



GOVT. DEGREE COLLEGE
KARVETINAGARAM Chittoor Dt – 517582
Dept. of Chemistry
Departmental Activity Register 2023-24

S. No.	Name of the Activity	Date	No. of Students Participated	Sign of In-charge
1	Industrial/Field Visit	07-08-2023	13	Hanibabu
2	Bridge Course	21-08-2023 to 25-08-2023	20	Hanibabu
3	Student Seminar by K. Thejaswini III B.Sc (MPC)	23-09-2023	13	Hanibabu
4	Student Seminar by P. Malliswari III B.Sc (MPC)	05-10-2023	13	Hanibabu
5	Student Seminar by K. Susmitha III B.Sc (MPC)	07-10-2023	13	Hanibabu
6	Group Discussion	11-10-2023	10	Hanibabu
7	Student Seminar by T. Akhila III B.Sc (MPC)	12-10-2023	13	Hanibabu
8	Extension Lecture	26.10.2023	22	Hanibabu
9	Guest Lecture	26.10.2023	15	Hanibabu
10	Student Seminar By M. Kataiah III B.Sc (MPC)	28-10-2023	13	Hanibabu
11	Student Seminar by K. Chandrika III B.Sc (MPC)	03-11-2023	13	Hanibabu
12	Industrial/Field Visit	21-11-2023	13	Hanibabu
13	Guest Lecture	21.12.2023	18	Hanibabu
14	National Science Day	28-02-2024	28	Hanibabu

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INDUSTRIAL VISIT

**GOVERNMENT DEGREE COLLEGE
KARVETINAGARAM - 517582
DEPARTMENT OF CHEMISTRY
INDUSTRIAL VISIT TO K. R INDUSTRIES
KARVETINAGARAM**



Program: II B.Sc **Class/Group:** MPC

Date: 07-08-2023

Place of visit with address: K. R INDUSTRIES, Karvetinagaram
Chittoor, Andhra Pradesh - 517582

No. of students attended: 13

No. of lecturers accompanied: 02

Objectives of the visit:

- To understand the different steps involved in the treatment of drinking water in R.O Water plant.
- To gain knowledge on purification of drinking water.

Brief report about the Industrial visit:

As a part of Co-curricular activity, the Department of chemistry, GDC Karvetinagaram arranged an Industrial visit on 7th August 2023, in order to have a better understanding of the procedure and equipment used in the R.O water plant in K. R industries. Students of II B.Sc, 13 along with 2 faculty members had visited K. R industries, Karvetinagaram.

The technician in industry explained the water treatment process in the plant. The steps are as follows

WATER TREATMENT PROCESS

i. COLLECTION:-

The raw water which is supplied to the water treatment plant comes from local water bodies.

ii. COAGULATION:-

The raw water is first treated with chemical coagulant alum. The dose of alum varies depending upon the turbidity, color, temperature & pH of the water.

iii. FLASH MIXING:-

Treated water is then subjected to violent agitation in a mixing chamber for a few minutes. This allows quick and rapid dissemination of alum throughout the bulk of the water.

iv. FLOCCULATION:-

This phase involves a slow and gentle stirring of the treated water in a flocculation chamber. The mechanized type of rotor is used. This causes the formation of thick copious white flocculent precipitate. The thicker the precipitate is, the higher is the settling velocity.

v. SEDIMENTATION:-

The coagulated water is now lead into sedimentation tank where it is detained for 2-6 hrs when the flocculent precipitate together with impurities and bacteria settle down in the tank.

At least 95% of the flocculent precipitate needs to be removed from the water before it is admitted to the rapid filters.

vi. FILTRATION:-

Each filter unit has 6 sand beds – coarse pebble, fine pebble, coarse gravel, fine gravel, coarse sand, fine sand.

The thickness of sand bed is 110 cm.

The under drains at the bottom of the filter bed collects the filter water.

Sandfilters getting dirty and beginning to lose efficiency approaching 7-8 feet needing, backwashing.

vii. BACKWASHING :-

As filter proceeds, the suspended impurities and bacteria clog the filters.

The filter soon becomes dirty and begin to lose their efficiency and are subjected to backwashing.

This is done by reversing the flow of water through the sand bed.

Washing is stopped when clear sand is visible and the wash water is sufficiently clean. It takes about 15 minutes.

viii. DISINFECTION :-

This is the last step before storage and distribution of this water.

The process used is chlorination. The chlorine gas is used for effective disinfection.

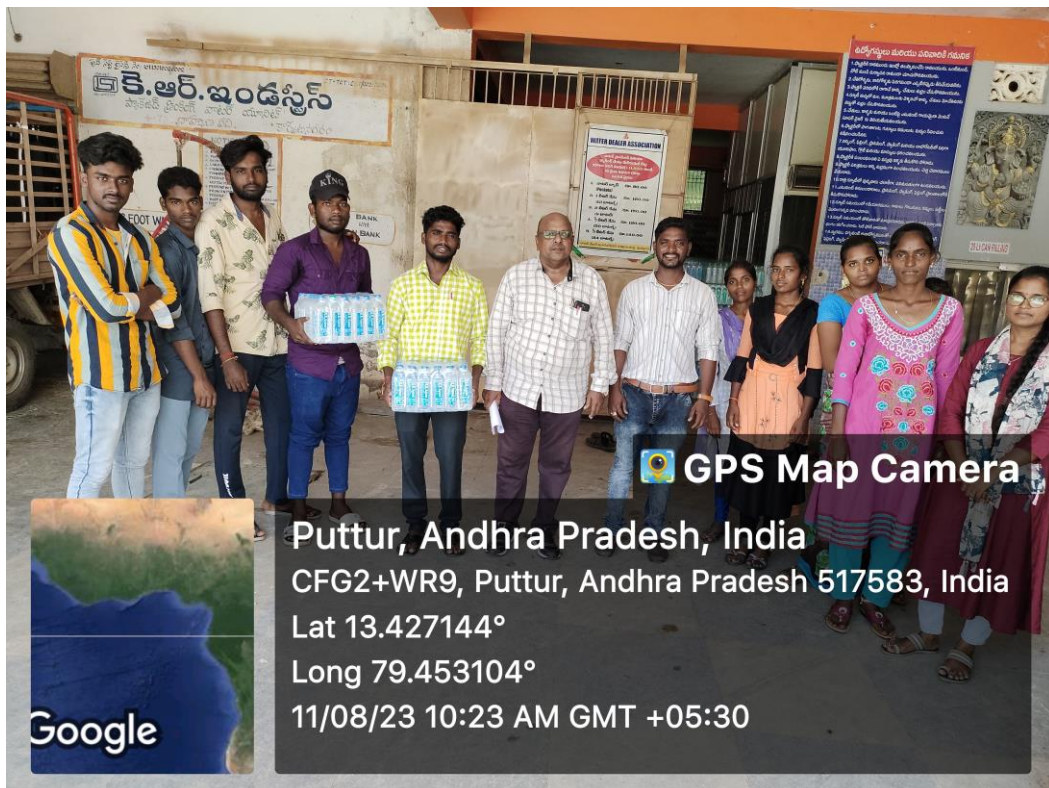
Outcomes of the Industrial visit:

Water plays a very important role in human life, whether for daily routine purpose or human health.

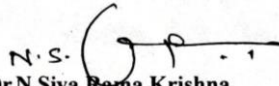
This industrial visit gave us the knowledge about the purification of water on large scale and made us aware about the quality of water since it may affect the human health especially.

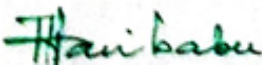
Also the trip made us realized that it is not easy to supply the water directly from the main supply to the people. Thus, thanks to the responsible party and the workers.

