

## **Activity with Dr. K Suresh Babu, (CUAT)**

Activity: Online Guest lecture at GDC-Palakonda

Topic: Fundamentals of Spectroscopy & Quantum chemistry

Date: 17/03/2023

**Resource Person: Dr. K. Suresh Babu, Associate Professor,  
Chemistry Department, CUAT**

### **Objectives:**

- 1 To motivate students by giving simple tricks to memorise and understand complex organic reactions
- 2 To make students understand different projection formulae of organic compounds
- 3 To improve confidence of students by providing important topics for the semester examinations.
4. To motivate the students for higher education at various university levels.

## Synopsis:

NMR spectroscopy is a technique that uses the magnetic properties of atomic nuclei to study the structure and dynamics of molecules. It involves applying a strong magnetic field and radio frequency waves to a sample, and detecting the signals emitted by the nuclei as they change their spin states. NMR spectroscopy can provide information on the chemical environment, connectivity, and conformation of atoms in a molecule, as well as their interactions with other molecules.

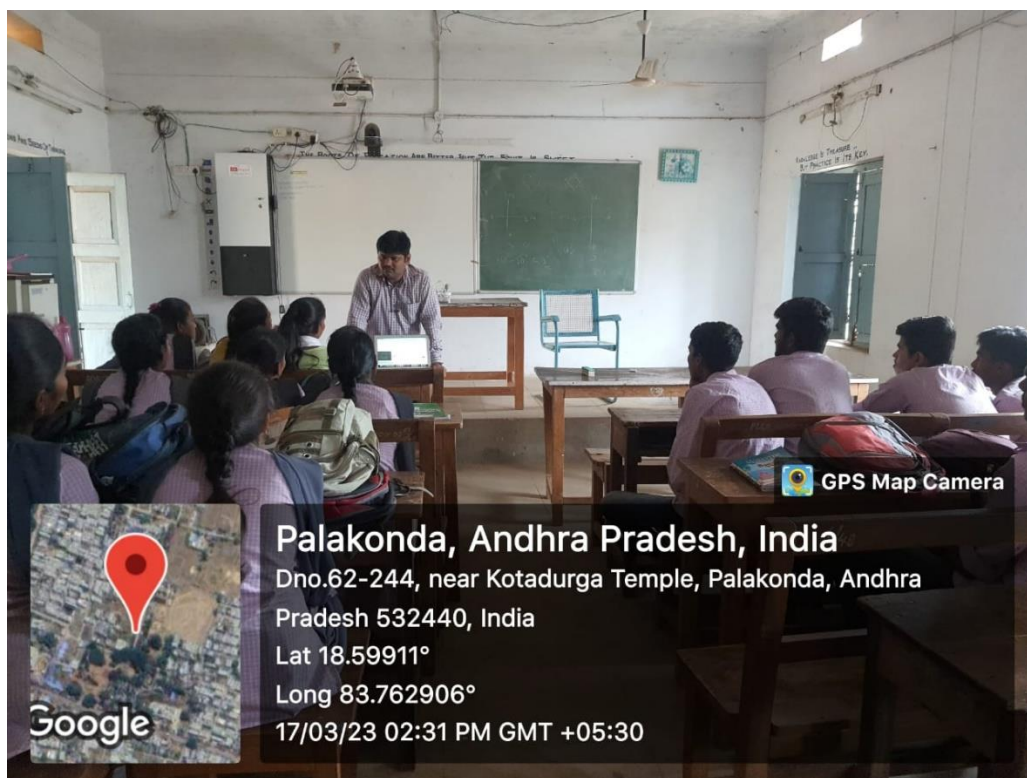
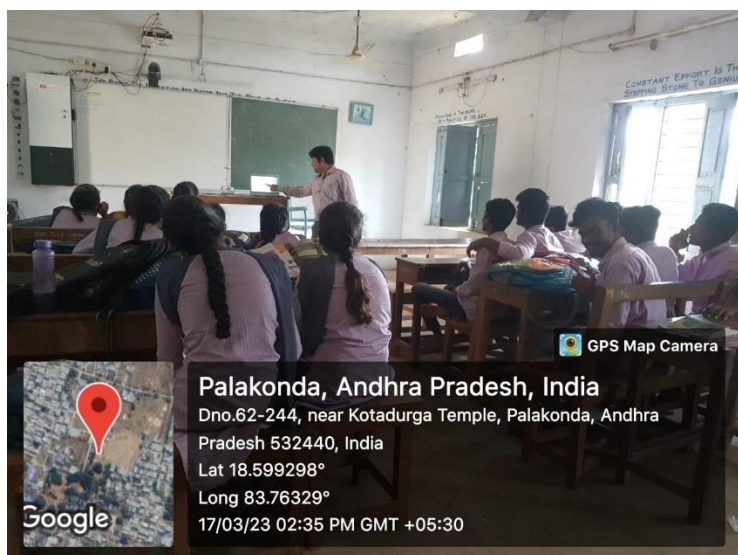
Some basic concepts of NMR spectroscopy are:

