



GOVERNMENT DEGREE COLLEGE
KHAIRATABAD, HYDERABAD, T.S.-500 004.
Re-accredited with 'B' grade by NAAC

SCIENCE ASSOCIATION COMMITTEE

The Science Day is celebrated every year on 28th of February to commemorate the Discovery of the “Raman Effect “.On this day Physicist CV Raman announced the discovery of the “Raman Effect “ for which he was awarded the noble prize in 1930.

INDEX

SNO	YEAR	NAME OF THE ACTIVITY	NAME OF THE DEPARTMENT	DATE
1	2019-20	One day workshop	Chemistry	2-11-2019
2	2019-20	Rangoli-Maths formulae	Mathematics	20-1-2020
3	2019-20	One week workshop	Chemistry	3-02-2020 to 8-2-2020
4	2019-20	1.Science Quiz 2.PPTs 3.Working models in Physics & Chemistry	Physics	4-3-2020
5	2019-20	One day Webinar	Chemistry	11-05-2020
6	2019-20	Webinar	Botany	13-5-2020
7	2019-20	National Webinar	Botany	15-5-2020
8	2018-19	Science Quiz	Physics	27-2-2019
9	2018-19	1.Poster Presentation 2.Essay writing 3.Science Quiz 4.Extension Lecture	Chemistry	27-2-2019
10	2017-18	One day workshop	Botany	30-1-2018
11	2016-17	One day workshop	Botany	9-12-2016
12	2015-16	One day seminar	Chemistry	12-11-15
13		One day Workshop	Chemistry	18-12-2015
14	2014-15	One day workshop cum Training programme	Botany	21-1-2015

2019-2020

**One day workshop
on
“CHEMISTRY AT FRONTIER LEVEL”**

In collaboration with
**UGC Networking Resource Centre
School of Chemistry, University of Hyderabad**

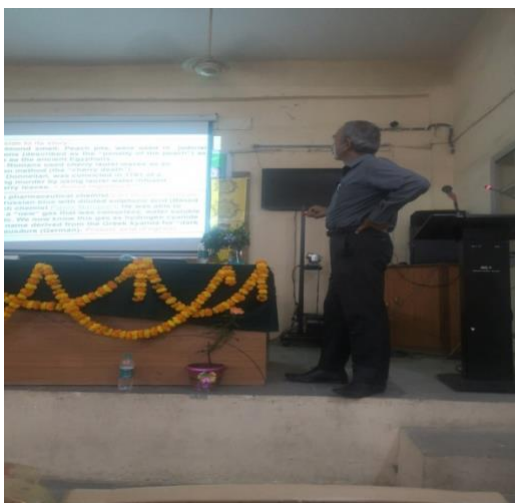
Department of chemistry has conducted one day workshop on 2-11-2019 in collaboration with UGC Network Resource Centre, School of Chemistry, University of Hyderabad. This is the first outreach seminar conducted by UGC Networking Resource Centre, School of chemistry, University of Hyderabad. The main aim of NRC is to Network with other institutions especially undergraduate and post graduate colleges and universities in the region and there by contribute to the improvement in chemical education and research. Around 150 students and staff from different colleges attended the workshop.



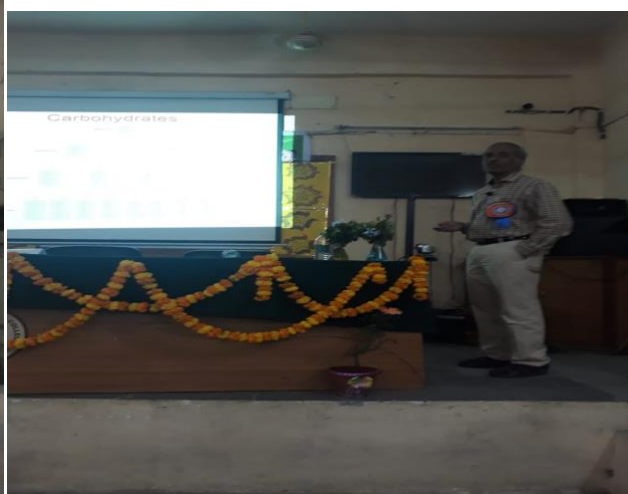
Inaugural Session of one day workshop on “Chemistry at Frontier Level”