Photos:





(Industrial visit to K. R Industries on 7th Aug 2023)


Dr.N.Siva Rama Krishna
Lecturer in Chemistry
Lecturer


Dept. In-Charge


Principal
Govt. Degree College
KARVETINAGARAM-517532
Chittoor Dt., A.P.
Principal

Request for Industrial visit

	GOVERNMENT DEGREE COLLEGE KARVETINAGARAM, Chittoor Dt. - 517582 Accredited by NAAC 'B' Grade ISO Certified 9001 : 2015	Estd : 1995 
Website : www.gdcknagaram.edu.in		E-Mail : knagaram.jkc@gmail.com

Karvetinagaram
Dt: 01-08-2023

From
Dr. S. Vijayulu Reddy,
Principal,

To
The Managing Director
K. R. Industries
Karvetinagaram,
Chittoor (Dt)-517582

Sir,

Sub:GDC-Karvetinagaram-Department of Chemistry-Industrial visit of III B.Sc (MPC)
Students-Request-Regarding

Greetings of the Day! As part of B.Sc, Chemistry curriculum, the students were taught different theoretical knowledge on analysis of water. To get more practical knowledge and exposure on instruments used for analysis of water qualitatively, the Dept. of Chemistry has planned to visit your industry on 07-08-2023.

This industrial visit is visited by II B. ScIV Sem MPC students accompanied by two faculty members. This visit may benefit the students gain experience and exposure on procedures used for qualitative analysis of drinking water and various sophisticated equipment and apparatus used for the analysis.


Hence, I request you to give permission to visit your industry.

Yours Sincerely



PRINCIPAL

Govt. Degree College
KARVETINAGARAM-517582
Chittoor Dt., A.P.


K R Industries
4-73, Brahmin Street
Karvetinagar - 517 582
Chittoor Dist. A.P.

List of students and accompanying faculty



GOVERNMENT DEGREE COLLEGE

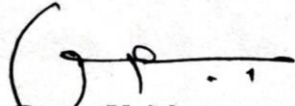
KARVETINAGARAM CHITTOOR - 517582




DEPARTMENT OF CHEMISTRY

List of IIB.Sc (MPC) IV SEMESTER STUDENTS

S.NO.	REGD.NO.	NAME OF THE STUDENT
<u>1</u>	0322021029	CH.RAJA SEKHAR
<u>2</u>	0322021031	J.VIJAY
<u>3</u>	0322021032	J.GANESH
<u>4</u>	0322021033	K.HARIKRISHNA
<u>5</u>	0322021034	K.CHANDRIKA
<u>6</u>	0322021035	K.SUSHMITHA
<u>7</u>	0322021036	K.TEJASWINI
<u>8</u>	0322021037	K.KIRAN SAI
<u>9</u>	0322021039	M.THARUN
<u>10</u>	0322021040	M.KATAIAH
<u>11</u>	0322021041	M.ROJA
<u>12</u>	0322021042	P.MALLISWARI
<u>13</u>	0322021043	T.AKHILA

N.S. 
Dr.N.Siva Rama Krishna
Lecturer in Chemistry


Principal
PRINCIPAL
Govt. Degree College
KARVETINAGARAM-517532
Chittoor Dt., A.P.

LIST OF STUDENTS ATTENDED THE INDUSTRIAL VISIT

GOVT. DEGREE COLLEGE, KARVETINAGARAM

CHITTOOR-517582

DEPARTMENT OF CHEMISTRY

INDUSTRIAL VISIT TO K. R. INDUSTRIES, KARVETINAGARAM

STUDENT ATTENDANCE SHEET ON 07-08-2023

S.NO.	REGD.NO.	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
1	0322021029	CH. RAJA SEK HAR	Ch. Rajasekhar
2	0322021031	J. VIJAY	J. Vijay
3	0322021032	J. GANESH	
4	0322021033	K. HARIKRISHNA	
5	0322021034	K. CHANDRIKA	K. Chandrika
6	0322021035	K. SUSHMITHA	K. Sushmitha
7	0322021036	K. TEJASWINI	K. Tejaswini
8	0322021037	K. KIRAN SAI	K. Kiran Sai
9	0322021039	M. THARUN	M. Tharun
10	0322021040	M. KATAIAH	M. Kataiah
11	0322021041	M. ROJA	M. Roja
12	0322021042	P. MALLISWARI	P. Malliswari
13	0322021043	T. AKHILA	T. Akhila

K R Industries
4-73, Brahmin Street
Karvetnagar - 517 582
Chittoor Dist. A.R.

Haribabu
Dept. In-charge

Principal

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BRIDGE COURSE



**GOVERNMENT DEGREE COLLEGE
KARVETINAGARAM-517582**

**BRIDGE COURSE
For First Year UG Students
2023-24 BATCH**

TEACHING STAFF
Dr. T. HARI BABU
Dr. N. SIVA RAMA KRISHNA



**GOVERNMENT DEGREE COLLEGE
KARVETINAGARAM-517582
Department of Chemistry
Bridge Course for First Year UG Students
2023-24**

Class& Group	: I B.A & I B.Com (Hons)
Course duration	: 5 Days
Course dates	: 21-08-2023 to 25-08-2023

Objectives of the Course:

The Bridge course is aimed to act as a buffer for the new entrants, with an objective to provide adequate time for the transition from Intermediate level to UG level. The main objective of the course is to bridge the gap between concepts studied at intermediate level and concepts they would be studying in UG level. This foundation gives first year UG students a breather, to prepare themselves up before the beginning of first semester courses. During this interaction of 6 days with the faculty and their classmates, the students will be equipped with the knowledge and the confidence needed to take on bigger challenges.

Topics to be covered:

- **Course framework and Syllabus**
- **Atomic structure**
- **Periodic classification of elements**
- **Chemical bonding**
- **Nomenclature of inorganic compounds**
- **Basic concepts in Organic chemistry**

SCHEDULE OF BRIDGE COURSE

S. No.	Date	Time	Class	Topic to be covered	Name of the Lecturer
1	21-08-2023 Monday	2 To 3 PM	I B.A (Hons)	Course framework, syllabus and model question papers	Dr. T. Hari Babu
		12 To 1 PM	IB.Com (Hons)	Course framework, syllabus and model question papers	Dr. N.Sivarama Krishna
2	22-08-2023 Tuesday	2 To 3 PM	I B.A (Hons)	Atomic structure: Atom, element, molecule, compound, mixture, orbit, sub-orbit, orbital, Rules for writing electronic configuration.	Dr. T. Hari Babu
		12 To 1 PM	IB.Com (Hons)	Periodic classification of elements: Classification of elements, Periodic properties of elements	Dr. N.Sivarama Krishna
		10 To 11 AM	IB.Com (Hons)	Nomenclature of inorganic compounds: Formula of different ions, criss-cross method	Dr. N.Sivarama Krishna
3	23-08-2023 Wednesday	12 To 1 PM	I B.A (Hons)	Periodic classification of elements: Classification of elements, Periodic properties of elements	Dr. T. Hari Babu
		10 To 11 AM	IB.Com (Hons)	Nomenclature of inorganic compounds: Formula of different ions, criss-cross method	Dr. N.Sivarama Krishna
4	24-08-2023 Thursday	10 To 11 AM	I B.A (Hons)	Chemical bonding: Types of chemical bonds	Dr. T. Hari Babu
5	25-08-2023 Friday	10 To 11 AM	I B.A (Hons)	Basics of Organic Chemistry: Nomenclature of Organic Compounds	Dr. T. Hari Babu