- The **chemical shift** is the measure of how much the resonance frequency of a nucleus deviates from a reference frequency. It depends on the electronic environment of the nucleus and the applied magnetic field. Chemical shifts are usually reported in parts per million (ppm) and can be used to identify different types of atoms and functional groups in a molecule.
- The **spin-spin coupling** is the interaction between the magnetic fields of neighboring nuclei that causes splitting of the NMR signals. The number and magnitude of the splittings depend on the number of equivalent nuclei and the coupling constant, which reflects the strength of the interaction. Spin-spin coupling can provide information on the connectivity and stereochemistry of atoms in a molecule.

There are many types of NMR experiments that can be performed to obtain different kinds of information from a sample. Some common examples are:

- The **1D proton NMR** is the simplest and most widely used NMR experiment. It records the NMR spectrum of the hydrogen nuclei in a molecule. It can provide information on the number, type, and environment of the hydrogen atoms, as well as their connectivity and stereochemistry.
- The **13C NMR** is another common NMR experiment that records the NMR spectrum of the carbon nuclei in a molecule. It can provide information on the number, type, and environment of the carbon atoms, as well as their connectivity and stereochemistry. However, the 13C NMR signals are usually weaker and broader than the 1H NMR signals, due to the lower natural abundance and lower sensitivity of the 13C nuclei.
- Schrodinger wave equation & basics of one dimensional box was discussed with students.

## Photo Gallery



Online lecture was being listened by the few students in the Chemistry laboratory as well as class room through laptop & their mobiles. 20 students of the 2<sup>nd</sup> year (BSc-MPC) have attended the overall lecture.





## **Activity with GDC Gummalakshampuram**

Activity: Guest lecture at **GDC Gummalakshampuram**

Topic: Spectroscopy: UV & IR Spectroscopy

Date: 11/10/2023

**Resource Person: Dr. A. Srinivasa Rao, Lecturer in  
Chemistry, GDC Palakonda**

### **Objectives:**

- 1 To motivate students by giving simple tricks to memorise and understand complex organic reactions
- 2 To make students understand different projection formulae of organic compounds
- 3 To improve confidence of students by providing important topics for the semester examinations.

## Synopsis:

### Principle of UV-Visible Spectroscopy:

- The principle of UV-visible spectroscopy is based on the interaction between light and matter.
  - A certain amount of light is reflected back to the surface.
  - The wavelength of light is known as the absorption maximum.
  - The amount of radiation is equal to the difference between the incident and transmitted radiation.
  - Transmittance is the ratio of incident radiation and transmitted radiation.
- 
- Beer-Lamberts law was discussed well elaborately

All the students of GDC Gummalakshmipuram (Both 3<sup>rd</sup> Semester & final year cluster students) attended for this guest lecture.





Certificate of participation has been issued by the principal of the GDC Gummalakshmpuram



## **Activity with S Thamminaidu Degree College, Palakonda**

Activity: Guest lecture at S Thamminaidu Degree College,  
Palakonda

Topic: Practical Skills & Experimental knowledge

Date: 12/05/2022

**Resource Person: Dr. A. Srinivasa Rao, Lecturer in  
Chemistry, GDC Palakonda**

### **Objectives:**

- 1 To motivate students by giving simple tricks to memorise and understand complex organic reactions
- 2 To make students understand different projection formulae of organic compounds
- 3 To improve confidence of students by providing important topics for the semester examinations.

## Synopsis:

- The brief discussion with students about 1<sup>st</sup> semester chemistry course
- The safety precautions in the laboratory
- The basic apparatus in the laboratory
- Cation & Anion identification details
- Lab manual & mutual discussion with the faculties

45 students of STN Degree College, Palakonda (1<sup>st</sup> semester students) attended for this guest lecture.









## **Activity with Veterinary :- Veterinary Velagawada**

**Topic :- Two months internship performed at Veterinary Velagawada**

**Date :- 16-08-2023 to 30/09/2023**

### **Objective: -**

To provide veterinary Health care and diagnostic Facilities

To provide quality breeding Services to enhance productivity

Upgradation and conservation of Indigenous breeds

quality control of feed Milk and Milk products.