Lecture on " **Impact of Organic Chemistry on society and towards understanding of the Fundamentals of Organic Chemistry**" by Prof. D.Basavaiah, School of Chemistry, University of Hyderabad



Lecture on" **Serendipity in Chemistry :Prussian blue and Ferrocene**"
Prof.M.J.Swamy.



Lecture on "**Chemistry of Biomolecules**" by
Prof.K.C.Kumara Swamy,



Feed back on workshop by III BZC student Ms.Maleka Khan

Prizes &Certificates distribution by the HCU professors , Principal DSR Rajendra Singh along with the Department of chemistry staff member



Department of Mathematics

RANGOLI

20/01/2020

Name of the program: Rangoli in Mathematics.

Name of the Department: Mathematics.

Name of the Faculty Members: C. Saraswathi

N.Jayaleela.

M. Ashok.

G.Rakesh.

Students from: BSC –I, II Years.

The Rangoli in Mathematics competition for students is conducted by Department of Mathematics. The students used Mathematics to Draw the Rangoli. Also they used their creativity and make the program colorful.

At the end of program three prizes are announced for the students.





DEPARTMENT OF CHEMISTRY

WORKSHOP ON HOW TO HANDLE APPARATUS CHEMICALS AND APPARATUS

Department of chemistry conducted one week workshop on “How to Handle Instruments, Chemicals and Apparatus” from 3-2-2020 to 8-2-2020 .As a regular best practice of our department we conducted workshop for Bsc Ist year students of all chemistry combination groups to create awareness about how to handle the apparatus, chemicals and instruments in the laboratory. We explained them about safety rules to be followed in the laboratory. We demonstrated distillation apparatus ,melting point, boiling point apparatus, suction pump stalagmometer,kipps apparatus.....etc.Students got hand on experience in handling the apparatus.







