

# GOVERNMENT DEGREE COLLEGE NARSAPUR, MEDAK DISTRICT, (TS).

## DEPARTMENT OF CHEMISTRY



# HEARTY WELCOME TO NAAC PEER TEAM



**FROM: TEACHING STAFF AND STUDENTS.**

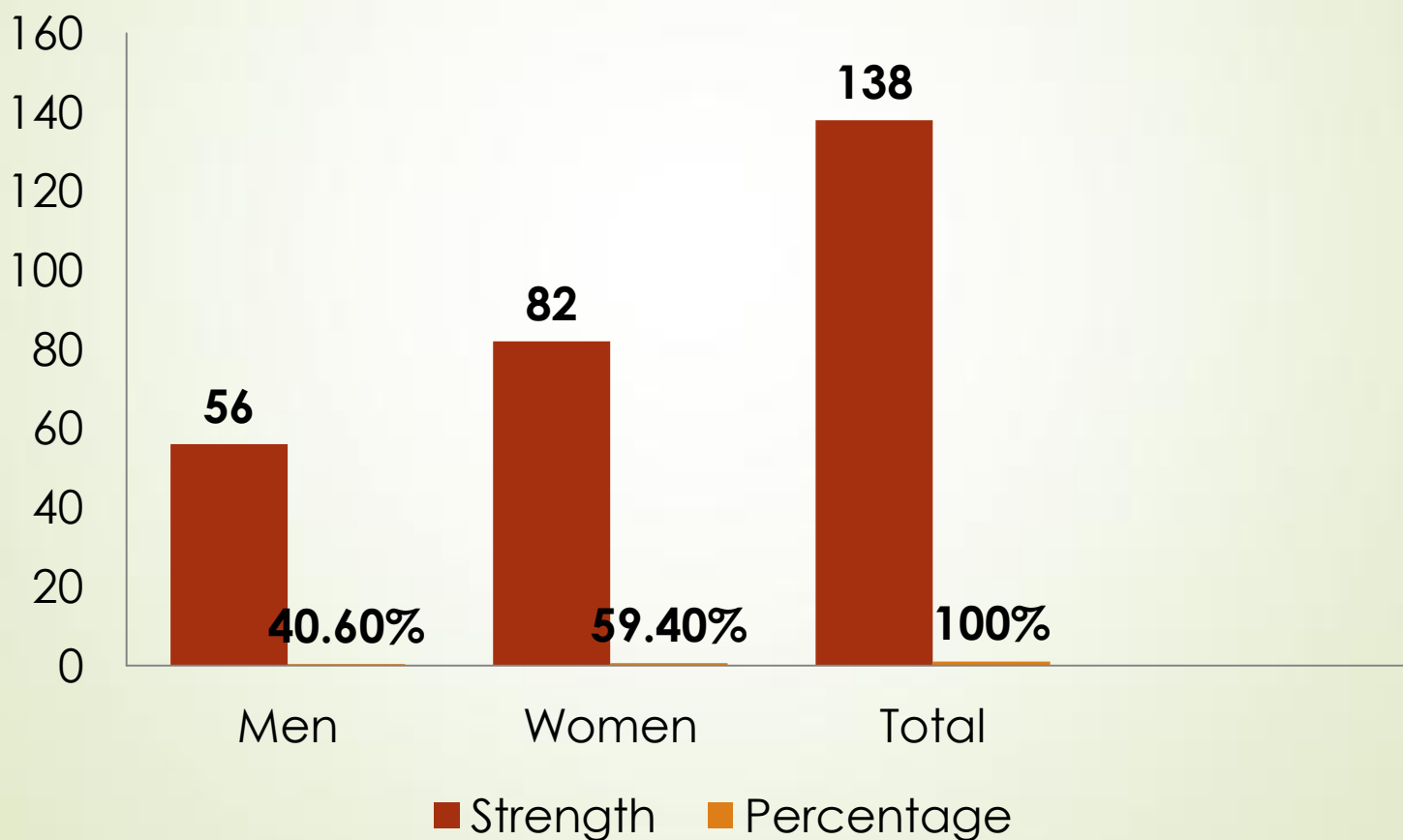


# DEPARTMENT OF CHEMISTRY

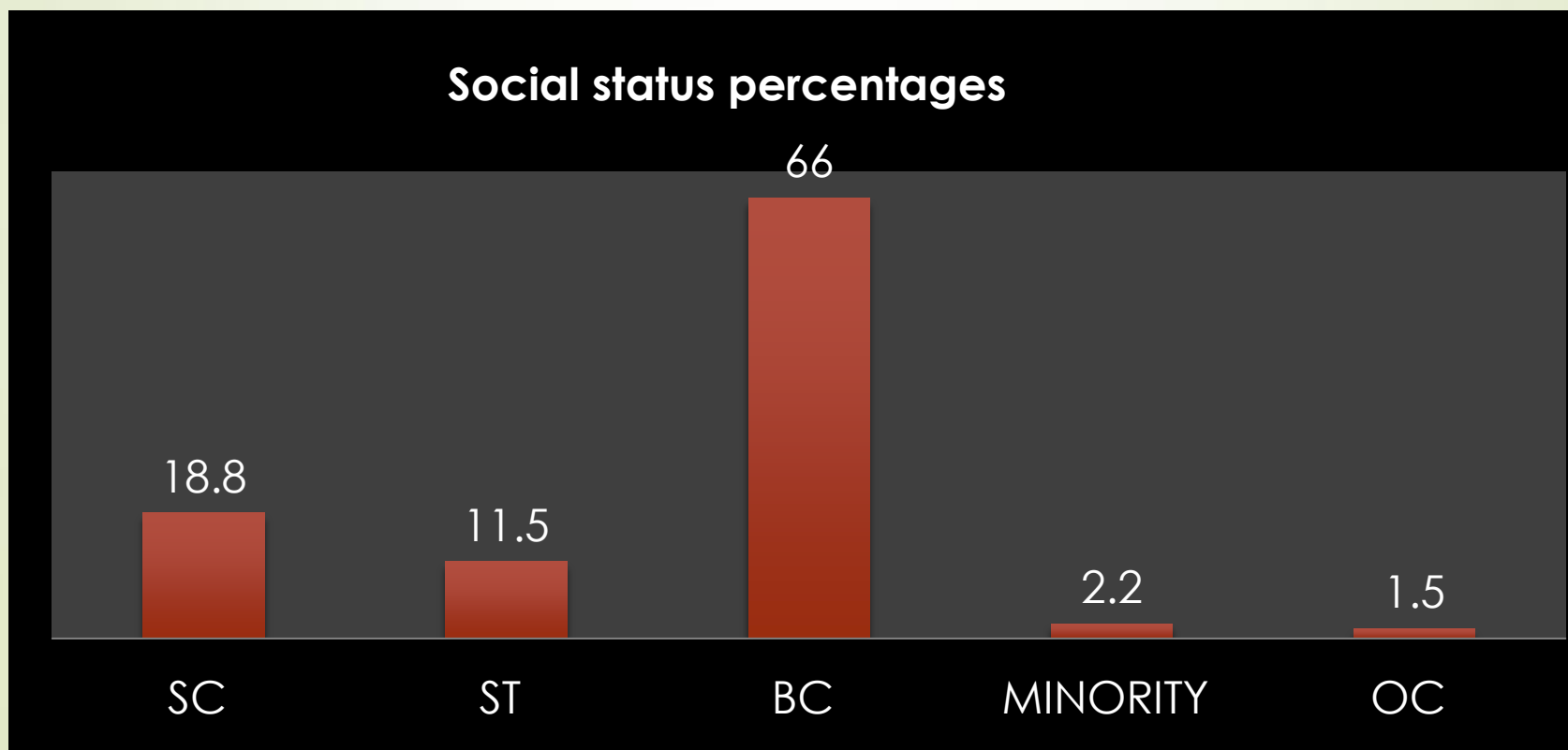
## About the Department:

- Chemistry department was established in 2008 at GJC building Narsapur town in Medak district.
- It was shifted to this new building on 25<sup>th</sup> November 2017.
- The department is well established and well equipped.
- CBCS is being implemented in 2016 -17 with Physical Sciences & Life Sciences.
- It has a computer with internet facility.
- Classes are taught through Lecture method and ICT.
- Every year pass percentage of Chemistry subject is higher than Osmania University results.
- Chemistry department arranges Field Trips and Guest lectures.
- Departmental Library provides notes, text books & previous Q.Ps.
- Number of Sanctioned posts: 01

- Courses offered: MPC, MCCs & BZC groups (TM & EM)
- Students strength in above courses for the academic year 2021–22 is **138** ⇒ Men = 56 (**40.6%**), Women = **82** (**59.4%**)



	<b>SC</b>	<b>ST</b>	<b>BC</b>	<b>MINORITY</b>	<b>OC</b>	<b>TOTAL</b>
Total number of students	26	16	91	03	02	<b>138</b>
Percentage	18.8	11.5	<b>66.0</b>	2.2	<b>1.5</b>	<b>100</b>




From our Chemistry department, five students were selected for **State Level Jignasa – Student Study Projects**. This group gave a presentation at **IPGDW Hyderabad** for the academic year 2021–22, which was organised by CCE, TS, Hyderabad.



**V. Priyanka, M. Manisha, P. Nagarani, G. Deepika and V. Bhavani**

## FACULTY PROFILE

S. No	Name	Qualifications	Experience	Photo
01	Sri L. NARENDER	M. Sc., M. Ed	14 Years in GJC 12 Years in GDC	

## WORKLOAD STATEMENT

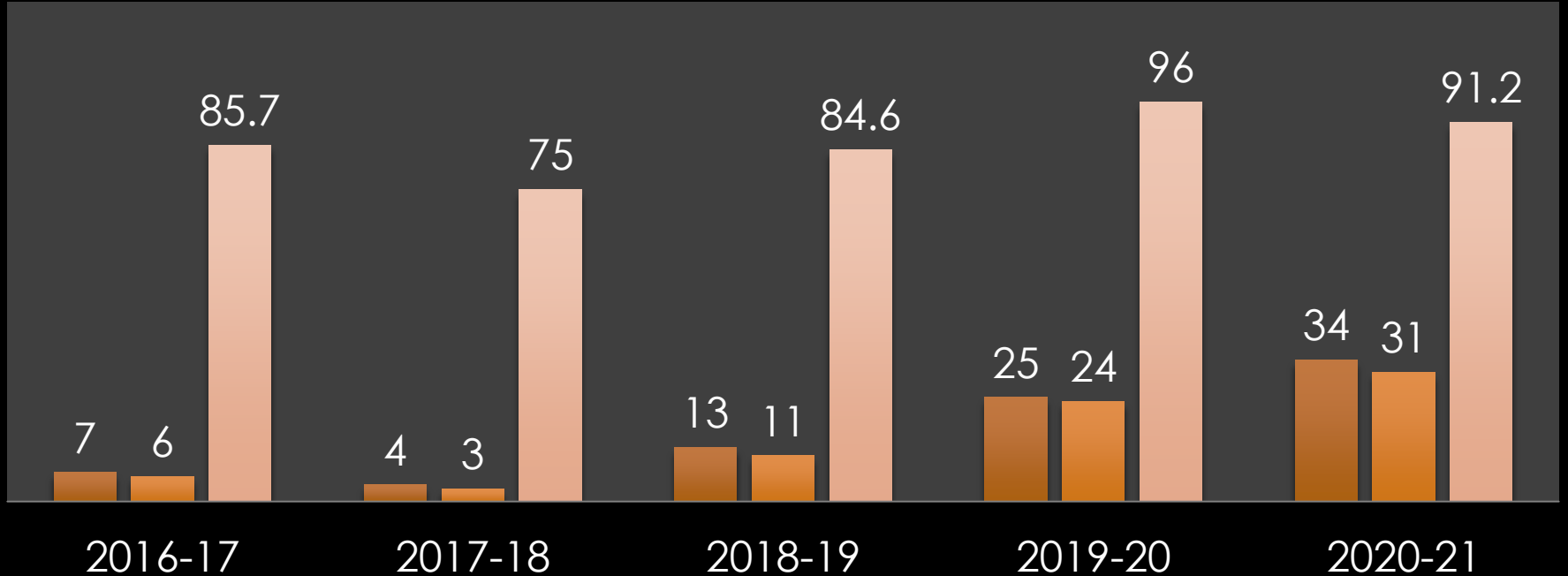
Name of the Lecturer	Theory (Per week)	Practical (Batches X Hours) (Per week)	Total Periods (Per week)
1. Sri. L. NARENDER	18 Hours	6 Hours (3 x 2)	24 Hours