Veterinary Extension Education and Training.

**Mentor: Sri P. Jammayya, Lecturer in Political Science, GDC Palakonda**

### **Synopsis: -**

The person who practices Veterinary Medicine by Treating diseases sicknesses and injuries in non -Human animals is called a veterinary doctor also know as Veterinary Surgeon or veterinary physician.



## Photos Gallery



The students have performed the treatment to the animal (Cow) under the supervision of veterinary doctor (Sri G. Naidu)



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PALAKONDA - 532440**

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Parvathipuram Manyam District, Andhra Pradesh



A special training programme was conducted at BOLLINENI MED SKILLS, RAGOLU.SKLM for all final year students for enhancing soft, employability skills and entrepreneurship skills.

Our college also collaborated with BOLLINENI MED SKILLS for train the students to enhancing employability skills.

**COLLABORATION OR LINKAGE  
BETWEEN  
GOVT.DEGREE COLLEGE, PALAKONDA  
AND  
BOLLINENI MEDSKILLS, SRIKAKULAM**

**PURPOSE:**

The purpose of the linkage between a BOLLINENI MEDSKILLS, SRIKAKULAM and GOVT.DEGREE COLLEGE, PALAKONDA creates a symbiotic relationship that enhances the overall educational experience, preparing students for successful careers in their chosen fields. It also contributes to the growth and development of both educational institutions and industries by fostering collaboration, innovation, and continuous improvement.

**TYPES OF COOPERATIONS:**

- ❖ Internship Programs:
- ❖ Curriculum Development:
- ❖ Joint Workshops and Seminars:
- ❖ Professional Certification Programs:
- ❖ Job Placement Services:
- ❖ Guest Lectures and Industry Talks:
- ❖ Exchange Programs:

**TERMS:**

This agreement will become effective upon the date of signature by both parties.

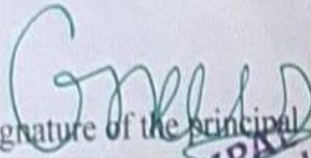
- 1.It shall remain valid for a period of 3 years from the date of last signature with the understanding that it may be modified or extended by written mutual consent by both parties.
2. This agreement may be terminated by either party with advance written notice of at least 30 days.


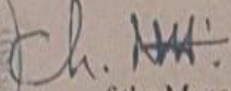
3. The agreement may be extended by mutual consent of the of the two parties after one year. And it must be renewed in writing.

This memorandum of understanding is hereby signed in 2 copies with one (1) copy reminding in the possession of each institution.

APPROVED FOR GDC PLKD

APPROVED FOR BOLLINENI MEDSKILLS

  
Signature of the principal  
GOVT. DEGREE COLLEGE  
PALAKONDA  
GOVT. DEGREE COLLEGE  
PALAKONDA  
Parvathipuram Manyam Dist.

  
  
Signature of the Manager  
BOLLINENI MEDSKILLS  
SRIKAKULAM

#### **OBJECTIVES OF THE PROGRAMME:**

- \* The Employability Training Programme aims to equip participants with the essential skills and knowledge necessary to enhance their employability and succeed in the dynamic job market.
- \* The primary objectives of this program are multifaceted. Firstly, it focuses on honing core employability skills, including effective communication, critical thinking, and problem-solving abilities, to empower participants in diverse professional settings.
- \* Secondly, the program aims to enhance participants' job-specific skills through targeted training modules, ensuring they acquire industry-relevant competencies and stay abreast of evolving job requirements.



- \* Thirdly, the program seeks to foster a strong work ethic, professionalism, and adaptability, instilling in participants the qualities that employers value in high-performing individuals.
- \* Additionally, the program prioritizes building self-confidence and resilience, recognizing their pivotal role in navigating the challenges of the modern workplace.
- \* By achieving these objectives, the Employability Training Programme endeavors to empower individuals to proactively shape their careers and contribute meaningfully to the workforce.









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## Electoral Literacy Club

Resolution

Date: 22-01-2023

The Electoral Literacy Club of the college has opined to observe National Voter's Day on 25-01-2023. In this regard, it is resolved to organize literary competitions on 23-01-2023 and 24-01-2023 to revamp the importance of registration on new voters, casting vote and ethical voting .

