

A.G & S.G Siddhartha Degree College of Arts & Science

P.G Department of Chemistry

- **NAME OF THE EVENT:**GUEST LECTURE
- **Topic:**Green chemistry and its applications
- **Date conducted:** 4th oct 2018.
- **Name and Designation of the Resource person:**

Dr.k.prabhakar Rao

Report on the guest lecturer:

1. objectives

To delivered guest lecturer on:

the main objective to arrange to this guest lecturer is to know importance of green chemistry for post graduate students.

2. Notes on lecturer

Dr. K Prabhakar Rao professor of vegnans university explained in detail effective of green chemistry and application of green chemistry in organic synthesis.Green chemistry widely used in the chemical, pharmaceutical, paper, polymer, clothes and color industry. It plays a key role in different energy science, and the manufacture of innovative technique to make solar cells, fuel cells, and batteries for storing energy. In nanoscience and technology, green chemistry also highly used. Since main goal of green chemistry is to minimize or eliminate waste in the chemical industry, it has inspired the creation of many green “next generation” catalysts.

3. Out come

The students are well understanding importance of green reactions and importance in daily life.



Students listening the lecture on Green chemistry.

ఆర్థిక వ్యవస్థపై అవగాహన అవసరం
ఉయ్యూరు, న్యూస్టుడే: దేశ ఆర్థిక వ్యవస్థ, స్థితిగతులపై యువతకు అవగాహన అవసరమని ఆచార్యులు కె.మధుబాబు అన్నారు. గురువారం ఏజీఎస్ జీఎస్ కళాశాలలో ఆర్థికశాస్త్ర విభాగం ఆధ్వర్యంలో ఏర్పాటు చేసిన అతిథి ప్రసంగం కార్యక్రమంలో ఆయన 'దేశ ఆర్థిక వ్యవస్థ-ప్రస్తుత దృశ్యం' అనే అంశంపై వివరించారు. ఇటీవల సరళీకృత, ప్రైవేటీకరణ, ప్రపంచీకరణ విధానాలు పెను మార్పుల్ని తీసుకువచ్చాయన్నారు. కార్యక్రమానికి ప్రిన్సిపల్ డాక్టర్ బాలకృష్ణ అధ్యక్షత వహించారు. కార్యక్రమాన్ని ఆర్థిక శాస్త్ర విభాగాధిపతి జి.ఎస్.ఎన్.సింగ్ వర్యవేక్షించారు. అధ్యాపకులు డాక్టర్ వీర్రాజు, రాజ్యలక్ష్మి, రామారావులు పాల్గొన్నారు. * కళాశాలలో పీజీ విద్యార్థులకు రసాయన శాస్త్ర విభాగం ఆధ్వర్యంలో జరిగిన అతిథి ప్రసంగంలో విజ్ఞాన్ విశ్వవిద్యాలయం సహ ఆచార్యులు డాక్టర్ ప్రభాకరరావు ప్రసంగించారు. పీజీ రసాయన శాస్త్ర విభాగాధిపతి శ్రీరామ్ కార్యక్రమాన్ని పర్యవేక్షించారు.

A.G & S.G Siddhartha Degree College of Arts & Science

P.G Department of Chemistry

- **NAME OF THE EVENT:** Guest Lecturer
- **Topic:**Physical Lab experiments –an over view
- **Date conducted:**24 march 2018.
- **Name and Designation of the Resource person:** Dr. TNVSS. Satya Dev Professor of P.B .Siddhartha College Vijayawada.
- **Report on the guest lecturer:**
 1. objectives

The main objective to arrange this guest lecturer is to understand physical lab experiments effectively by post graduate students.

2. Notes on lecturer

Dr.TNVSS.Satyadev professor of P.B .Siddhartha College explained in detail calorimeter, potentiometer and strength of acids. Potentiometric titration involves the measurement of the potential of an indicator electrode with respect to a reference electrode as a function of titrant volume. In this titration, we measure and record the cell potential after adding titrant each time. As we approach the endpoint, we start adding titrants in very small quantities. The most straightforward and most used method of endpoint detection in potentiometric titration is plotting a graph between cell potential and volume of titrant. The midpoint of the steeply rising portion of the graph or curve is estimated visually and taken as an endpoint. As it is shown below in a sample graph.

