

**SRI VENKATESHWARA GOVERNMENT ARTS AND SCIENCE  
COLLEGE, PALEM**

**Department of Chemistry**



**Welcome to  
NAAC PEER TEAM**



# Overview

- **Vision, Mission & Objective**
- **Brief History & Information**
- **Curricular aspects**
- **Teaching-Learning**
- **Student Support and Progression**
- **Research, Innovations and Extension**
- **Infrastructure and Learning Resources**
- **Governance, Leadership and Management**
- **Institutional Values and Best Practices**

# Vision, Mission & Objective



## Vision

- Impart value based quality education
- Preparing Students for a diverse and changing world
- Promote scientific temper



## Mission

- To educate students for understanding chemical principles involved in Chemical Sciences.
- Make students aware about the global changes in the Science Stream.



## Objective

- To motivate the students from different socio-economic rural background.
- To strengthen the students practical knowledge.
- To impart quality education with discipline

# Brief history & Information

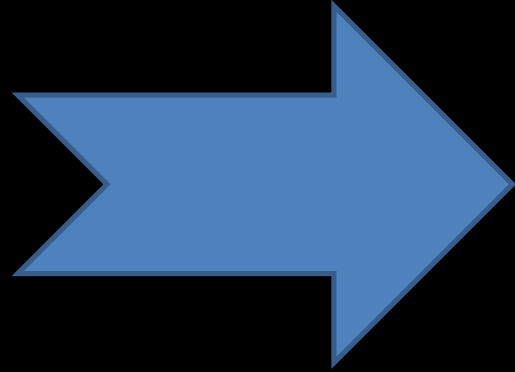
Department of CHEMISTRY was established in 1963. Since its inception, the Department was recognized for teaching in the various areas of Chemistry. A well balanced curriculum having theory and practical and qualified faculty has been the hall mark of this Department since its inception. The Department offers an undergraduate program which is in affiliation with palamuru University, Mahabubnagar.

The Department has also implemented the Choice- based Credit System for grading B.Sc students since the year 2016, which offers flexibility in the structuring and assessment of courses..The overall goal of Chemistry Department has been to impart quality education at under-graduate level along with continuous efforts on basic and applied aspects of Green Chemistry

**Department In charge : D. SHIVA**



<b>Name of the Faculty</b>	<b>D.SHIVA</b>
<b>Date Appointment</b>	<b>15-09-2009</b>
<b>Date of birth</b>	<b>21-12-1985</b>
<b>Post Graduate M.Sc Chemistry</b>	<b>Completed in 2009 under Osmania University of Hyderabad</b>
<b>A.P.SET</b>	<b>APSET Qualified in 2013 under Osmania University of Hyderabad</b>
<b>Address</b>	<b>H.No : 6-3-59/1 Hanman nagar (Street) Sadasivpet (M) Sangareddy (Dist) Telangana 202291.</b>



**CURRICULAR  
ASPECTS**

# Programmes Offered

S.No	Courses	Medium
1	MPC(Mathematics, Physics, <b>Chemistry</b> )	English
2	BZC (Botany, Zoology, <b>Chemistry</b> )	English
3	BZC (Botany, Zoology, <b>Chemistry</b> )	Telugu

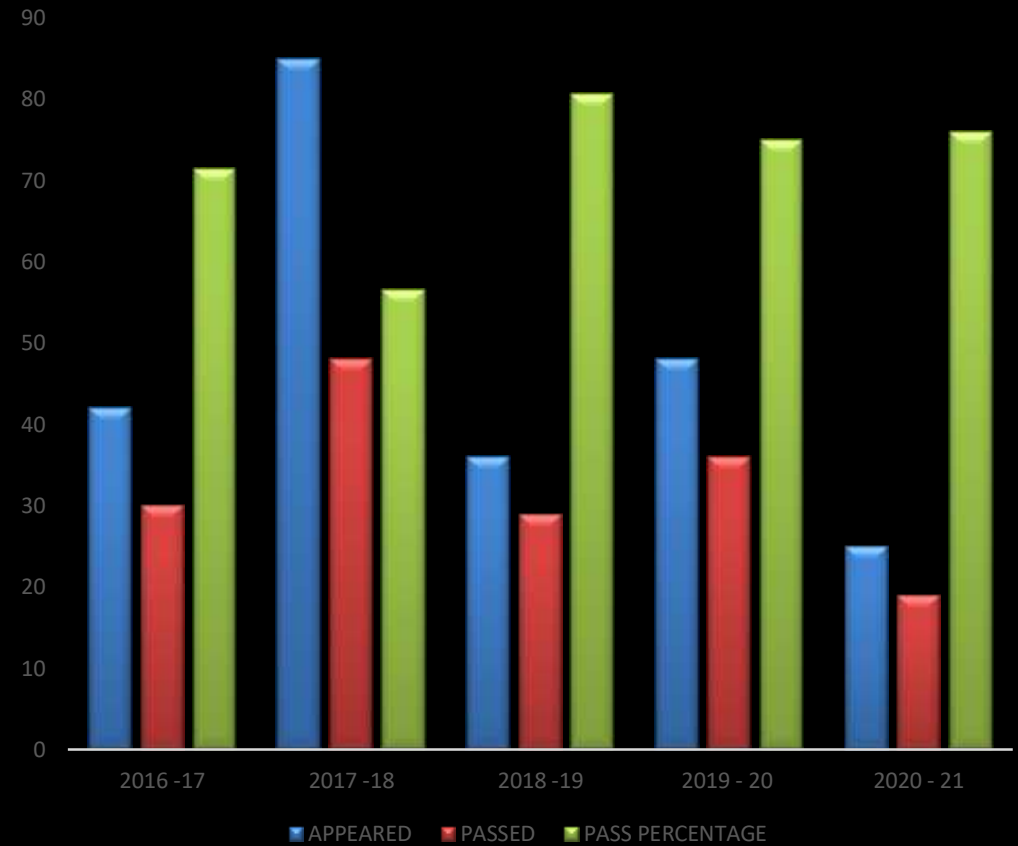
# Choice Based Credit System (CBCS) – Credits