1. Essay Writing : Nothing Like Voting, I Vote for Sure
2. Elocution : Ethical Voting- True Democracy

Faculty Coordinator: Sri.N.Sankara Babu  
Lecturer in English

*N.Sankara Babu*

Members : 1) Sri.P.Jammayya  
Lect in Politics

*P.Jammayya*

2) Sri. P.Upendra  
Lect in Botany

*P.Upendra*

Student Coordinator:

Mr. A.Chandrudamma IIIIBA

*A.Chandrudamma*

Student Members:

Mr.K.Dileep, III BSc CBZ

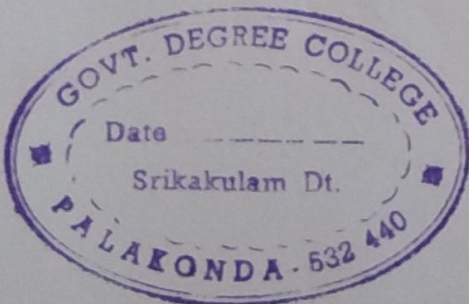
*K.Dileep*

Mr.D.Ramesh III B.Com

*D.Ramesh*

Mr. K.Ganesh III MPC

*K.Ganesh*







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**Circular**

**22-01-2023**

The Electoral Literacy Club of the college has opined to observe National Voter's Day on 25-01-2023. In this regard, it is resolved to organize literary competitions on 23-01-2023 and 24-01-2023 to revamp the importance of registration on new voters, casting vote and ethical voting Therefore all the students are informed to avail this opportunity without fail.

**Faculty Coordinator:** Sri.N.Sankara Babu

Lecturer in English

**Members** 1) Sri.P.Jammayya

Lect in Politics

2) Sri. P.Upendra

Lect in Botany

**Student Coordinator:**

Mr. A.Chandrudamma IIIIBA

Student Members:

Mr.K.Dileep, III BSc CBZ

Mr.D.Ramesh III B.Com

Mr. K.Ganesh III MPC

I B A P J

II B A

III B A

I M. P. C

II M. P. C P. Ramesh

III M. P. C

I B Z C

II B Z C P. Ramesh

III B Z C

I B. Com P. Ramesh

II B. Com

III B. Com P. Ramesh





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To  
The Principal  
Government Degree College  
Palakonda

Palakonda  
22-01-2023

Respected sir,

**Sub:** Seeking permission to conduct National Voter's Day -Request- Regarding.

The Electoral Literacy Club of the college has opined to observe National Voter's Day on 25-01-2023. In this regard, it is resolved to organize literary competitions on 23-01-2023 and 24-01-2023 to revamp the importance of registration on new voters, casting vote and ethical voting I Hence we humbly request you to consider our submission and accord permission for conducting National Voter's Day on 25-01-23.

We shall be highly grateful to you for the kind of your kindness.

Thanking your sir.

Faculty Coordinator: Sri.N.Sankara Babu N.S.S.

Lecturer in English

Members : 1) Sri.P.Jamayya

Lect in Politics

2) Sri. P.Upendra

Lect in Botany

Student Coordinator:

Mr. A.Chandrudamma IIIBA

Student Members:

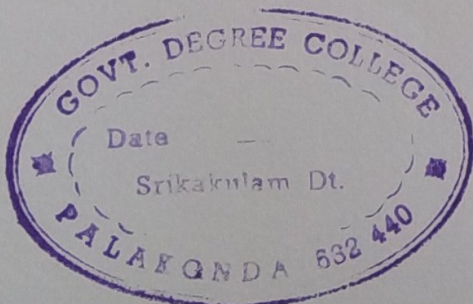
Mr.K.Dileep, III BSc CBZ

Mr.D.Ramesh III B.Com

Mr. K.Ganesh III MPC

Yours faithfully

N.S.S.







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Students are displaying placards with slogans.