**Chemistry  
Dept.  
Final Year  
Results  
2016-17  
to  
2020-21**

Year	Appeared	Passed	Percentage
2016-17	07	06	85.7%
2017-18	04	03	75.0%
2018-19	13	11	84.6%
2019-20	25	24	96.0%
2020-21	34	31	91.2%

### Final year Results

■ Appeared ■ Passed ■ Percentage





## CURRICULAR ACTIVITIES / ASPECTS

### 1. Annual curricular plan (ACP)

- The college is affiliated to Osmania University.
- We follow the syllabus as per Osmania University.
- Semester wise annual curricular plan is prepared at the beginning of the academic year.
- In the departmental meeting, we discuss the review of the syllabus and results. We take the necessary steps to complete the syllabus as per the schedule.

# TEACHING - LEARNING AND EVALUATION

## Innovative Teaching methods:

- Use of Chalk-talk method. (Lecture method)
- Demonstration method
- ICT teaching method. (YouTube videos & PPTs)
- Internal assessment test, slip test, unit test and study hour.
- Providing study material.
- Encouraging students to refer general text books.
- Group discussion and quiz competition.
- **Seminars:** Students select the topic of their choice and present it.

**T-SAT (MANA TV) NIPUNA** is available to the students to watch lectures by chemistry experts. Now it is not being telecasted by the CCE-Hyderabad from the last two years due to COVID-19

**Extension Lectures:** Every year the Department arranges Extension / Guest lectures for the benefit of the students.

## YouTube videos

Faculty creates YouTube video classes and send their links to students.  
Students can watch them at their convenience.

**NAME OF THE LECTURER: L. NARENDER**

S.No.	Name of the topic	YouTube link
1	Alkenes	<a href="https://youtu.be/aKsi9LcWeh0">https://youtu.be/aKsi9LcWeh0</a>
2	Aromatic Hydrocarbons	<a href="https://youtu.be/TVWj378ydmQ">https://youtu.be/TVWj378ydmQ</a>
3	MOT Part - 1	<a href="https://youtu.be/NCmx6Axfz0Y">https://youtu.be/NCmx6Axfz0Y</a>
4	MOT Part - 2	<a href="https://youtu.be/K22qOX8VuRU">https://youtu.be/K22qOX8VuRU</a>
5	HSAB	<a href="https://youtu.be/XAg8qq2vrUM">https://youtu.be/XAg8qq2vrUM</a>
6	Compounds Of Xenon	<a href="https://youtu.be/nb0nR4nrbqE">https://youtu.be/nb0nR4nrbqE</a>
7	Pseudo Halogens	<a href="https://youtu.be/m318dp2uLhQ">https://youtu.be/m318dp2uLhQ</a>
8	13 Group Elements	<a href="https://youtu.be/HIs5q3qNHTc">https://youtu.be/HIs5q3qNHTc</a>
9	15 Group Elements	<a href="https://youtu.be/lyK8x3xZDbw">https://youtu.be/lyK8x3xZDbw</a>
10	Carbides And Silicones	<a href="https://youtu.be/okhFHHItJTg">https://youtu.be/okhFHHItJTg</a>
11	Ethers	<a href="https://youtu.be/XHFI5ahFXQ0">https://youtu.be/XHFI5ahFXQ0</a>
12	Oxides of Carbon and Nitrogen	<a href="https://youtu.be/XQ-5v0NfIWQ">https://youtu.be/XQ-5v0NfIWQ</a>
13	Inter Halogen Compounds	<a href="https://youtu.be/5VWIbNt_FJg">https://youtu.be/5VWIbNt_FJg</a>
14	Adsorption	<a href="https://youtu.be/a7KnoyEavYA">https://youtu.be/a7KnoyEavYA</a>
15	Halogen Compounds	<a href="https://youtu.be/kOGnpUDh6Gs">https://youtu.be/kOGnpUDh6Gs</a>
16	Classification of Oxides	<a href="https://youtu.be/nzmvzz1u6GM">https://youtu.be/nzmvzz1u6GM</a>
17	Metal Carbonyls	<a href="https://youtu.be/3TkUIBzRgmo">https://youtu.be/3TkUIBzRgmo</a>
18	Phenols	<a href="https://youtu.be/YnTxMQQzOb0">https://youtu.be/YnTxMQQzOb0</a>
19	Carboxylic Acids	<a href="https://youtu.be/s8VVxeYNOLE">https://youtu.be/s8VVxeYNOLE</a>
20	Aliphatic Amines	<a href="https://youtu.be/GTibPJlf3lo">https://youtu.be/GTibPJlf3lo</a>
21	Nitro Alkanes	<a href="https://youtu.be/p6JYkmFQra8">https://youtu.be/p6JYkmFQra8</a>
22	Amino Acids	<a href="https://youtu.be/NHVD6kXPpMA">https://youtu.be/NHVD6kXPpMA</a>

## Extension / Guest lectures

The following extension lectures are arranged.