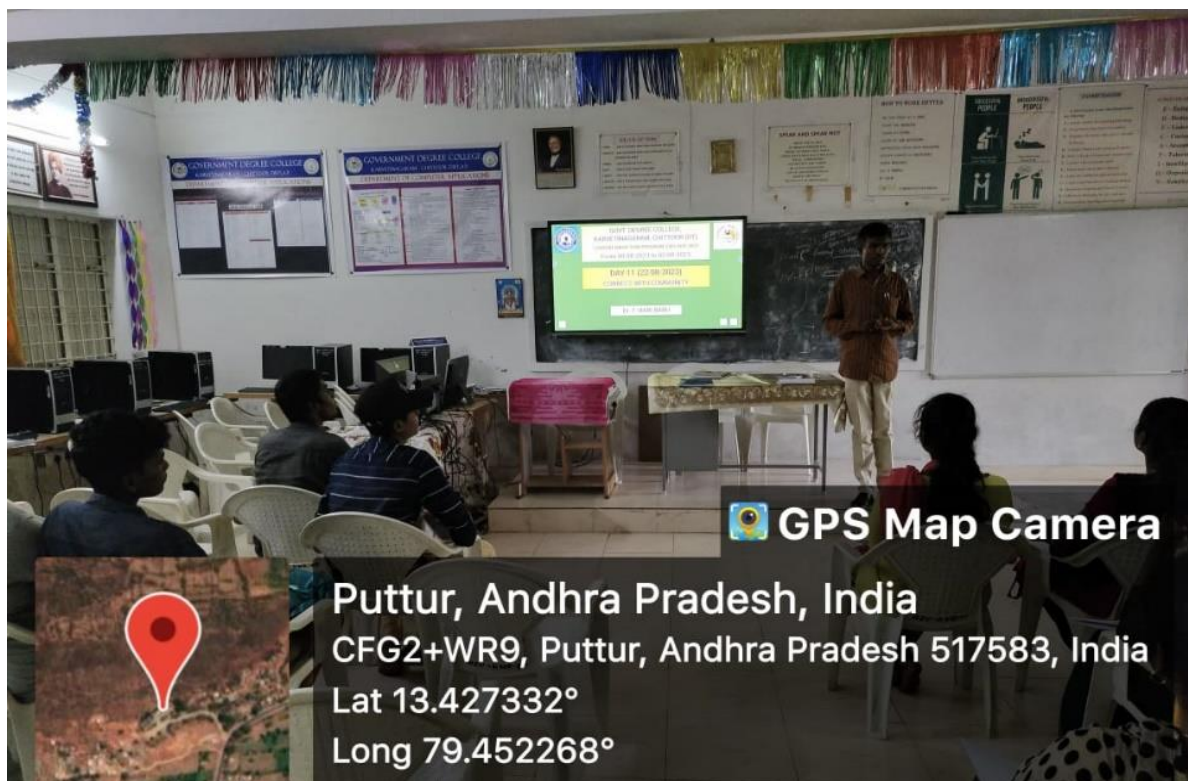
Day-1

Class & Group : I B.A (Hons)
Date : 21-08-2023
Topic : CBCS curriculum frame work for Hons Group
No. of students attended : 11
Name of the Lecturer : Dr. T. Hari Babu

Concepts or Sub-topics covered:

1. CBCS curriculum frame work for B.Sc. students.
2. Chemistry Course structure
3. Chemistry theory and practical syllabus
4. Chemistry internal and external exam model question paper

Photo



Signature of the Lecturer

Signature of the In-charge

Day-1

Class & Group : I B.Com (Hons)
Date : 21-08-2023
Topic : CBCS curriculum frame work for Hons Group
No. of students attended : 20
Name of the Lecturer : Dr. N. Sivarama Krishna

Concepts or Sub-topics covered:

1. CBCS curriculum frame work for B.Sc. students.
2. Chemistry Course structure
3. Chemistry theory and practical syllabus
4. Chemistry internal and external exam model question paper

Photo



Signature of the Lecturer

Signature of the In-charge

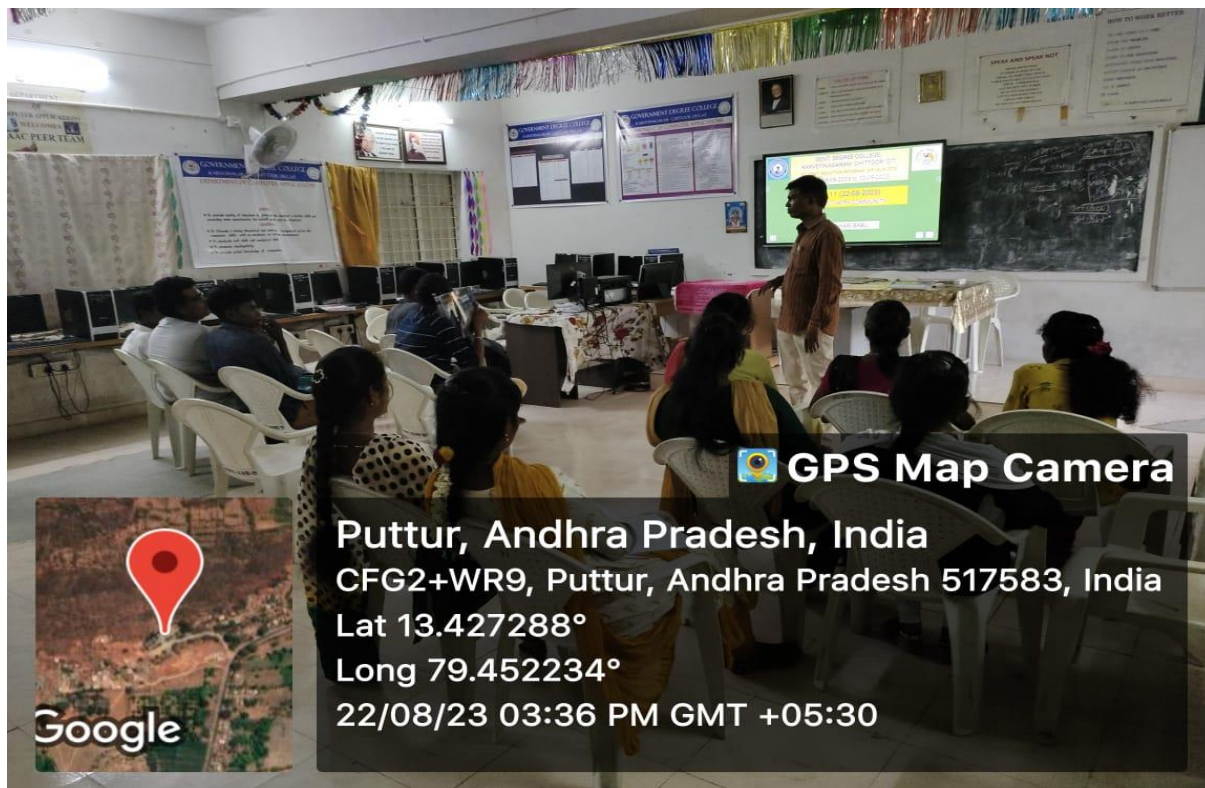
Day-2

Class & Group : I B.A (Hons)
Date : 22-08-2023
Topic : Atomic structure:
No. of students attended : 10
Name of the Lecturer : Dr. T. Hari Babu

Concepts or Sub-topics covered:

1. Atom, element,
2. molecule,
3. compound, mixture,
4. orbit, sub-orbit, orbital,
5. Rules for writing electronic configuration.

Photo



Signature of the Lecturer

Signature of the In-charge

Day-2

Class & Group : I B.Com (Hons)
Date : 22-08-2023
Topic : Periodic classification of elements
No. of students attended : 20
Name of the Lecturer : Dr. N. Sivarama Krishna

Concepts or Sub-topics covered:

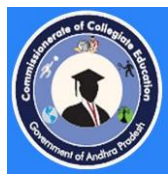
1. Classification of elements,
2. Periodic properties of elements

Photo



Signature of the Lecturer

Signature of the In-charge



GOVERNMENT DEGREE COLLEGE KARVETINAGARAM-517582 DEPARTMENT OF CHEMISTRY STUDENT SEMINAR



Date : 23-09-2023

Date : 3.21 PM

Name of the Student : K. THEJASWINI

Program and Group : III B. Sc (MPC)

Name of the topic : Principle and Applications of Chromatography



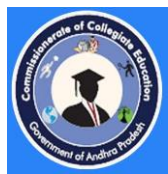
Outcome of the Seminar : Students learned about the principle of chromatography and its types. They were enlightened about applications of chromatography in different fields such as industry, laboratories, diagnostic centers.

