



K.M.G. COLLEGE OF ARTS AND SCIENCE

(Autonomous)

Permanently Affiliated to Thiruvalluvar University, Vellore.

Recognized under Section 2(f) and 12(B) of the UGC Act 1956

Accredited by NAAC (2nd Cycle) with (CGPA of 3.24/4) 'A' Grade

RS Road, Ammanankuppam, Gudiyattam – 635803, Vellore District, Tamil Nadu.

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<https://kmgcollege.edu.in/chemistry.html>



PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Freshers' Day Report

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R.S. ROAD, AMMANANKUPPAM, GUDIYATTAM – 635 803.
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P.G. & RESEARCH DEPARTMENT OF CHEMISTRY

Cordially Invites You to the

FRESHERS DAY-2025
(Welcoming New Bonds in Chemistry)

**Organized for our First Year
B.Sc. & M.Sc. Chemistry students**

K.M.G. Seminar Hall	AUGUST 01 2025	10:00 AM
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**"The real magic of chemistry
begins when fresh minds
come together."**

The newly joined student eagerly waits 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 “Fresher’s Day” for the academic year 2025-2026 on 1st August 2025(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 ceremonial lamp, *Kuthuvilakku*, was lit by **Dr. C. Dhandapani**, Principal, Dr. J. Jayakumar, Students Coordinator and Head Department of Thamizh, Dr. D. Manikandan, Dean Academics and Head PG and Research Department of Microbiology, Dr. S. Praveen Kumar, Head PG and Research Department of Chemistry and Newly joined students, faculty members, and senior students. This traditional practice symbolizes the dispelling of darkness and the ushering in of knowledge, wisdom, and enlightenment. The lighting of the lamp marked an auspicious beginning to the event.

Ms. **B. Archana**, of II M.Sc. Chemistry, warmly welcomed the dignitaries, faculty members, and the fresher’s. She shared her experiences in the department and encouraged the juniors to embrace academic life with positivity, curiosity, and commitment.

Dr. **S. Praveen Kumar**, Head of the P.G. & Research Department of Chemistry, delivered a detailed felicitation address. He outlined the department’s academic achievements, research contributions, and the various opportunities available to students. He urged the freshers to actively participate in seminars, workshops, and research initiatives to expand their horizons. His address was both motivating and informative, instilling confidence in the newcomers.

The Chief Guest of the day, **Dr. C. Dhandapani**, Principal of K.M.G. College of Arts and Science, delivered an inspiring and thought-provoking speech. He emphasized the importance of discipline, dedication, and determination in academic life. He spoke about the values upheld by the institution and encouraged students to balance academics with personal growth. His words left a lasting impact on the audience, especially the freshers.

The formal vote of thanks was delivered by **Ms. D. Vanisri**, a student of I M.Sc. Chemistry. She expressed sincere gratitude to the management, principal, vice principal, faculty members, organizing team, and all the students for making the event a memorable one. Her thoughtful words acknowledged the efforts of everyone who contributed to the success of the event.







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PG AND RESEARCH DEPARTMENT OF CHEMISTRY

Industrial Visit Report

The PG and Research Department of Chemistry, KMG College of Arts and Science, Gudiyatham, has been organized an Industrial visit to Central Leather Research Institute (CLRI), Chennai on 25.09.2025 for the III Year B.Sc. Chemistry Students and II Year M.Sc. Chemistry Students

Objective of the CLRI Visit

The vellore region have many leather industries, the major work caried around the Gudiyatham, based on the social and employability impacts we organized the industrial visit to provide practical exposures in leather processing, research-based chemical processes, modern laboratory techniques and applications of chemistry in the leather process and leather goods making.

