



Andhra Christian College, Guntur

Affiliated to Acharya Nagarjuna University
Sambasivapet main road, Guntur -522001, A. P.

E mail: accollegeguntur@ymail.com

website: www.accollegeguntur.com

Criterion: II

Metric: 2.3.1



2.3.1 Student Centric Methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT-enabled tools including online resources for effective teaching and learning process

2018-2019 to 2022-2023

WORKSHOPS

Andhra Christian College::Guntur

Department of Chemistry

Report on Workshop: Water Quality Analysis

Event Details:

- **Title:** Water Quality Analysis Workshop
 - **Date:** 12th July 2022
 - **Time:** 11:00 AM
 - **Venue:** Andhra Christian College, Guntur
 - **Department:** Chemistry
 - **Resource Person:** Dr. Uma Maheswara Rao, Head, Department of Chemistry, Hindu College, Guntur
 - **Participants:** Faculty of the Department of Chemistry and B.Sc. students
-

Objectives of the Workshop:

1. **Educational Enhancement:** To provide students with a practical understanding of water quality analysis and its significance in environmental chemistry.
 2. **Skill Development:** To equip students with hands-on experience in using various analytical techniques and instruments for assessing water quality.
 3. **Awareness:** To raise awareness about the importance of water quality monitoring and its impact on public health and the environment.
 4. **Research Orientation:** To inspire students to take up research projects related to water quality and environmental protection.
-

Workshop Proceedings:

The workshop commenced with a welcome address by the Head of the Department of Chemistry, Andhra Christian College, emphasizing the importance of water quality analysis in today's context.

Introduction of the resource person, Dr. Uma Maheswara Rao, highlighting his expertise and contributions to the field of Chemistry.

Lecture by Dr. Uma Maheswara Rao:

Dr. Uma Maheswara Rao delivered an informative lecture on the principles and methods of water quality analysis.

He discussed various parameters of water quality, including pH, dissolved oxygen, turbidity, hardness, and the presence of contaminants such as heavy metals and microbial pathogens.

Demonstration:

Dr. Uma Maheswara Rao demonstrated the use of analytical instruments such as spectrophotometers, pH meters, and titration setups.

He showcased the procedures for collecting water samples, preparing them for analysis, and interpreting the results.

Practical Session:

Students participated in hands-on activities, performing water quality tests under the guidance of faculty members and Dr. Uma Maheswara Rao.

They learned to handle and calibrate equipment, conduct tests accurately, and record data systematically.

Interactive Q&A:

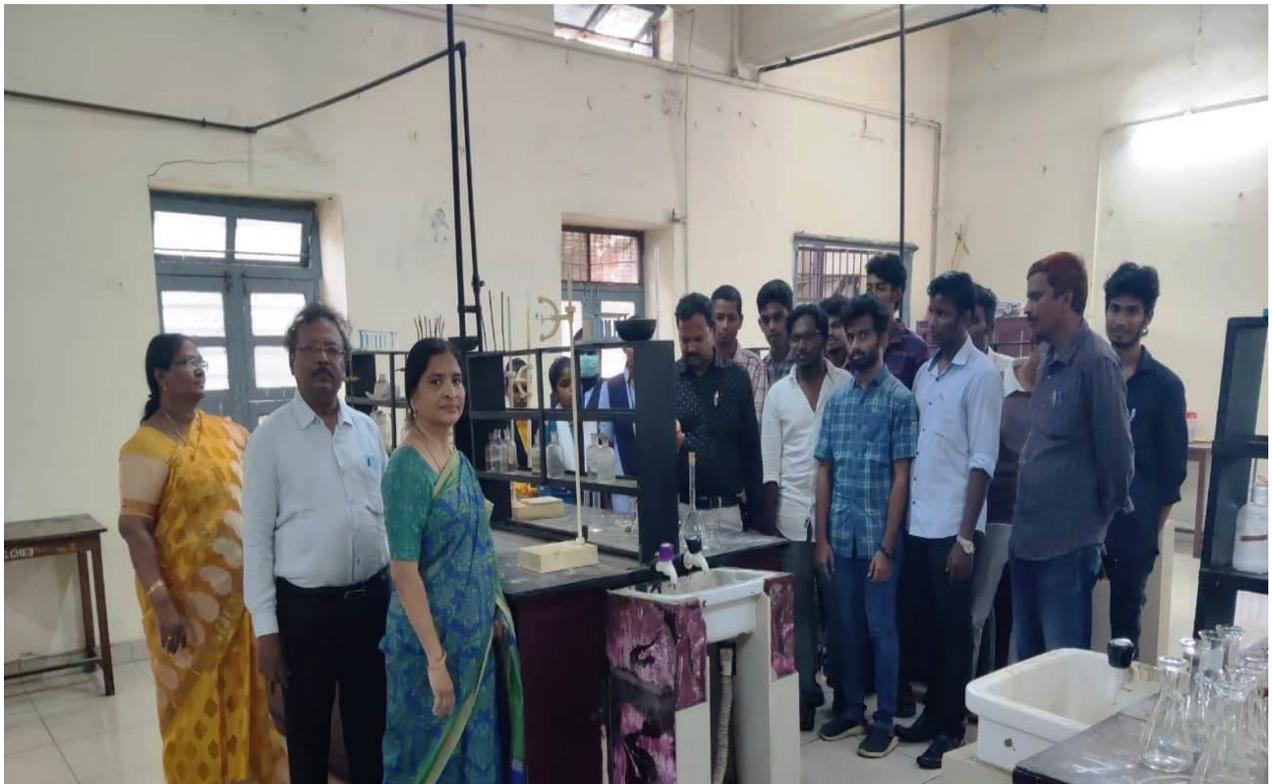
An interactive session followed, where students had the opportunity to ask questions and discuss their observations and challenges with Dr. Rao and the faculty.