Department of Physics

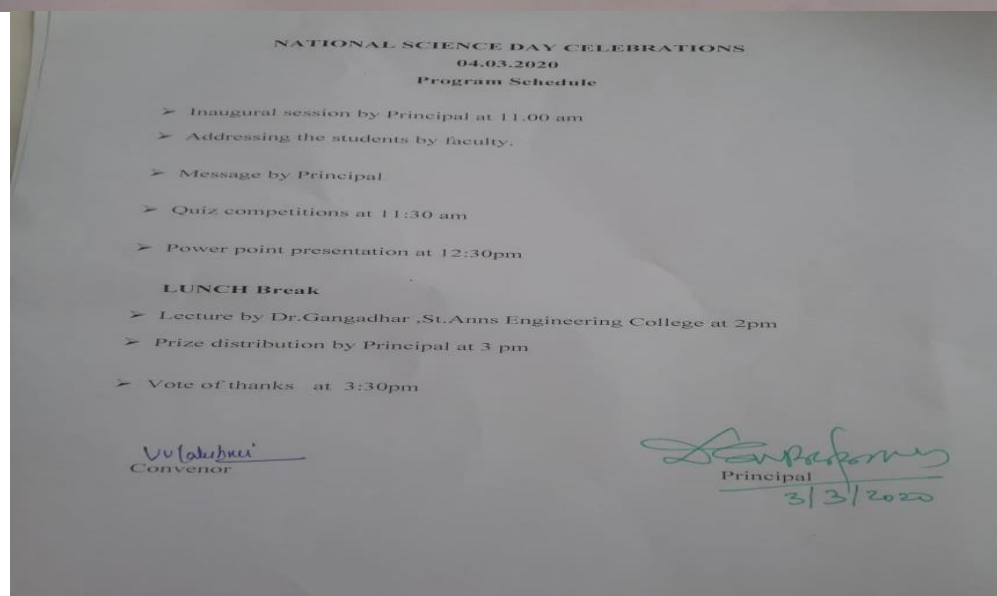
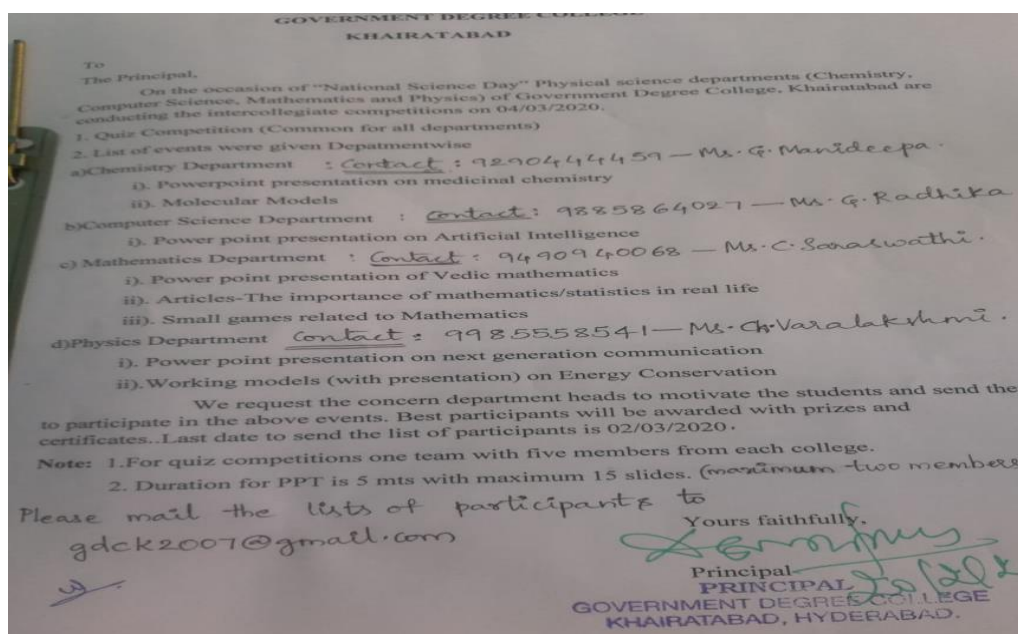
➤ NATIONAL SCIENCE DAY CELEBRATIONS : 04.03.2020

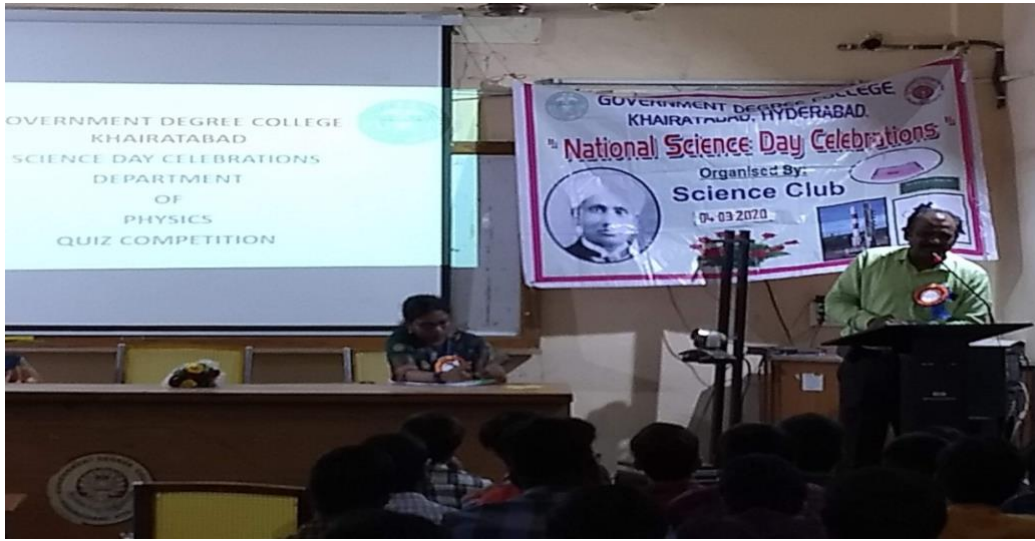
National Science Day celebrations were conducted by the Departments of Physical Sciences on 04.03.2020 in the seminar hall at 11 AM.