Hanbabu

Lecturer

Hanbabu

Lecturer In-Charge



GOVERNMENT DEGREE COLLEGE KARVETINAGARAM-517582 DEPARTMENT OF CHEMISTRY STUDENT SEMINAR



Date: 05-10-2023

Time: 3-35 PM

Name of the Student : P. Malliswari

Program and Group : III B. Sc (MPC)

Name of the topic : Thin Layer Chromatography (TLC)



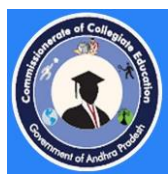
Outcome of the Seminar : Students gained knowledge on the principle of TLC and its importance in the various fields of chemistry. They learned to participate and communicate effectively in this seminar

Hanbabu

Lecturer

Hanbabu

Lecturer In-Charge



GOVERNMENT DEGREE COLLEGE KARVETINAGARAM-517582 DEPARTMENT OF CHEMISTRY STUDENT SEMINAR



Date: 07-10-2023

Time: 4-15 PM

Name of the Student : K. Susmitha

Program and Group : III B. Sc (MPC)

Name of the topic : Paper Chromatography



Outcome of the Seminar : Students gained knowledge on the principle of Paper chromatography and its types , its importance in the various fields of chemistry. They learned to participate and communicate effectively in this seminar

Hanbabu

Lecturer

Hanbabu

Lecturer In-Charge

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GROUP DISCUSSION



GOVERNMENT DEGREE COLLEGE

KARVETINAGARAM - 517582

DEPARTMENT OF CHEMISTRY

GROUP DISCUSSION



Course & Group: III B. Sc (MPC)

Date: 11-10-2023

Name of the Lecturer: Dr. N. Siva Rama Krishna

Name of the topic: Analysis of Drinking Water

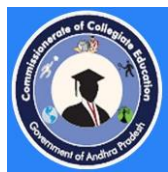


Outcome of the activity:

Students got exposure on how to analyze the standard water quality parameters. The standard parameters are Colour, Odour, pH, Electrical conductance, Total dissolved solids, Alkalinity, Total hardness, Calcium, Chloride, Nitrate, Iron and Sulphate. They are able to understand how to check the feasibility of the ground water for drinking purpose. They are aware about the extent of pollutants in their areas which in turn helps to understand the damage causing to their health. Able to suggest simple traditional treatment methods for households as well as community of rural people.

Lecturer

Lecturer In-charge



GOVERNMENT DEGREE COLLEGE KARVETINAGARAM-517582 DEPARTMENT OF CHEMISTRY STUDENT SEMINAR



Date : 12-10-2023


Date : 2.16 PM

Name of the Student : T. AKHILA

Program and Group : III B. Sc (MPC)

Name of the topic : Column Chromatography



 **GPS Map Camera**

Karvetinagaram , Chittoor, Andhra Pradesh, India
CFG2+WR9, Govt Degree College, Karvetinagaram, Chittoor - 517 582, Andhra Pradesh, India
Lat 13.42727°
Long 79.452161°
12/10/23 02:16 PM GMT +05:30

Google

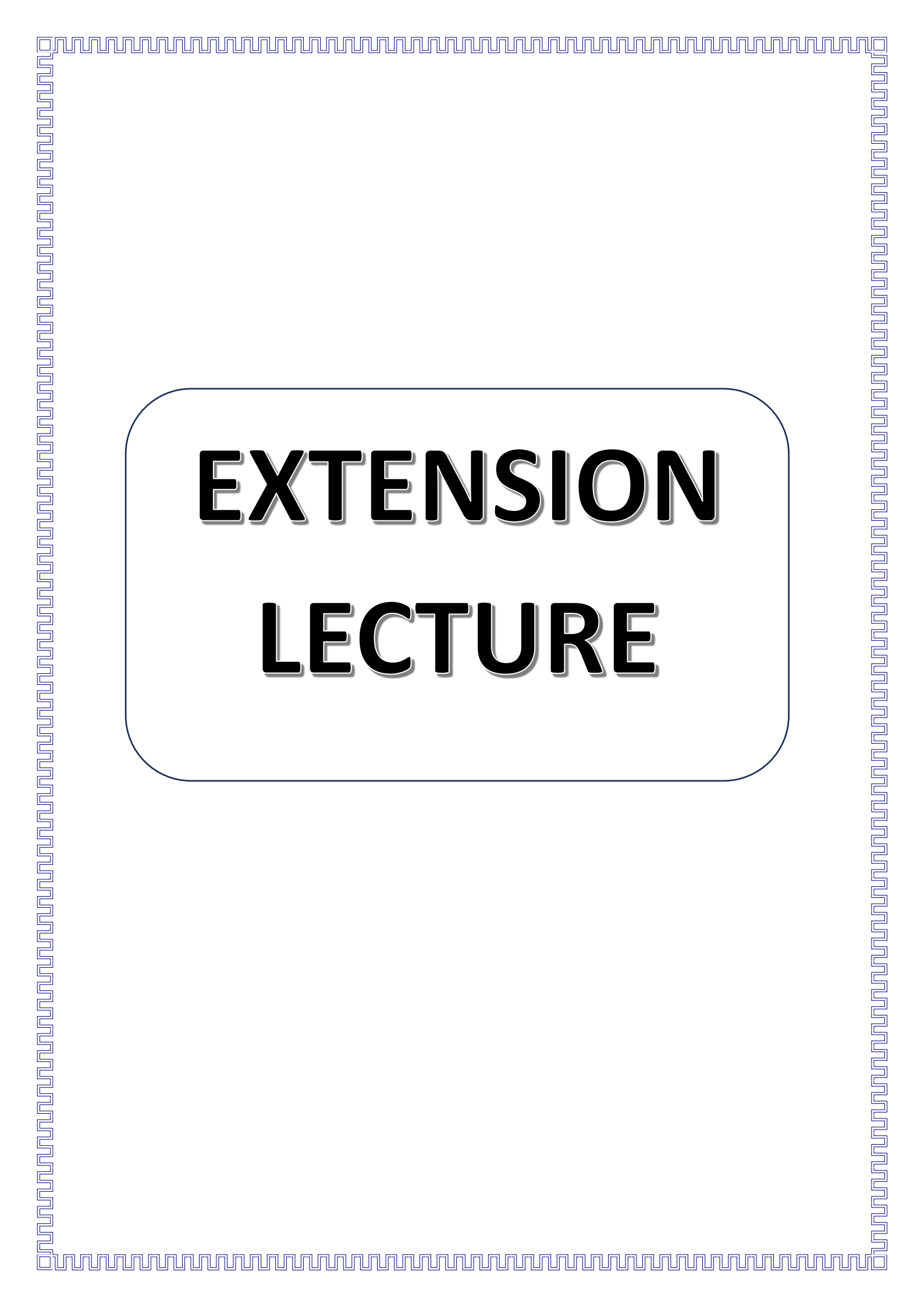
Outcome of the Seminar : Students learned about the principle of column chromatography and its types. They were enlightened about applications of column chromatography in different fields such as industry, laboratories.

Hanbabu

Lecturer

Hanbabu

Lecturer In-Charge

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EXTENSION LECTURE

**GOVERNMENT DEGREE COLLEGE,
KARVETINAGARAM-517 582
DEPARTMENT OF CHEMISTRY
EXTENSION LECTURE**

Date: 26.10.2023

Name of the Resource Person : Dr. T. Hari Babu
Designation : Lecturer in Chemistry
Name of the topic : Green House Effect and Depletion of Ozone layer
Name of the College : Dr.YSR Govt.Degree College, Vedurukuppam



Outcome of the Extension lecture :

The ozone layer is mainly found in the lower portion of the earth's atmosphere. It has the potential to absorb around 97-99% of the harmful ultraviolet radiations coming from the sun that can damage life on earth. If the ozone layer was absent, millions of people would develop skin diseases and may have weakened immune systems. This guest lecture creates awareness on the ozone layer depletion, its causes, ozone depleting substances, effects and solutions of ozone layer depletion.

Further the lecture highlights on greenhouse effect, its causes, consequences and solutions. The students are actively participated and clarified by their doubts on green house effect and ozone layer depletion



చిత్తూరు ఎక్స్‌ప్రెస్ సుక్రవారం

**డా. వై ఎస్ ఆర్ ప్రభుత్వ డిగ్రీ కళాశాలలో...
రసాయన శాస్త్రంలో అతిథి ప్రసంగం**




వెదూరు కుప్పం, చిత్తూరు ఎక్స్‌ప్రెస్, అక్టోబర్ 26 : వెదూరు కుప్పంలోని డా. వై ఎస్ ఆర్ ప్రభుత్వ డిగ్రీ కళాశాలలో రసాయన శాస్త్రం విభాగం ఆధ్వర్యంలో అతిథి ప్రసంగం ఏర్పాటు చేశారు. పాఠశాల ప్రధానం మరియు డాక్టర్ కే.ఎస్. కృష్ణ అనే అంశాలపై కార్యక్రమం ప్రభుత్వ డిగ్రీ కళాశాల రసాయన శాస్త్ర అధ్యాపకులు, డి. పాఠశాల అతిథి ప్రసంగం చేశారు. తోటల కార్యక్రమాన్ని ప్రారంభించిన కళాశాల ప్రెసిడెంట్ డా. అప్పారావు శారద మాట్లాడుతూ వర్షానంతరం నుండి రెండు ముఖ్య అంశాలపై అతిథి ప్రసంగాన్ని ఏర్పాటు చేయడం, ఎంతో ఆసక్తి కలిగిస్తున్న