<b>S. No</b>	<b>Date</b>	<b>Name and Designation of the Resource Person</b>	<b>Topic Covered</b>	<b>Class</b>
1	03-09-2018	Sri Md. Azahar Pasha Lecturer in Chemistry Sri Nidhi Degree College, Tandur	Molecular Orbital Theory	B.Sc I Year (MPC & BZC )
2	20-11-2021	Sri A. Venu Gopal Rao Lecturer in Chemistry GDC Medak	Nitro hydrocarbons	B.Sc II Year (MPC, MCCs & BZC )
3	18-05-2022	Sri D. Ashok Kumar Asst. Prof. of Chemistry P.G College, Siddipet	Drugs and General Chemistry	B.Sc III, II, I Year (MPC, MCCs & BZC

**GUEST LECTURE DELIVERED BY SRI D. ASHOK KUMAR, PG COLLEGE SIDDIPET.**



# GUEST LECTURE DELIVERED BY SRI MD. AZAHAR PASHA, SRI NIDHI D C, TANDUR



**SRI A. VENU GOPAL RAO, GDC MEDAK**



**Student Seminars:** Students will select the topic of their choice and present it. Most of the students actively participated in the seminars.

S. No	Date	Name of the Student	Class	Topic
1	22-09-2018	G. Anusha	B. Sc III Sem	F-Block elements
2	15-09-2018	V. Akhila	B. Sc I Sem	Molecular Orbital Theory
3	08-10-2018	M. Vinod Kumar	B. Sc III Sem	Stereo Chemistry of Car C
4	27-02-2019	M. Vamshi Krishna	B. Sc IV Sem	Coordination Compounds
5	01-03-2019	Hafeeza	B. Sc IV Sem	Pericyclic Reactions
6	22-11-2021	E. Ashwini	B.Sc III Sem	Werner's Theory
7	01-12-2021	B. Maneesha	B. Sc V Sem	H <sup>1</sup> NMR
8	08-12-2021	Ch. Chandrashekar	B.Sc IV Sem	CFT
9	06-01-2022	V. Priyanka	B.Sc I Sem	Dienes
10	04-02-2022	P. Bhanu Prasad	B. Sc V Sem	Column Chromatography
11	12-02-2022	G. Supraja	B. Sc V Sem	Gas Chromatography
12	14-02-2022	N. Sandhya	B.Sc I Sem	Alkanes

# STUDENT SEMINAR:

Govt. Degree College - Narsapur  
Dept. of Chemistry  
Student Seminar

Topic: 1,1,2 Trisubstituted ethane ( $\text{CH}_3\text{X}-\text{CH}_2\text{Y}-\text{CH}_3$ )

Name: B. Maneesha  
Group: BSc (MPC) 3<sup>rd</sup> year

2-Set R of protons

$-\text{CH}_2- \Rightarrow \delta = 4.1 \Rightarrow \text{H} = 2$  (broad) ( $\delta = 4.0$ )

GOVERNMENT DEGREE COLLEGE - NARSAPUR  
DEPARTMENT OF CHEMISTRY  
STUDENT SEMINAR

TOPIC: Werner's Theory

NAME: E. Ashwini  
CLASS: 2<sup>nd</sup> YEAR  
ROLL NO: GOR2-20145-515

→ 2 ರೂಪ: i) ಪೂರ್ವ ಕೋಶ  
ii) ಔಚ್ಚತಮ ಕೋಶ

iii)  $\text{CoCl}_3 \cdot 5\text{NH}_3$  :-

iv)  $\text{CoCl}_3 \cdot 3\text{NH}_3$

Govt. Degree College, Narsapur  
Dept. of Chemistry  
Student Seminar

Topic: Merits of CFT

⇒ CFT explain colour properties of complex

⇒ CFT is used to know the stability of complex using CFSE value

⇒ CFT explain why d orbitals of central M<sup>n+</sup> are split into 5 energy

Government Degree College, Narsapur  
Subject: Chemistry

Topic: R-S configuration

R-Rectus (clock wise)  
S-Sinister (Anti clock wise)

Ex: Lactic Acid

L-Lactic Acid

R-Lactic Acid

R-configuration

S-configuration



**Quiz Program:** Quiz questions are prepared at the end of each lesson. Students are divided into 3 or 4 groups & we encourage them to participate in QP.



## INTERNAL ASSESSMENT TEST

We conduct IATs as per the Osmania University schedule



**Field Trip:** B.Sc Chemistry students visited Sri Balaji Pipes Industries Ltd, Medak. They understood the process of manufacturing of HDPE & LDPE pipes.



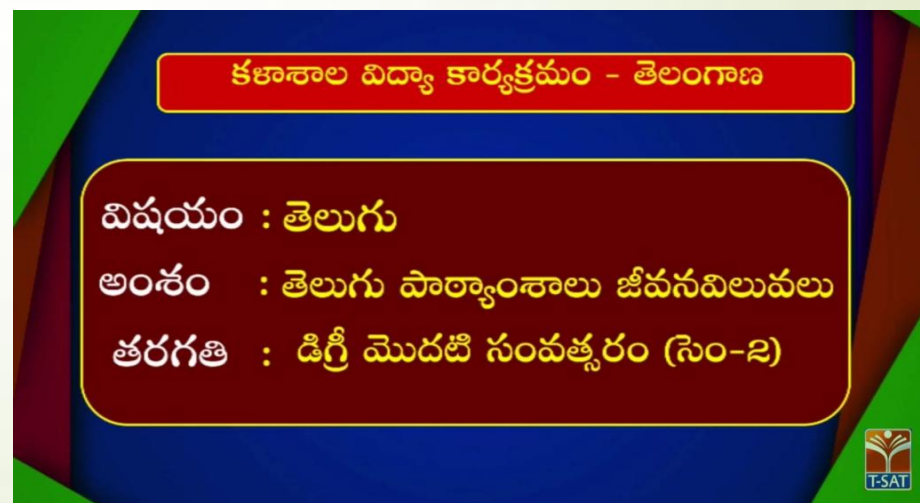
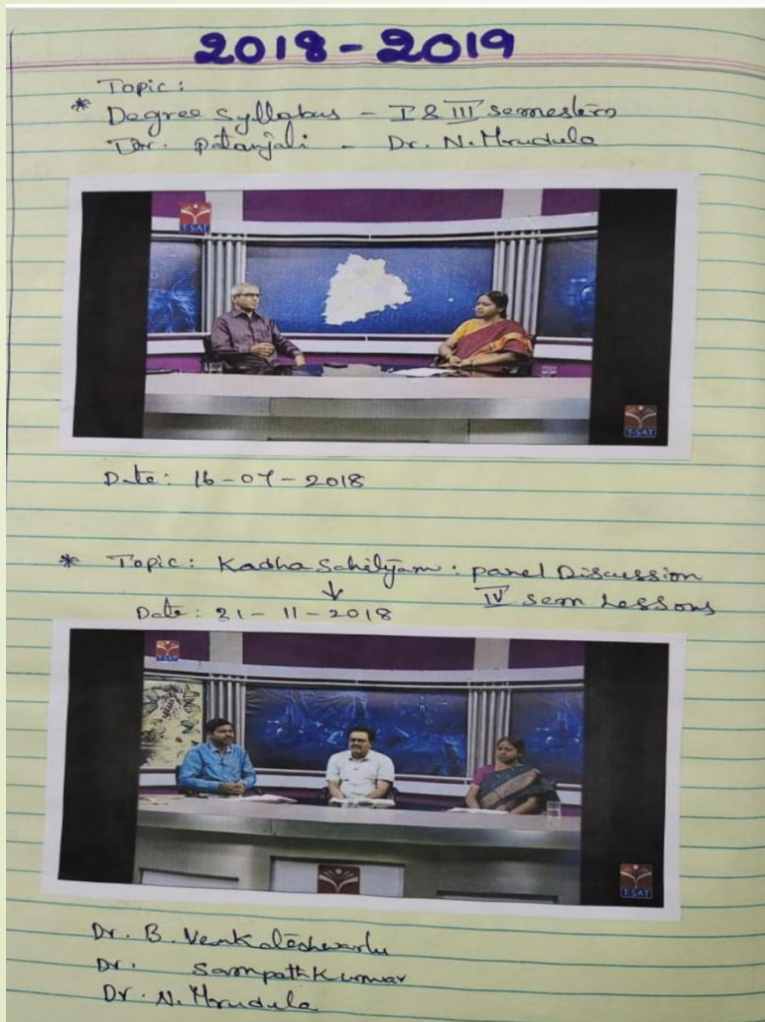
**Jivika Sugar Factory, Sitharampur (V), Narsapur (M)**