The college has invited all the Government Degree Colleges in the Hyderabad District for participation in various competitions :

- 1.Science Quiz Competitions
- 2.Power point presentations (PPTs) in Physics,Chemistry ,Mathematics and Computer Sciences.
- 3.Working models in Physics and Chemistry

Invitation to all the colleges:













DEPARTMENT OF CHEMISTRY

WEBINAR ON PERICYCLIC REACTIONS

Department of chemistry organized one day webinar on “Pericyclic Reaction” on 11-5-2020 by P.Surekha Assistant Professor of Chemistry, Vivekananda Government Degree College, Hyderabad. She explained about the characteristics of pericyclic reactions, different types of pericyclic reactions with examples. All the second B.SC students attended the webinar.

Pericyclic reactions

P. Surekha
Asst Prof of Chemistry
VGDC, Vidyanagar,
Hyderabad

Participants (15)

Name	Role	Mute	Video
Surekha Pothu	Host, me	On	On
aruna kumari	Participant	Off	Off
Lokesh Nimmala	Participant	Off	Off
Pavani	Participant	Off	Off
shashi's iPad	Participant	Off	Off
...	Participant	Off	Off



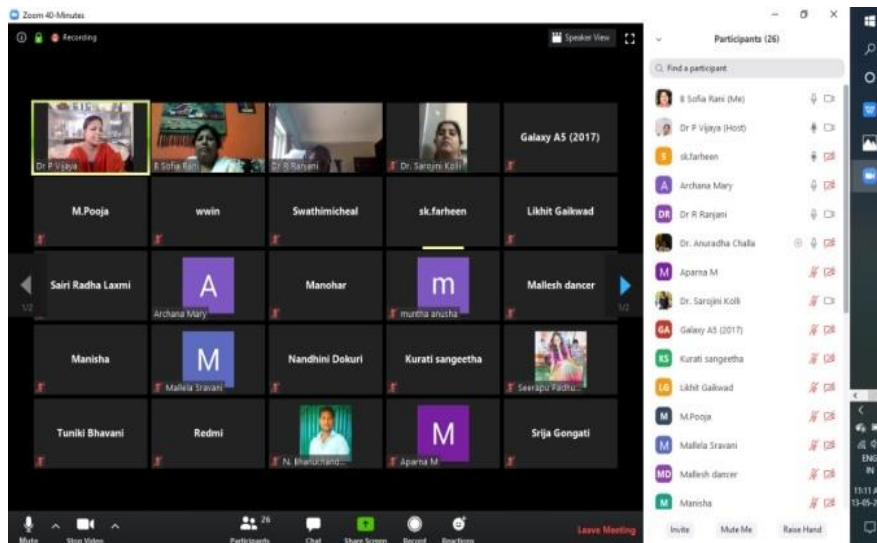
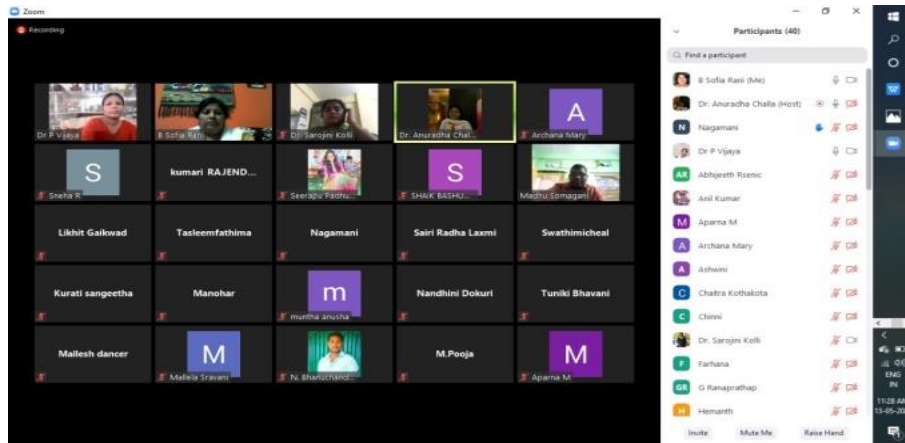
- a) Molecular orbitals of compounds containing π bonds are of two types.
- (i) Occupied molecular orbitals of higher energy known as highest occupied molecular orbitals HOMO
 - (ii) Unoccupied molecular orbitals of lowest energy known as lowest unoccupied molecular orbitals LUMO
- If HOMO-LUMO interaction leads to bonding then the reaction is allowed. If not it is forbidden.**