S.No	Semester	Title of the Paper	Credits	
			Theory	Laboratory
1	I	Chemistry-I	4	1
2	II	Chemistry-II	4	1
3	III	Chemistry-III	4	1
4	III	<b>Skill Enhancement Course: Safety Rules in Chemistry Laboratory &amp; Lab Reagent</b>	2	Not Applicable
5	IV	Chemistry-IV	4	1
6	IV	<b>Skill Enhancement Course: Remedial Methods for Pollution, Drinking water and Soil Fertility</b>	2	Not Applicable
7	V	<b>Spectroscopy &amp; Chromatography (Elective-A) or Metallurgy, Dyes &amp; Catalysis (Elective-B)</b>	4	1
8	V	<b>Generic Elective: Chemistry of Cosmetics, Food Processing, Drugs &amp; Pharmaceuticals (For B.Sc non chemistry/B.A/B.Com students)</b>	4	Not Applicable
9	VI	<b>Advanced Chemistry or Project</b>	4	



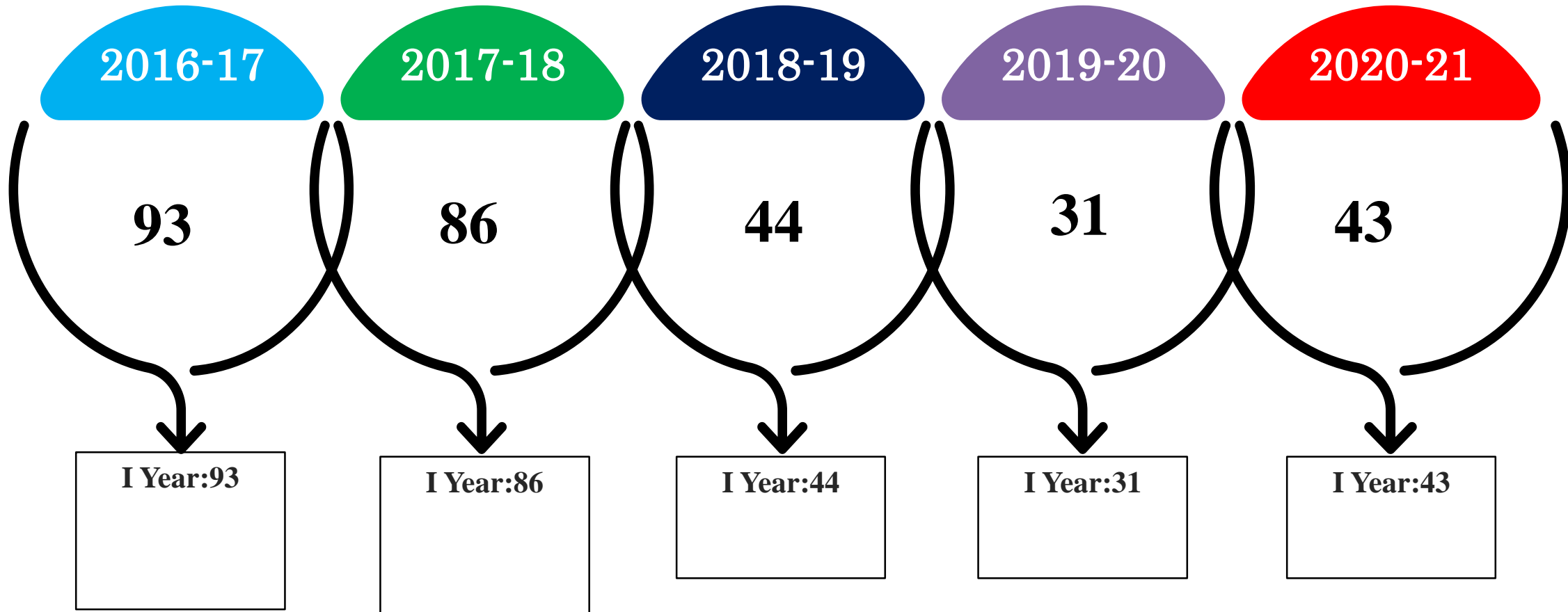
# Final Year student-Result analysis

YEAR	APPEARED	PASSED	PASS PERCENTAGE
2016 -17	42	30	71.42
2017 -18	85	48	56.47
2018 -19	36	29	80.55
2019 - 20	48	36	75
2020 - 21	25	19	76