Outcomes of the Workshop:

1. **Enhanced Knowledge:** Students gained a comprehensive understanding of water quality parameters and the methods used to analyze them.
 2. **Practical Skills:** Participants developed practical skills in using analytical instruments and conducting water quality tests.
 3. **Awareness:** The workshop heightened awareness about the critical role of water quality in maintaining public health and ecological balance.
 4. **Research Initiatives:** Several students expressed interest in pursuing research projects related to water quality, indicating the workshop's success in motivating them toward scientific inquiry.
 5. **Networking:** The event facilitated networking among students, faculty, and the resource person, fostering potential collaborations for future projects.
-

Conclusion:

The workshop on Water Quality Analysis was a significant educational event that successfully met its objectives. The participation and enthusiasm of the students and the insightful guidance provided by Dr. Uma Maheswara Rao made the workshop an enriching experience. The Department of Chemistry at Andhra Christian College looks forward to organizing more such workshops to continue enhancing the educational journey of its students.



| S.No Y ₂₁ | Class No. | Name of the student | Signature of the student |
|-------------------------|--------------|------------------------|-----------------------------|
| 1. | 601 | Sk.Nazeera | sk. Nazeera |
| 2. | 604 | Y. Naga Bhargavi | y. Naga Bhargavi |
| 3. | 606 | SK.Naseema | sk. naseema |
| 4. | 607 | K. Madhu Kumar | K. madhu Kumar. |
| 5. | 608 | T. Jeeva Saranu | T. Jeeva Saranu. |
| 6. | 609 | B. Varalakshmi | B. varalakshmi |
| 7. | 610 | Ch. Daiva Prasad | Ch. Daiva Prasad. |
| 8. | 614 | K. Charan | K. Charan |
| 9. | 616 | Md. Sultan Sharif | Md. Sultan Sharif |
| 10. | 617 | D Prasanna Babu | D. prasanna Babu |
| 11. | 901 | P. Venkateswarlu | P. venkateswarlu. |
| 12. | 902 | J. Pallavi | J. Pallavi |
| 13. | 903 | E. Gopi | E. Gopi |
| 14. | 904 | R. Gopi Raj | R. Gopi Raj |
| 15. | 905 | M. Subhash | M. Subhash |
| 16. | 908 | K. Ammulu | K. Ammulu. |
| 17. | 910 | Balaji Naik | Balaji Naik |
| 18. | 911 | T. Vivek | T. vivek |
| 19. | 912 | K. Joel Paul Samuel | K. joel paul samuel. |
| 20. | 913 | A. Keerthana | A. keerthana. |

HEAD, CHEMISTRY DEPARTMENT
A.C. COLLEGE, GUNTUR.

HEAD, CHEMISTRY DEPARTMENT
A.C. COLLEGE, GUNTUR.

