

# Andhra Christian College::Guntur

## DEPARTMENT OF P.G ZOOLOGY

### HANDS ON TRAINING BY DR. T. UMA MAHESWARA RAO

HOD OF CHEMISTRY, HINDU COLLEGE, GUNTUR, FOR M.Sc ZOOLOGY STUDENTS

#### **Introduction**

Hands on training by Dr. T. Uma Maheswara Rao for M.Sc Zoology students on spectrophotometry and calorimeter.

#### **Objectives of the Seminar**

1. To make the students equipped with the knowledge of calorimeter and spectrography on 25-02-2020 at 10am-5pm.

#### **Participants:**

All M.Sc Zoology students (nearly 40) and Zoology staff.

#### **Description in brief:**

The resource person primarily explains: The colorimeter is mostly used for color difference measurements in production and inspection applications. The spectrophotometer is mostly utilized in labs and research and development settings for high-precision analysis and precise color management.

Later, the resource person was approached by the students, who asked thoughtful questions and got their questions answered.

And later, using the apparatus in experiments, the students identified various wave lengths using various components.

#### **Outcome:**

The training helped the students to understand the working principle of spectrometer and calorimeter in detail and enabled them to handle the instrument for academic or research oriented purpose.

#### **Interactive Session**

The seminar also included an interactive session where participants had the opportunity to ask questions and discuss their doubts with Dr. T. Uma Maheswara Rao. This session was highly engaging and provided additional clarity.

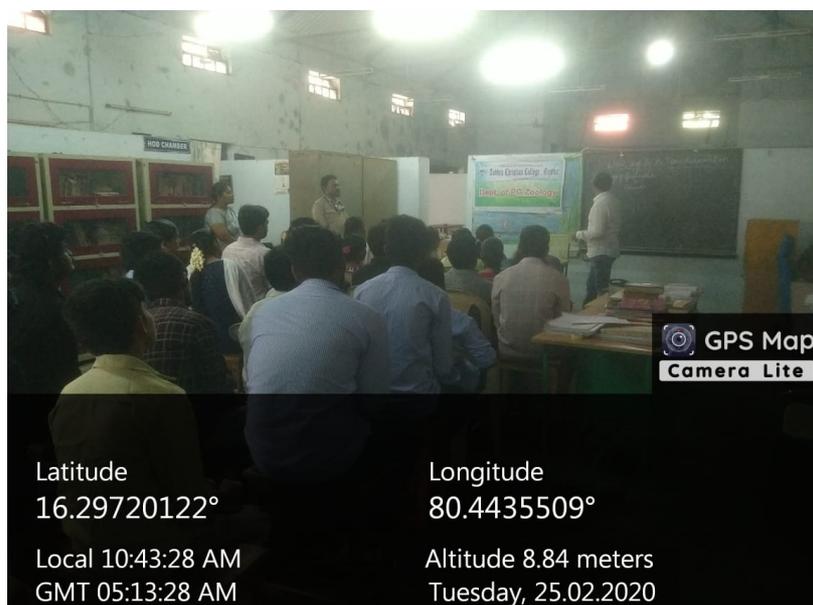
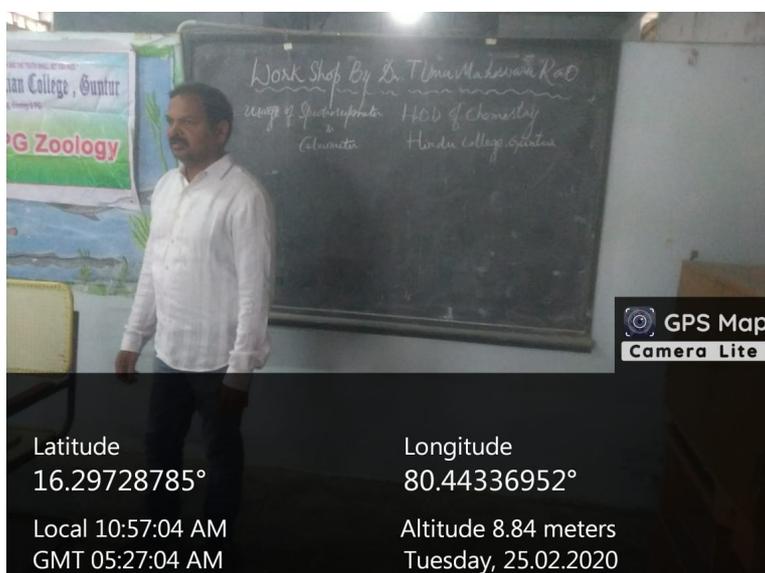
## Conclusion:

The resource person has started with the brief description of the various instruments utilised in bio-sciences. The brief description of the spectroscopy and calorimeter was explained by the resource person with the principle. The students were involved much in the analysis of different types of volatile and non-volatile samples in various modes, operations in spectroscopy and calorimeter.

## Acknowledgements

The Department of P.G Zoology, Andhra Christian College, Guntur, extends its heartfelt gratitude to Dr. T. Uma Maheswara Rao for his valuable contribution to the workshop. Special thanks to the faculty members, and students for their active participation and support.

### Resource person Dr. T. Uma Maheswara Rao explaining the principle of spectrophotometer and calorimeter.



**Resource person Dr. T. Uma Maheswara Rao teaching the experiment with instruments.**



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**ANDHRA CHRISTIAN COLLEGE::GUNTUR**  
**Post Graduate Department of Zoology**  
 2019 - 20

S.No	Name	Regd.No	Signature
1	MOUNIKA A	Y20ZO01001	Mounika
2	NANAGA NIKITHA A	Y20ZO01002	N. Nikitha
3	RAVI TEJA A	Y20ZO01003	Ravi Teja
4	RAJYA LAKSHMI B	Y20ZO01004	Rajya Lakshmi
5	CHANDRAHAS B	Y20ZO01005	Chandrasahas
6	SANIA B	Y20ZO01006	Sania
7	MOUNIKA B	Y20ZO01007	Mounika
8	CHERISHMA MARIYO D	Y20ZO01008	Cherishma Mariyo
9	SAI GOWTHAMI D	Y20ZO01009	Sai Gowthami
10	SRI LAKSHMI G	Y20ZO01010	Sri Lakshmi
11	ANUSHA G	Y20ZO01011	Anusha
12	ANITHA G	Y20ZO01012	Anitha
13	RAVI TEJA G	Y20ZO01013	Ravi Teja
14	JOHNY BASHA SK	Y20ZO01014	Johny Basha
15	SANDEEP K	Y20ZO01015	Sandeep
16	SUSHMA RANI K	Y20ZO01016	Sushma Rani
17	SHYNI K	Y20ZO01017	Shyni
18	ROJA RANI K	Y20ZO01018	Raja Rani
19	AJAY KUMAR M	Y20ZO01019	Ajay Kumar
20	SRIKANTH M	Y20ZO01020	Srikanth
21	RAJA MOUNIKA N	Y20ZO01021	Raja Mounika
22	MASTAN P	Y20ZO01022	Mastan
23	ANUSHA P	Y20ZO01023	Anusha
24	PRASAD T	Y20ZO01024	Prasad
25	LAKSHMI PRASANNA P	Y20ZO01025	Lakshmi Prasanna
26	HANIYA SULTANA SK	Y20ZO01026	Haniya Sultaner
27	RASULBI SK	Y20ZO01027	Rasulbi
28	MOHAMMAD HUSSAIN SK	Y20ZO01028	Mohammad Hussain
29	SK SUHEERA KHATHUN	Y20ZO01029	Suheera Khathun
30	MANASA S	Y20ZO01030	Manasa
31	SWASTI SUNDAR MOHAPATRA	Y20ZO01031	Swasti Sundar
32	VIJAYA DURGA T	Y20ZO01032	Vijaya Durga
33	SOWJANYA V	Y20ZO01033	Sowjanya
34	ROJI Y	Y20ZO01034	Roji