a	aruna kumari (me)		
S	Surekha Pothu (Host)		
SI	shashi's iPad		
A	Abdul Aziz		
A	Anuradha GH		
CL	Chandana Lahari		
	Charan Vara Prasad		
d	david wilson		
H	Havilah		
Invite			

Department of Botany

Webinar on "SARS COV 2 & COVID-19: An Overview"

Department of Botany has organised a webinar on 13.05.2020 and the resource person is **Dr. R. Ranjani**, Assistant Professor, Department of Virology, SV University, Tirupathi, Andhra Pradesh on the topic; on "SARS COV 2 & COVID-19: An Overview". 40 students and faculty from other colleges participated in this webinar. Resource person has given an overview of SARS COV 2 virus and its effect on human health.



Microsoft PowerPoint (Product Activation Failed) window showing a slide with the URL <https://collaborationhelp.cisco.com/article/n6dr138> and a diagram of a human body with various organs and systems labeled. The diagram includes labels for the Brain, Heart, Lungs, Stomach, Intestines, Kidneys, Bladder, Uterus, Vagina, Penis, Testes, Prostate, Sperm, Egg, and Fertilization. It also shows the flow of blood and the process of digestion.

Zoom Meeting window showing a grid of participants. The participants are:

- Dr. P. Vijaya
- B. Sofia Rani
- Dr. B. Rajesh
- Dr. Sarojini Koli
- Galaxy A5 (2017)
- M. Pooja
- wwin
- Swathimicheal
- sk farheen
- Limhit Galkwad
- Sairi Radha Laxmi
- Archana Mary
- Manohar
- m
- Malleesh dancer
- Manisha
- Mahela Sravani
- Nandhini Dokuri
- Kurati sangeetha
- Sarayu Padhu
- Tuniki Bhavani
- Redmi
- N. Shanusha
- Apama M
- Srja Gongati

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Participants (27) list:

- B. Sofia Rani (M)
- Dr. P. Vijaya (Host)
- Archana Mary
- sk.farheen
- Dr. R. Rajani
- Dr. Anuradha Challa
- Apama M
- Dr. Sarojini Koli
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- Kurati sangeetha
- Limhit Galkwad
- M. Pooja
- Mahela Sravani
- Malleesh dancer
- Manisha

Department of Botany

National Level Webinar on “Biodiversity: Status, Conservation and Role in Pandemics’

Department of Botany has organised a National level webinar on 15.05.2020 and the resource person is **Dr. Avneet Pal Singh**, Assistant Professor, Department of Botany, Punjabi University, Patiala on the topic; '**Biodiversity: Status, Conservation and Role in Pandemics**'. 165 candidates registered to this webinar out of which 144 candidates participated both faculty and students from different states of India. e-certificates were provided to all the participants. The main objective of this webinar is to throw light on the importance of biodiversity and its impact on today's COVID situation.