ANDHRA CHRISTIAN COLLEGE, GUNTUR
DEPARTMENT OF CHEMISTRY

List of Students Attended The Workshop

Date: 12- 07- 2022

Classes I,II and III B,Sc (M.P.C. & C.B.Z.)

| S.No. | Roll No. (Y ₂₂) | Name of the Student | Signature of the Student |
|-------|--------------------------------|---------------------|--------------------------|
| 1 | 602 | J. Haveela | J. Haveela. |
| 2 | 603 | K.Hemanth | K. Hemanth. |
| 3 | 604 | Sk.Shaheena | Sk. Shaheena. |
| 4 | 605 | S.Rani | S. Rani |
| 5 | 606 | A.Ravi Teja | A. Ravi Teja. |
| 6 | 607 | G.Ganesh | G. Ganesh. |
| 7 | 609 | M.Keerthi | M. Keerthi |
| 8 | 610 | D.Yesu Babu | D. Yesu Babu. |
| 9 | 611 | E.Sreekanth | E. Sreekanth. |
| 10 | 902 | O.Keerthi | O. Keerthi |
| 11 | 903 | A.Malathi | A. Malathi |
| 12 | 904 | M.Veda Sree | M. Veda Sree |
| 13 | 906 | M.Omnadh | M. OMNATH |
| 14 | 909 | K.Babu | K. Babu. |
| 15 | 910 | N.Prasanna Kumar | N. Prasanna Kumar |
| 16 | 911 | B.Rani | B. Rani |

HEAD, CHEMISTRY DEPARTMENT
A.C. COLLEGE, GUNTUR.

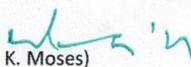
ANDHRA CHRISTIAN COLLEGE, GUNTUR
(Day, Evening and PG)

NOTICE

Date:11-07-2022

This is to inform you that there will be a workshop on water quality analysis tomorrow i.e, 12th July 2022, conducted by Chemistry Department at 11.00 AM. Dr. Uma Maheswar Rao, HOD of Chemistry, Hindu College, will attend the workshop.

All the students of B.Sc (M.P.C. and CBZ) are asked to attend the programme without fail.


(Dr. K. Moses)

PRINCIPAL
PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
(Day, Evening & P.G)
GUNTUR

Copy to:

1. The coordinator, IQAC, Andhra Christian College.
2. The office manager, Andhra Christian College.



ANDHRA CHRISTIAN COLLEGE, GUNTUR
DEPARTMENT OF COMMERCE
WORKSHOP ON
INTELLECTUAL PROPERTY RIGHTS

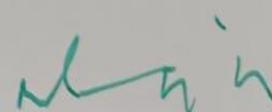
ANDHRA CHRISTIAN COLLEGE :: GUNTUR
(Day, Evening & P.G.)
NOTICE

Date : 09.09.2022

A Workshop on “**Intellectual Property**” will be organized by the Department of Commerce on 12.09.2022. **Mr.B.Seshagiri Rao**, Sr.Lecturer in Commerce, B.S.S.B. Degree College, Tadikonda will deliver the message. All the Commerce students are advised to attend without fail.

Copy to:

1. The Co-ordinator, IQAC, Andhra Christian College.
2. The Office Manager, Andhra Christian College.


PRINCIPAL
PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
(Day / Even. & P.G)
GUNTUR

A workshop on Intellectual Property Rights was organised by the Department of commerce in Room No3 at A. c. college, Guntur on 12-09-2022. The work shop was conducted by T. Chandra Babu Head of The Department of commerce, AC College, Guntur with Example of Mr B. Seshagiri Rao M.com Head, Dept. of commerce BSSR College. Tadikonda is the speaker for the work shop. The work shop began with examples of small things like Patents for plastic bottle design, sharpen design and with more examples. The Speaker further explained the various types of patents (i. e) design. The speaker answered the Questions like what exactly is a patent and What happens after you filled it. He also said that there are Various platforms of for filling a patent. The speaker cleared several. myths and misconceptions relating to patent. The Workshop was attend by more than 45 students. The work shop ended with vote of thanks by Mr. T.V. Prakash Babu Sr lecture in commerce and by felicitation to the Speaker by the faculty of commerce.







ENROLLED STUDENTS

| Intellectual Property Rights 12-09-2022 | | |
|---|---------------------|--------------------|
| S.NO | Name of The student | Signature |
| 1. | S. Anusha | S. Anusha |
| 2. | B. Venkata Suresha | B.V. Suresha |
| 3. | T. ROMA AMULYA | T. Roma Amulya |
| 4. | V. Vijaya Durga | V. Vijaya Durga |
| 5. | J. Anulya | J. Anulya |
| 6. | Shaik. Suhana | Shaik. Suhana |
| 7. | E. Veronika | E. Veronika |
| 8. | K. Praneetha | K. Praneetha |
| 9. | M. MARY | M. Mary. |
| 10. | G. SIVAKUMARI | G. Siva Kumari. |
| 11. | K. Hrudayanjali | K. Hrudayanjali |
| 12. | K. Vyshnavi | K. Vyshnavi |
| 13. | SK. Faeedh | SK. Faeedh |
| 14. | S. TEJA | S. TEJA |
| 15. | B. Jagadeesh | B. Jagadeesh. |
| 16. | SK. Basheer | SK. Basheer |
| 17. | Shaik. LaLahmad | SK. Lael Ahmad. |
| 18. | R. VENKATESH | R. Venkatesh |
| 19. | T. Emmaniyelu Raju | T. Emmaniyelu Raju |
| 20. | K. Mahesh | K. Mahesh |
| 21. | R. Gopi NAIK | R. Gopinath |

