTRY (NCRAMC - 2023)”

The PG & Research Department of Chemistry organized a National Level Conference in the topic “**RECENT ADVANCE MATERIALS IN CHEMISTRY (NCRAMC - 2023)**” on 23rd September 2023. Prof. Dr. M. Senthilraj, Principal of K.M.G. College of Arts and Science, Gudiyattam, inaugurated and presided over the function. Dr. S. Praveen Kumar, Head, Department of Chemistry welcomed the gathering. **Prof. Dr. K. Dinakaran**, Professor and Head, Department of Chemistry, and Research Director Thiruvalluvar University, Vellore, was the resource person and he delivered an invited talk on “Organic polymeric conductors for Dielectric and PEMFC applications” and **Dr. J. Venkatesan**, Assistant Professor, Biomaterials Research Laboratory, Yenepoya Research Centre, Yenepoya Deemed to be University, Mangaluru, was another resource person and he delivered an invited talk on Bionanomaterials: Preparations and Biomedical Applications. Mr. E. Jagan, Assistant Professor, PG and Research Department of Chemistry, Introduced the resource person Prof. Dr. K. Dinakaran and Mrs. K. Gandhimathi, Assistant Professor, PG and Research Department of Chemistry, Introduced the resource person Dr. J. Venkatesan. As many as 92 students and 22 faculty members from 12 colleges participated in this national level conference.

10 oral presentations and 26 poster presentation totally 36 papers from 8 colleges were Presented. Dr. J. Venkatesan one of our resource person judged the oral presentation and Dr. D. Ramasamy, Assistant Professor of Chemistry, Government Thirumagal Mills College Gudiyattam, judged the Poster presentation. At the end of the program our respected Principal distributed the prizes to the winners in Paper presentation. Mr. S. Sathiesh, Assistant Professor, PG and Research Department of Chemistry proposed a vote of thanks.

SUMMARY REPORT OF NATIONAL LEVEL CONFERENCE – 23.09.2023

Total no of Colleges Participated	=	12
Total no. of Students from Other Colleges	=	92
Total no. of Staff from Other Colleges	=	22









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Guest Lecture

P.G. and Research Department of Chemistry was organized a Guest Lecture on **10th OCTOBER 2023 (TUESDAY)** behalf of Chemistry Association activity, **Dr. N. SOMANATHAN**, Sr. Principal Scientist & Head (Ret.), Polymer Division, CSIR-Central Leather Research Institute, Adyar, Chennai – 600 020 was the Chief Guest. He has given the lecture on **“MOLECULAR UNDERSTANDING OF FLEXIBLE ORGANIC OPTOELECTRONICS”**. Dr. S. Praveen Kumar, Head PG and Research Department of Chemistry welcome the gatherings. Our respected Principal **Prof. Dr. M. SENTHILRAJ**, has given the Felicitations Address and Honor the Chief Guest. Finally Mr. D. Nandakumar, Assistant Professor, PG and Research Department of Chemistry, was proposed vote of thanks.





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INDUSTRIAL VISIT ON 01.02.2024 (Thursday)

“ISRO Propulsion Research Complex (IPRC)” Mahendragiri, Tamil Nadu – 627133.

The PG and Research Department of Chemistry organized an Industrial Visit at ISRO Propulsion Research Complex (IPRC)” Mahendragiri on 01.02.2024 (Thursday). Totally 44 students from our department (II M.Sc., Chemistry – 13, I M.Sc., Chemistry – 04, III B.Sc., Chemistry – 16 and III B.Sc., Chemistry – 08) along with six faculty members went to the Industrial visit.



Educational Tour on 01.02.2024-03.02.2024

The PG & Research Department of Chemistry organized an Educational tour on 01.02.2024 to 03.04.2024, three days to the following places, Kanniyakumari, Thiruvananthapuram and Munar. Totally 44 students from our department (II M.Sc., Chemistry – 13, I M.Sc., Chemistry – 04, III B.Sc., Chemistry – 16 and III B.Sc., Chemistry – 08) along with six faculty members went to the tour.





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EXTENSION ACTIVITIES:

Dr. S. Praveen Kumar Head of the PG and Research Department of Chemistry, have given a lecture in the In-service training programme for Science teachers on 10.01.2024 (Wednesday) on “ Easy way to learn Basic Chemistry” Organized by KMG College of Arts and Science and Tamil Nadu State Council for Science and Technology.





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1. OUT-CAMPUS ACHIEVEMENTS:

Students Achievements

1. UG and PG Students from Chemistry were participated in the **SCIENCE FEST 2024**

Organized by the Thiruvalluvar University, Vellore during 07th Feb 2024 to 11th Feb 2024

and **won the Second Prize in QUIZ and Exhibition.**

Exhibition - II Prize Winners

1. L. Pavithra – I M.Sc., Chemistry.
2. Y. Rashitha Banu – I M.Sc., Chemistry.
3. R. Sneha – I M.Sc., Chemistry.
4. P. N. Someswari – I M.Sc., Chemistry.
5. K. Yamuna – I M.Sc., Chemistry.



Quiz - II Prize Winners

1. B. Rakshitha – III B.Sc., Chemistry.
2. N.P Sugitha – III B.Sc., Chemistry.
3. V. Jothilakshmi – II B.Sc., Chemistry.
4. S. Sridevi – II B.Sc., Chemistry.
5. D. Vanisri – II B.Sc., Chemistry.



2. **Paper Presentation in AUXILIUM COLLEGE (AUTONOMOUS), Vellore.**

Six Second year UG Students from Chemistry Department were participated in the **Paper Presentation** Organized by the Department of Chemistry, AUXILIUM COLLEGE (AUTONOMOUS), Vellore, On 10th Feb 2024. One of Our Student **Ms. B. Anitha** Presented a paper entitled as “UV – Visible Spectroscopy”.



3. Paper Presentation in International Conference.

10 Second year PG Girls Students from Chemistry Department were participated and presented their project works in the **International Conference on Emerging Advanced Materials [ICEAM – 2024]**, Organized by the Department of Chemistry, Marudhar Kesari Jain College for Women, Vaniyambadi, On 12th Mar 2024. One of Our Student **Ms. P. Nathiya**, Presented a paper entitled as “**UV – Visible Spectroscopy**”.





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“FAREWELL DAY PROGRAMME”

P.G. and Research Department of Chemistry was organized, “FAREWELL DAY” on 16.04.2024 [Tuesday] at 10.00 am in the KMG Seminar Hall. The First PG, Second UG and First UG students made all the arrangements and program activities with faculties for the outgoing UG and PG students. The program begins with Thamizhthai Valthu and lightning of Kuthu Vilakku, **Ms. B. Anitha**, II B.Sc., Chemistry, Welcomes the gatherings, our respected Principal **Prof. Dr. M. SENTHILRAJ** has given the presidential address, **Dr. J. Jayakumar**, Students Coordinator and Head Department of Thamizh, has given the felicitation address, Sir advice the students learning is a continuous process you are all the KMG college representations show your potential and get bright future. Then **Dr. S. Praveen Kumar**, Head, Department of Chemistry have given Farewell address to the students, Sir advice the students “like carbon atom, the students have stable relation bond with others and form a big community” all the students will be a successful person in their life. Then the out going students are appreciated with a momentum. Finally Cultural programmes given by the chemistry students, Ms. Asin and Ms. Vanathi perform dance, Mr. Gokulakrishnan and Mr. Dhanush sing a song. Then **Ms. N. Kaviyapriya**, Second PG student has proposed the vote of thanks. Finally the program ends with National anthem.