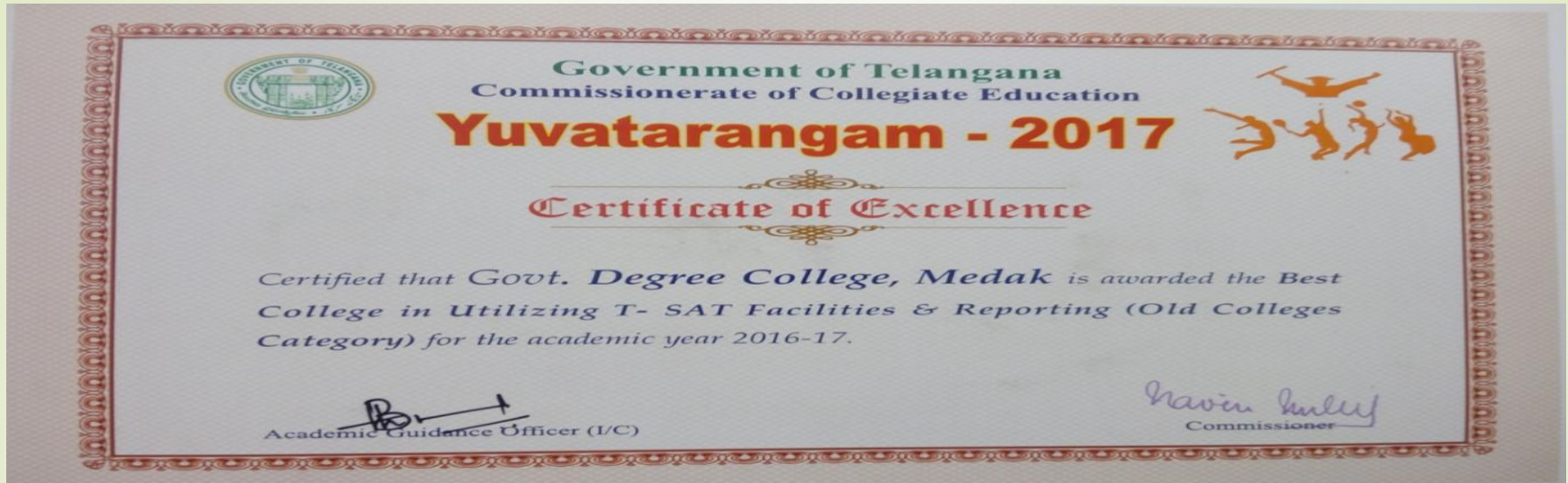
**T-SAT (MANA TV) NIPUNA:** From our college, a few lectures and students were selected for T-SAT Nipuna. They delivered their lectures effectively through the T-SAT live telecasts.

**Dr.N. MRUDULA, Asst. Prof. of Telugu**

**D. VIJAYALAXMI, STUDENT**



In Yuvatharangam 2017, I was awarded for the category, “**Best College in Utilizing T-SAT Facilities and Reporting**” for the academic year **2016-2017** while I was working at GDC Medak



## RESEARCH ACTIVITY

- The following projects were done by students under research work.
  - Determination of Hardness of water in water samples
  - Preparation of Bio-fertilizer from kitchen waste.
  - The contents present in cold drinks.

# Determination of hardness of water samples (STUDENT STUDY PROJECT)





# INFRASTRUCTURE

Chemistry Department has set up a lab within classroom utilizing available infrastructure to facilitate practicals for students .

- Lab is well equipped with required amount of chemicals and glassware.
- Computer with internet facility.
- Charts and PPTs.
- Fire extinguisher.
- Department provides notes, text books, study materials and previous question papers.

# STUDENTS IN CHMISTRY LABORATORY

DEPARTMENT OF CHEMISTRY



## STUDENT SUPPORT PROGRAMMES

### Feedback on all activities:

- Feedback from the students is taken for all the activities from time to time and it is analyzed.
- Steps are taken to improve the quality of activities in due course of time.
- Suggestions from the students are consolidated and implemented for their benefit.