Intellectual Property Rights 12-09-2022

| S.NO | Name of The student | Signature |
|------|---------------------|--------------------|
| 1. | S. Anusha | S. Anusha |
| 2. | B. Venkata Suresha | B.V. Suresha |
| 3. | T. ROMA AMULYA | T. Roma Amulya |
| 4. | V. Vijaya Durga | V. Vijaya Durga |
| 5. | K. Amulya | K. Amulya |
| 6. | Shaik. Suhana | Shaik. Suhana |
| 7. | E. Veronika | E. Veronika |
| 8. | K. Praneetha | K. Praneetha |
| 9. | M. MARY | M. Mary. |
| 10. | G. SIVAKUMARI | G. Sivakumari. |
| 11. | K. Hrudayanjali | K. Hrudayanjali |
| 12. | K. Vysnavi | K. Vysnavi |
| 13. | SK. Faeedh | SK. Faeedh |
| 14. | S. TEJA | S. TEJA |
| 15. | B. Jagadeesh | B. Jagadeesh. |
| 16. | SK. Basheer | SK. Basheer. |
| 17. | Shaik. Lal Ahmad | SK. Jael Ahmad. |
| 18. | R. Venkatesh | R. Venkatesh |
| 19. | T. Emmaniyelu Raja | T. Emmaniyelu Raja |
| 20. | K. Mahesh | K. Mahesh |
| 21. | R. Gopi Naik | R. Gopi Naik |

| | Name of The Student | Signature |
|-----|------------------------------|-------------------|
| 41. | R. Manoj Kumar | R. Manoj Kumar |
| 42. | D. Haris | D. Haris |
| 43. | K. N. Karthik | N. Karthik |
| 44. | K. <u>TRINADH</u> | K. <u>Trinadh</u> |
| 45. | A. RAVINDRA Nallk | A. Ravi Nallk |
| 46. | K. Timoti | K. Timothi |

Andhra Christian College, Guntur

Department of Chemistry

Workshop on Adulteration of Food in collaboration with AGMARK

Name of the activity: Workshop on Adulteration of Food and its detection.

Date: 09-02-2023

Objectives:

1. To create awareness among the students about food adulteration.
2. To study some of the common food adulterants present in different food stuffs.
3. To maintain quality of foodstuff and edible substances.
4. To protect the interests of consumers by eliminating fraudulent and deceptive practices.

Report: The Department of Chemistry in collaboration with AGMARK, organised a workshop on Adulteration of Food and its Detection, in J.D.Seelam Seminar Hall. A team of five members from AGMARK explained about adulteration and its consequences on human health and illustrated various types of adulteration. They also informed that an Act was enacted by Indian Parliament to monitor standard of quality and purity of food, known as THE PREVENTION OF FOOD ADULTERATION ACT, 1954, as adulteration can be a serious threat to public health. Under this act, food inspectors are responsible for sampling and sending the same for analysis to ensure food safety and quality. Food inspector can inspect any place where the food is produced, sold or stored for selling purpose. Guilt will be punished with imprisonment for not less than six months and up to three years with a fine of Rs.1000.

After the lecture, they demonstrated detection of adulteration in various food materials.

Key points:

Adulteration is the process by which quality or the nature of given substance is reduced through addition of foreign substance. The food is considered adulterated if

- Any cheaper and unhealthy substance has been added.
- Food contains rotten or decomposed material which is unfit for consumption.
- Food contains any prohibited preservative or added excessive amount of preservatives.

Types of food adulteration:

- Intentional
- Incidental
- Metallic contamination

Intentional adulteration: The adulterants are added deliberately with the intention of increasing the profit.

Example: sand, stones, chalk powder, water, dyes etc.

Incidental: The adulterants are found in the food due to ignorance, negligence or lack of proper facilities.

Example: Pesticides, rodents, larvae in food, etc.

Metallic contamination: Addition of metal in food substances.

Example: Lead in water, arsenic in pesticides etc.