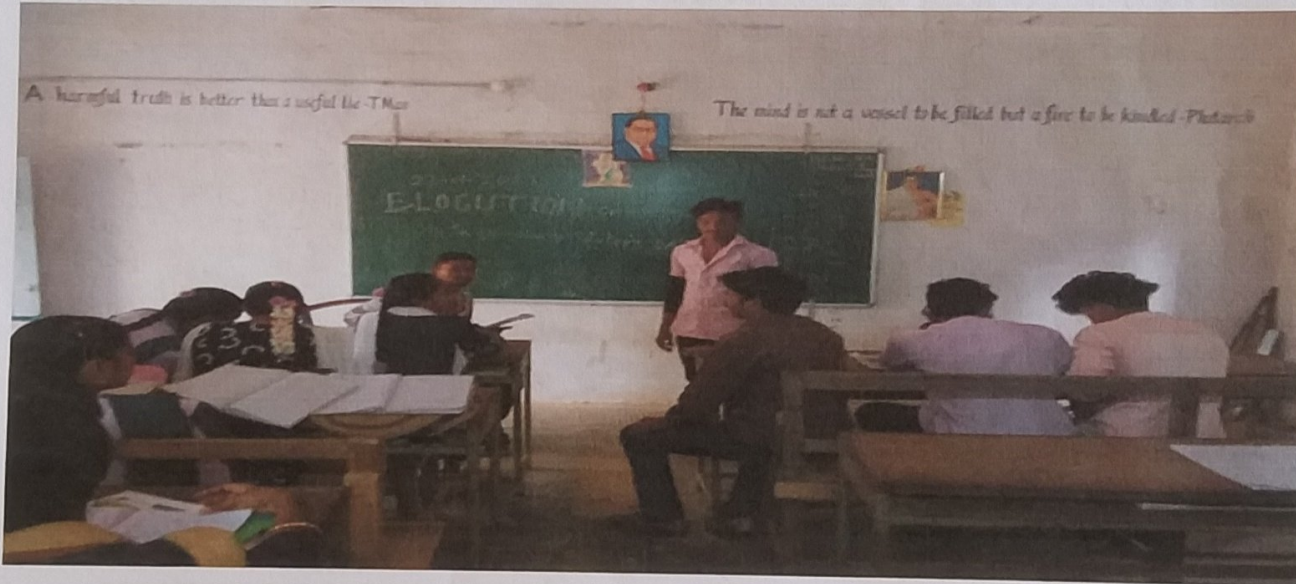


NSS unit –I and II of the college took a rally along with the principal, staff and students in the streets of Palakonda to inculcate awareness on casting vote.





Students participated in Rangoli



Elocution competition:





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Essay writing competition

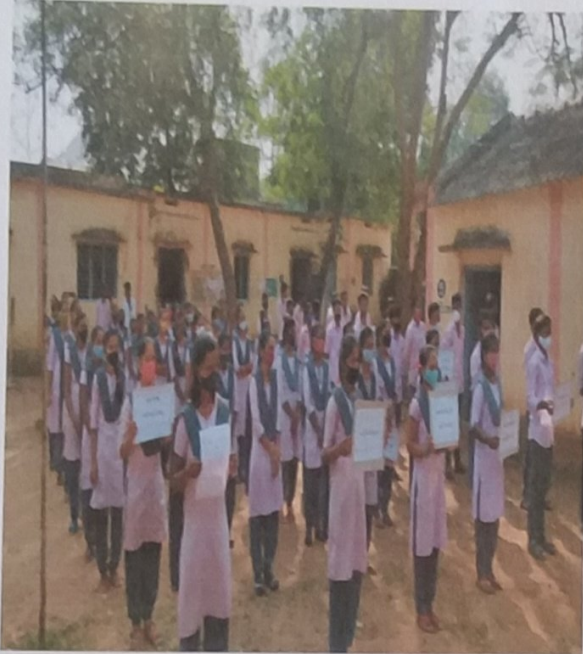


Principal of the college Dr.G.Janardhana Naidu is addressing the students on the occasion of National Voter's Day.





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Students displaying placards of slogans



Staff and students taking a rally.

