

**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

**Annual Report:**

Teaching is a kind of art that shapes students progress not only in academics, but also reflects in social acts. The Department of Chemistry have continuing such challenging task to promote the student quality in every academic year. We also have great privilege to report students achievements and progress in the 2022-2023 academic year. Apart from academics, our students excellence in physical activities, National Service Scheme, National carded crop and other social service activities. We believe, such wonderful progression and successful achievements have been maintained by students and Department staff members co-operations that witness our Department progress waitage.

**Department particulars :**

After the covid pandemic, the Department of Chemistry admitted 37 candidates for B.Sc., chemistry course, through the direct counselling mode. In first year allied we offered 19 candidates for Zoology (Only for science students) and 18 candidates for Allied mathematics. Department have chemical store keeper, to stock registering and audit recording the chemical backup and two lab assistants in order to maintain the chemical laboratory facility for Under Graduate students. We also have three teaching staff's (Regular) and four management teaching staff's for students class in-charges.

**Academic Progress:**

As per the University regulations, our students attempted twice non semester examinations. We determined students pass out percentage at the end of the semester in every academic year between April -2022 and April -2023. In 2023, we have achieved 97%age successfully cleared Practical Examination and 19 %age cleared in University theory examinations. Nearly, 14%age students were pursuing Post Graduate (PG) in established institution. Based on the academic records, Mr. R. Harish (Roll no. 222004436), who have secured second place at Anna University PG overall rank list and first place in Communal rank list. Our student Mr. S. Diwakar (Roll no. 222004433), 79.5 %age cutoff was secured in Physical chemistry Departments, University Madras. Just 1%age lacking missed opportunity at Madras University campus. Both have nominated for Alumni Association Award in 2023 academic year.

**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

**Students selective Alumni:**

Our passed out students pursuing their post graduation in various established institutions. The academic year 2022- 2023 pass out aluminises furnished as below:

1. Mr. R. Harish (Roll No. 22200436) – M.Sc., Applied chemistry, Anna University, Ch
2. Mr. B. Diwakar ((Roll No. 222004433) – M.Sc., General Chemistry, Viyasarbadi Gov. Arts and Science College, Ch
3. Mr. A. Lokesh (Roll No. 222004438) – Pachaiyappa’s College, Ch
4. Mr. S. Ajay (Roll No. 222004427) – Staff, IT Park, Ch
5. Mr. E. Gunasekaran, (Roll No. 222004434) - Supervisor, ICF, Ch

**Department Regular activities**

Apart from student academics, our faculty staff members train students to expose their talents in extra curriculum activities such as Art works, Industrial visit oratory competitions etc., The details of conducted students talents programme and trainings are given below:

Student NSS regular activity

In July 25th 2022, NSS Program officers organized 44th Chess Olympiad Students campaign. Chemistry students nearly 15 volenteers were attended.



Précised Energy Aptitude Test

26th August, 2022 Russian embassy culture organized students Aptitude test around chennai colleges. Preliminary test was conducted for all science stream, and selected candidates are invited for honorarium at Russian Culture at R.K road, Chennai. From our Department students nearly 4 were get selected.

**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**



Movie Show:

Chennai Greater Corporation invited college students for one day movie show "Kappal Otiya Tamizhan" on 6th December 2022. With the Guidance of Principal and various Departments Head's, we arranged the corporation bus and metro transporte to reach kalaivanar arangam, at Valaja Road, Chennai.





**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**



Science Show:

For the students entertaining, the Department of chemistry organized science movie show, " Gravity" on 17th September 2022. The movie was about spaceship travel and our students were really enjoyed it.



Science city, Chennai

Chennai science city, invites our students to attend career development programme entitled " Campus to career" held at Anna University. Final year 6 students were attend and gained the knowledge about career guidance on 28th September 2022.



**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

Pooja Celebration:

The Department of Chemistry Every year celebrating Aatha Pooja, and last celebration on 26th September 2022. Whole department was cleaned and celebrated with the assistance of Department staff and Students.