Common food adulterations:

Milk: This can be adulterated with starch, milk powder and urea, which may cause cancer or acute renal failure.

Dal, turmeric: These are adulterated with a non-permitted colour, Metanil yellow, which may cause tumour or cancer.

Sugar and salt: These are adulterated with chalk powder and white sand, leading to stomach disorder.

Tea powder: This is adulterated with used tea leaves, dye, artificial colour or iron filings which cause cancer or tetanus.

Chilli powder: is adulterated with Sudan red, red brick powder, grit, sand, saw dust, leading to stomach disorder or cancer.

Acknowledgements:

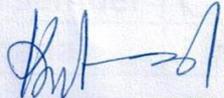
The faculty of Chemistry extends our sincere thanks to our Principal, Dr. K. Moses, for according permission to conduct the programme and his support. The department is thankful to the AGMARK team for enlightening the students about food safety.



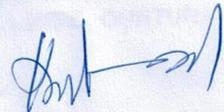


List of Students Attended

| S.No. | Roll No. (Y ₂₂) | Name of the Student | Signature of the Student |
|-------|--------------------------------|---------------------|--------------------------|
| 1. | 602 | J. Haveela | J. Haveela |
| 2. | 603 | K. Hemanth | K. Hemanth |
| 3. | 604 | Sk. Shaheena | Sk. Shaheena |
| 4. | 605 | S. Rani | S. Rani |
| 5. | 606 | A. Ravi Teja | A. Ravi Teja |
| 6. | 607 | G. Ganesh | G. Ganesh |
| 7. | 609 | M. Keerthi | M. Keerthi |
| 8. | 610 | D. Yesu Babu | D. Yesu Babu |
| 9. | 611 | E. Sreekanth | E. Sreekanth |
| 10. | 902 | O. Keerthi | O. Keerthi |
| 11. | 903 | A. Malathi | A. Malathi |
| 12. | 904 | M. Veda Sree | M. Veda Sree |
| 13. | 906 | M. Omnadh | M. OMNATH |
| 14. | 909 | K. Babu | K. Babu |
| 15. | 910 | N. Prasanna Kumar | N. Prasanna Kumar |
| 16. | 911 | B. Rani | B. Rani |


HEAD, CHEMISTRY DEPARTMENT
A.C. COLLEGE, GUNTUR.

| S.No. | Roll No. (Y ₂₁) | Name of the student | Signature of the student |
|-------|--------------------------------|---------------------|--------------------------|
| 1. | 601 | Sk. Nazeera | Sk. Nazeera |
| 2. | 604 | Y. Naga Bhargavi | Y. Naga Bhargavi |
| 3. | 606 | Sk. Naseema | Sk. Naseema |
| 4. | 607 | K. Madhu Kumar | K. Madhu Kumar |
| 5. | 608 | T. Jeeva Saranu | T. Jeeva Saranu |
| 6. | 609 | B. Varalakshmi | B. Varalakshmi |
| 7. | 610 | Ch. Daiva Prasad | Ch. Daiva Prasad |
| 8. | 614 | K. Charan | K. Charan |
| 9. | 616 | Md. Sultan Sharif | Md. Sultan Sharif |
| 10. | 617 | D. Prasanna Babu | D. Prasanna Babu |
| 11. | 901 | P. Venkateswarlu | P. Venkateswarlu |
| 12. | 902 | J. Pallavi | J. Pallavi |
| 13. | 903 | E. Gopi | E. Gopi |
| 14. | 904 | R. Gopi Raj | R. Gopi Raj |
| 15. | 905 | M. Subhash | M. Subhash |
| 16. | 908 | K. Ammulu | K. Ammulu |
| 17. | 910 | Balaji Naik | Balaji Naik |
| 18. | 911 | T. Vivek | T. Vivek |
| 19. | 912 | K. J. Paul Samuel | K. J. Paul Samuel |
| 20. | 913 | A. Keerthana | A. Keerthana |


 HEAD, CHEMISTRY DEPARTMENT
 A.C. COLLEGE, GUNTUR.

Andhra Christian College, Guntur
(Day, Evening and PG)

NOTICE

Date: 08 -02-2023

This is to inform you that there will be an awareness programme and workshop on "FOOD ADULTERATION AND ITS DETECTION" conducted by Chemistry Department in collaboration with AGMARK on 09-02-2023 at 11.00 AM.

The students and staff of all the departments are requested to attend the programme without fail.




PRINCIPAL
PRINCIPAL
Andhra Christian College
GUNTUR.

Copy to:

1. The coordinator, IQAC, Andhra Christian College.
2. The office manager, Andhra Christian College.