3. Out come

The students understood the importance of green reactions and importance in daily life.



Students listening to lecture on
physical lab –an over view

A.G & S.G Siddhartha Degree College of Arts & Science

P.G Department of Chemistry

- **Name of the Event** :Guest Lecture
- **Topic**:Co-ordination compounds.
- **Date conducted**: 17th oct 2019.
- **Name and Designation of the Resource person**:
Prof.K.Seshaiah Sri Venkateswara University, Tirupati.
- Report on the guest lecturer:

1. Objectives

The main objective to arrange this guest lecturer is to know importance of coordination compounds for post graduate students.

2. Notes on lecturer

Prof.K.Seshaiah of Sri Venkateswara University explained the coordination compounds topics.Cft of octahedral, tetrahedral, square planar, square pyramidal, trigonal bipyramidal complexes and Molecular orbital theory of octahedral and tetrahedral complexes.coordination compound, any of a class of substances with chemical structures in which a central metal atom is surrounded by nonmetal atoms or groups of atoms, called ligands, joined to it by chemical bonds. Coordination compounds include such substances as vitamin B₁₂, hemoglobin, and chlorophyll, dyes and pigments, and catalysts used in preparing organic substances.

3. Out come

The student are well understand importance of coordination compounds



Guest Lecture on Co-ordination Compounds

A.G & S.G Siddhartha Degree College of Arts & Science

P.G Department of Chemistry

- **Name of the Event:**Work Shop
- **Topic:**Plastics Recycling techniques on Waste management
- **Date conducted:** 28-02-2020.
- **Name and Designation of the Resource person:**MrV.Kiran Kumar, Head, Director, CIPET
- Report on the guest lecturer:

1. Objectives

- The main objective to arrange this Work Shop is to give detail explanation of Plastic Recycling techniques on Waste management for post graduate students.

2. Notes on lecturer

Guided by four strategic pillars Infrastructure, Innovation, Education and Engagement by resource person. The utilizations of this Alliance projects teams work to identify, evaluate, select and invest in programs that bring to life solutions that prevent the leakage of plastic waste into the environment and contribute to a more circular economy.

3. out come

The students well understand thePlastics Recycling techniques on Waste management



Water Analysis Workshop Inauguration Words
by Dr.V.Sreeram

A.G & S.G Siddhartha Degree College of Arts & Science

P.G. Department of chemistry

- **Name of the Event** : Guest Lecture
- **Topic**: Mass spectrometry and its applications
- **Date conducted**: 12-10-2021.
- **Name and Designation of the Resource person**: Dr.M.Sivanath, ANR College Gudivada.
- Report on the guest lecturer:

1. Objectives

The main objective to arrange to this guest lecturer is to give detail explanation of Mass spectrometry and its applications for post graduate students.

2. Notes on lecturer

mass spectrometry, also called mass spectroscopy, analytic technique by which chemical substances are identified by the sorting of gaseous ions in electric and magnetic fields according to their mass-to-charge ratios. The instruments used in such studies are called mass spectrometers and mass spectrographs, and they operate on the principle that moving ions may be deflected by electric and magnetic fields.

3. Out come

The students are well understand importance of applications of mass spectroscopy.



Students listening lecturer on Mass spectroscopy and its applications

A.G & S.G Siddhartha Degree College of Arts & Science

P.G Department of Chemistry

- **NAME OF THE EVENT:** GUEST LECTURE
- **Topic:** Electronic spectra of transition metals
- **Date conducted:** 6th august 2022.
- **Name and Designation of the Resource person:** Dr. TNVSS. Satya Dev Satya Dev
Professor of P.B .Siddhartha College Vijayawada.
- Report on the guest lecturer:

1. objectives :

The main objective to arrange to this guest lecturer is to give detailed explanation on electronic spectra of transition metals for post graduate students.

2. Notes on lecturer:

Dr.TNVSS.Satya dev professor of P.B .Siddhartha College explained in detail calorimeter, potentiometer, strength of acids .Charge transfer (CT) transitions: Charge transfer transitions occur between MOs that are mostly metal in character and those that are mostly ligand in character. These transitions depend on the type of ligand: they occur only when the metal is bound to ligands that are π -donors or π -acceptors. And there are two types of CT transitions. If the metal is bound to a π -donor ligand, electrons from lower-energy MO's that are mostly ligand in character can become excited to MO's that are mostly metal in character. These are ligand to metal charge transfers (LMCT) transitions

3. Out come

The students are well understand importance of green reactions and importance in daily life.