దని, అది విద్యార్థులకు ఎంతో ఉపయోగకరమైనది అన్నారు. రసాయన శాస్త్ర విభాగం అధికారి డా. వి. ప్రభాకర్ రావు మాట్లాడుతూ విద్యార్థులలో వర్షానంతరంపై స్పృహ కల్పించే అవకాశం, కార్యక్రమములు అందరినీ ఎంపిక చేయడం, వీటివల్ల విద్యార్థులలో వర్షానంతరం కార్యక్రమంగా ప్రవర్తించే అవకాశం ఉందని తెలిపారు. విద్యార్థులు కళాశాలలో చదివే సామాజిక అంశాలను సమాజంలోకి తీసుకువచ్చిన అంశాలను స్పష్టం చేయాలని అన్నారు. డి. పాఠశాల మాట్లాడుతూ పాఠశాల గ్రూప్ ప్రధానం అనే భూమి, భూమి చుట్టూ ఉన్న వాతావరణం వేరేవేరైనా అది చీలిపోతే అలాంటి సమస్యలు ఏర్పడతాయి. వాటిని నివారించే అంశాలపై ప్రజలు అవగాహన పెంచుకోవాలని అన్నారు. వాతావరణం లోని కార్బన్ డయాక్సైడ్, మీథేన్ వంటి భూమి వేరేవేరైనా కారణం అవుతాయని తెలిపారు. అవేదంగా భూమి చుట్టూ ఉన్న వాతావరణంలోని ప్రైవేట్‌లైట్ అనే లాగంలో డాక్టర్ పాఠశాల అంది అది సూర్యుని నుండి వచ్చే అతిథి లోపల కాంతి తోషించుకుంటుంది. మొక్కలు, మనుషులపై పడకుండా తక్కువ కార్బన్ కే గురికాకుండా మరీయు అన్ని ఉత్పన్నమవుతుంది తెలిపారు. అయితే గాలిలో చేరే క్లోరో ఫ్లోరో కార్బన్ ప్రభావంతో డాక్టర్ పాఠశాల రసాయనం ఏర్పడుతున్నాయని చీలిపోతే రసాయనం ఉంటాయని తెలిపారు. సమాజంలో చివరికి ప్రెసిడెంట్ మరియు అధ్యాపకులు, అతిథి అధ్యాపకున్ని అభినందిస్తూ సన్మానించారు. ఈ కార్యక్రమంలో రసాయన శాస్త్ర అధ్యాపకులు, సరిత, జె.ఎస్.ఎ.సి.ఆర్-అధ్యక్షులు డాక్టర్.పి. వెంకటేశ్వర్లు, ఎల్.ఎ.ఎం. డి.అక్షయ, ఎ.చంద్రబాబు మరియు ఇతర అధ్యాపక అధ్యాపకత్తల బృందం మరియు విద్యార్థులు విద్యార్థులు పాల్గొన్నారు.

Lecturer

Lecturer in Charge

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GUEST LECTURE

**O/o the Principal,
Government Degree College, Karvetinagaram**

Date: 25-10-2023

Place: Karvetinagaram

From
The Principal,
Government Degree College,
Karvetinagaram

To
The Principal,
Dr. YSR Government Degree
College, Vedurukuppam

Sub: Request to relieve Dr V. Prabhakar Rao, Lecturer in Chemistry as a guest lecturer to our college-Reg.

Madam,

It is to bring to your kind notice that incharge of the Department of Chemistry of our college has requested me to invite Dr V. Prabhakar Rao, Lecturer in Chemistry of your college as a guest lecturer to our college on 26-10-2023. Hence, I request you to permit him to attend our college to deliver his invaluable lecture on the forenoon of the said date.

Thanking you Madam,



Yours sincerely,

SVM

PRINCIPAL
Govt. Degree College
KARVETINAGARAM-517582
Chittoor Dt., A.P.

GOVERNMENT DEGREE COLLEGE, KARVETINAGARAM-517582

DEPARTMENT OF CHEMISTRY

GUEST LECTURE

Date: 26.10.2023

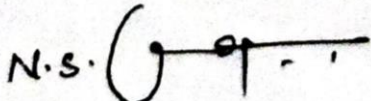
Name of the Resource Person : Dr. V. Prabhakara Rao
Designation & : Lecturer in Chemistry
Address of the Resource Person : Dept. of Chemistry, GDC, Vedurukuppam
Name of the topic : Green House Effect and Depletion of Ozone Layer

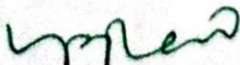


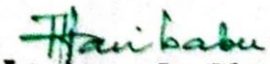


Outcome of the Guest lecture :

The ozone layer is mainly found in the lower portion of the earth's atmosphere. It has the potential to absorb around 97-99% of the harmful ultraviolet radiations coming from the sun that can damage life on earth. If the ozone layer was absent, millions of people would develop skin diseases and may have weakened immune systems. This guest lecture creates awareness on the ozone layer depletion, its causes, ozone depleting substances, effects and solutions of ozone layer depletion. Further the lecture highlights on greenhouse effect, its causes, consequences and solutions. The students are actively participated and clarified by their doubts on green house effect and ozone layer depletion.


N.S. Gopali
Lecturer


Resource person


Hanu Babu
Lecturer In-Charge
 26/10/2023



GOVERNMENT DEGREE COLLEGE, KARVETINAGARAM, CHITTOOR (DT)

GUEST LECTURE

Name of the Resource person: Dr. V. PRABHAKAR RAO Date: 26.10.2023

Name of the topic: GREEN HOUSE EFFECT AND DEPLETION OF
OZONE LAYER.

The following students attended the Guest lecture

S.No	Name of the student	Class & Group	Signature
1.	M KATAIAH	2 nd BSc MRC	Mkataiah
2.	J. Ganesh	2 nd BSc MRC	J. Ganesh
3.	K. Hari Krishna	2 nd BSc MRC	K. Hari Krishna
4.	K. Kiran Sai	3 rd BSc (MPC)	K. Kiran Sai
5.	V. Supriya	1 st B.Sc (Comput)	V. Supriya
6.	P. Geethanjali	1 st B.Sc (Comput)	P. Geethanjali
7.	e. vignesh	1 st BSc (com)	e. vignesh
8.	M. U'shaya	1 st B.Sc (comp)	M. U'shaya
9.	A. Hendry subasree	1 st BSc (com)	A. Hendry subasree
10.	P. Malliswari	3 rd B.Sc-(MPC)	P. Malliswari
11.	M. Roja	3 rd BSc (MPC)	M. Roja
12.	K. Thejaswini	3 rd BSc (MPC)	K. thejaswini
13.	T. Akhila	3 rd B.Sc (MPC)	T. Akhila
14.	M. Thorun	3 rd BSc (MPC)	M. Thorun
15.	J. vijay	3 rd B.Sc (MPC)	J. Vijay

N.S. G
Lecturer

V. Prabhakar
Resource person

Hanibabu
Lecturer In-Charge
26/10/2023

**O/o the Principal,
Government Degree College, Karvetinagaram**

Attendance Certificate

Dr V. Prabhakar Rao, Lecturer in chemistry, Dr. YSR Government Degree, Vedurukuppam has delivered guest lecture to final year B.Sc (MPC) students on 26-10-2023 on the topic Greenhouse effect and Ozone layer depletion. His presentation was very informative and useful to our students and his services are appreciable.