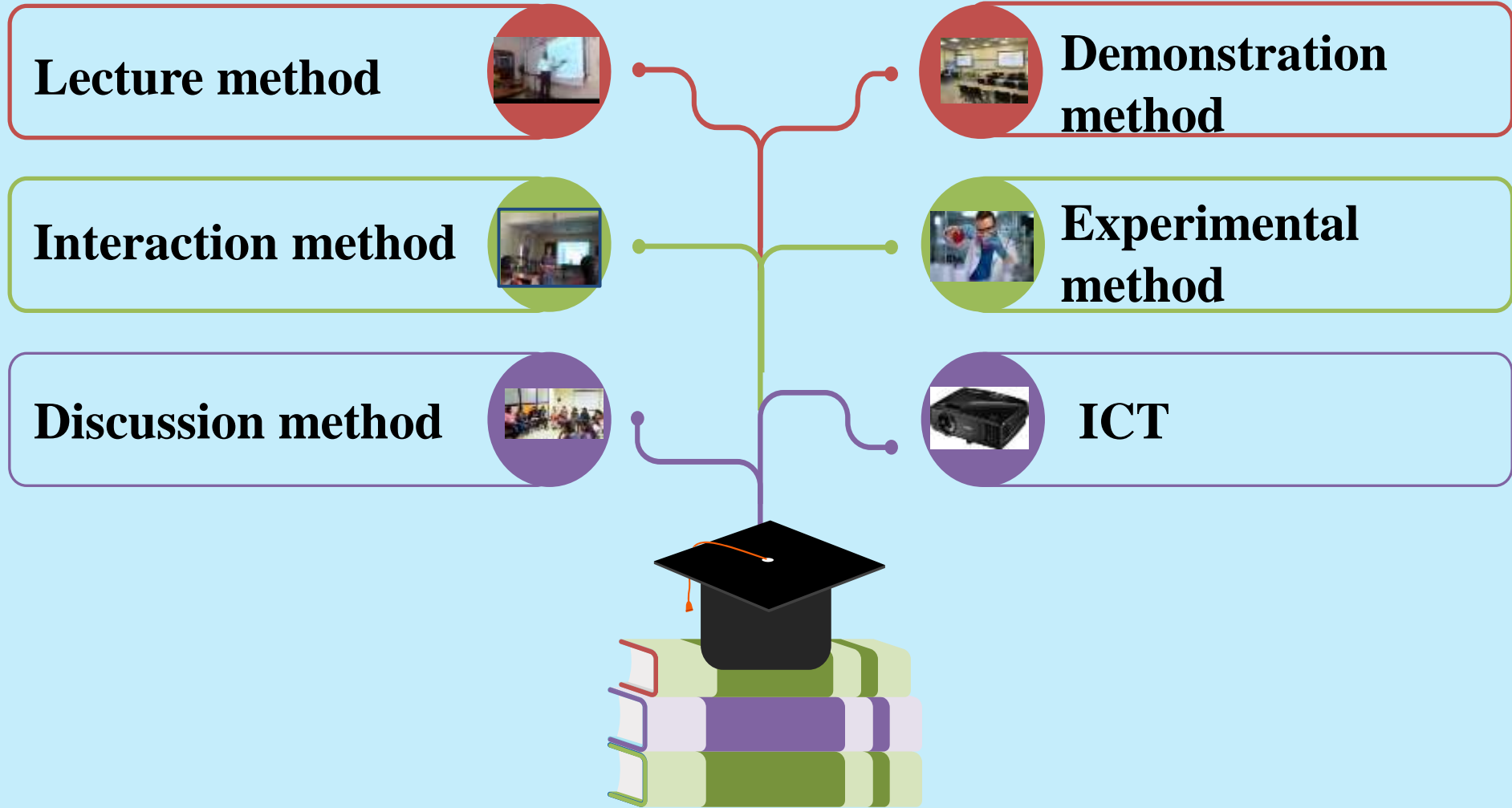


# Teaching, Learning & Evaluation

# Students Enrolment



# Class Room Teaching



**Adopted above teaching methods**

# Outcomes

**After completion of B.Sc (Chemistry) programme, the students will be able to do**

- **Perform the basic laboratory techniques related to Qualitative, Quantitative, and Volumetric analysis.**
- **Synthesize, compare, evaluate, classify, and effectively apply the basic laws, principles, phenomena, processes and mechanisms involved in the domain of chemistry.**
- **Communicate basic concepts of chemistry with examples.**
- **Acquire basic knowledge in chemical principles and higher level of understanding in each of the chemistry sub-disciplines such as organic, inorganic, physical and General Chemistry.**
- **Understanding the basic research work.**