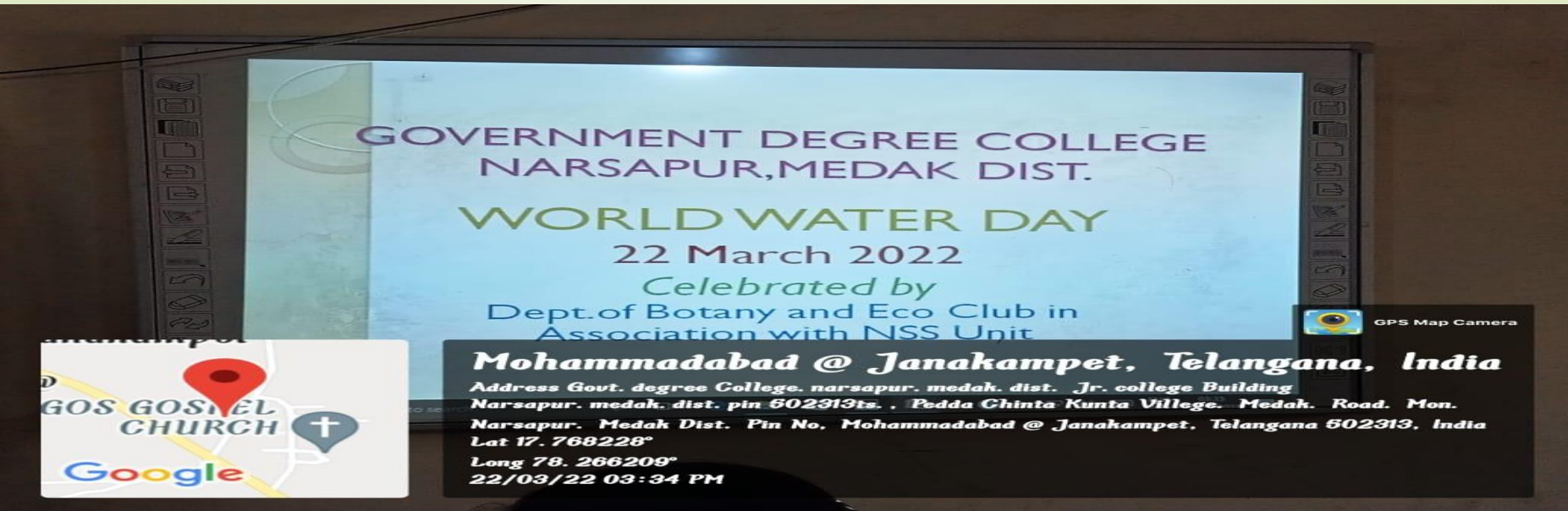
### CAREER GUIDANCE :

- Students approach the department for their future career guidance, they are advised to choose different career choices.
- Students are motivated for higher studies such as P.G, B. Ed courses and other competitive exams.

## ORGANIZATION & MANAGEMENT

- Departmental meetings are conducted regularly to check out the action plan of the department.
- I involve actively in committees of the college to help the college administration and for the college development.
- Lecturer updates his knowledge by attending Refresher course, Orientation course, Workshops and Seminars.
- Students involve in the community service through various programs like Haritha Haram, Swacch Kalasala, Awareness programs on World water day, World forest day, International Yoga day and NSS etc.,

# COMMUNITY SERVICE





Mohammadabad @ Janakampet  
 Telangana  
 India  
 35°C  
 95°F  
 2022-03-21 (Mon) 02:45 (PM)



**Mohammadabad @ Janakampet, Telangana, India**  
 Address Govt. degree College, narsapur, medak, dist. Jr. college Building Narsapur, medak, dist. pin 502313ts. , Pedda Chinta Kunta Vilage. Medak. Road. Mon. Narsapur. Medak Dist. Pin No. Mohammadabad @ Janakampet, Telangana 502313, India  
 Lat 17. 7682°  
 Long 78. 266163°  
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## FUTURE PLAN

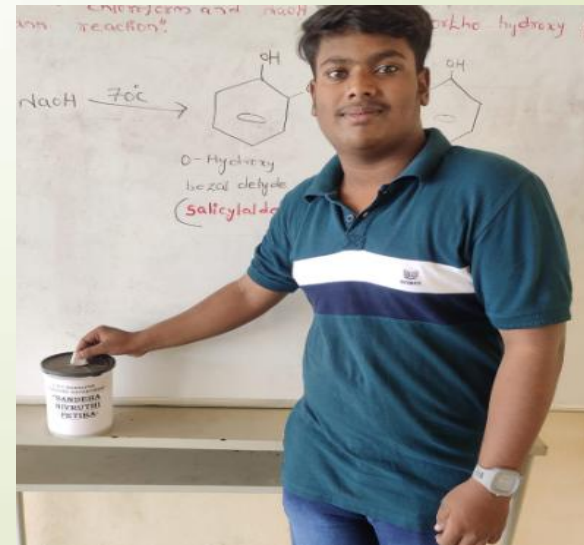
- To plan for separate room for lab.
- To purchase latest necessary equipment for laboratories.
- To purchase latest reference books.
- To establish a Chemistry Club with the neighbouring college lecturers to improve skills regarding the syllabus.
- To provide PG entrance coaching for students and encourage them for higher studies.
- To guide the students for job opportunities.