Place: 26-10-2023

Date: Karvetinagaram

SVT 26/10/23

**PRINCIPAL
Govt. Degree College
KARVETINAGARAM-517582
Chittoor Dt., A.P.**



సమస్త జీవరాశులకు ఓజోన్ పొర రక్ష

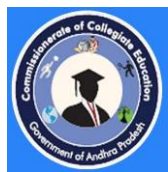
కార్యేటిసగరం, మేజర్ న్యూస్:

ప్రపంచంలోని సమస్త జీవరాశులకు ఓజోన్ పొర రక్షణగా ఉన్నదని వెదురుకుప్పం డిగ్రీ కళాశాల రసాయన శాస్త్ర అధ్యాపకులు డాక్టర్ వి.ప్రభాకర్ తెలిపారు. గురువారం కార్యేటిసగరం ప్రభుత్వ డిగ్రీ కళాశాల నందు గ్రీన్ హౌస్ ఎఫెక్ట్ - ఓజోన్ పొర క్షీణత అనే అంశంపై విద్యార్థులకు అతిథి ప్రసంగాన్ని ఇచ్చారు. ఈ సందర్భంగా



ఆయన మాట్లాడుతూ సూర్యుని నుండి వచ్చే అతినీలలోహిత కిరణాల నుండి ఓజోన్ పొర భూమి మీద ఉన్న సమస్త జీవరాశులను కాపాడుతున్నదని, అయితే వాతావరణ కాలుష్యం కారణంగా గాలిలో చేరే క్లోరోఫ్లోరో కార్బన్ల ప్రభావంతో ఓజోన్ పొర దెబ్బతింటున్నదని, ఇది జీవరాశుల మనుగడను దెబ్బతీస్తుందని గుర్తు చేశారు. అనంతరం కళాశాల ప్రిన్సిపాల్ డాక్టర్ ఎస్. విజయులు రెడ్డి మాట్లాడుతూ నిత్యం మానవులు వాడే పర్ఫ్యూమ్స్, అయిల్, పెట్రోల్ వాహనాల నుండి వెలువడే పొగ. పరిశ్రమలు విసర్జించే పొగ లాంటివి ఓజోన్ పొరను నాశనం చేస్తున్నాయని తెలిపారు. ఈ కార్యక్రమంలో రసాయన శాస్త్ర విభాగాధిపతి డాక్టర్ హరిబాబు, అధ్యాపకులు డాక్టర్ శివరామకృష్ణ, డాక్టర్ ధనంజయరెడ్డి, స్వామి శివయ్య, భార్గవి తదితరులు పాల్గొన్నారు.

నేను సాధిక చంద్రశాఖలు కారణంగా



GOVERNMENT DEGREE COLLEGE KARVETINAGARAM-517582 DEPARTMENT OF CHEMISTRY STUDENT SEMINAR



Date : 28-10-2023

Date : 2.28 PM

Name of the Student : M. KATAIAH

Program and Group : III B. Sc (MPC)

Name of the topic : Atomic Emission Spectroscopy



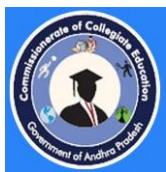
Outcome of the Seminar : Students learned about the principle and experimental procedure of atomic emission spectroscopy. They were enlightened about its applications in different fields such as industry, laboratories.

Hanbabu

Lecturer

Hanbabu

Lecturer In-Charge



GOVERNMENT DEGREE COLLEGE KARVETINAGARAM-517582 DEPARTMENT OF CHEMISTRY STUDENT SEMINAR



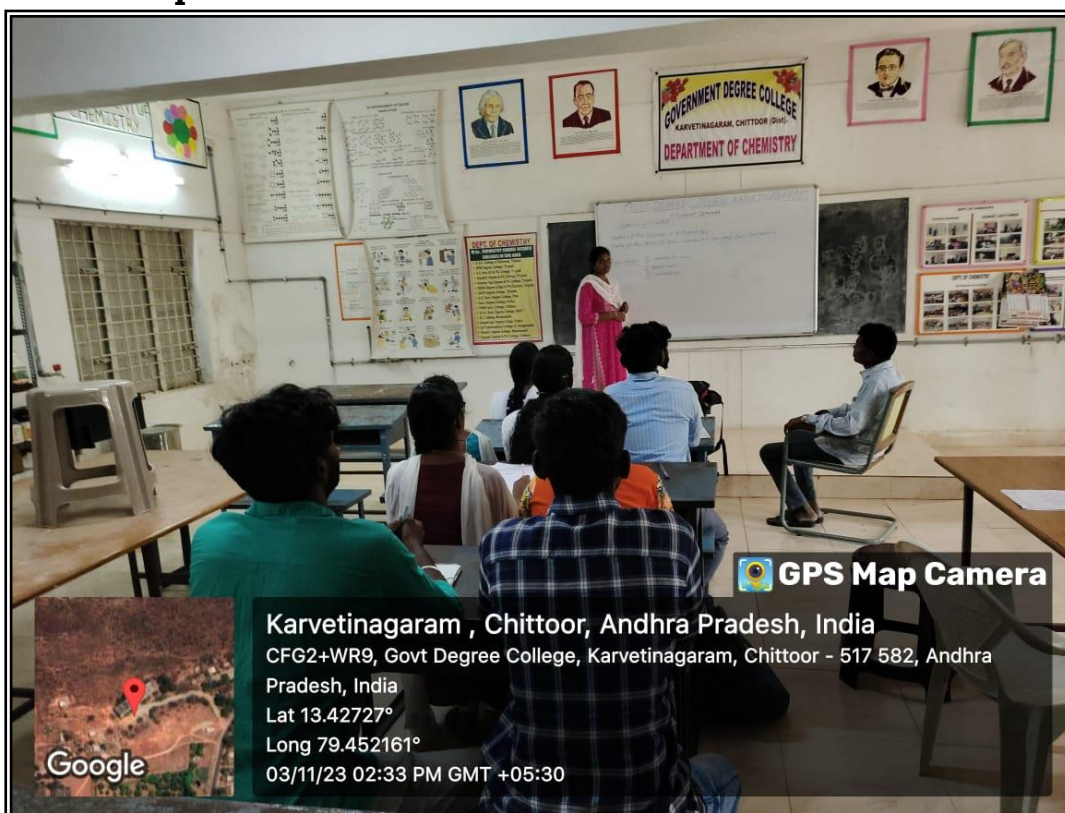
Date: 03-11-2023

Time : 2.33 PM

Name of the Student : K. CHANDRIKA

Program and Group : III B. Sc (MPC)

Name of the topic : Beer-Lambert's Law and their Limitations



Outcome of the Seminar : Students learned about the principle of Beer-Lambert's Law and their Limitations. They were enlightened about applications of Beer-Lambert's Law in determining the concentration of metal complexes.

Hanbabu

Lecturer

Hanbabu

Lecturer In-Charge

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INDUSTRIAL VISIT

GOVT. DEGREE COLLEGE, KARVETINAGARAM

DEPARTMENT OF CHEMISTRY

Dt: 18-11-2023

From

Dr. T. Hari Babu
Dept. of Chemistry

To

Dr.S.Vijayulu Reddy,
Principal

Sir,

Sub: Department of Chemistry-Industrial visit of III B. Sc (MPC)
Students to M/s. Malladi Drugs & Pharmaceuticals Ltd., -
Request-Regarding

As part of III B. Sc, V Semester Chemistry curriculum, the students were taught different theoretical knowledge on synthesis and analysis of drugs and pharmaceuticals. To get more practical knowledge and exposure on apparatus and instruments used for synthesis and analysis of drugs qualitatively and quantitatively, the Dept. of Chemistry has planned to visit M/s. Malladi Drugs & Pharmaceuticals Ltd., on Saturday i.e., 25-11-2023.

This industrial visit is visited by III B. Sc (MPC) V Sem students accompanied by two Chemistry faculty members. This visit may benefit the students to gain experience and exposure on procedures used for synthesis and analysis of drugs and pharmaceuticals and various sophisticated equipment and apparatus used for the analysis.

Hence, I request you sir to give permission us to visit M/s. Malladi Drugs & Pharmaceuticals Ltd.,

Yours Sincerely

T. Hari Babu



GOVERNMENT DEGREE COLLEGE

KARVETINAGARAM, Chittoor Dt. - 517582

Re-Accredited by NAAC "B++" Grade

ISO Certified 9001 : 2015

Estd : 1995



Website : www.gdcknagaram.edu.in

E-Mail : knagaram.jkc@gmail.com

Karvetinagaram

Dt: 21-11-2023

From

Dr.S.Vijayulu Reddy,
Principal,
Ltd.,

To

The H R Manager
M/s. Malladi Drugs & Pharmaceuticals

Gajulamandyam - 517520,
Tirupati

Sir,


Sub: GDC-Karvetinagaram-Department of Chemistry-Industrial visit
of III B. Sc (MPC) Students-Request-Regarding

Greetings of the Day! As part of III B. Sc, V Semester Chemistry curriculum, the students were taught different theoretical knowledge on synthesis and analysis of drugs and pharmaceuticals. To get more practical knowledge and exposure on apparatus and instruments used for synthesis and analysis of drugs qualitatively and quantitatively, the Dept. of Chemistry has planned to visit your industry on Saturday i.e., 25-11-2023.