# Extension Lectures



Dr. Ramudu Asistant Professor of Chemistry



Dr. Bagavanth reddy, Asistant Professor of Chemistry



Pradeep, Assistant Professor of Chemistry



Dr. Chandrashekar reddy, Assistant Professor of Chemistry



# Infrastructure & Learning Resources

# Infrastructure

**ICT facilities : Projector**



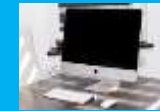
**Departmental library books: 250**



**Store rooms: 01**



**Computer facilities with Internet: 1 Computers**



**Department Room: 01**



**Number of laboratories: 2**

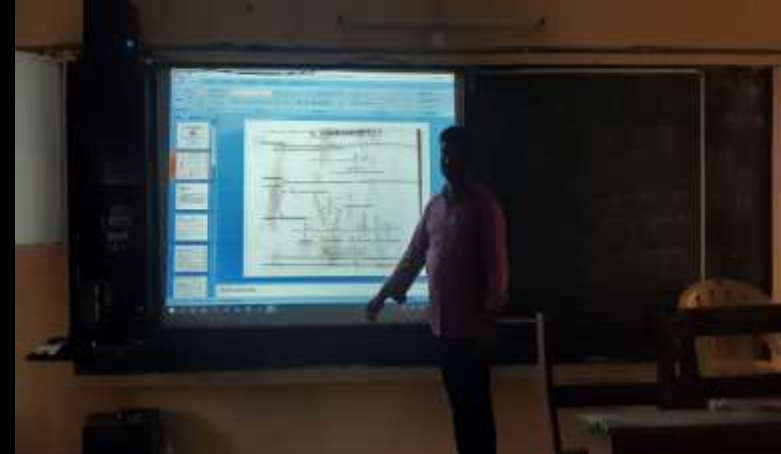




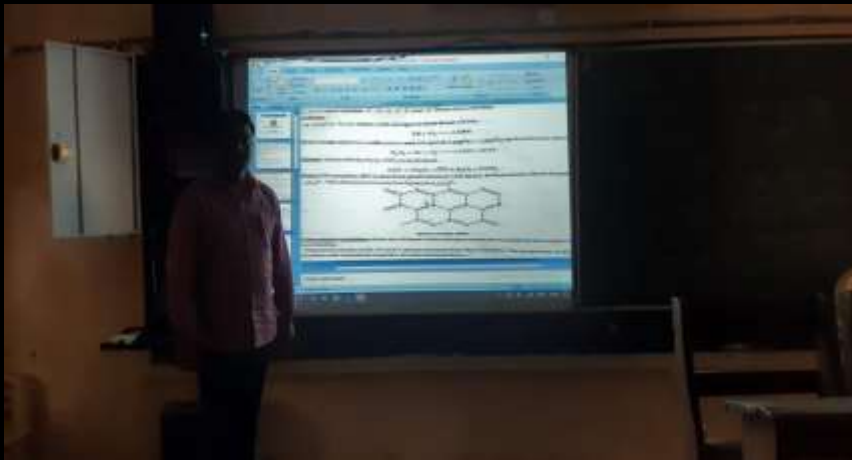
# ICT Tools for Teaching



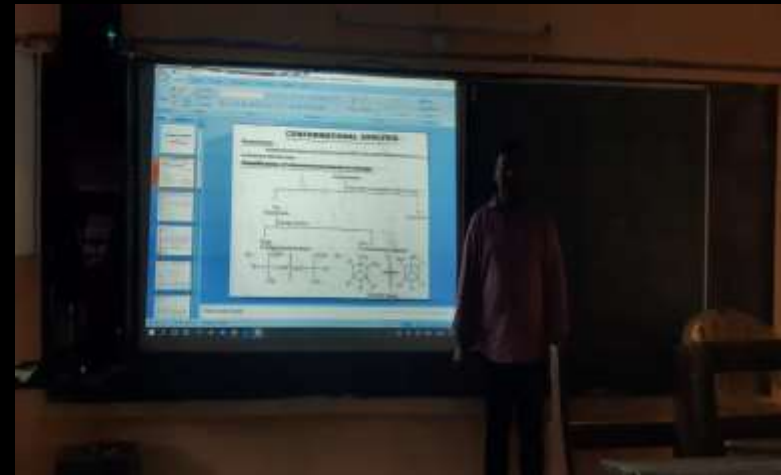
T. Cheranjivi, Lecturer in Chemistry



D. Shiva, Lecturer in Chemistry



D. Shiva, Lecturer in Chemistry



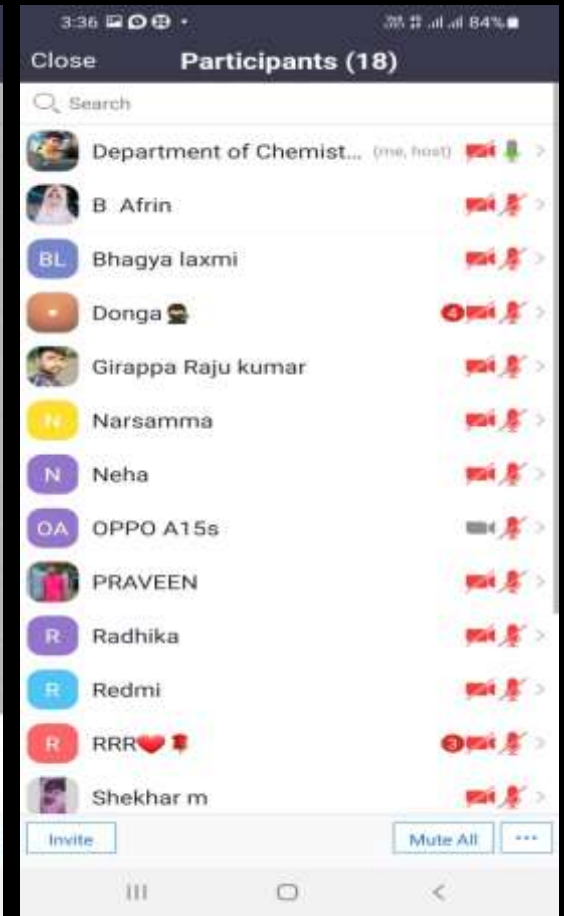
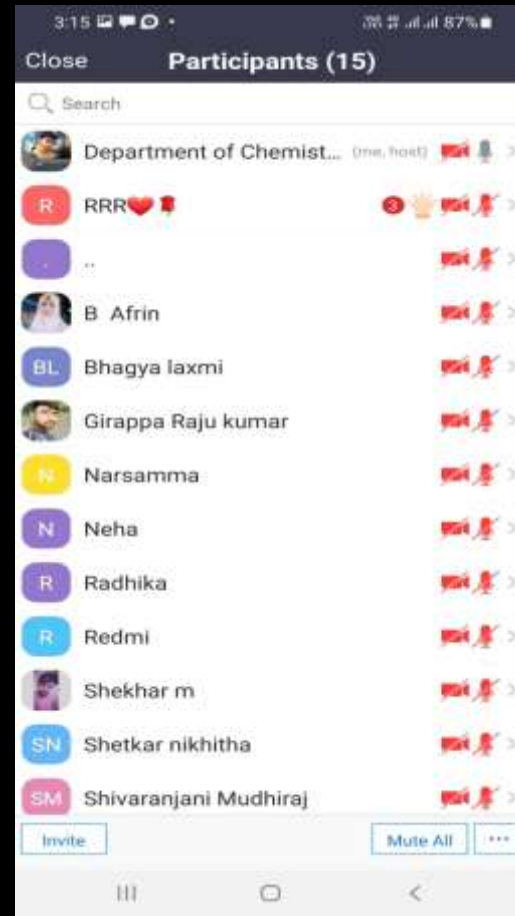
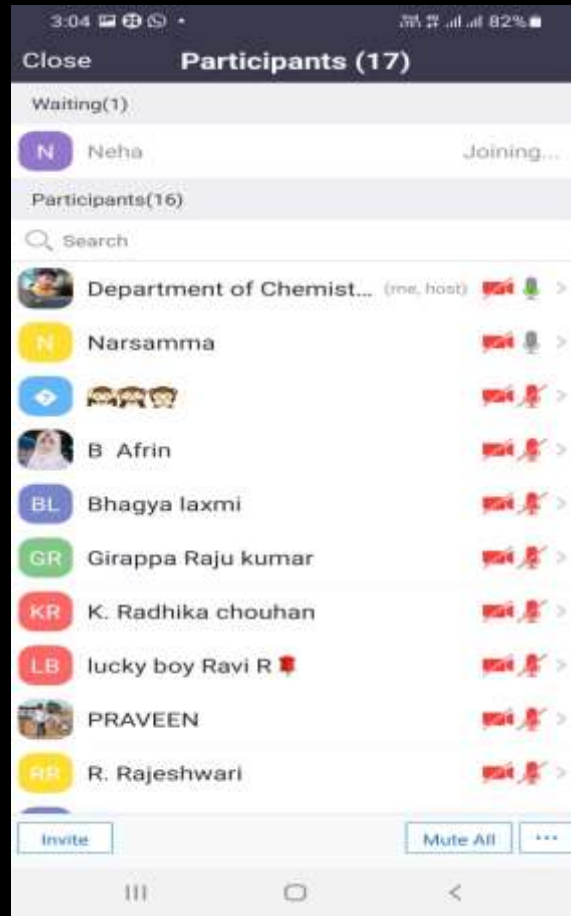
D. Shiva, Lecturer in Chemistry