**ELC CLUB IS INCULCATING AWARENESS ON VOTE REGISTRATION AND ETHICAL VOTING**





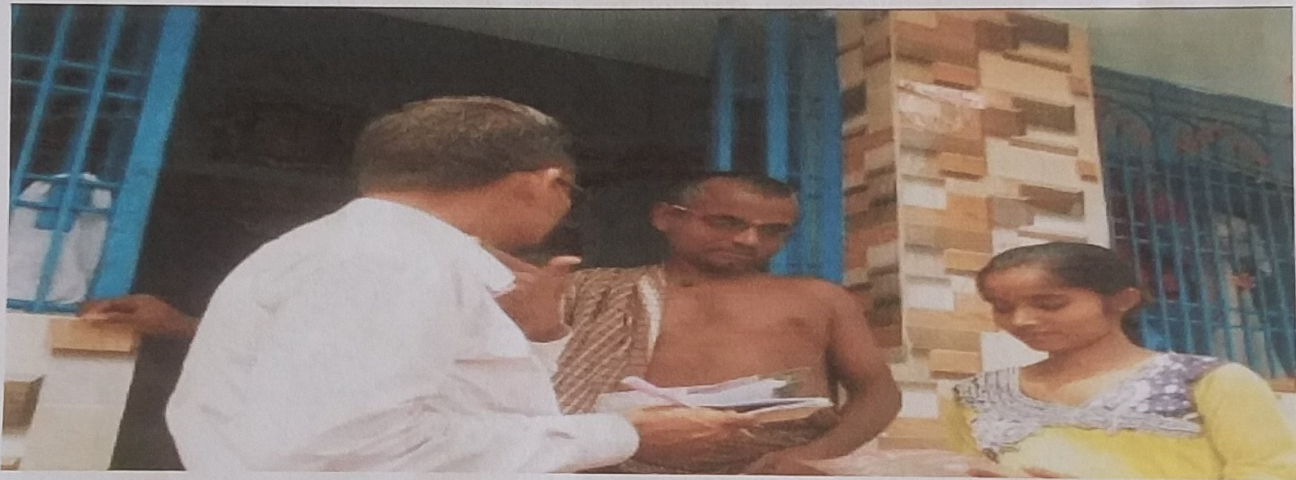


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Motivating the denizens of Palakonda towards vote casting and ethical voting



Sensitizing the denizens of Palakonda towards vote casting and ethical voting.





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Handing over Vote registration application to MRO sir Sri. Someswara Rao



Handing over Vote registration application to Election DT of Palakonda Revenue Office