This industrial visit is visited by III B. Sc (MPC) V Sem students accompanied by two Chemistry faculty members. This visit may benefit the students gain experience and exposure on procedures used for synthesis and analysis of drugs and pharmaceuticals and various sophisticated equipment and apparatus used for the analysis.

Hence, I request you to give permission us to visit your industry.

Yours Sincerely


Principal
Govt. Degree College
KARVETINAGARAM-517582
Chittoor Dt., A.P.



GOVERNMENT DEGREE COLLEGE

Estd : 1995

KARVETINAGARAM, Chittoor Dt. - 517582

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ISO Certified 9001 : 2015



Website : www.gdcknagaram.edu.in

E-Mail : knagaram.jkc@gmail.com

DEPARTMENT OF CHEMISTRY

Karvetinagaram


Dt: 21-11-2023

List of III B. Sc (MPC) V Semester Students visiting industry

S.NO.	REGD.NO.	NAME OF THE STUDENT
1	0322021029	CH. RAJA SEKHAR
2	0322021031	J. VIJAY
3	0322021032	J. GANESH
4	0322021033	K. HARIKRISHNA
5	0322021034	K. CHANDRIKA
6	0322021035	K. SUSHMITHA
7	0322021036	K. TEJASWINI
8	0322021037	K. KIRAN SAI
9	0322021039	M.THARUN
10	0322021040	M.KATAIAH
11	0322021041	M.ROJA
12	0322021042	P. MALLISWARI
13	0322021043	T. AKHILA

Faculty to be accompanied

1. Dr. N. Siva Rama Krishna
2. Dr. T. Hari Babu


Principal
Govt. Degree College
KARVETINAGARAM-517582
Chittoor Dt., A.P.

Principal


GOVERNMENT DEGREE COLLEGE
KARVETINAGARAM, CHITTOOR-517582
DEPARTMENT OF CHEMISTRY
INDUSTRIAL VISIT TO MALLADI DRUGS, TIRUPATI

CIRCULAR

Course : B. Sc (MPC)
Year & Semester : III Year & V Sem
Total No. of Students : 13
Total no. of Boys : 07
Total no. of Girls : 06
Accompanying Staff : 1. Dr. N. Siva Rama Krishna
2. Dr. T. Hari Babu
Date of Visit : 25.11.2023
Address of the Industry : M/s. Malladi Drugs & Pharmaceuticals
Ltd.,
Gajulamandyam – 517520
Tirupati
Contact Numbers 1. Dr. N. Siva Rama Krishna
8125429047
2. Dr. T. Hari Babu
9550026857

N.S. 
Lecturer 21/11/23

Hanibabu 21/11/23
Dept. In-charge


Principal
PRINCIPAL
Govt. Degree College
KARVETINAGARAM-517582
Chittoor Dt., A.P.

**GOVERNMENT DEGREE COLLEGE
KARVETINAGARAM - 517582
DEPARTMENT OF CHEMISTRY
INDUSTRIAL VISIT**



Program: III B.Sc **Class/Group:**, MPC

Date: 25-11-2023

Place of visit with address: Malladi Drugs, Gajulamandyam, Tirupati

No. of students attended: 13

No. of lecturers accompanied: 02

Objectives of the visit:

- To understand the different steps involved in the large-scale manufacturing process of Active Pharmaceutical Ingredients (APIs)
- To gain knowledge on various quality testing instrumentations such as stability room, Gas – Liquid chromatography, HPLC, spectroscopy instrumentations..

Brief report about the Industrial visit:

As a part of Co-curricular activity, The Department of Chemistry organized an industrial visit to Malladi Drugs, Gajulamandyam, Tirupati on 25-11-2023. The students of III B.Sc (MPC) and two faculty members had visited the industry as part of co-curricular aspects.

We have reached the industry by 10.30 AM. The HR manager, Sri K. Devaraj gave nice welcome and received us friendly. He introduced Sri Ramanjulu Naidu, Senior Manager of the Multi Production Manufacturing unit to us.

At the outset, Sri Ramanjulu Naidu encouraged the students to opt pharma industry as their career by removing the fear of the pharma industry. He lead us to Multi Production Manufacturing unit and demonstrated the large scale manufacturing process of Active Pharmaceutical Ingredients (APIs) which are essential components to make a drug. He explained about the reactors where the reagents and solvents are mixed followed by centrifuge machines in which the product of the reaction are separated. He instructed us about the safety regulations that would be strictly followed by the working staff.

Next we were led to Quality Control Division by Sri Mothi Sai, Senior Manager of the division. He enlightened about the various quality testing instrumentations departments such as stability room, Gas – Liquid chromatography, HPLC, spectroscopy instrumentations.

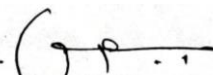
Finally we were led to formulation department, where the formulation process of the tablets, capsules, syrups was explained.

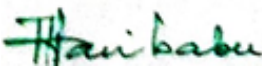
A nice lunch was arranged for us by the Management. We thanked the HR Manager for giving us this opportunity.

Photos:



(Industrial visit to K. R Industries on 7th Aug 2023)


N.S.
Dr.N.Siva Rama Krishna
Lecturer in Chemistry
Lecturer


Dept. In-Charge


Principal
Govt. Degree College
KARVETINAGARAM-517532
Chittoor Dt., A.P.
Principal

LIST OF STUDENTS ATTENDED THE INDUSTRIAL VISIT

GOVT. DEGREE COLLEGE, KARVETINAGARAM

CHITTOOR-517582

DEPARTMENT OF CHEMISTRY

INDUSTRIAL VISIT TO MALLADI DRUGS, TIRUPATI

STUDENT ATTENDANCE SHEET ON 25-11-2023


S.NO.	REGD.NO.	NAME OF THE STUDENT	SIGNATURE OF THE STUDENT
1	0322021029	CH. RAJA SEK HAR	<i>Ch. Rajasekhar</i>
2	0322021031	J. VIJAY	<i>J. Vijay</i>
3	0322021032	J. GANESH	<i>J. Ganesh</i>
4	0322021033	K. HARIKRISHNA	<i>K. Hari Krishna</i>
5	0322021034	K. CHANDRIKA	<i>K. Chandrika</i>
6	0322021035	K. SUSHMITHA	<i>K. Sushmitha</i>
7	0322021036	K. TEJASWINI	<i>K. Tejaswini</i>
8	0322021037	K. KIRAN SAI	<i>K. Kiran Sai</i>
9	0322021039	M.THARUN	<i>M. Tharun</i>
10	0322021040	M.KATAIAH	<i>M. Kataiah</i>
11	0322021041	M.ROJA	<i>M. Roja</i>
12	0322021042	P. MALLISWARI	<i>P. Malliswari</i>
13	0322021043	T. AKHILA	<i>T. Akhila</i>

Haribabu 25/11/23
Dept. In-charge

C. Deep Kumar



S. V. S. Srinivas
Principal 25/11

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GUEST LECTURE

Estd : 1995



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KARVETINAGARAM, Chittoor Dt. - 517582

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ISO Certified 9001 : 2015



Website : www.gdcknagaram.edu.in

E-Mail : knagaram.jkc@gmail.com

To

The Professor & Head,
Department of Environmental Sciences,
S. V University, Tirupati.

Sir,

Sub: GDC, Karvetinagaram – Dept. of Chemistry – Guest Lecture – Resource Person
from your Department – Request – Reg.

The Department of Chemistry of our College intends to conduct a Guest Lecture on **21st & 22nd Dec. 2023** for III B. Sc Chemistry students of our college. In this connection, I request you to kindly spare the service of **Dr. T. Damodharam**, Professor & Head, Environmental Sciences of S.V University to deliver a Lecture on and enlighten the students of our college. This is submitted for your kind consideration and necessary action.

Thanking You,

Yours faithfully

PRINCIPAL

Govt. Degree College
KARVETINAGARAM-517582
Chittoor Dt., A.P.