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ANDHRA CHRISTIAN COLLEGE::GUNTUR  
Post Graduate Department of Zoology  
2020 - 21

S.No	Name	Regd.No	Signature
1	BHAGYA RAJ B	Y21ZO01001	Bhagya Raj
2	ANUSHA J	Y21ZO01002	Anusha
3	JENIFER SHEELA A	Y21ZO01003	Jenifer Sheela
4	PADMAVATHI K	Y21ZO01004	Padmavathi
5	PRANEETHA K	Y21ZO01005	Praneetha
6	LAKSHMI PRIYA N	Y21ZO01006	Lakshmi Priya
7	LAVANYA Ch	Y21ZO01007	Lavanya
8	ROJA K	Y21ZO01008	Roja
9	DURGA BHAVANI T	Y21ZO01009	Durga Bhavani
10	NAGA CHANDRIKA G	Y21ZO01010	Naga Chandrika
11	NAGENDRA NAIK V	Y21ZO01011	Nagendra Naik

# Andhra Christian College, Guntur

(Day, Evening & P.G.)

## NOTICE

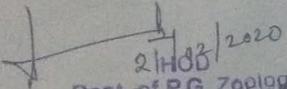
Date: 21.02.2020

All the M.sc zoology students are hereby informed to attend a work shop on Tools and Techniques to be conducted on 25.02.2020

By Dr.T.Uma Maheswara Rao H.O.D, Department of Chemistry, Hindu college, Guntur will be the Resource Person for this Work shop.

Venue: Dept. of P.G.ZOOLOGY

Time : 11AM

  
21/02/2020  
Head  
of P.G. Zoology  
ANDHRA CHRISTIAN COLLEGE  
GUNTUR  
Department of PG ZOOLOGY

Principal

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1. The coordinator, IQAC
2. The Office Manager



# Andhra Christian College::Guntur

## Department of Sociology

### Seminar Report on "Trends and Problems in Higher Education"

**Organized by:** Department of Sociology

**Target Audience:** Students of I, II, and III B.A.

**Date:** 8th January 2020

**Time:** 11:00 a.m. to 1:00 p.m.

**Venue:** College Assembly Hall

**Resource Person:** Dr. M. Rose Paulina, Senior Lecturer, St. Gregory College, Vetapalem

**Event Coordinator:** Mr. V. George Wilson, Head of the Department of Sociology

#### 1. Introduction:

The Department of Sociology organized a seminar on "Trends and Problems in Higher Education" for the students of I, II, and III B.A. on 8th January 2020. The seminar, held at the College Assembly Hall from 11:00 a.m. to 1:00 p.m., was aimed at exploring the current trends in higher education, along with the challenges faced by institutions and students alike. The seminar was delivered by Dr. M. Rose Paulina, a distinguished Senior Lecturer from St. Gregory College, Vetapalem.

#### 2. Objectives of the Seminar:

The seminar was designed with the following objectives:

- 1. To identify and analyze current trends in higher education:**  
Discuss the evolving landscape of higher education, including emerging pedagogical approaches, technological advancements, and policy changes.
- 2. To explore the problems and challenges in higher education:**  
Examine the key issues faced by students, educators, and institutions, such as accessibility, affordability, quality, and relevance of education.
- 3. To encourage students to critically evaluate higher education systems:**  
Promote critical thinking among students regarding the effectiveness and inclusivity of higher education in meeting the needs of a diverse society.
- 4. To understand the sociological implications of trends and problems in higher education:**  
Analyze the impact of these trends and challenges on social structures, cultural norms, and individual aspirations.

#### 3. Details of the Seminar:

The seminar began with an introductory address by Mr. V. George Wilson, Head of the Department of Sociology. He highlighted the importance of understanding the dynamic nature of higher education, given its significant role in shaping the future of society.

Dr. M. Rose Paulina, the resource person for the seminar, commenced her presentation by outlining the historical evolution of higher education globally and in India. She then delved into the following key trends currently influencing higher education:

- **Digital Transformation:** The increasing integration of digital tools and online platforms in teaching and learning, especially in the context of global education.
- **Interdisciplinary Education:** The shift towards more flexible and interdisciplinary curricula, allowing students to tailor their education according to their interests and career aspirations.
- **Globalization of Education:** The growing trend of international collaboration and the mobility of students and faculty across borders, leading to a more interconnected academic community.
- **Focus on Skill Development:** The rising emphasis on developing practical skills and competencies in students, alongside traditional academic knowledge, to better prepare them for the workforce.

Dr. Paulina also discussed the major problems plaguing higher education, including:

- **Access and Equity:** The persistent disparities in access to higher education, particularly for marginalized and underprivileged communities.
- **Quality Assurance:** The challenges in maintaining and improving the quality of education across diverse institutions, including issues related to accreditation and standardization.
- **Financial Constraints:** The increasing cost of higher education and the financial burden it places on students and their families.
- **Relevance of Curriculum:** The ongoing debate over the relevance of traditional curricula in meeting the needs of a rapidly changing world, especially in terms of employability.

Following her presentation, Dr. Paulina engaged the students in a thought-provoking discussion, encouraging them to share their experiences and perspectives on the trends and problems she had outlined. The interactive session provided a platform for students to voice their concerns and seek guidance on navigating the challenges of higher education.

#### 4. Outcomes of the Seminar:

The seminar achieved its intended objectives, resulting in the following outcomes:

1. **Increased Awareness:**  
Students gained a comprehensive understanding of the current trends shaping higher education and the associated challenges.
2. **Critical Analysis:**  
The seminar fostered critical thinking among students, enabling them to assess the effectiveness of higher education systems in addressing societal needs.
3. **Engagement with Sociological Perspectives:**  
The discussion highlighted the sociological dimensions of higher education, encouraging students to consider the broader social implications of educational trends and issues.
4. **Enhanced Participation:**  
The interactive session provided a platform for students to actively participate in the discourse, enhancing their engagement with the subject matter.

## 5. Conclusion:

The seminar on "Trends and Problems in Higher Education" was a significant academic event that provided valuable insights to the students of I, II, and III B.A. The Department of Sociology, under the leadership of Mr. V. George Wilson, successfully organized the seminar, with Dr. M. Rose Paulina delivering an informative and engaging session. The seminar not only enriched the students' understanding of the evolving landscape of higher education but also inspired them to critically evaluate the challenges and opportunities that lie ahead.



# Andhra Christian College, Guntur

(Day, Evening and PG)

SEMINOR DATE 08-01-2020

STUDENT NAME & SIGNATURE OF ATTENED THE SEMINOR

CLASS NO.	STUDENT NAME	STUDENT SIGNATURE
1	V. Ravi Kumar	V. Ravi
2	K. Rupa.	K. Rupa
3	P. Manj.	P. Manj.
4	AD Meekleefu	AD Meekleefu
5	Jyothi Kondro.	Jyothi.
6	B. Babu	B. Babu
7	M. SRIK KUMAR	M. Srikumar
8	O. Reshmi	O. Reshmi
9	B. Sewash	B. Sewash
10	M. Jaya Prasad	M. Jaya Prasad
11	B. Haribabu.	B. Haribabu
12	TASLEEM.A. SK.	Tasleem
13	A. Nageswara Rao.	A. Nageswara Rao
14	K. Vinay Kumar	K. Vinay Kumar
15	B. Babu	B. Babu
16	P. SAMUEL JATHAN	P. Samuel Jathan
17	P. Sayam.	P. Sayam
18	SK. SALEEM.	SK. Saleem.
19	Dhanu	Dhanu.