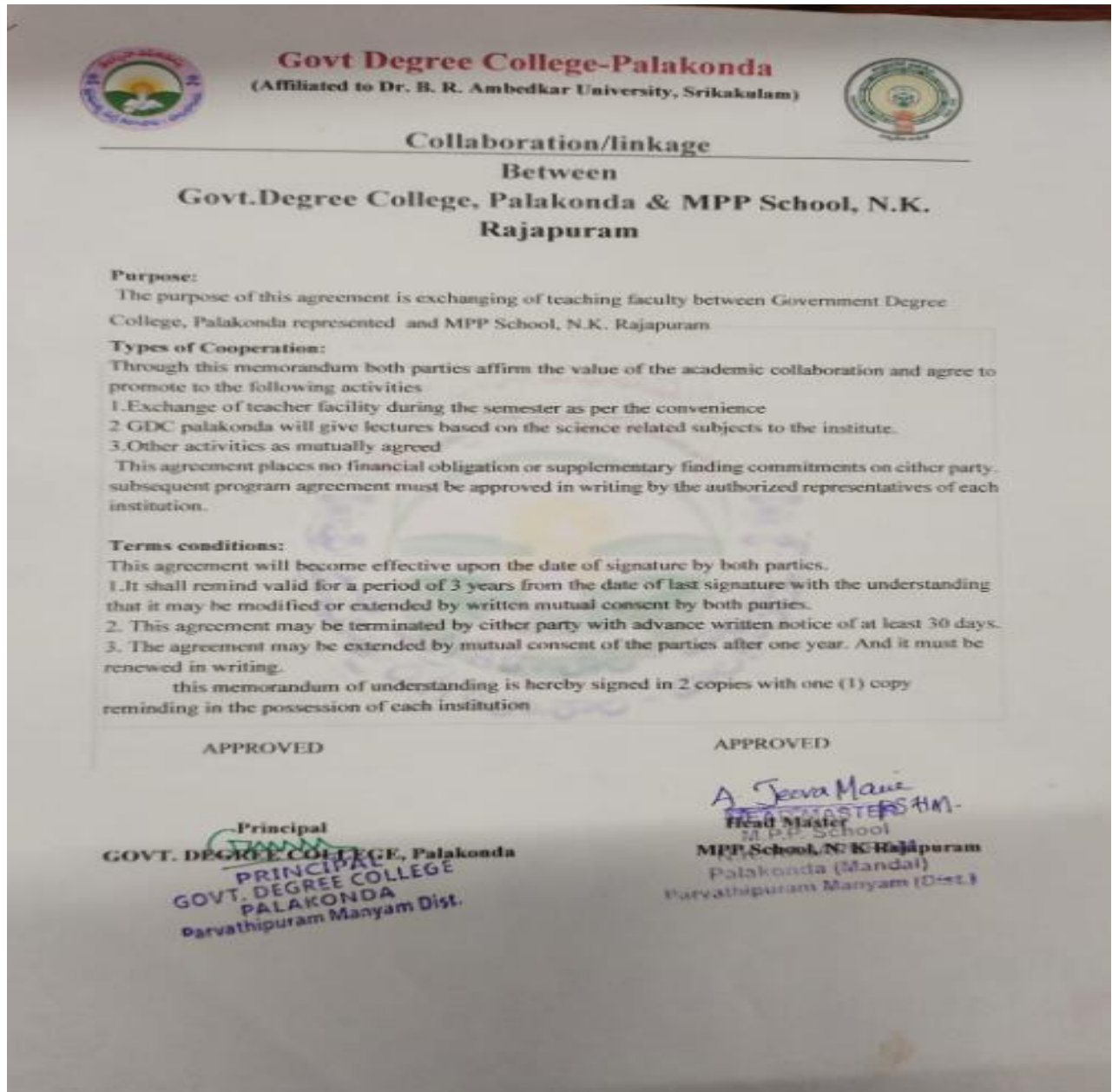


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GOVERNMENT DEGREE COLLEGE PALAKONDA PHYSICAL EDUCATION DEPARTMENT ORGANISED A PROGRAMME ON 10/08/2023 AT MPP SCHOOL, NK RAJAPURAM FOR YOGA PRACTICE.

LINKAGE WITH GDC PLKD AND MPP SCHOOL, NK RAJAPURAM







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1. **Education and Awareness:** To educate students about important global issues, sustainable development goals, and the role they can play in creating positive change.
2. **Skill Development:** To provide students with opportunities to develop various skills, such as leadership, teamwork, communication, problem-solving, and critical thinking.
3. **Inspiration and Motivation:** To inspire students to pursue their passions, set ambitious goals, and believe in their ability to make a difference in the world.
4. **Cultural Exchange:** To foster a sense of global citizenship by promoting understanding and appreciation of different cultures, perspectives, and backgrounds.
5. **Community Engagement:** To encourage students to actively engage with their local and global communities, promoting a sense of responsibility and social consciousness.
6. **Career Exploration:** To introduce students to various career paths related to global development, humanitarian work, and other fields that contribute to positive social impact.
7. **Networking Opportunities:** To provide a platform for students to connect with professionals, mentors, and organizations in the field of global development.
8. **Interactive Learning:** To facilitate hands-on, interactive activities and workshops that enhance the learning experience and allow students to apply theoretical knowledge to real-world scenarios.
9. **Empowerment:** To empower students with the knowledge and skills needed to be proactive contributors to positive change in their communities and beyond.
10. **Collaboration:** To encourage collaboration among students, teachers, and external partners, fostering a sense of teamwork and shared responsibility for creating a better world.







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## **Activity with Ravindra Bharathi School, Palakonda**

Activity: Open visit of students to Chemistry laboratory

Date: 16/02/2023

**Host Dept: Chemistry Department.**

### **Objectives:**

- 1 To motivate students by giving simple tricks to memorize and understand complex organic reactions
- 2 To make students understand different projection formulae of organic compounds
- 3 To improve confidence of students by providing important topics for their examinations.



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Students of Ravindra Bharathi School have visited our lab and discussed few important experiments.





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Our teaching faculties Dr. A. Srinivasa Rao, Dr. S. Jagan Mohana Rao & Ms M. Prasanthi have instructed about safety rules as long as working in the laboratory.



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## **Activity with State Bank of India, Palakonda**