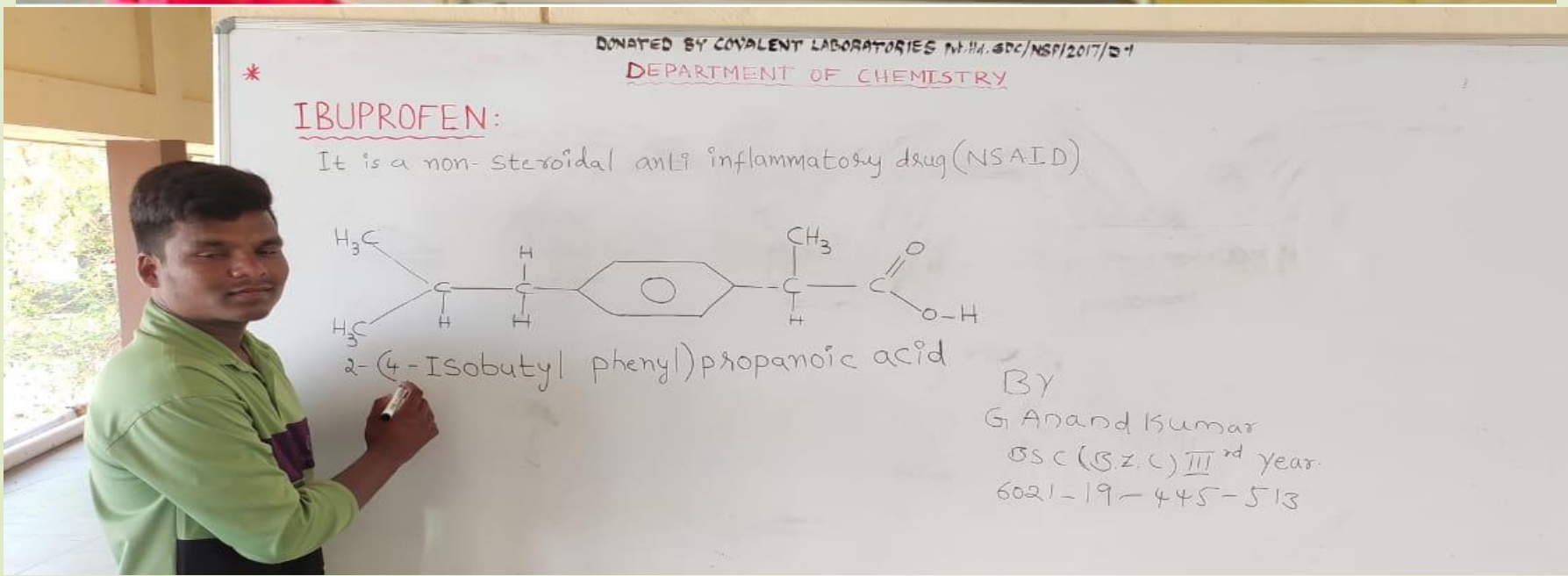
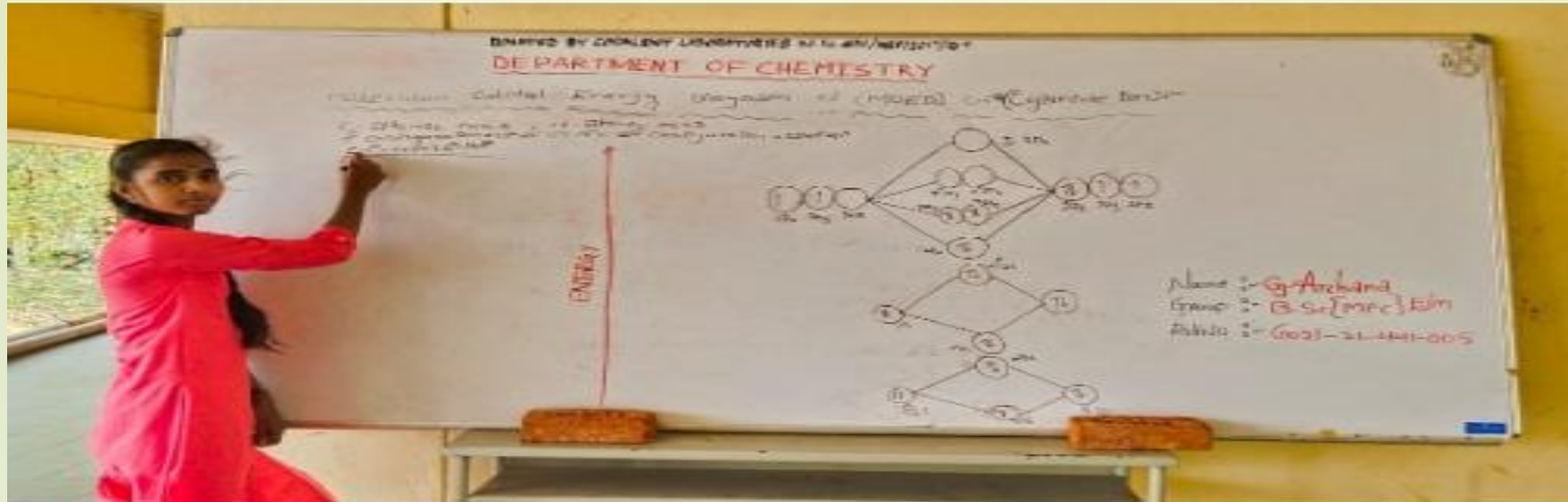
## BEST PRACTICES

- Remedial classes for academically backward students.
- Study Projects are assigned to bright students every year.
- Group discussion and Quiz Programs are conducted to improve the peer learning.
- Student Seminars are organized to improve comprehension and presentation skills.
- **“SANDEHA NIVRUTHI PETIKA”** to clarify the doubts of students, for those students who can't ask their doubts in the class room.
- Computer with free Internet Access.
- Weekly twice students write one chemical equation on college notice board which helps them to improve knowledge.