Department of Chemistry  
C. Kandaswami Naidu College for Men, Chennai.  
Annual Report



Department of Chemistry  
C. Kandaswami Naidu College for Men, Chennai.  
Annual Report

One Day workshop

ur students attended one day workshop at Anna University on 29th September 2022 . Students got experienced hand on training instrumentation FT-IR, UV, TGA, XRD and SEM analysis.

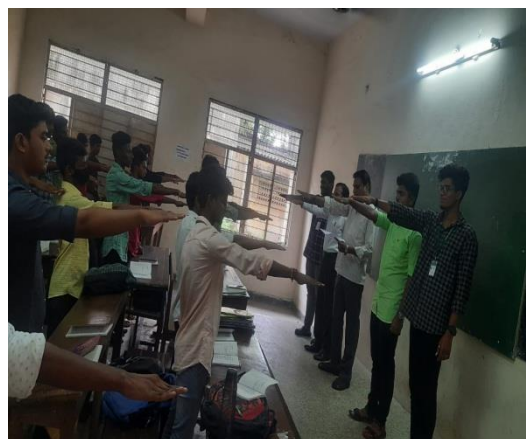




**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

Drug free awareness:

Our student took pledge about drug free younger society on 2nd november,2022 in Chemistry class rooms.



Pongal Celebration:

Our institute celebrated Pongal celebration on 12th January 2023. Students and faculties were actively participated.





**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

Science Exhibition:

Tamilnadu Government invited various Government colleges to present their science experiments on 17th February 2023, at Thevuthidal , chennai. Majority of chemistry students were shown their chemical reactions experiments model, hollow gram (3D View), DNA helical model etc., We are really proud that Health Minister Dr. Radhakrishnan interact with our students about science module.





Department of Chemistry  
C. Kandaswami Naidu College for Men, Chennai.





Department of Chemistry  
C. Kandaswami Naidu College for Men, Chennai.  
Annual Report

Art Competition:





**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

Intra Department offline art competition for academic year 2023 organized on 25th February, Theme of art competition: 1) Science and invention 2) World popular person 3) Environmental Safety

Polymera & Effervescence:



Anna University invited our students to participate Department Association Program Polymera and effervescence on 11th March, 2023. Our Department 8 students were attended and Mr. E. Gunasekar, won first place in oratorical competition.



**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

Student oratorio presentation:

The Department of Chemistry was conducted oratory competition to ensure student outcome speaking skill. Students presented their visual presentation on 30/03/2023, and we appointed Dr.B. Prameena, Asst. Prof. of Physics, as special external Judge. Nearly, 25 candidates were presented and external Judge commented that tough to decide students places for prize distributions.



**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

Students won prize:

Our Department students participate in other institute oratorical presentations and win prizes. Details as are

Mr. E. Gunasekaran, (Third year), won cash and award in Tamil for oratorical presentation at other institutes

Mr. S. Sudharsan (First Year), National level prize won in silambam

Mr. M.S. Karthikeyan (First Year), won first place in oratorical intra Department competition, part of English Department Association conducted on 3rd November, 2022.

Department Audit:

Department audit was successfully completed in January 2023 for the past three years pending audit from the year 2017 to 2023.





Department of Chemistry  
C. Kandaswami Naidu College for Men, Chennai.  
Annual Report



Association function:

The Department of Chemistry hosting Association functions on 05.04.2023 with invited chief guest Dr. V. Sivamurugan, Assistant Professor of Chemistry, Pachaiyappas college, Chennai. The chief guest delivered student motivation speech

**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

and highlight chemistry scopes and career opportunities. He also distributed prizes to academics top performers.

