

**GOVT. DEGREE COLLEGE (MEN), SRIKAKULAM - DEPARTMENT OF CHEMISTRY**

**IN**

**COLLABORATION WITH DEPARTMENT OF CHEMISTRY**

**GOVERNMENT DEGREE COLLEGE, TEKKALI**

**2022-23**



<b>Name of the Department &amp; Institute Organized the Event</b>	Department of Chemistry, Govt Degree College For Men, Srikakulam
<b>Name of the Event Organized</b>	Zonal Level Science Exhibition Organized by Science Association
<b>Department Event</b>	<b>Magics with Chemistry Expo</b>
<b>Date of Event Organized</b>	09-09-2022
<b>Name of the Subject expert(s)/ Jury committee members</b>	1. Dr. M. Baburao, Rtd. Principal 2. Dr.G. Vayukumar, Rtd. Lecturer in Chemistry Govt. Degree College for Men, Srikakulam.
<b>No. of Participants (Student +Staff)</b>	2+1 From GDC, Tekkali (total of 153 participants from various disciplines from various colleges)
<b>Objective of the Event</b>	<ul style="list-style-type: none"> <li>To create awareness about recent Science &amp; Technology inventions and their impact on the society.</li> <li>To create scientific temper and competitive spirit among students</li> </ul>
<b>Description of the event</b>	Based on the Collaboration between Department of Chemistry, GDC, Tekkali and Dept of Chemistry, GDC M, Srikakulam, Two students & one faculty member participated from Dept of chemistry, Tekkali participated in this mega Event organized by Science Association, GDCM, Srikakulam in view of Azadi Ka Amrit Mahotsav sponsored by APCOST- Vijayawada, Ministry of Environment, Forest, Science & Technology- Andhra Pradesh.
<b>Outcome of the Event</b>	Students were able to : <ul style="list-style-type: none"> <li>to develop scientific temper</li> <li>to develop scientific and research aptitude</li> </ul>

Event Co-ordinator  
 Lecturer in charge  
 Dept. of Chemistry  
 Govt. Degree & PG. College (Men)  
 SRIKAKULAM

IQAC Co-ordinator  
 Co-ordinator  
 Internal Quality Assurance Cell  
 Govt. Degree College (Men)  
 SRIKAKULAM



In-Charge, Department of Chemistry  
 Govt Degree College, Tekkali

# Event Flyer

## General Guidelines of the Event

- Each theme has 01 Coordinator, details given under and he is the responsible for coordinating the entire event & also select the mentors (1st, 2nd & 3rd)
- Each student has eligible to participate maximum of 02 Thematic Events & mandatorily one in Forenoon & one in Afternoon
- Registration fee for each theme is Rs. 100/- (Lunch & Snacks will be provided)
- All the Participants should attend the event by preparing their model or poster or material with their own & display or present at allocated places in the venue by 9.00 am on 09-09-2022.
- 03 Prizes for each theme & the winners get Cash Prizes in the same day along with the certificate in valedictory function

## Registration Link:

<https://forms.gle/UgeQnWTOyX8rG8A29>

## Themes of the Event:

### 1. Presentation of Research Based Pedagogy Tools (RBPTs)

Reparation & RBPTs are charts or posters which are research oriented enquiries based approaches for teaching & learning. They are excellent tools for participatory peer learning among students. In order to prepare RBPT for any chosen topic, the following things need to keep in mind. First write a title for the chosen topic. Eg. If my chosen topic is DNA, then my title for RBPT may be: Molecular Basis for Inheritance of Traits in Living Organisms. Below that write the name/s, Group, College, Contact Number & Mail ID. Then describe the DNA structure in the form of Enquiries. Eg. What is the Genetic Material? Why it is genetic Material? How many strands it possesses? What are the Nitrogen bases it comprises? Etc. Finally give brief discussion & Conclusion that is relevant to the given title. More Details, Contact: **Dr. R. Haritha** - 7702203953; **Dr. Ch. Shanthi Devi** - 9052177822

Centre for Advanced Sciences  
(Biotechnology & Microbiology)

### 2. Clay Model Preparation

All the students should bring nicely colored models for chosen zoology topic or concept that are made with clay and should present in the venue provided. More Details, Contact: **Dr. Y. Poo Naidu** - 6261018431

Department of Zoology

### 3. Medicinal Plants for Human Health

All the students should bring nicely planted medicinal plant and should present in the venue provided and also need to describe their features as per taxonomical norms and its Medicinal Importance. More Details, Contact: **Dr. R. Rama Rao** - 9678903236