Place: Karvetinagaram

Date: 18-12-2023

**GOVERNMENT DEGREE COLLEGE,
KARVETINAGARAM-517582
DEPARTMENT OF CHEMISTRY
GUEST LECTURE**

Date: 21.12.2023

Name of the Resource Person : Prof. T. Damodharam
Designation : Professor and Head
Address of the Resource Person : Dept. of Environmental Sciences,
S.V.University, Tirupati
Name of the topic : Environmental pollution & its impacts on
living things



Outcome of the Guest lecture :

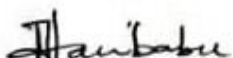
Pollutants in the environment or climate-related events can have a massive impact on our health. Air and noise pollution, and heavy metals like mercury are directly related to health issues like asthma, hearing loss, dehydration and heart diseases. Heatwaves and floods affect the whole population but cause the highest burden for vulnerable groups like infants, the elderly, those in poor health or communities living on floodplains.

Air pollution is the single most important cause of environmental health hazards affecting millions of Europeans. Air pollution can cause lung and heart diseases and premature deaths. More than 90% of Europeans living in cities are exposed to harmful levels of fine particulate matter, which causes more than 200,000 premature deaths per year in Europe.

Noise pollution from highways, airports and streets can lead to hearing loss, tinnitus, sleep loss, and cardiovascular and metabolic diseases. Long-term exposure to environmental noise is estimated to cause 12,000 premature deaths and contribute to 48,000 new cases of ischemic heart disease per year in Europe.

Pollutants can enter rivers and lakes, eventually accumulating in our oceans. Some chemicals used in industry and agriculture can enter the food chain and accumulate in our bodies. Ongoing biomonitoring research sheds light on these chemicals and their health impacts.

Climate change affects all Europeans. It can cause heatwaves, elevated exposure to UV radiation, extreme and harmful weather events, prolonged and intensified pollen seasons, the proliferation of infectious diseases and forest fires. Vulnerable groups like the elderly, children and people with a low income or in poor health are most affected. One in ten European schools and hospitals may also be at risk of flooding.


Lecturer


Resource person


Lecturer In-Charge 22/12/23



GOVERNMENT DEGREE COLLEGE, KARVETINAGARAM, CHITTOOR (DT)



GUEST LECTURE ATTENDANCE

Date: 22-12-2023

Name of the Resource person: Prof. T. Damodharam

Name of the topic: Environmental Pollution and its impacts on living things

The following students attended the Guest lecture

S.No	Name of the student	Class & Group	Signature
1	M. Tharun	III BSC (MPC)	M. Tharun
2	K. Kiran Sai	III rd BSC (MPC)	K. Kiran Sai
3	J. Vijay	III Bsc (MPC)	J. Vijay
4	P. Mallikarjun	III B.sc (MPC)	P. Mallikarjun
5	K. Sushmitha	III B.sc (MPC)	K. Sushmitha
6	K. Chandrika	III BSc (mpc)	K. Chandrika
7	E.H. Jagadeesh	III B.sc (mpc)	E.H. Jagadeesh
8	M. Katschi	III B-sc mpc	M. Katschi
9	E. Jagan	III Bsc (MPC)	E. Jagan
10	P. Geethanjali	I st B.Sc (MPC)	P. Geethanjali
11	V. Chitra	I st Bsc (MPC)	V. Chitra
12	S. Shahid Basha	I st B.com	S. Shahid Basha
13	V. Syamala	I st B.sc (Hon)	V. Syamala
14	A. Chenchamma	I st B.Sc (Hon)	A. Chenchamma
15	V. Supriya	I st B.Sc (Hon)	V. Supriya
16	P. Akhila	III rd B.Sc (MPC)	P. Akhila
17	J. Ganesh	III rd Bsc (MPC)	J. Ganesh
18	K. Hari Krishna	III rd Bsc (mpc)	K. Hari Krishna

Han'babu
Lecturer

T. Damodharam
Resource person

Han'babu 22/12/23
Lecturer In-Charge

Estd : 1995

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Website : www.gdcknagaram.edu.in E-Mail : knagaram.jkc@gmail.com

Date: 22-12-2023

ATTENDANCE CERTIFICATE

Prof. T. Damodharam, Professor & Head, Department of Environmental Sciences, S. V University, Tirupati has delivered guest lecture to final year B. Sc (MPC) students for two days (from 21st & 22nd Dec- 23) on the topic "**Environmental Pollution and its impacts on living things**". His presentation was very informative and useful to our students and his services are appreciable.



PRINCIPAL
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పర్యావరణాన్ని కాపాడుకుందాం

కార్వేటీనగరం, డిసెంబరు 22: పర్యావరణాన్ని కాపాడుకోవాల్సిన బాధ్యత అందరిపై ఉందని ఎస్వీయూ విద్యా సలహాదారు అబ్రహం అన్నారు. శుక్ర వారం ప్రభుత్వ డిగ్రీ కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో పర్యావ రణ కాలుష్యం-జీవరాశులపై దాని ప్రభావం అనే అంశంపై విద్యార్థులకు అవ గాహన కల్పించారు. ప్రిన్సిపాల్ డాక్టర్ ఎస్.విజయలు రెడ్డి, అధ్యాపకులు హరిబాబు, శివరామకృష్ణ, కార్తీక్, శ్రీనివాసులు, విద్యార్థులు పాల్గొన్నారు.



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సత్యం చి న్నామి వారి తీర్థ ప్రసాదాలను అందజేశారు.

పర్యావరణ కాలుష్యం నివారణ అందరి బాధ్యత



కార్వేటీనగరం, మేజర్ న్యూస్:

పర్యావరణ కాలుష్య నివారణ అందరి బాధ్యతని తిరుపతి, ఎస్వీ యూనివర్సిటీ విద్యా సలహాదారు అబ్రహం పేర్కొన్నారు. శు క్రవారం కళాశాల రసాయనశాస్త్ర విభాగం ఆధ్వర్యంలో పర్యావరణ కాలుష్యం-జీవరాశులపై దాని ప్రభావం అనే అంశంపై విద్యార్థులకు అవగాహన కల్పించారు. ఈ కార్యక్రమానికి గెస్ట్ లెక్చరర్గా విచ్చేసినా అబ్రహం, కళాశాల ప్రిన్సిపాల్ డాక్టర్ ఎస్.విజయలు రెడ్డి మాట్లాడుతూ అనేక రకాల కాలుష్యాలు, వాటి కారణాలు, ప్రభావాలు, నియంత్రణ చర్యల గురించి విద్యార్థులకు వివరించారు. ఈ కార్యక్రమంలో అధ్యాపకులు హరిబాబు, శివరామకృష్ణ, కార్తీక్, శ్రీనివాసులు, విద్యార్థులు పాల్గొన్నారు.

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**NATIONAL
SCIENCE DAY**



GOVERNMENT DEGREE COLLEGE
KARVETINAGARAM - 517582
DEPARTMENT OF CHEMISTRY
CELEBRATION OF NATIONAL SCIENCE DAY-2024

Date: 28-02-2024

Introduction

Every year on February 28, India celebrates National Science Day, honouring Sir C.V. Raman's discovery of the Raman Effect.

Theme of National Science Day 2024

The theme for National Science Day 2024 is “Indigenous Technologies for Viksit Bharat”. The importance of science and technology in addressing global issues and building a more sustainable future for everybody is highlighted by this theme. The theme centers on topics such as: Climate change, Resource depletion, Degradation of the environment, Sustainable development

Objectives:

The objectives of National Science Day 2024 were outlined, emphasizing the promotion of scientific inquiry, innovation, and the exploration of solutions to global challenges.

Inaugural Ceremony: The day began with an inaugural ceremony attended by faculty members, students, and the Principal of the College. Addressing to the gathering, **Principal Dr. S. Vijayulu Reddy** enlightened the students that every activity in the environment is connected with Science and Technology He motivated the students to give attention to observations of scientific activities in day-to-day life.

Addressing the gathering, **Head of the Dept. of Physics, Dr. V. B. Achari** highlighted the latest innovations in science and technology. He expressed the position of our country in journals publishing data base, Scopus. He also enlightened the gathering about the theme of this year Science day i.e, “Indigenous Technologies for Viksit Bharat”.



Lecturer

Lecturer In-Charge