Report

52 students from III B.Sc., Chemistry and II M.Sc., Chemistry with 4 faculty members were starts the visit at 5 am from KMG College of arts and Science (Autonomous) through the college-arranged transport and reached CLRI, Chennai, at **10:00 a.m.**

Dr. A. Tamilselvi, Head, Centre for Human & Organizational Resources Development, CLRI welcomed the students and given an introductory session, to explain the role of CLRI in leather research, environmental management, polymer science, and chemical processing. Students were guided through various departments and laboratories, where they learned about:

- Leather processing techniques
- Chemical treatment and tanning methods
- Waste management and eco-friendly technologies
- Research applications of chemistry in industrial sectors



Visit of Leather processing Unit

In the Leather processing unit raw animal hides and skins convert into durable, flexible and usable leather through a series of chemical and mechanical treatments. In the Leather processing there are **three** main stages such as i) **Pre-tanning Process**, ii) **Tanning Process** and iii) **Post-tanning (Finishing)** Process was explained by the experts. Leather processing involves a combination of chemical, enzymatic and mechanical operations. Each step plays a vital role in producing high-quality leather suitable for industrial and commercial applications. Modern leather processing emphasizes **eco-friendly chemicals and waste management**, as practiced at CLRI.



Visit to Chemistry Research Laboratory

The students visited the Chemistry Research Laboratory in various field of research work doing by the scholars related with leather process and environmental techniques. Also, the students observed advanced analytical instruments like UV-Visible, FT-IR and etc., research methodologies and laboratory safety practices. The visit enhanced their understanding of practical applications of chemistry and motivated them towards research-oriented learning.





The visit helped students understand the practical relevance of theoretical concepts studied in their curriculum. The industrial visit was highly informative and beneficial. It enhanced students' knowledge of industrial chemistry, research methodologies, and career opportunities in chemical and research industries. The visit successfully bridged the gap between academic learning and industrial applications.

Conclusion

The industrial visit of CLRI is a one of the best learning experiences to our students. It enriched the academic knowledge of them and also given a motivation to get research and industrial careers in Chemistry.





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PG AND RESEARCH DEPARTMENT OF CHEMISTRY

CHEMISTRY ASSOCIATION INAUGURATION REPORT

The PG and Research Department of Chemistry, was successfully organized the ***“CHEMISTRY ASSOCIATION INAUGURATION”*** on [12th December 2025] at the KMG Seminar Hall from 11.00 a.m. to 1.00 p.m.

The programme commenced with the Thamizhthai Vazhthu, invoking divine blessings for the successful conduct of the event, followed that Lighting of the Kuthuvilakku by the Chief Guest, Principal, Head of the Department and Association elected students for the symbolizing illumination of knowledge.

Dr. S. Praveen Kumar, Head PG and Research Department of Chemistry, delivered the Welcome Address. He has warmly welcomed the Chief Guest, Principal, dignitaries, faculty members, students. He also highlighted the importance of association in a department and significance of the programme.

The **Principal Dr. C. Dhandapani**, K.M.G. College of Arts and Science (Autonomous), has delivered the Felicitation Address. In his address, he emphasized the importance of academic excellence, discipline and student participation in co-curricular activities. He also encourages the students to involve all the activities of the Chemistry Association for the development of skills and knowledge.

Ms. R. Anithalakshmi, Assistant Professor, PG and Research Department of Chemistry introduced our chief guest with the academic achievements and professional contributions of the guest to the audience.

Head PG and Research Department of Chemistry Dr. S. Praveen Kumar, introduced the association members along with **Mr. E. Jagan**, Assistant Professor, PG and Research Department of Chemistry as Staff In-charge. **Ms. N. P. Sugitha**, II M.Sc. Chemistry – President, **Ms. D. Vanisri**, I M.Sc. Chemistry – Vice President, **Mr. S. Mayilvanan**, III B.Sc. Chemistry – Secretary, **Mr. R. Kishorekumar**, II B.Sc. Chemistry – Joint Secretary and **Mr. V. Mouli**, I B.Sc. Chemistry – Joint Secretary.