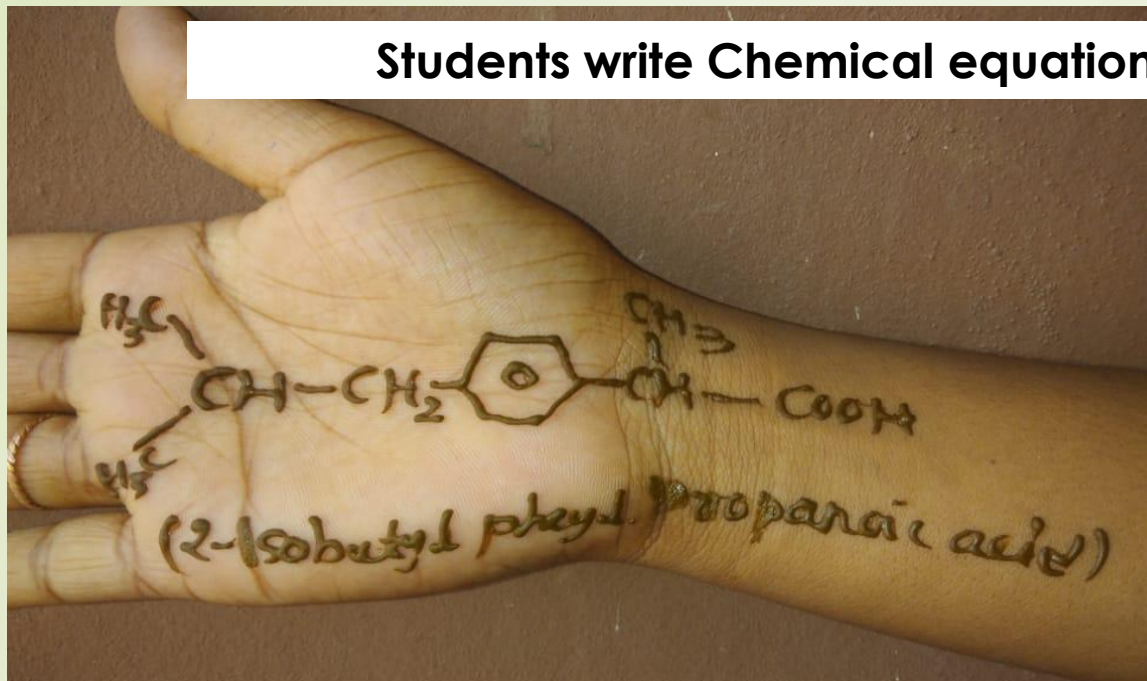
# DOUBTS CLARIFICATION BOX (SANDEHA NIVRUTHI PETIKA)



# WRITING CHEMICAL EQUATION ON THE DEPARTMENT NOTICE BOARD



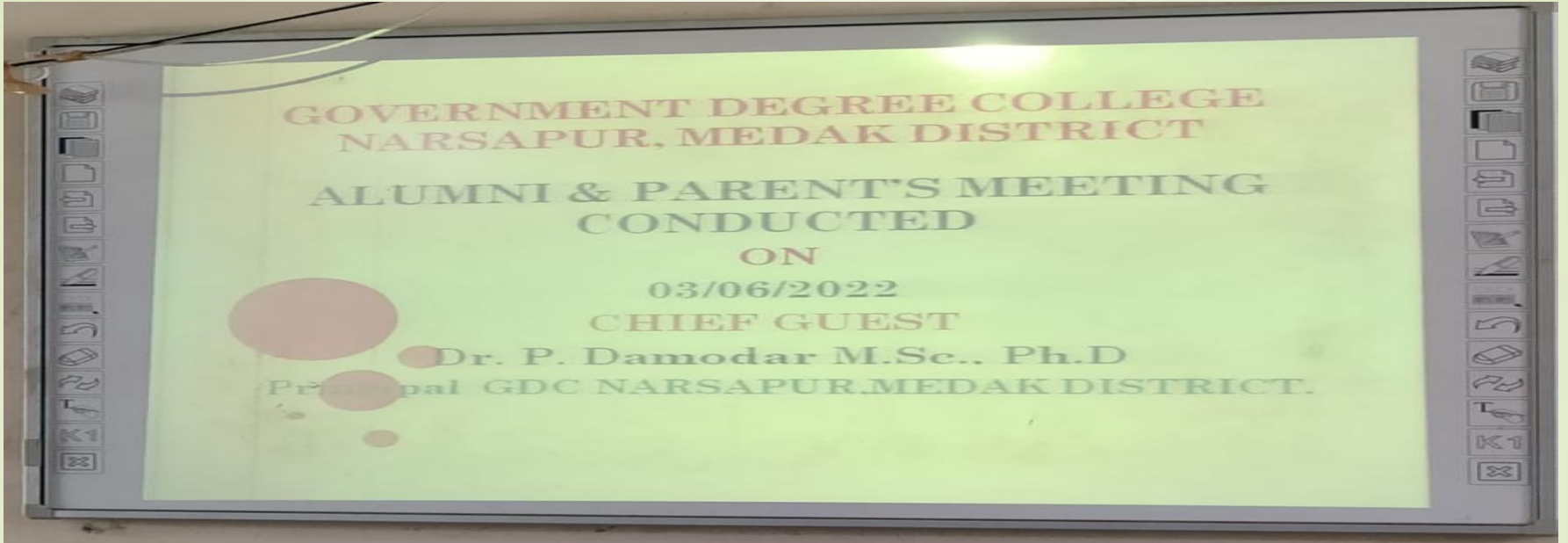
# Students write Chemical equation on their hands



**ALUMNI****SELECTED CANDIDATES FOR P.G AND B. Ed**

<b>S. No</b>	<b>NAME OF THE CANDIDATE</b>	<b>COURSE / SUBJECT</b>	<b>Present Status</b>
1	<b>G. DURGA PRASAD</b> ( Degree: 2017 – 20 )	<b>M.Sc Chemistry (Org)</b>	<b>Tara Govt. Degree &amp; PG College, Sangareddy</b>
2	<b>D. VIJAYA LAKSHMI</b> ( Degree: 2017 – 20 )	<b>M.Sc Chemistry (Org)</b>	<b>Govt. PG College, Narsapur</b>
3	<b>T. CHANDRA TEJA</b> ( Degree: 2018 – 21 )	<b>M.Sc Chemistry (Org)</b>	<b>Govt. PG College, Narsapur</b>
4	<b>M. VINOD KUMAR</b> ( Degree: 2017 – 20 )	<b>M.Sc Zoology</b>	<b>Govt. Degree &amp; PG Siddipet</b>
5	<b>G. ANUSHA</b> ( Degree: 2017 – 20 )	<b>MA Psychology</b>	<b>Nizam College, Hyderabad</b>
6	<b>V. PAVANI</b> ( Degree: 2018 – 21 )	<b>MA</b>	<b>Hyderabad</b>
7	<b>V. KALPANA</b> ( Degree: 2017 – 20 )	<b>B.Ed</b>	<b>Shanaz College of Education</b>

# ALUMNI





**THANK YOU**