Department of Botany

### 4. Magic with Chemistry Exps

- Group entries are allowed. Each group can have maximum of 3 students
- The participant group has to demonstrate one magic with chemistry
- The participants have to bring required chemicals, glassware etc.
- Participants may register through the Google Form provided
- The decision of the Jury will be final

More Details, Contact: **Mr. Adi Narayana** - 9441387184, 9030706474

Department of Chemistry

### 5. Innovation and advances in Physics

Physics is one of the creative endeavors of daily human life. Prepared and creative minds are required to observe the needs in future perspectives. Change of one of mankind's most Mystery Creations he can change the world's future and Bond himself to the artificial should create in order, always to make future before than today. We invite the projects in advance technology, solar, electronics, Nanoscience, and related physics concepts.

More Details, Contact: **Dr. G V S Jayapal Rao** - 9492020115

Department of Physics & Electronics

### 6. Poster Presentation in "Impact of Digitalization in India"

Each college can send two participants

Participants may register through the Google Form provided

The Head of the Institution should certify that the participant is a student of the Institution, and the letter of authorization must be submitted in original at the time of Competition. Each participant can present their poster and explain it for 5 minutes. All candidates must be present at the time of Competition, failing which leads to disqualification. The medium of competition is English and Telugu. The decision of the Jury will be final.

More Details, Contact: **Mr. Raghu Ram** - 8886000063

Dept. of Computer Science & Applications

### 7. Mathematical Models

The process of creating a mathematical represents Real world scenario to make a prediction or provide insight. Real world, messy problems can be approach with mathematics, result in a range of a possible solutions to help guide decision making. Main to mathematical modeling can be true of as an interaction to process made of the following components. When considering the results and insights gained from the model, one asks if the answer make science, GOC(M) involving basics of the mathematical modeling, elements of a mathematical model and classification. We offer the construction of the model significance of the natural Sciences and more other classifications.

More Details, Contact: **Mr. R. Ravi Shankar** - 9010161319

Department of Mathematics



## Invitation

### GOVERNMENT DEGREE COLLEGE (MEN)-SRİKAKULAM

(Affiliated to Dr. B. R. Ambedkar University-Srikakulam &

Reaccredited by NAAC with B++ Grade of 2.36 CGPA)

[www.gcmakm.ac.in](http://www.gcmakm.ac.in)

## Zonal Level Science Exhibition

In View of

### Azadi Ka Amrut Mahotsav

Date: 09-09-2022

Sponsored by

ANDHRA PRADESH STATE COUNCIL OF

SCIENCE & TECHNOLOGY (APCOST)-Vijayawada

Ministry of Environment, Forest, Science & Technology, Andhra Pradesh



Organized by

## Science Association

Government Degree College (Men)-Srikakulam

## ABOUT THE COLLEGE

The Government Degree College, Srikakulam, the first and foremost College in the district was established in 1951 vide G.O Ms No.1887 of the Madras Government with the introduction of Intermediate Courses in 1951 and later upgraded to Government Degree College in 1954 with the introduction of undergraduate courses. This College was affiliated to Andhra University, Visakhapatnam and recently attached to the newly formed Dr. B.R. Ambedkar University, Eluru, Srikakulam. This was recognized by the U.G.C under 2(f) and 12(b) from 06-10-1989. The College possesses a spacious building with the Central Library being the largest among the three districts of Zone-I of A.P. In addition to the conventional courses several Restructured courses have been introduced in B.A and B.Sc. There is a great demand for subjects like Electronics, Microbiology and Bio-Technology. Students who joined these courses feel that they are really privileged and their enthusiasm and response are well reflected in their good performance in the University examinations. CBCS pattern with 5 semesters for UG has been introduced from the academic year 2015-16 with cumulative effect by APSCH. Various courses are introduced to suit the latest developments in the respective fields. Recently, B.Sc., Electronics & Com., Computers in UG and M.Sc., Botany in PG were introduced in the year 2015-16 in addition to M.Sc., Chemistry, M. Com. and M.A., Telugu. Efforts are being made to improve the laboratory facilities in all the newly introduced restructured courses. Staff members are also equipping themselves for the new branches by attending Refresher Courses and the training programmes conducted by the Universities and the Academic Staff Colleges. UGC is funding some of the major and minor research projects undertaken by some of the members of the staff of our College. Many of them have attended National Seminars and presented papers. Sequences of National Seminars/workshops are being conducted with the financial assistance of funding agencies like UGC and DBT. The Department of Biotechnology alone has conducted 03 national seminars & 01 Refresher Course in the academic year 2020-21. The Institution always encourages the faculty members to take up research work. The College has 16 Ph.D. holders and 10 M.Phil holders out of 56 faculty members. Another 09 faculty members are pursuing Ph.D., under FDP/part-time programme. The College was accredited for 1st cycle with B++ (CGPA 83.06) by NAAC in February, 2005 and re-accredited for 2nd cycle in August, 2011 with B Grade (CGPA 2.87). Recently College undergone 3rd cycle accreditation on 25th & 26th September 2017 and graded with B++ (CGPA 2.90).