  
(Head Dept of Sociology,  
Andhra Christian College  
Guntur - A.P.)

  
PRINCIPAL  
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(Day, Evening & P.G)  
GUNTUR

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(Day, Evening and PG)

**NOTICE**

Date: 07-01-2020

This is to inform that there will be a seminar on “**Trends and Problems in Higher Education**” tomorrow, i.e., on 08-01-2020, to be conducted by the department of Sociology, at 11 AM. Dr. M Rose Palina, Senior Lecture in St. Gregory College Chirala(Vettapalem) will address the seminar.

All the students of I, II & III B.A. are instructed to attend the programme without fail.

  
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2. The office manager, Andhra Christian College

# Andhra Christian college

(Day, Evening and PG)

## NOTICE

Date: 21-12-2019

This is to inform you that there will be a seminar on "**MOVING CHARGES AND MAGNETISM**" tomorrow, i.e., on 22-12-2019 to be conducted by the department of physics, at 11 AM. DR. D.V. Raghu Ram, Lecturer Department of Physics, Hindu College, Guntur Will be address the seminar.

All the students of III B.Sc. are instructed to attend the programme without fail.



  
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# Andhra Christian College::Guntur

## Department of Physics

### Seminar Report on "Moving Charges and Magnetism"

**Organized by:** Department of Physics, Andhra Christian College, Guntur

**Date:** 22-12-2019

**Time:** 11:00 AM

**Venue:** Department of Physics, Andhra Christian College, Guntur

**Resource Person:** Dr. D. V. Raghu Ram, Lecturer in Physics, Hindu College, Guntur

**Participants:** B.Sc. students and faculty of the Department of Physics

#### 1. Introduction

The Department of Physics, Andhra Christian College, Guntur, organized an insightful seminar on the topic "Moving Charges and Magnetism" on 22nd December 2019. The seminar was aimed at enhancing the understanding of B.Sc. students regarding the fundamental concepts of electromagnetism, specifically focusing on the relationship between moving charges and magnetic fields. The session was conducted by Dr. D. V. Raghu Ram, a respected Lecturer in Physics from Hindu College, Guntur, known for his expertise in the field.

#### 2. Objectives of the Seminar

The seminar had the following key objectives:

- **To introduce the concept of moving charges and magnetism:** The seminar aimed to explain the fundamental relationship between electric currents and magnetic fields, including the Biot-Savart law and Ampere's Circuital law.
- **To explore the principles of electromagnetism:** Participants were introduced to the principles governing the interaction of moving charges with magnetic fields, including the force experienced by a charged particle in a magnetic field (Lorentz force).
- **To demonstrate the applications of magnetism in technology:** The seminar aimed to illustrate the practical applications of magnetism in various technological advancements, such as in the functioning of electric motors, generators, and transformers.
- **To encourage critical thinking and problem-solving:** The seminar aimed to develop the problem-solving skills of students by discussing real-world scenarios where the concepts of moving charges and magnetism are applied.
- **To foster academic curiosity and research interest:** The seminar sought to inspire students and faculty to delve deeper into the study of electromagnetism and its applications, encouraging future research and exploration in the field.

### 3. Summary of the Seminar

The seminar began with an opening address by the Head of the Department of Physics, who welcomed Dr. D. V. Raghu Ram and the participants. Dr. Raghu Ram then initiated the session by introducing the fundamental concepts of moving charges and their interaction with magnetic fields. He explained the Biot-Savart law and Ampere's Circuital law, which describe how moving charges create magnetic fields and how these fields are structured.

Dr. Raghu Ram provided a detailed explanation of the Lorentz force, illustrating how a charged particle experiences a force when it moves through a magnetic field. The seminar also covered the concept of magnetic field lines and their significance in visualizing the direction and strength of magnetic fields.

The resource person further elaborated on the practical applications of these principles, particularly in the design and operation of electric motors, generators, and transformers. These examples helped students understand the relevance of electromagnetism in everyday technology.

Throughout the seminar, students were encouraged to ask questions and engage in discussions, which fostered an interactive learning environment. Dr. Raghu Ram also presented several problem-solving scenarios, allowing students to apply the concepts they had learned to real-world situations.

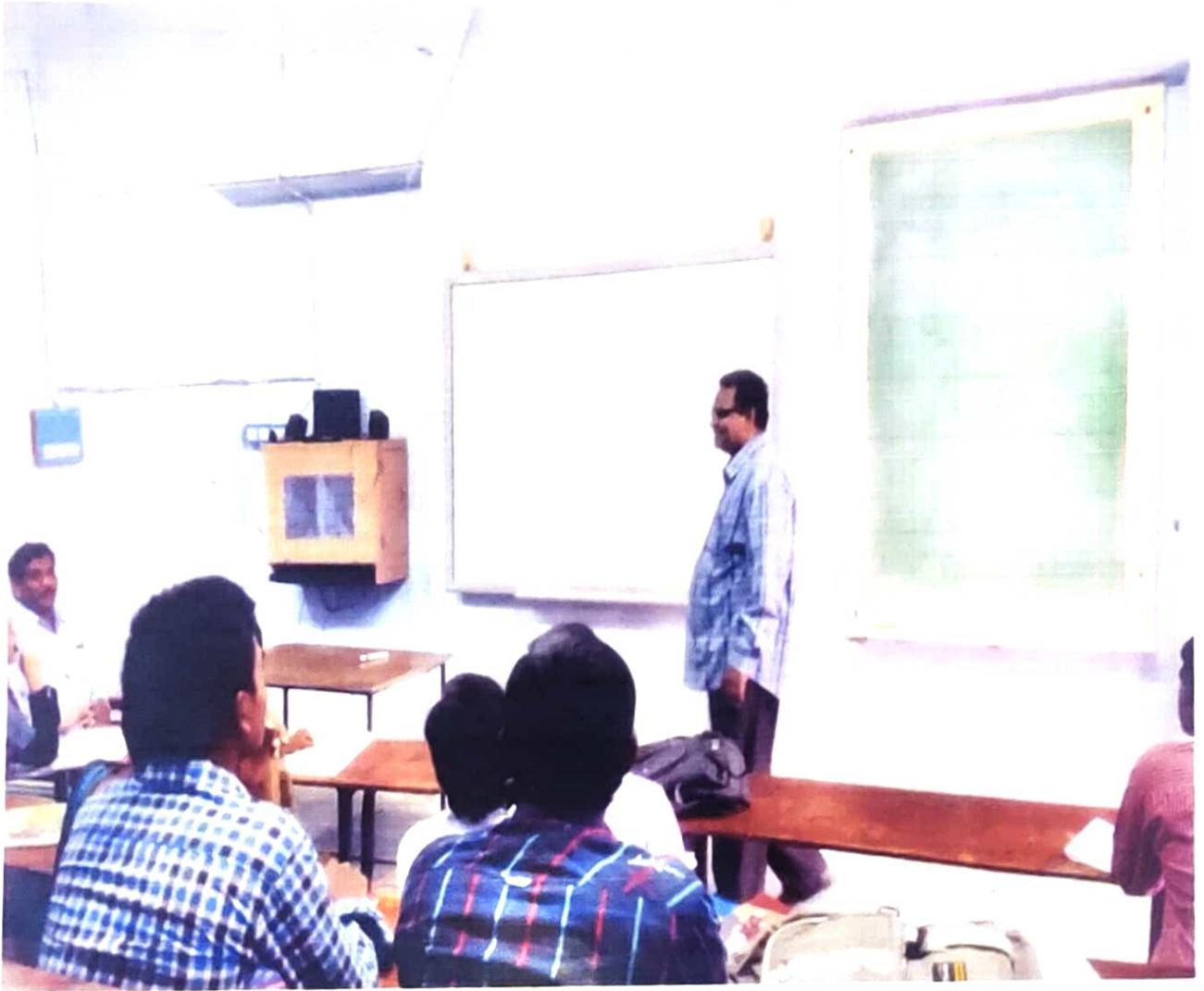
### 4. Outcomes of the Seminar

The seminar successfully achieved its objectives, resulting in the following outcomes:

- **Enhanced understanding of electromagnetism:** Students gained a deeper understanding of the relationship between moving charges and magnetic fields, which is crucial for their academic development in physics.
- **Improved problem-solving skills:** Through interactive discussions and problem-solving exercises, students were able to apply theoretical concepts to practical situations, enhancing their analytical abilities.
- **Increased interest in advanced physics topics:** The seminar sparked curiosity among students to explore more advanced topics in electromagnetism and related fields.
- **Encouraged faculty-student interaction:** The seminar provided an opportunity for students to engage with faculty members and the resource person, fostering a collaborative academic environment.
- **Potential research initiatives:** The seminar inspired faculty and students to consider potential research projects in electromagnetism, contributing to the academic growth of the department.