# Youtube Lessons of the subject

S.NO.	TOPIC	YOUTUBE LINK	DURATION
1	Alcohols	<a href="https://youtu.be/pb6ue42CHRg">https://youtu.be/pb6ue42CHRg</a>	22min
2	Carboxylic Acids	<a href="https://youtu.be/_S8Go4LwSws">https://youtu.be/_S8Go4LwSws</a>	36min
3	Introduction of Vitamins	<a href="https://youtu.be/Dh_-r-mVY-s">https://youtu.be/Dh_-r-mVY-s</a>	37min
4	Vitamins	<a href="https://youtu.be/XfVMMkGRHrk">https://youtu.be/XfVMMkGRHrk</a>	37min
5	Vitamins	<a href="https://youtu.be/4QQS_mc5TU8">https://youtu.be/4QQS_mc5TU8</a>	36min
6	Vitamins	<a href="https://youtu.be/GhhMaf3f0CM">https://youtu.be/GhhMaf3f0CM</a>	37min
7	Alkyl Halides	<a href="https://youtu.be/hXnscpp-S58">https://youtu.be/hXnscpp-S58</a>	36min
8	Alkyl Halides	<a href="https://youtu.be/98UYpTpNdG4">https://youtu.be/98UYpTpNdG4</a>	32min
9	Preparation methods of Alkyl halides	<a href="https://youtu.be/_udsGI2VYKl">https://youtu.be/_udsGI2VYKl</a>	41min
10	Coordination Compounds	<a href="https://youtu.be/h2mHA5spvsw">https://youtu.be/h2mHA5spvsw</a>	32min
11	Bonding in Coordination Compounds	<a href="https://youtu.be/oF3xptSON_4">https://youtu.be/oF3xptSON_4</a>	35min
12	Isomrism in Coordination Compounds	<a href="https://youtu.be/s3yXBRiN3p4">https://youtu.be/s3yXBRiN3p4</a>	35min
13	Types of Ligands	<a href="https://youtu.be/j82E18Kmj1Y">https://youtu.be/j82E18Kmj1Y</a>	34min

14	<b>Introduction of Coordination Compounds</b>	<a href="https://youtu.be/79k4KDJObrl">https://youtu.be/79k4KDJObrl</a>	36min
15	Preparation of aminoacids	<a href="https://youtu.be/CVdi9szAsyg">https://youtu.be/CVdi9szAsyg</a>	37min
16	Classification of aminoacids	<a href="https://youtu.be/uD9xK6pSj-0">https://youtu.be/uD9xK6pSj-0</a>	32min
17	structure of Chlorophyll	<a href="https://youtu.be/amS4Kgump0k">https://youtu.be/amS4Kgump0k</a>	31min
18	Structure of Haemoglobin	<a href="https://youtu.be/J3H4sw_co0U">https://youtu.be/J3H4sw_co0U</a>	26min
19	Introduction of Bioinorganic chemistry	<a href="https://youtu.be/Z4gO92fCTj0">https://youtu.be/Z4gO92fCTj0</a>	31min
20	Basics of Thermodynamics	<a href="https://youtu.be/rPkHrvfGCvY">https://youtu.be/rPkHrvfGCvY</a>	31min
21	Phase Rule	<a href="https://youtu.be/d1UUPOYu2uc">https://youtu.be/d1UUPOYu2uc</a>	44min
22	Terms in Phase Rule	<a href="https://youtu.be/d1UUPOYu2uc">https://youtu.be/d1UUPOYu2uc</a>	40min
23	Haloform Reaction	<a href="https://youtu.be/aIT7Ab3vi3o">https://youtu.be/aIT7Ab3vi3o</a>	33min
24	Perkin Reaction	<a href="https://youtu.be/4vkiur8VeTM">https://youtu.be/4vkiur8VeTM</a>	36min
25	Aldol Condensation Reaction	<a href="https://youtu.be/2OU5pCTIMkU">https://youtu.be/2OU5pCTIMkU</a>	41min
26	Ethyl Acetoacetate	<a href="https://youtu.be/ksE_lcnHdNQ">https://youtu.be/ksE_lcnHdNQ</a>	42min
27	Alpha Substitution	<a href="https://youtu.be/WN4mLvLqMfo">https://youtu.be/WN4mLvLqMfo</a>	35min
28	Carbanions	<a href="https://youtu.be/vJHnf6g0nxU">https://youtu.be/vJHnf6g0nxU</a>	32min
29	Crystal Field Theory	<a href="https://youtu.be/Kq5z4H5WPJ8">https://youtu.be/Kq5z4H5WPJ8</a>	32min
30	<b>Cyanides and Isocyanides</b>	<a href="https://youtu.be/GkzPg-d4D_k">https://youtu.be/GkzPg-d4D_k</a>	36min