Heart of the programme was Chief Guest Address given by **Dr. G. Thenmozhi**, Head of the Department, PG Department of Chemistry, Arcot Sri Mahaalakshmi Women's College, Villappakkam – 632521. In her inspiring speech, she shared her valuable insights on chemistry education, career opportunities and motivated students to pursue academic and research excellence. The chief guest also listed the vital role of chemist in various industries and the job availability all over the world. In the chief guest address she also encourages the students to participate all the departmental activities along with internship, project for the new ideas in existing industrial area.

The programme concluded with the Vote of Thanks proposed by **Mr. E. Jagan**, Assistant Professor, PG and Research Department of Chemistry and Staff In-charge, Chemistry Association. He was expressed gratitude to the management, principal, chief guest, faculty members, and students for their cooperation and support. The event came to an end with the National Anthem. The programme was well organized and highly informative, leaving a lasting impact on the participants.





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PG AND RESEARCH DEPARTMENT OF CHEMISTRY

NATIONAL CONFERENCE ON RECENT INNOVATIVE

MATERIALS IN CHEMISTRY (NCRIMC 2025)

REPORT

The PG and Research Department of Chemistry, K.M.G. College of Arts and Science (Autonomous), successfully organized a national conference on 23rd December 2025 at the KMG Seminar Hall from 10.30 a.m. to 4.00 p.m. The major objective of the conference is to provide a platform for students, research scholars and faculty members to interact with eminent scientists and academicians from reputed institutes like Indian Institute of Science (IISC) Bangalore and CSIR - Central Electrochemical Research Institute (CECRI) Karaikudi and to gain exposure to recent advancements in materials science, electrochemistry, and related interdisciplinary areas. The conference witnessed enthusiastic participation from faculty members, research scholars, postgraduate students, and invited guests, making the programme a grand academic success.

The programme commenced at 10.30 a.m. with **Thamizhthai Vazhthu**, invoking blessings for the successful conduct of the event. This was followed by the **Lighting of the Kuthuvilakku** by the **Chief Guests and the Principal**, symbolizing the dispelling of ignorance and the illumination of knowledge.



The **Welcome Address** was given by **Dr. S. Praveen Kumar**, Head, PG and Research Department of Chemistry. In his welcome address, he warmly welcomed the dignitaries, chief guests, faculty members and participants from various colleges. He highlighted the importance of such academic programmes in bridging the gap between theoretical knowledge and cutting-edge research, and emphasized the department's commitment to promoting research culture among students. He also highlighted the academic achievements and research success of the chief guests for the inspiration of students.



The **Chief Guests** were honored by **Prof. Dr. C. Dhandapani**, Principal, K.M.G. College of Arts and Science (Autonomous) and delivered felicitation address. In his felicitation address, the Principal appreciated the efforts of the Department of Chemistry in organizing the programme and encouraged students to actively engage in research-oriented learning. He stressed the significance of innovation, interdisciplinary research, and academic excellence in shaping successful scientific careers.



Technical Session – I

The first technical session began with the introduction of the Chief Guest by **Ms. K. Gandhimathi**, Assistant Professor, PG and Research Department of Chemistry. She briefly outlined the academic and research contributions of the Chief Guest by **Dr. P. Rajamalli**, Associate Professor, Materials Research Centre, Indian Institute of Science (IISc), Bangalore. She was highlighted the achievements and scientific research publications of the chief guest also her contribution in materials research. Dr. P. Rajamalli, has deliver the invited talk in first session on **“Luminescent materials for organic light emitting diodes”**. In her insightful lecture, elaborated on recent developments in materials chemistry, advanced functional materials and their applications in energy, electronics and sustainable technologies. Her presentation was highly informative and engaging, providing valuable insights into contemporary research trends, experimental techniques, and career opportunities in materials science. The session concluded with an interactive discussion, during which students and faculty members actively posed questions and shared ideas.