## About the Science Association

Science Association is a consortium of science departments/faculty established in the college to coordinate and organize various science promotion and research activities in the college. One of the best activities that are

running by the association is Science Club. A science club is an out-of-class-hours club that offers students the chance to do science-related activities that extend and enhance the science they experience in the classroom. In addition to that the science association regularly conducting district level or state level science exhibitions and inspire camps to motivate young minds towards science education and research.

## About the APCOST

Recognizing the importance of Science & Technology for the overall Socio-economic development of State, during sixth five year plan, the Government of India desired to establish the State Councils and the responsibility is vested with the Department of Science & Technology (DST), Government of India. Accordingly, the DST performed catalytic role in establishing State Science & Technology Councils. The Government of Andhra Pradesh established the Andhra Pradesh State Council of Science & Technology (APCOST) during the year 1986. APCOST is an autonomous body registered under Societies Registration Act 1930 and working under the aegis of Environment, Forests, Science & Technology (EF&ST) Departments, Government of Andhra Pradesh. APCOST is having (1) General Council & (2) Executive Committee (EC). The Hon'ble CM - President of the General Council, Hon'ble Minister for EF&ST, Government of Andhra Pradesh, Chairman of Executive Committee, Principal Secretary of EF&ST, Government of Andhra Pradesh, Vice Chairman for Executive Committee & Member Secretary & APCOST- CEO to look after day to day activities.

After bi-furcation of State, APCOST is now operating its activities from APCOST- Regional Science Centre (RSC) Complex, Bhavanipuram, Vijayawada. APCOST is identifying the areas where Science & Technology can be applied for development activities and to achieve goals of the State, with a particular emphasis to eliminate poverty, unemployment. It was also felt necessary to establish effective Communication and other links between line departments and Co-ordinate the activities of Scientific and Technological Research in order to promote the S & T application.

## Aims & Objectives of the Event

The aim of the proposed event is to create awareness about recent science and technology inventions, their processes and their impact on the society or world through various competitions to the student community of in and around Srikakulam district.

To emphasize the role of S & T process in national integrity to the student community of the Srikakulam district which is one of the most under developed area in Andhra Pradesh.

To invite eminent scientists and academicians of various branches of sciences to enrich the knowledge of budding future scientists to promote networking. As a part of Azadi Ka Amrut Mahotsav & Nagasaki Day the event is going to create awareness on efforts of the Government for National Integrity through Science & Technology by conducting competitions in various aspects to reward the meritorious students

## ORGANIZING TEAM

Chief Patron



**Dr. Pola Bhaskar, IAS**  
Commissioner,  
APCOST-Vijayawada

Patron



**Dr. P. Surekha, Principal**  
Govt. Degree College (Men)  
Srikakulam

Convener



**Dr. Y. Poo Naidu**  
Science Association  
Govt. Degree College (Men),  
Srikakulam

Co-ordinator



**Dr. Ch. Shanthi Devi**  
Science Association  
Govt. Degree College (Men),  
Srikakulam

Member

**Sri M. Pradeep**  
Dept. of Biotechnology

Member

**Dr. P. Rama Rao**  
Dept. of Botany

Member

**Sri R. Ravi Shankar**  
Dept. of Mathematics

Member

**Sri D. Adinarayana**  
Dept. of Chemistry

Member

**Sri B. Raghu Ram**  
Dept. of Computer Science

Member

**Dr. G.V.S. Jayapala Rao**  
Dept. of Physics



## Photos















## GOVERNMENT DEGREE COLLEGE, TEKKALI

Under u/s 2(f) & 12(B) of UGC ACT, 1956

SRIKAKULAM DISTRICT, ANDHRA PRADESH – 532203

ACCREDITED WITH NAAC 'B' GRADE

Email ID: gdctkl.jkc1@gmail.com

AFFILIATED TO DR.BR.AMBADKER UNIVERSITY, ETCHERLA, SRIKAKULAM DISTRICT.