**Awareness of filling up of slips for rural citizens.**

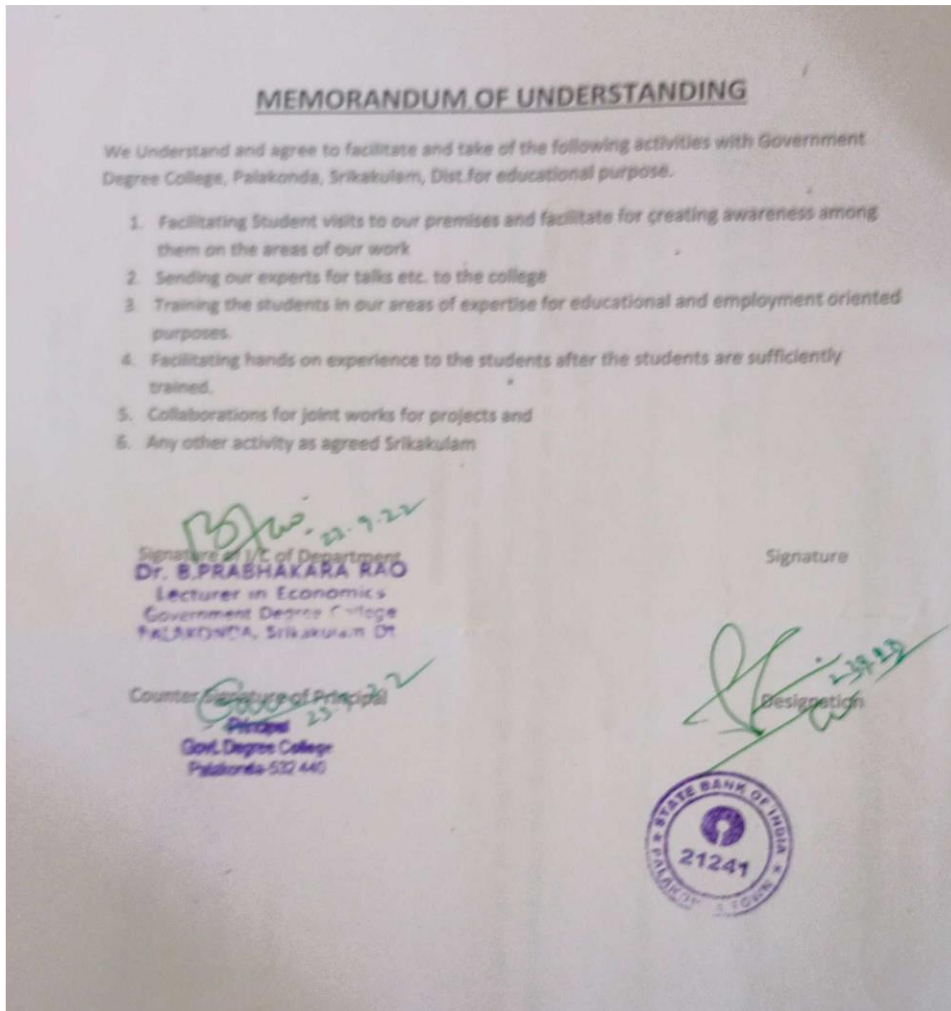
**Department: Economics, GDC Palakonda.**

### **Objectives:**

- 1. Understanding the banking system**
- 2. Usage of banking apps for less waiting at banks**
- 3. Helping the rural illiterates.**



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The students of BA & BCom of our college people usually attends the Bank for busy hours so that they help the bank customers such as filling of slips, and arrange the customers in a proper Q line. By making the above linkage mutual exchange of knowledge was shared and help.





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Students are helping the bank customers for filling the vouchers.



**DEPARTMENT OF BOTANY**

**Linkage to Another college**

ACADEMIC YEAR

**2022 -2023**



**GOVERNMENT DEGREE COLLEGE**

**PALAKONDA**

**PARVATHIPURAM MANYAM DISTRICT**



**GOVERNMENT DEGREE COLLEGE  
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Accredited with NAAC 'B' Grade  
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**Collaboration/linkage  
Between**

**Govt. Degree College, Palakonda & S.S.N Degree College, Rajam**

**Purpose:**

The purpose of this agreement is exchanging of teaching faculty between Government Degree College, palakonda represented by head of the department of Botany and the same department of S.S.N Degree College, Rajam.

**Types of Cooperation:**

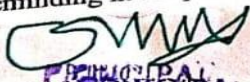
Through this memorandum both parties affirm the value of the academic collaboration and agree to promote to the following activities

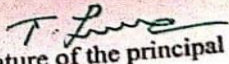
1. Exchange of teacher faculty during the semester as per the convenience
2. The faculty of Botany S.S.N degree college- Rajam, will give lecture cum demonstration based on Field related subjects.
3. GDC- Palakonda will give lectures based on Laboratory related subjects to the S.S.N Degree College students.
4. Preparation of models, Herbarium, Specimens and other activities as mutually agreed.
5. This agreement places no financial obligation or supplementary finding commitments on either party. Subsequent program agreement must be approved in writing by the authorized representatives of each institution.

**Terms & Conditions:**

This agreement will become effective upon the date of signature by both parties.

- It shall remain valid for a period of 3 years from the date of last signature with the understanding that it may be modified or extended by written mutual consent by both parties.
- This agreement may be terminated by either party with advance written notice of at least 30 days.
- The agreement may be extended by mutual consent of the two parties after one year. And it must be renewed in writing.
- This memorandum of understanding is hereby signed in 2 copies with one(1) copy remaining in the possession of each institution.

  
Signature of the principal  
GOVT. DEGREE COLLEGE PALAKONDA  
Srikakulam (Dist.)

  
Signature of the principal  
S.S.N DEGREE COLLEGE-RAJAM  
PRINCIPAL  
Sri S.S.N. Degree College  
Palakonda Road, RAJAM  
Dist. - 532 127





## PHOTO GALLERY