### 5. Conclusion

The seminar on "Moving Charges and Magnetism" organized by the Department of Physics, Andhra Christian College, Guntur, was a highly educational and engaging event. Dr. D. V. Raghu Ram delivered an informative presentation that successfully conveyed complex concepts in an accessible manner. The seminar met its objectives, leaving participants with a solid understanding of the topic and a renewed interest in the study of electromagnetism.



# Andhra Christian College, Guntur

## Department of Physics

List of Students Attended for SEMINAR CLASS

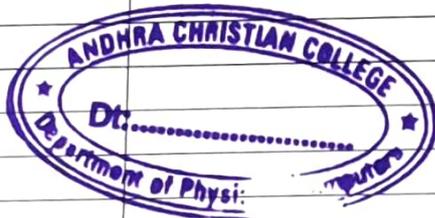
TOPIC: Moving Charges and Magnetism

Date: 22.12.19

Class: III<sup>rd</sup> BSc

S. No.	Class No	Name of the Students	Signature
1.	601	T. Divaya Bharathi	T. Divaya Bharathi
2.	602	S.K. Shaikhan	S.K. Shaikhan
3.	603	T. Priya Geetha Reddy	T. Priya Geetha Reddy
4.	604	M. Anusha	M. Anusha
5.	605	D. Kiran Badi	D. Kiran Badi
6.	608	K. Saibabu	K. Saibabu
7.	610	K. Siva Sankar	K. Siva Sankar
8.	611	I. Deva Sahayam	I. Deva Sahayam
9.	612	D. Sunny Kumar	D. Sunny Kumar
10.	613	P. Anil	P. Anil
11.	614	D. Prabhath Kumar	D. Prabhath Kumar
12.	615	J. Bujji	J. Bujji
13.	620	D. Badri	D. Badri
14.	628	K. Ramesh	K. Ramesh
15.	645	B. AJAY BABU.	B. AJAY BABU.
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 Department of Physics  
 A.C. College, Guntur.



# Andhra Christian college

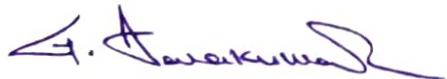
(Day, Evening and PG)

## NOTICE

Date: 13-10-2019

This is to inform you that there will be a seminar on “**SUPER CONDUCTIVITY**” tomorrow, i.e., on 14-10-2019 to be conducted by the department of physics, at 11 AM. Sanivarapu Ravi Kumar, Lecturer Department of Physics, Hindu College, Guntur. Will be address the seminar. All the students of III B.Sc. are instructed to attend the programme without fail.



  
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# Andhra Christian College::Guntur

## Department of Physics

### Seminar Report on "Superconductivity"

**Organized by:** Department of Physics, Andhra Christian College, Guntur

**Date:** 14 – 10 – 2019

**Time:** 11:00 AM

**Venue:** Room No. 83, Department of Physics

**Resource Person:** Mr. S. Ravi Kumar, Lecturer in Physics, Hindu College, Guntur

**Participants:** Teaching Faculty of the Department of Physics and B.Sc. students

#### 1. Introduction

The Department of Physics, Andhra Christian College, Guntur, organized a seminar on "Superconductivity" on 14th October 2019. The seminar was aimed at providing B.Sc. students with a deeper understanding of the fundamental principles of superconductivity, its applications, and recent advancements in the field. The session was conducted by Mr. S. Ravi Kumar, a distinguished lecturer in Physics from Hindu College, Guntur, who brought his expertise and experience to the topic.

#### 2. Objectives of the Seminar

The primary objectives of the seminar were:

- **To introduce the concept of superconductivity:** The seminar aimed to explain the fundamental principles of superconductivity, including the phenomenon of zero electrical resistance and the expulsion of magnetic fields in certain materials when cooled below a critical temperature.
- **To explore the history and development of superconductivity:** The seminar provided an overview of the discovery of superconductivity by Heike Kamerlingh Onnes in 1911 and the subsequent developments in the field.
- **To discuss the types of superconductors:** Participants were introduced to different types of superconductors, including Type I and Type II superconductors, and their respective properties.
- **To highlight the practical applications of superconductivity:** The seminar aimed to show the practical applications of superconductivity in various fields, such as in the development of MRI machines, maglev trains, and particle accelerators.
- **To encourage academic inquiry and research:** The seminar aimed to inspire students and faculty to delve deeper into the study of superconductivity and explore potential research opportunities in the field.

#### 3. Summary of the Seminar

The seminar began with an introduction by the Head of the Department of Physics, who welcomed the resource person, Mr. S. Ravi Kumar, and the participants. Mr. Ravi Kumar

then commenced the session with a detailed explanation of the basic principles of superconductivity, including the concept of critical temperature and the Meissner effect.

He went on to discuss the historical background of superconductivity, citing key experiments and discoveries that have shaped our current understanding of the phenomenon. The seminar then moved into a more technical discussion of the different types of superconductors, focusing on their unique properties and the conditions under which they exhibit superconductivity.

Mr. Ravi Kumar also emphasized the practical applications of superconductors in modern technology, highlighting their role in advancing medical imaging, transportation, and research in fundamental physics. The session was interactive, with students and faculty members posing questions and engaging in discussions on various aspects of superconductivity.

#### 4. Outcomes of the Seminar

The seminar successfully achieved its objectives, and the outcomes were as follows:

- **Enhanced understanding of superconductivity:** Participants gained a comprehensive understanding of the principles and applications of superconductivity, which is essential for their academic and professional growth.
- **Increased interest in advanced studies:** The seminar sparked interest among students to pursue further studies and research in the field of superconductivity and related areas.
- **Strengthened collaboration between institutions:** The event facilitated collaboration and exchange of knowledge between Andhra Christian College and Hindu College, fostering a stronger academic relationship.
- **Encouraged research initiatives:** Faculty members were motivated to explore research opportunities in superconductivity, potentially leading to new projects and collaborations.

#### 5. Conclusion

The seminar on "Superconductivity" organized by the Department of Physics, Andhra Christian College, Guntur, was a significant academic event that provided valuable insights into a complex and fascinating area of physics. The resource person, Mr. S. Ravi Kumar, delivered an informative and engaging presentation that was well-received by both students and faculty. The seminar successfully met its objectives, leaving participants with a deeper appreciation of the subject and encouraging further academic pursuits in the field.