Technical Session – II

The second technical session commenced with the introduction of the Chief Guest by **Ms. R. Anithakakshmi**, Assistant Professor, PG and Research Department of Chemistry. She has introduced the Chief Guest **Dr. K. Giribabu**, Principal Scientist and Assistant Professor, Electrodeics and Electrocatalysis Division, CSIR - Central Electrochemical Research Institute (CECRI), Karaikudi, Tamil Nadu, with his carrier achievement CSIR Young Scientist Award in 2021 and his high research publications, good citations about 2700 with h-index of 34 also his contribution in electrochemical research field. Dr. Giribabu delivered an in-depth lecture on “**electrochemistry and their applications in food safety and sensors**”. He discussed current research challenges, innovative methodologies and the role of electrochemical research in addressing global energy and environmental issues. The lecture greatly benefited research scholars and postgraduate students by enhancing their understanding of applied electrochemical research.



Oral and Poster Presentation Session

The **Oral Presentation and Poster Presentations** was conducted simultaneously; participants from different institutes were presented their research work in these sessions. The presentations covered diverse topics in chemistry and allied sciences. The session encouraged critical thinking, scientific communication skills, and constructive discussions. Finally the best three presentations in each category were appreciated with a moment and certificates.



Valedictory Function

In the Valedictory Function convener of the conference Dr. S. Praveen Kumar summarized the highlights of the programme. The best presentation was honoured in this valedictory session. Finally convener appreciated the active participation of students and faculty members, also he expressed his gratefulness. Participant Certificates were distributed to all the students and faculties from various colleges. Finally the **vote of Thanks** was delivered by **Ms. P. Pavithra**, Assistant Professor, PG and Research Department of Chemistry. She expressed heartfelt gratitude to the Chief Guests, Management, Principal, faculty members, organizing committee, participants, and supporting staff for their valuable contributions and cooperation. The programme concluded with the **National Anthem**, marking the successful completion of the conference.



கல்லூரியில் வேதியியல் துறை கருத்தரங்கு



குடியாத்தம், டிச. 25: குடியாத்தம் கே.எம்.ஜி. கலை, அறிவியல் கல்வி கல்லூரியில் வேதியியல் துறை சார்ந்த பி.எம்.எஸ்.சி.யு.பி.யு.துவையாள வேதி மக் பொருள்கள் - 2025 எனும் தலைப்பில் ஒரு நாள் கருத்தரங்கம் நடைபெற்றது (படம்).

நிழைச்சிக்கு கல்லூரி முதல்வர் சி.தண்டராணி தலைமை வகித்தார். வேதியியல் துறைத் தலைவர் சி.பிரவீந்திரன், வரவேற்றார். துறைப் பேராசிரியர்கள் கூகாந் திமதி, ஆர்.அனீதாஸ்கமி ஆகியோர் சிறப்பு விருந்தினர்களை அறிமுகம் செய்து வைத்தனர்.

பெங்களூர் இந்திய அறிவியல் கல்வி நிறுவனத்தின் இணைப்

பேராசிரியர் பிரபாகரன், காரைக்குடி மத்திய மிஷ் இயக்க ஆய்வுக்கழகத்தின் முதன்மை அறிவியல் ஆராய்ச்சியாளர் மற்றும் உதவிப் பேராசிரியர் கே.கிரீடாபு ஆகியோர் "உணவுப் பாதுகாப்பு மற்றும் உணவு" என்ற தலைப்பில் சிறப்புரைகள் செய்தனர்.

பேரட்டிகளில் வெற்றிபெற்ற மாணவர்களுக்கு பரிசு மற்றும் சான்றிதழ்கள் வழங்கப்பட்டன. இதில் பல்வேறு கல்லூரிகளைச் சேர்ந்த 15- பேராசிரியர்கள், 50- ஆராய்ச்சியாளர்கள், 300- க்கும் மேற்பட்ட மாணவ, மாணவிகள் கலந்து கொண்டனர். பேராசிரியர் பிரபாகரன் தலைநி கூறினார்.