# Whatsapp groups for Knowledge sharing





# Laboratories



# Student Support and Progression



# Social Service



Awareness program on plastic Ban at palem village

# **Governance, Leadership and Management**



# Contribution To Institution By Faculty

<b>S.No</b>	<b>Name of the Faculty</b>	<b>Responsibility</b>
<b>1</b>	<b>D. SHIVA</b>	<b>HOD Of Chemistry Department</b>
		<b>NAAC Committee</b>
		<b>Admission Committee</b>
		<b>Time – Table Committee</b>
		<b>Grievance &amp; Redressal Committee</b>

# Faculty Development Programmes

**Teachers attending professional development programs, Faculty Development Programs during the year 2019 - 2020**

<b>Academic Year</b>	<b>Name of teacher who attended</b>	<b>Title of the program</b>	<b>Duration (from – to) (DD-MM-YYYY)</b>
2019 - 20	Shiva Dodla	<b>Sustainability Of Institutions Of Higher Learning In The Context Of Covid-19 Challenges And Perspectives</b>	<b>06-06-2020 to 11-06-2020</b>
		<b>Innovation In Higher Edution-A Teaching Learning Approach</b>	<b>13-07-2020 to 18-07-2020</b>
		<b>Hurdles and Solutions in Research Avenues</b>	<b>13-07-2020 to 26-07-2020</b>

# GOVERNMENT DEGREE COLLEGE - MAHABUBABAD

MAHABUBABAD DISTRICT TELANGANA STATE - 506 101

(Affiliated to Kakatiya University)



## Certificate of Participation

This is to certify that Mr/ Mrs / Dr. **SHIVA DODLA** from **Gde Narayankhed**, has participated in a One week National Level online Faculty Development Program (FDP) on "INNOVATION IN HIGHER EDUCATION- A TEACHING LEARNING APPROACH" from 13-07-2020 to 18-07-2020, organised by GOVERNMENT DEGREE COLLEGE, MAHABUBABAD, TELANGANA STATE.

Dr. G. Srinivas  
Coordinator-1

Dr. R. Venugopal  
Coordinator-2

Dr. M. Ravinder  
Co-Convener

Dr. G. Poshatah  
Convener



# GOVERNMENT DEGREE COLLEGE NARSAMPET

WARANGAL DISTRICT (RURAL) 506132; TELANGANA STATE- INDIA

wgl.kc.nsp@gmail.com, Website: <https://gdcls.cgg.gov.in/narsampet.edu>

## A ONE-WEEK NATIONAL ONLINE FACULTY DEVELOPMENT PROGRAMME

or

## "SUSTAINABILITY OF INSTITUTIONS OF HIGHER LEARNING IN THE CONTEXT OF COVID-19: CHALLENGES AND PERSPECTIVES"

06<sup>th</sup> to 11<sup>th</sup> July 2020

### Certificate of Participation

This is to certify that Mr/Ms/Dr. **Shiva Dodla**, Lecturer in Department of **Chemistry** of **GDC Narayankhed** has participated in A One-Week National Online Faculty Development Programme on "Sustainability of Institutions of Higher Learning in the Context of Covid-19: Challenges and Perspectives" organised by Internal Quality Assurance Cell (IQAC) of Government Degree College, Narsampet, Warangal District (Rural), Telangana State from 06<sup>th</sup> to 11<sup>th</sup> July 2020 vide permission accorded by the Commissioner of Collegiate Education, Telangana State, Hyderabad File No. CCE/AC/DDMS/21/2020-ACADEMIC CELL, Dated 06-07-2020.