# Andhra Christian College, Guntur

## Department of Physics

List of Students Attended for SEMINAR CLASS

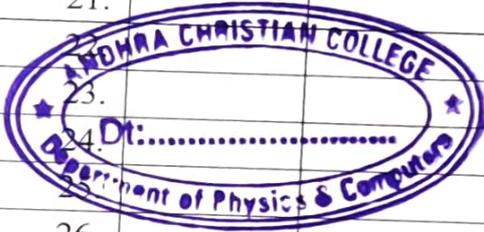
TOPIC: Super conductivity

Date: 10-10-2019

Class: III<sup>rd</sup> BSc

S. No.	Class No	Name of the Students	Signature
1.	609	K. Siva Sankar	K. Siva Sankar
2.	613	P. Anil	P. Anil
3.	618	G. Siva	G. Siva
4.	621	V. Revanth Kumar	V. Revanth kumar
5.	625	B Raju	B. Raju
6.	628	K. Ramesh	K. Ramesh
7.	629	P. Toji Babu	P. Toji babu
8.	630	Ch. Vinod Kumar	Ch. Vinod kumar
9.	632	K. Gopi Krishna	K. Gopi Krishna
10.	633	D. Mani	D. Mani
11.	643	T. Mani Raj	T. Mani Raj
12.	1401	K. Anand Paul	K. Anand paul
13.	1404	P. Mahesh	P. Mahesh
14.	1405	S. Chaitanya	S. Chaitanya
15.	1406	N. Venkat Rao	N. Venkat Rao
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*[Signature]*  
Department of Physics  
A.C. College, Guntur.



# Andhra Christian college

(Day, Evening and PG)

## NOTICE

Date: 18-09-2019

This is to inform you that there will be a seminar on “**RAMAN EFFECT**” tomorrow, i.e., on 19-09-2019 to be conducted by the department of physics, at 11 AM. N. Linga Rao, Lecturer Department of Physics, R.V.V.N College, Dharani Kota Will be address the seminar.

All the students of III B.Sc. are instructed to attend the programme without fail.



A handwritten signature in blue ink, appearing to read "A. Anand Kumar".

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GUNTUR

Principal

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2. The office manager, Andhra Christian College

# Andhra Christian College::Guntur

## Department of Physics

### Seminar Report on "Raman Effect"

**Organized by:**

Department of Physics, A. C. College, Guntur

**Date:**

19th September 2019

**Time:**

11:00 a.m.

**Venue:**

Department of Physics, A. C. College, Guntur

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## 1. Introduction

The Department of Physics, A. C. College, Guntur, organized a seminar on the "Raman Effect" on the 19th of September, 2019. The seminar aimed to delve into the discovery, principles, and applications of the Raman Effect, a significant phenomenon in the field of spectroscopy. The session was attended by the faculty members of the Department of Physics along with students who have an interest in this area of study.

Mr. N. Linga Rao, a distinguished lecturer from the Department of Physics at R. V. V. N. College, Dharanikota, Amaravathi, was the resource person for this seminar. He is well-versed in modern spectroscopy and its applications in physics and material science.

## 2. Objectives of the Seminar

The seminar was organized with the following key objectives:

- 1. To introduce the concept of the Raman Effect:**  
Explain the fundamental principles underlying the Raman Effect and its historical significance.
- 2. To discuss the experimental discovery by C. V. Raman:**  
Detail the experiment conducted by Sir C. V. Raman, which led to the discovery of this phenomenon and earned him the Nobel Prize in Physics.
- 3. To explore the applications of the Raman Effect in modern science:**  
Highlight the diverse applications of the Raman Effect in fields such as chemistry, physics, material science, and biology.
- 4. To enhance the participants' understanding of spectroscopy techniques:**  
Provide insights into how the Raman Effect is utilized in various spectroscopic techniques and the benefits these techniques offer in scientific research.

### 3. Seminar Proceedings

The seminar began at 3:00 p.m. with an introductory speech by the Head of the Department of Physics, A. C. College, who welcomed the participants and introduced the resource person, Mr. N. Linga Rao.

#### 3.1 Lecture by Mr. N. Linga Rao

Mr. N. Linga Rao presented an in-depth lecture, covering the following topics:

- **Historical Background of the Raman Effect:**  
Mr. Linga Rao began by discussing the background of the Raman Effect, emphasizing its discovery by Sir C. V. Raman in 1928. He explained how Raman's curiosity about the scattering of light in liquids led to this groundbreaking discovery.
- **Principles of the Raman Effect:**  
The seminar provided a detailed explanation of the Raman Effect, where Mr. Rao described how the scattering of light by molecules results in a shift in the wavelength, which is characteristic of the molecular vibrations. This effect is now known as Raman scattering.
- **Raman Spectroscopy:**  
Mr. Rao elaborated on Raman spectroscopy, a technique that leverages the Raman Effect to study the vibrational, rotational, and other low-frequency modes in a system. He explained how Raman spectroscopy is a powerful tool in identifying molecular structures and compositions.
- **Applications of the Raman Effect:**  
The seminar highlighted the wide-ranging applications of the Raman Effect in various fields, including:
  - **Material Science:** Identifying materials and studying their properties.
  - **Chemistry:** Characterizing chemical compounds and reactions.
  - **Biology:** Investigating biological samples and detecting pathogens.
  - **Nanotechnology:** Analyzing nanomaterials and their properties.

#### 3.2 Interactive Session

Following the lecture, an interactive session was conducted, where participants posed questions and engaged in discussions with Mr. Rao. The questions ranged from basic principles to advanced applications of the Raman Effect. Mr. Rao provided comprehensive answers, helping to clarify the doubts and enhance the participants' understanding.

### 4. Outcomes of the Seminar

The seminar achieved its objectives, resulting in the following outcomes:

1. **Enhanced Understanding of the Raman Effect:**  
Participants gained a deep understanding of the Raman Effect, including its principles, discovery, and significance in the field of physics.
2. **Knowledge of Raman Spectroscopy:**  
The seminar provided valuable insights into Raman spectroscopy, equipping participants with knowledge about its practical applications in research and industry.