Students were listening lecture on electronic spectra of transition metals.

A.G & S.G Siddhartha Degree College of Arts & Science

P.G Department of Chemistry

- **Name of the Event** :Industrial Visit
- **Place of visit**: Nifty Laboratories kondapalli.
- **Date**: 28-12-2021.
- **Introduction**:

MSc final year students (23) along with faculty members V.N.V Kishore and Ms. M.Rekha visited Nifty laboratories on 04-02-2020 at 10 am at kondapalli laboratories

1. Objective:

Objective of this industrial visit is develop students with well known knowledge of pharmaceutical lab [QC, R&D, AR&D] etc.

2. Field observations:

The students arrived at 9:30 am to kondapalli starting at 7:30 am in Vuyyuru by APSRTC bus and entered at 10:00 am Security office of NIFTY Laboratories kondapalli and visited production department and found drugs manufacturing and their quality control, R&D and their work nature ,timings and different qualifications required for getting job in Nifty laboratories and had a lunch at 1:30 pm and finally visited R&D department and then to exited by 5:00pm and reached Vuyyuru by 7:30 pm. And students developed confidence how to attend a job in Pharma Company

3. Outcome:

Field provides Msc final year students to know about QC, R&D departments and their requirements

4. Conclusion:

Students of Msc final year are well satisfied and learned about pharmacy companies and nature of work, they have to handle in lab.



Students at the Nifty lab

A.G & S.G Siddhartha Degree College of Arts & Science

P.G Department of Chemistry

- Name of the Event :Industrial Visit
- Place of visit: Central Institute of Petrochemicals Engineering and Technology, surampalli.
- Date:04-03-2020.
- Introduction:

MSc final year students (33) along with faculty members V.N.V Kishore and Mrs Dilshad begum, Ms. M.Rekha visited on 04-02-2020 at 10 am at central institute of petrochemicals engineering and technology (CIPET) surampalli.

1. Objective:

Objective of this industrial visit is develop students with well known knowledge of plastic technology, processing, testing, recycling modern instrumentation etc.

2. Field observations:

The students of MSc Organic chemistry started at 8:00 am on 3/04/2020 from college campus in APSRTC bus for field trip to polymer Industry located at surampalli by 10:15 am and students had snakes, and visited production department and observer over the work and then move to R&D department and quality control department, store and power plant etc. And finally exited 4:30 pm and reached Vijayawada by 5:30 by Vuyyuru by 7:00pm.

3. Outcome:

Field provides Msc final year students to know about plastic technology, processing, testing, recycling modern instrumentation etc.

4. Conclusion:

All the observations are recorded by students



Students were visited CIPET

A.G & S.G Siddhartha Degree College of Arts & Science

P.G Department Chemistry

- **Name of the Event:** Industrial Visit to KCP Sugars.
- **Place of visit:** Vuyyuru
- **Date:**29-2-2020.
- **Introduction :**

Field trip is conducted for MSc (Organic Chemistry) final year students and Department staff members. Accompanied along with students and reached KCP Sugars by 10a.m

1. **Objective:**

The main objective is to develop industrial knowledge among the students.

2. **Field observations:**

The students started for visiting KCP Sugars at 9:00 am and reached the security gate at KCP Sugars by 10:00 am and their after entering the production the department of cane sugar and then following steps in manufacturing sugars one after another like crushing ,boiling ,filtering ,testing ,precipitin ,farnacing,centrifuging and finally packing sugar. And time is around 1:00 p.m, students had lunch and then visited R&D wing and quality control wing around 3:40 p.m and finally visited bio fertilizer plant with lot of joy and happiness and exited at 5:15 p.m and reached college by 5:45 p.m

3. **Outcome:**

The students were impressed about different stages of sugar Manufacturing and opportunities in Industries and gained knowledge of sugar manufacturing

4. **Conclusion:**

Students were well benefitted in understanding, manufacturing stages of sugar and by products during production.



Students at KCP Sugar Factory