Website link: <https://gdckhairatabad.ac.in/webinar-on-biodiversity-by-department-of-botany/>
Programme video link:

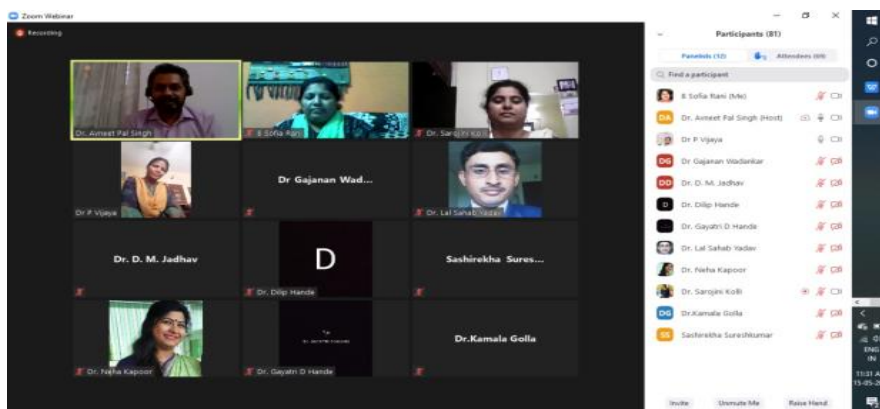
https://drive.google.com/file/d/1_3ip0ZXrWyoNXaQSKOztR_k5mY_rqv6d/view?usp=drive_web

Registration list link:

<https://docs.google.com/spreadsheets/d/1ix3QphGiGR00U9zSrwAOujiecxhF60mQWHEI3JnyTJO/edit?usp=sharing>

Feedback responses link:

https://docs.google.com/spreadsheets/d/1Hunlr9LE9ZdF2kRusZ_xHwEEUp9PX6CO9CsM9GLdMio/edit?usp=sharing





Department of Physics

SCIENCE DAY CELEBRATIONS: 28.02.2019

Quiz Competitions were conducted on 27.02.2019, to the Science students on the occasion of National Science Day celebrations 28.02.2019 by science club of the college at the Seminar Hall.

The Chief Scientist of IICT, Hyderabad, Dr. K Nagaiah is the Chief Guest and Rangam Satish, a renowned educationist of Telangana is the Guest of Honor. Our II MPCs team of 6 students has won the 1st Prize in Quiz competitions. Prizes and certificates are distributed to the winners of quiz competition. Dr. Mallikarjuna R. M., Assistant Professor of Physics, UOH has partially sponsored the prizes.



Department of Chemistry

NATIONAL SCIENCE DAY CELEBRATIONS 2019

Department of chemistry in association with Science club of GDC Khairatabad has organized Essay writing, Poster presentation and Quiz competitions to all the Science students on 27th February 2019.

Topic for poster presentation: **History of the periodic table.**

Topic for essay writing: **Global effects of OZONE DEPLETION.**

Science quiz: **Questions from all science subjects**

Extension lecture was arranged on 28-02-2019.

Our principal Dr.Rajender Singh has participated and inspired the students by his speech.

NATIONAL SCIENCE DAY extension lecture on EMPLOYABLE SKILLS was given by Dr.K.Nagaiah, Chief scientist, IICT-HYDERABAD.

Mr.Ragam sateesh, renowned educationist has also given a message to the students

Prizes were distributed to the winners of the above competitions.



2017-18

**Department of Botany
One day workshop on “Herbarium Methodology and Plant Identification”**

Department of Botany in collaboration with Botanical Survey of India (BSI), Deccan Regional Centre, Hyderabad has organized one day workshop on “Herbarium Methodology and Plant Identification” on 30.01.2018 along with field trip to BSI. Dr. L. Rasingam, Scientist D, Dr. B. Swamy, Scientist C and Dr. M. Sankararao Scientist C has spoken on the importance of herbarium and the techniques to be learned to prepare a good herbarium. After the oral session, students were given hands on experience in preparing a herbarium sheet with different plant habit. 85 students got benefitted through this workshop and they got hands on experience in collecting and preparing a good herbarium.