### 3. **Appreciation of Historical Contributions:**

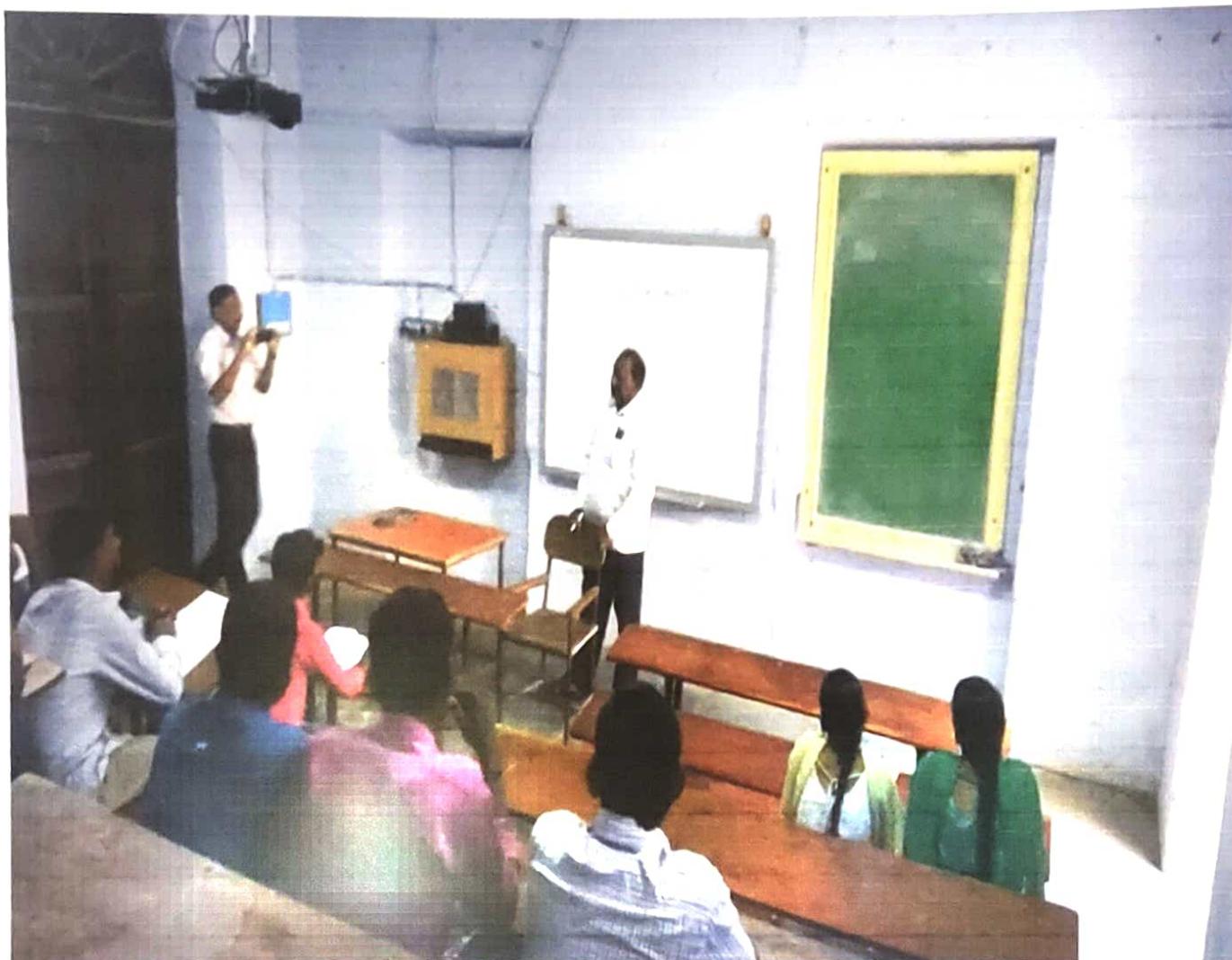
The seminar highlighted the contributions of Sir C. V. Raman, inspiring participants to appreciate the history of scientific discoveries and their impact on modern science.

### 4. **Increased Interest in Spectroscopy Techniques:**

The detailed discussion on spectroscopy sparked interest among students and faculty to further explore and possibly specialize in this field.

## 5. **Conclusion**

The seminar on "Raman Effect" was a great success, fulfilling its objectives of educating and inspiring the participants. Mr. N. Linga Rao's expertise and engaging presentation style made the session informative and enjoyable. The Department of Physics, A. C. College, Guntur, looks forward to organizing more such seminars to continue fostering a deep understanding of fundamental and advanced topics in physics.



# Andhra Christian College, Guntur

## Department of Physics

List of Students Attended for SEMINAR CLASS

TOPIC: Raman effect

Date: 19.09.2019

Class: III<sup>rd</sup> B.Sc

S. No.	Class No	Name of the Students	Signature
1.	601	T. Divya Bharathi	T. Divya Bharathi
2.	602	S.k. Shakeena	S.k. Shakeena
3.	603	D. Priya geeta Reddy	D. Priya geeta Reddy
4.	604	M. Anusha	M. Anusha
5.	605	M. Nakshatram	M. Nakshatram
6.	606	D. Kiran Bedi	D. Kiran Bedi
7.	607	B. Sharoni	B. Sharoni
8.	608	K. Saibabu	K. Saibabu
9.	609	K. Srikanth	K. Srikanth
10.	610	K. Siva Sankar	K. Siva Sankar
11.	611	I. Devasahayam	I. Devasahayam
12.	612	D. Sunny kumar	D. Sunny kumar
13.	613	P. Anil	P. Anil
14.	614	D. Prasanth kumar	D. Prasanth kumar
15.	615	J. Buji	J. Buji
16.	616	D. Satish babu	D. Satish babu
17.	617	G. Siva	G. Siva
18.	618	T. Bharath	T. Bharath
19.	619	D. Badri	D. Badri
20.	620	V. Revanth kumar	V. Revanth kumar
21.	621	M. Pitchaiah	M. Pitchaiah
22.	622	D. Nageswara rao	D. Nageswara rao
23.	623	B. Raju	B. Raju
24.	624	B. Pavan kumar	B. Pavan kumar
25.	625	K. Ramesh	K. Ramesh
26.	626	P. joji babu	P. joji babu
27.	627	Ch. Vinod kumar	Ch. Vinod kumar
28.	628	J. Venkateswarlu	J. Venkateswarlu
29.	629	K. Gopi Krishna	K. Gopi Krishna
30.	630	D. Mark babu	D. Mark babu



*[Signature]*  
 Department of Physics  
 A.C. College, Guntur.

# Andhra Christian College::Guntur

## Department of Commerce

### Guest Lecture Report on "Goods and Service Tax"

**Date:** 27th August 2019

**Venue:** Department of Commerce, Andhra Christian College, Guntur

**Organized by:** Department of Commerce

**Resource Person:** Dr. C. Sudhakara Reddy, Head, Department of Commerce, Government Degree College for Women, Guntur

**Head of the Department:** Dr. V. Prabhakara Reddy

**Faculty:** Mr. T. Chandra Babu, Senior Lecturer; Mr. T. V. Prakash Babu, Mrs. K. Jyothi, Ms. G. Madhuri, Lecturers

#### Objectives of the Lecture:

1. **Introduction to Goods and Service Tax (GST):** To familiarize students with the fundamental concepts of GST, its implementation, and its importance in the Indian economy.
2. **Understanding GST Mechanism:** To explain the operational mechanism of GST, including registration, filing of returns, and payment of taxes.
3. **Benefits and Challenges of GST:** To highlight the advantages and challenges associated with the GST regime, particularly in the context of business and commerce.
4. **Practical Implications:** To provide insights into the practical implications of GST for businesses, including compliance requirements and impact on pricing, supply chain, and accounting.
5. **Preparation for Future Roles:** To equip students with knowledge that would be essential for their future roles in commerce, particularly in areas related to taxation and finance.

#### Summary of the Lecture:

The guest lecture on "Goods and Service Tax" was conducted by the Department of Commerce, Andhra Christian College, Guntur, on 27th August 2019. The session was delivered by Dr. C. Sudhakara Reddy, a distinguished expert in the field of commerce, currently serving as the Head of the Department of Commerce at Government Degree College for Women, Guntur.

He commenced the lecture by providing a comprehensive overview of the Goods and Service Tax, emphasizing its significance as a landmark reform in India's tax system. He elaborated on the different types of GST—Central GST (CGST), State GST (SGST), and Integrated GST

(IGST)—and how they interact within the federal structure of the country. The resource person also discussed the GST Council and its role in policy-making and implementation.