### Collaboration Between

Department of Chemistry,

Government Degree College - Tekkali, Srikakulam, 532203

And

Department of Chemical Sciences,

Government Degree College (Men), Srikakulam, Andhra Pradesh.

This Collaboration came into effect on 10.10.2021 between the Department of Chemistry, **Government Degree College - Tekkali, Srikakulam, 532203** with the approval of the Management and the Department of Chemical Sciences, **Government Degree College (Men), Srikakulam** with the permission of the Management keeping in view of sharing knowledge through the Cross Cutting Issues like establishing mutual interest in the field of research, education, training and development and dissemination of knowledge among the students. This Collaboration stands for making the students to recognize the role and the importance of higher education in promoting mutual collaboration, contribution to higher education and social development. The departments hereby agree to establish collaboration according to terms and conditions set out here under:

#### **Scope of Collaboration:**

The general purpose of this Collaboration is made between the two Departments of the above two institutions purely based on principles for a mutual benefit and it includes the following areas:


**Areas of cooperation:**

1. Joint research and educational activities.
2. Exchange of visiting faculty for purpose of conducting classes to motivate the students.
3. Exchange of scholarly information on relevant subject and potential joint projects wherever possible and appropriate.
4. Extending invitations to subject experts for attending seminars and presenting papers.
5. Exchange of students for the purpose of student diversity and to motivate the students.
6. Neither of the institutions is responsible for any financial support or expenses under this Collaboration

**General Terms:**

1. This Collaboration will be administered by the both departments of the institutions with the cooperation of Head of institutions.
2. This may involve other institutes by mutual consent.
3. This is not intended to and does not create any right, benefit, responsibility, enforceable by law or equity by either party.
4. This does not obligate either party to commit or transfer any funds or resources for any activities unless expressly stated in this Collaboration.

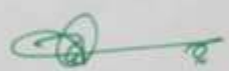
In-charge

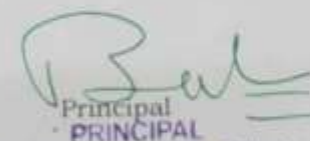
  
Department of Chemistry  
Govt. Degree College, Tekkali  
Agreed and signed

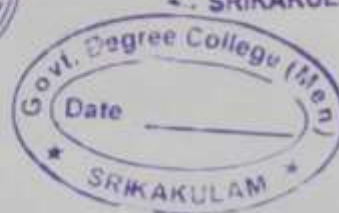
  
Principal  
Govt. Degree College, Tekkali  
PRINCIPAL  
Govt. Degree College  
TEKKALI-532 203



In-charge

  
Department of Chemical Sciences  
Govt. Degree College (Men), Srikakulam  
Agreed and signed

  
Principal  
PRINCIPAL  
Govt. Degree College (Men), Srikakulam  
SRIKAKULAM







## Government Degree College (M), Srikakulam



### Feedback

Name of the event	Zonal level Exhibition.
Department	chemistry
Date	9-9-2022
Name of student	P. Padmini
Class	III CBZ, GDC, Tekkali
Mobile no.	6281576582

1. Did the event fulfil its objectives?

✓  
Yes/ No

2. How useful was the event for you? (0 being Not useful and 5 Most useful)

0	1	2	3	4	5 ✓
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3. Rate the overall success of the event (0 being Not useful and 5 Most useful)

0	1	2	3	4	5 ✓
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4. List the key takeaway points from the events.

Learned procedure involved in the participation in such kind of exhibitions.

P. Padmini  
Signature of the Student,



## Government Degree College (M), Srikakulam



### Feedback

Name of the event	Zonal Level Exhibition
Department	Chemistry
Date	09/09/2022
Name of student	M. Santoshi
Class	III B.Sc (CBZ), GDC, Tekkali
Mobile no.	9347056365

1. Did the event fulfil its objectives?

✓ Yes/ No

2. How useful was the event for you? (0 being Not useful and 5 Most useful)

0	1	2	3	4	5 ✓
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3. Rate the overall success of the event (0 being Not useful and 5 Most useful)

0	1	2	3	4	5 ✓
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4. List the key takeaway points from the events.

Got good experience and satisfaction.

M. Santoshi  
Signature of the Student