**Staff Achievements:**

*Dr. S. Hariharan*, Assistant Professor & Head:

1. College council member since 2019 May
2. College Infrastructure committee convener
3. College University Examination Additional Chief
4. University Paper evaluator (2022 -2023)
5. External Practical Examiner, Annai Violet college October 2022
6. University Practical's Internal Examiner (October 2021 and March 2022)

*Dr. G. Thennarasu*, Assistant Professor

1. University Paper evaluator (2022 -2023).
2. University Practical's Hall superintendent (October 2022 and March 2023)
3. College Health Club Coordinator
4. External Practical Examiner, Pachaiyappas College, Chennai (Feb 2023),
5. Question paper setter - Quaid -E-Millath Government College for Women (April 2023)
6. A. Priyadharsan, R. Ranjith, N. Karumegam, G. Thennarasu, S. Ragupathy, Effect of metal doping and non metal loading on light energy driven degradation of organic dye using ZnO nanocatalyst, *Chromophore*, 1879-1298, 330, 138708 ((Impact 8.8)
7. Selvam Ragupathy, Subramaniyan Ramasundram , G. Thennarasu, P. Harishsenthil, M. Krishnakumar, Effect of Mn doping on structural, optical and photocatalytic properties of SnO<sub>2</sub> nanoparticles, *ceramic International*, 1873-3956, 49,1776-17783, 2023 (Impact 5.6)
8. Manova Santhosh Yesupatham, Ashil Augustin, Nithish Agamendran, Brahmari Honnappa, Mariyappan Shanmugam, Prince J. J. Sagayaraj, G. Thennarasu, N. Clament Sagaya selvam and Karthikeyan Sekar, Photocatalytic seawater splitting for hydrogen fuel production: Impact of seawater components and accelerating reagents on the overall performance, *Sustainable energy fuels*, 2398-4092, 4727-4757, 2023. (Impact 5.2)
9. R. K. Shynu, S, Gnanam, J. Gajendran, J. Ramana, Ramaya, G. Thennarasu, S. Gokul Raj., G. Ramesh Kumar, Facile co-precipitation synthesis of ZnO-NiO, Nanomaterial fabrication, Structural analysis, and assessing the impact of various solvents on the photoabsorption, Photo emission, Photocatalytic electrochemical sensing behavior and anti bacterial activity, *European Chemical Bulletin*, 2063-5346, 12, 1223-1236, 2023 (Impact 1.07).

*Dr. P. Vinayagamoorthy*, Assistant Professor,

1. University Paper evaluator (2021 -2022)
2. University Practical's Hall superintendent (October 2021 and March 2022)
3. College Placement Cell coordinator



**Department of Chemistry**  
**C. Kandaswami Naidu College for Men, Chennai.**  
**Annual Report**

4. Institute IQAC Steering committee Member
5. External examiner: SAS Engineering college, Chennai.
6. College Name Board eviction member

*Dr. S. Indumathi*, Assistant Professor of Zoology

1. Question Paper setter, Ethiraj College for Women, Chennai
2. College NSS, Coordinator till March 2023
3. University Practical examination internal examiner
4. University paper evaluator
5. As a resource person & special invited speaker - Sir Theagaraya College, Chennai.  
Magna Arts and Science College, Soka Ikedha College, Chennai

Dr. S. Jothivel, Assistant Professor of Chemistry

1. Paper presentation - National conference on recent trends in Chemistry (RTC-2019)  
Department of Chemistry, Valliammai Womens College of Arts and Science,  
Arakandanallur, Villupuram.
2. Act as Evaluator- 27th National Children Science Congress -2019, Tamil Nadu Science  
Forum. Sivakasi Hindu Nadar Mat. Hr. sec. School, Egmore.
3. Oral Presentation - National Seminar on Material - Application and conservation (NSEM-  
2020). PG & Research Department of Chemistry,  
Govt Arts College (Autonomous), Kumpakonam.
4. Participate "Pongal Kaviyarangam- Suthanthira Kaatrai suvasigrom" in DD Puducherry  
on 09.08.2019
5. Chief guest and Invited Talk on Nano Chemistry on 29.09.2019, Department of Chemistry  
, Valliammai Womens College of Arts and Science, Arakandanallur, Villupuram.
6. Pongal Kaviyarangam, 2022, Topic' Sezhikattum Selvangal' DD Pudhucheri, 14.01.2022
7. Voo. Ve. Sa., Swaminathan Iyer, Kavichemmal award at Voo. ve. S. Memorial House, at  
Uthama thana puram, Babanasam, Thanjavoor, 19.02.2022.
8. Naan Muthalvan Scheme, Faculty Development Programme Training, Dated: 17.07.2023  
to 21.07.2023