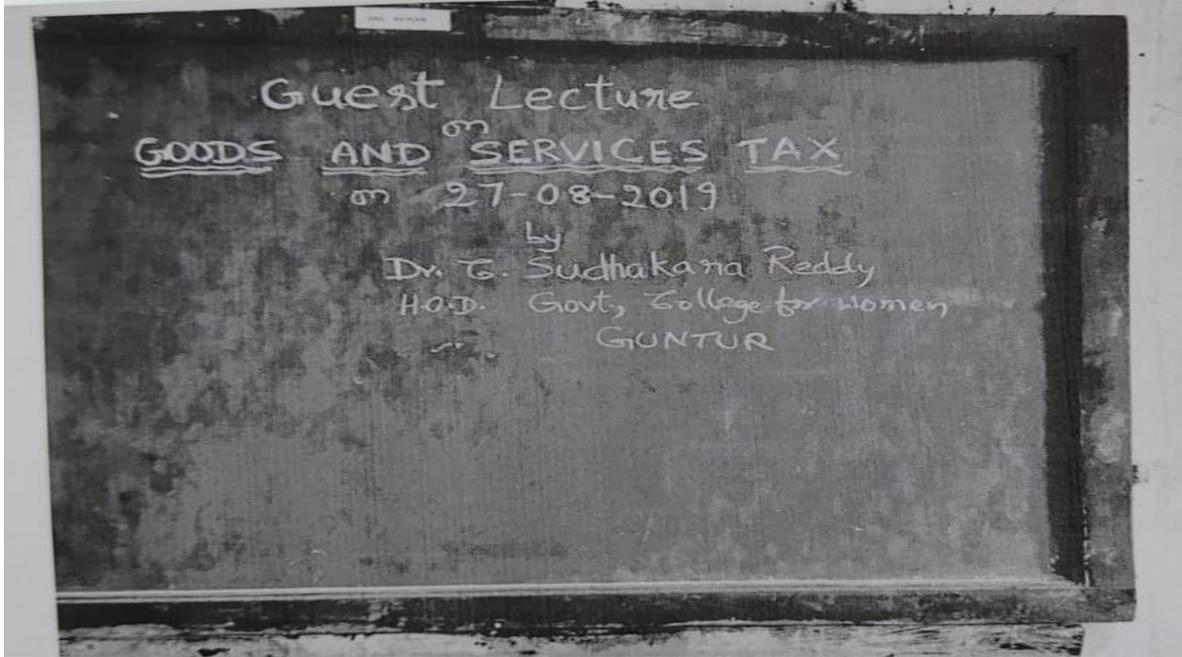
The lecture covered the various stages of the GST process, from registration to filing returns and payment. Dr. Reddy emphasized the importance of compliance and the role of technology in facilitating the smooth operation of GST. He also discussed the challenges faced by businesses during the initial phases of GST implementation, such as the transition from the previous tax structure, and how these challenges were addressed over time.

In addition to theoretical knowledge, Dr. Reddy provided practical examples to illustrate the impact of GST on different sectors. He discussed how GST has streamlined the taxation process, reduced the cascading effect of taxes, and made goods and services more competitive in the global market.

### **Outcomes of the Lecture:**

1. **Enhanced Understanding:** The students gained a thorough understanding of the GST framework, including its components, operational mechanism, and significance in the Indian economy.
2. **Practical Knowledge:** The session provided students with practical insights into the challenges and benefits of GST, preparing them for real-world applications in their future careers.
3. **Awareness of Compliance Requirements:** Students were made aware of the compliance requirements under GST, including the importance of timely registration, accurate filing of returns, and payment of taxes.
4. **Critical Thinking:** The lecture encouraged students to critically analyze the impact of GST on various sectors, fostering a deeper understanding of the complexities involved in taxation.
5. **Career Preparedness:** The knowledge imparted during the lecture equipped students with essential skills and information, making them better prepared for roles in commerce, particularly in areas related to taxation, accounting, and finance.

The session concluded with an interactive Q&A segment, where students had the opportunity to clarify their doubts and discuss specific aspects of GST with Dr. Reddy. The lecture was well-received, with students expressing their appreciation for the valuable insights provided by the resource person.



## Andhra Christian College, Guntur

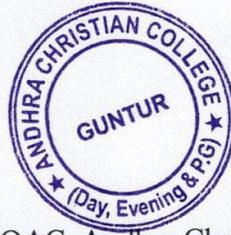
(Day, Evening and PG)

### NOTICE

Date: 26-08-2019

This is to inform that there will be a Guest Lecture on “Goods and Service Tax” tomorrow, i.e., on 27-08-2019, to be conducted by the department of Commerce, at 11 AM. Dr. C. Sudhakar Reddy, Head, Department of Commerce, Government Degree College for Women, Guntur will address the seminar.

All the B. Com. students are instructed to attend the programme without fail.



  
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Copy to:

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**Andhra Christian College, Guntur**  
**Department of Chemistry**  
**Seminar Report**

**Topic: Radioactivity and its applications**

**Dates: 30<sup>th</sup> & 31<sup>st</sup> July 2019**

**Introduction**

The department of Chemistry, Andhra Christian College, Guntur, organised a seminar on Radioactivity and its applications on July 30<sup>th</sup> 2019 and a talk on Career and Employment Opportunities in ALCORN University on 31<sup>st</sup> July 2019. The seminar featured Dr. Jeremiah K. Billa Ph.D., Chairman, Department of Advanced Technologies, ALCORN State University, USA. The seminar was held under the guidance of Dr. N. J. Solomon Babu, Head of the department of Chemistry.

**Objectives of the seminar**

The primary objectives of the seminar are,

1. To understand how radiation is used in agriculture and various industries.
2. To understand the difference between diagnostic and therapeutic radiation.
3. To get awareness about radioactivity as a source of heat for satellites, for medical imaging, for targeted cancer treatments etc.

**Seminar Proceedings**

The seminar started at 10.30 AM in J.D. Seelam seminar hall, with an introductory speech by the HOD of chemistry, Dr. N. J. Solomon Babu. He welcomed the resource person, Dr. Jeremiah K. Billa and all the participants. Dr. N. J. Solomon Babu emphasized the importance and applications of Radioactivity in various fields, and introduced Dr. Jeremiah K. Billa, the speaker of the day. Later, Dr. Jeremiah K. Billa gave an elaborate talk on the topic Radioactivity and its applications with a number of illustrations. This is followed by live interaction with students, who participated actively with enthusiasm.

**Key points covered**

Radioactivity and its applications:

Radioactivity is the property exhibited by certain types of matter which emit energy and subatomic particles spontaneously.

An unstable nucleus will decompose spontaneously, or decay, into a more stable configuration by emitting certain particles or certain forms of electromagnetic energy. Radioactive decay is a property of several naturally occurring elements as well as of artificially produced isotopes of the elements. Radioactive isotopes have the same chemical properties as stable, but they emit radiation, which can be detected. If we replace one or more atoms with radioisotopes in a compound, we can track them by monitoring their radioactive emissions. This type of compound is called radioactive tracer or radioactive label..

**Applications**

**Medicine:** Radioisotopes have found extensive use in diagnosis and therapy, and this has given rise to a rapidly growing field called nuclear medicine. These radioactive isotopes have proven particularly effective as tracers in certain diagnostic procedures... Though many radioisotopes are used as tracers, iodine-131, phosphorus-32, and technetium-99m are among the most important. Physicians employ iodine-131 to determine cardiac output, plasma volume, and fat metabolism and particularly to measure the activity of the thyroid gland where this isotope accumulates. Phosphorus-32 is useful in the identification of malignant tumours because cancerous cells tend to accumulate phosphates more than normal cells do. Technetium-99m, used with radiographic scanning devices, is valuable for studying the anatomic structure of organs.

**Industry:** Foremost among industrial applications is power generation based on the release of the fission energy of uranium. Other applications include the use of radioisotopes to measure the thickness or density of metal and plastic sheets, to stimulate the cross-linking of polymers, to induce mutations in plants in order to develop hardier species, and to preserve certain kinds of foods by killing microorganisms that cause spoilage. In tracer applications radioactive isotopes are employed, to measure the effectiveness of motor oils on the wearability of alloys for piston rings and cylinder walls in automobile engines.

**Science:** Research in the Earth sciences has benefited greatly from the use of radiometric-dating techniques to determine the ages of various rocks and rock formations and thereby quantify the geologic time scale. A special application of this type of radioactivity age method, carbon-14 dating, has proved especially useful to physical anthropologists and archaeologists. It has helped them to better determine the chronological sequence of past events by enabling them to date more accurately fossils and artifacts from 500 to 50,000 years old.