Feedback by the students and faculty



2016-17

**Department of Botany
One Day Workshop on “Vermicomposting: The Most Efficient Way of Using Organic Material”**

Under students employment opportunities the Department of Botany has organized one day workshop cum training programme on “Vermicomposting: The Most Efficient Way of Using Organic Material” on 09.12.2016. The resource person Dr. D. Pratap, Horticulturist addressed the students regarding the techniques that can be used in the process of vermicomposting. 60 students of BZC I, II and III year of both media participated in the workshop. The students were given training by the resource person at the vermicomposting unit established by the department in the campus. Three beds were laid in the unit and it is resolved that approximately 10 students should be given in-chargeship to maintain the unit in a proper way. The main objective of this programme is to provide self employment for the students.





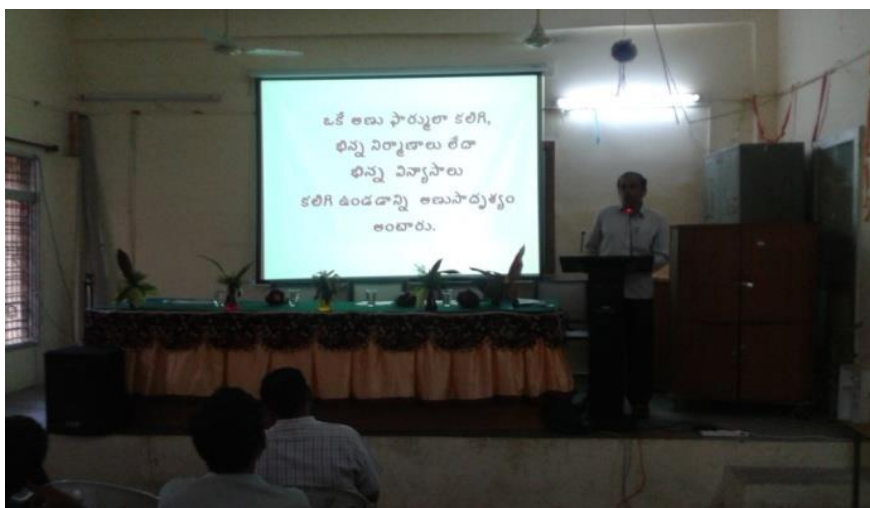
2015-16

One day Seminar on “Coordination Chemistry”

By

Dr.E.Rama Rao, Associate Professor, Govt. City College

An extension lecture is organized by department of chemistry on “Coordination Compounds” by Dr.E.Rama Rao, Associate Prof.of chemistry ,Govt. City college, Hyderabad on 12th November 2015 .All the faculty members of chemistry department and students from second and final year B.SC have attended the extension lecture. Around 72 students attended the extension lecture. Students have interacted with the resource person and clarified their doubts.





DEPARTMENT OF CHEMISTRY

ONE DAY WORKSHOP ON "HOW TO HANDLE CHEMICALS, APPARATUS AND INSTRUMENTS DURING THE LABORATORY"

Department of chemistry organized one day workshop on "How to handle chemicals, apparatus and Instruments during the laboratory" on 18-12-2015. Around 48 students attended the workshop. Senior faculty members of the department gave a demonstration about "How to handle the chemicals, apparatus and instruments during the laboratory work-The safety measures to be followed by the students". Students got hands on experience by doing simple experiments in the workshop.



2014-15

Department of Botany

One Day Workshop cum Training Programme on "Mushroom Cultivation: An Employment Opportunities for Young Entrepreneurs"

Under students employment opportunities the Department of Botany has organized one day workshop cum training programme on “Mushroom Cultivation: An Employment opportunities for young entrepreneurs” on 21.01.2015. The programme was very much successful as students and faculty from various Government Degree colleges in the city and research scholars has participated in the workshop. Mr. Anthony and Ms. E. Navaneetha, young entrepreneurs were the resource persons of this workshop and they gave training to the participants on how to cultivate mushrooms, storage and marketing them. The main objective of this programme is to provide self employment for the students. The income generated from registration fees and through the sale of mushrooms will be kept under the head IRG (Internal Revenue Generation) and will be spent for the development of the department.