T. Ramesh  
Co-convener & Vice-Principal

Dr. A. Simath  
Organizing Secretary & IQAC Coordinator

Lt. Dr. B. Chandramouli  
Convener & Principal



# TARA GOVERNMENT COLLEGE

(Autonomous)

SANGAREDDY, TELANGANA, INDIA

ISO Certified 9001:2015 College || Accredited with "B" grade by NAAC || Affiliated to Osmania University

## Certificate of Participation



This is to certify that Mr./Mrs./Miss./Dr. \_\_\_\_\_ **SHIVA DODLA**, Lecturer

from \_\_\_\_\_ **GDC, Narayankhed, Sangareddy**

has participated in Two Week National Level Online Faculty Development Programme on "Hurdles and Solutions in Research Avenues" from 13.07.2020 to 26.07.2020 organised by Department of Computer Science and Applications, TARA GOVERNMENT COLLEGE(A), SANGAREDDY, TELANGANA STATE.

Dr. S. Nagaraj  
Co-Convener

Sravani Sethi  
Convener

P. Krishna Murthy  
Principal

# Institution Values & Best Practices

# BEST PRACTICES

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01

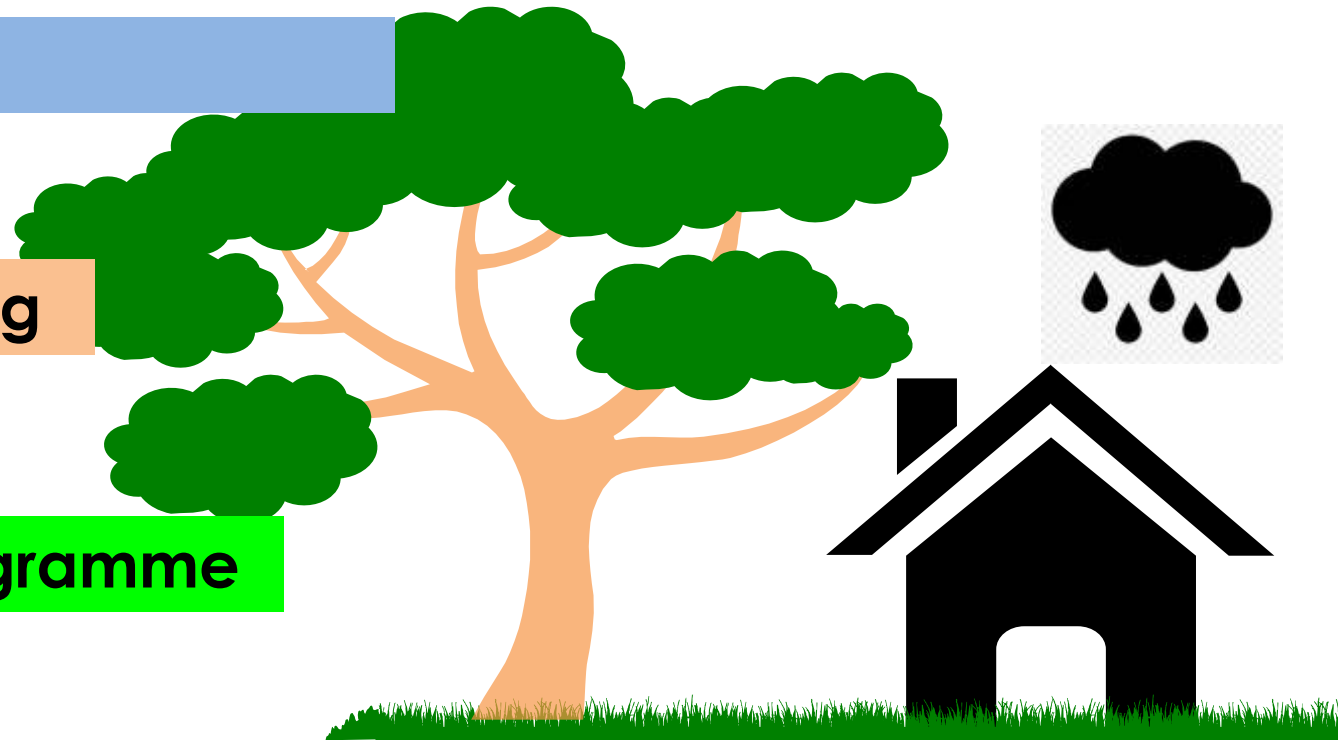
1. PG Entrance

02

2. Pre-placement training

03

3. Green Chemistry Programme



## Strengths

- Qualified, competent and dedicated faculty .
- Well equipped three labs for all the I, II and III year students
- Curriculum designed by the Department to meet the needs of the higher education and industries.
- Conduct of remedial classes, extension lectures, student seminars and quiz programmes.
- Improving the students opportunities by organizing the national seminar in the institution.
- Maintaining the cordial relationship with the students.
- Guiding the students to prepare study projects and motivating them for field trips, innovative practices.

## Weaknesses

- Rural students are Poor in English communication.
- Poor Economic background.

## Challenges

- The students joining in the B.Sc course are with inadequate basic Chemistry knowledge.
- To over come the English language phobia.

**Thank you**