Radio isotopic tracers are employed in environmental studies, as, for instance, those of water pollution in rivers and lakes and of air pollution by smokestack effluents. They also have been used to measure deep-water currents in oceans and snow-water content in watersheds. Researchers in the biological sciences, too, have made use of radioactive tracers to study complex processes. For example, thousands of plant metabolic studies have been conducted on amino acids and compounds of sulfur, phosphorus, and nitrogen.

### **Interactive session**

The presentation was followed by an interactive session, the students got clarified their doubts and discussed various aspects of the topic with the resource person and expressed their gratitude for his valuable presentation.

### **Conclusion**

The seminar was concluded with vote of thanks by Dr.N. J. Solomon Babu, HOD of chemistry. The students also took the opportunity to express their gratitude and appreciation to the speaker for providing a deeper understanding about the topic. The seminar attained its objectives successfully as the students were very much motivated by the seminar.

## Acknowledgements

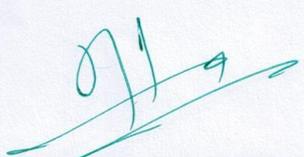
The Department of Chemistry, Andhra Christian College, Guntur, extends its heartfelt gratitude to Dr. Jeremiah K. Billa, for his valuable presentation in the seminar. Special thanks to the faculty members and students for their active participation and support.





**STUDENT ATTENDANCE**

S.No. Y <sub>18</sub>	Class No.	Name of the student	Signature of the student
1	601	K. Akhila	Akhila.k
2	602	M. Vajram	M. Vajram
3	603	S. Mahalakshmi	S. Mahalakshmi
4	605	B. Jyothi	B. Jyothi
5	611	K. Tulasiram	K. Tulasiram
6	612	Ch. Love Prasanna	Ch. Love Prasanna
7	614	B. Prakash	B. Prakash
8	619	K. Kiran Kumar	K. Kiran Kumar
9	621	R. Ravi Kiran	R. Ravi Kiran
10	624	M. Enosh	M. Enosh
11	901	B. Chinni	B. Chinni
12	904	A. Prabhavathi	A. Prabhavathi
13	905	B. Yamini	B. Yamini
14	906	M. Roja Ramani	M. Roja Ramani
15	907	J. Divya	J. Divya
16	908	Y. Keerthana	Y. Keerthana
17	912	Ch. Ashok Kumar	Ch. Ashok Kumar
18	913.	Ch. Venkateswara Rao	Ch. Venkateswara Rao
19	914	B. Nagendra Babu	B. Nagendra Babu
20	1001	G. Keerthana Pushpalatha	Keerthana Pushpalatha

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

STUDENTS ATTENDED THE SEMINAR

S.No. Y <sub>19</sub>	Class No.	Name of the student	Signature of the student
1	601	M. Naga Srivaishnavi	M. Naga Srivaishnavi
2	602	D. Mosha Rani	D. Mosha Rani
3	604	Ch. Mounika	Ch. Mounika.
4	605	K. Smiley	K. Smiley
5	610	K. Pawan chand	K. pawan chand
6	612	J. Emmanuel Raj	J. Emmanuel Raj
7	613	S. Isaiah	S. Isaiah
8	615	M. Ratna Babu	M. Ratna Babu
9	622	T. Bhagya Raj	T. Bhagya Raj
10	626	T. Siva Purva Chandra	T. Siva Purva Chandra
11	903	M. Hema Latha	M. Hema Latha
12	912	S. Vinay Kumar	S. Vinay Kumar
13	913	C. Issac Abraham	C. Isaac Abraham
14	915	P. Srikanth	P. Srikanth.
15	918	P. Yesu Das	P. Yesu Das
16	921	V. Vamsi	V. Vamsi
17	922	V. Dileep Kumar	V. Dileep Kumar
18	924	Ch. Naga Raju	Ch. Naga Raju
19	925	S. Prasheela	S. Prasheela
20	930	D. Ramya	D. Ramya

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

ANDHRA CHRISTIAN COLLEGE, GUNTUR  
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NOTICE

Date:29-07-2019

This is to inform you that there will be a two day seminar on Radiation Chemistry and.. Employment opportunities in ALCORN State University, USA, from tomorrow i.e, 30<sup>th</sup> and 31<sup>st</sup> July 2019, conducted by Chemistry Department at 11.00 AM. Dr. Jeremiah K. Billa Ph.D, Chairman, Department of advanced technologies, ALCORN State University, USA, will address the seminar.

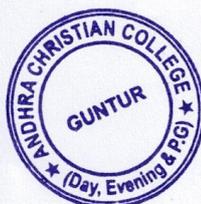
All the students of B.Sc (M.P.C. and CBZ) are asked to attend the programme without fail.

*G. Devakumari*

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



Andhra Christian college  
(Day, Evening and PG)  
**NOTICE**

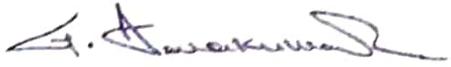
Date: 16-07-2019

This is to inform you that there will be a seminar on “**MAGNETISM AND MATTER**” tomorrow, i.e., on 17-07-2019 to be conducted by the department of physics, at 11 AM.

N. Lalitha Prasad, Lecturer Department of Physics, Hindu College, Guntur Will be address the seminar.

All the students of III B.Sc. are instructed to attend the programme without fail.



  
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Principal  
PRINCIPAL  
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**Copy to:**

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

# Andhra Christian College::Guntur

## Department of Physics

### Seminar Report on "Magnetism and Matter"

**Organized by:** Department of Physics, Andhra Christian College, Guntur

**Date:** 17th July 2019

**Time:** 11:00 AM

**Venue:** Department of Physics, Andhra Christian College, Guntur

**Resource Person:** Mr. N. Lalitha Prasad, Faculty of Physics, Hindu College, Guntur

**Participants:** B.Sc. students, Faculty: Dr. M. Ratna Raju (Head), Dr. P. M. Vinaya Teja (Senior Lecturer), Mr. V. Ravi Kumar (Lecturer), Mr. D. Srinivasa Rao (Lecturer)

#### 1. Introduction

The Department of Physics, Andhra Christian College, Guntur, organized a seminar on "Magnetism and Matter" on 17th July 2019. The seminar was designed to deepen B.Sc. students' understanding of the fundamental principles of magnetism and its interaction with matter. The session was led by Mr. N. Lalitha Prasad, an experienced Faculty of Physics from Hindu College, Guntur, who provided valuable insights into the subject.

#### 2. Objectives of the Seminar

The seminar was conducted with the following key objectives:

- **To introduce the basic concepts of magnetism:** The seminar aimed to explain the foundational principles of magnetism, including magnetic fields, magnetic forces, and magnetic moments.
- **To explore the interaction between magnetism and matter:** Participants were introduced to how different materials respond to magnetic fields, including discussions on diamagnetism, paramagnetism, and ferromagnetism.
- **To explain the properties of magnetic materials:** The seminar aimed to cover the properties and classifications of magnetic materials, focusing on their applications in technology and industry.
- **To discuss the Earth's magnetism:** The seminar sought to provide an understanding of geomagnetism, the Earth's magnetic field, and its significance in navigation and geology.
- **To encourage academic research in magnetism:** The seminar aimed to inspire students to pursue further studies and research in magnetism, emphasizing its importance in both theoretical and applied physics.

#### 3. Summary of the Seminar

The seminar began with a welcome address by Dr. M. Ratna Raju, Head of the Department of Physics, who introduced the resource person, Mr. N. Lalitha Prasad, and highlighted the

relevance of the topic. Mr. Prasad started the session with a brief overview of the history of magnetism, tracing its discovery and the evolution of magnetic theory over the centuries.

Mr. Prasad then introduced the basic concepts of magnetism, explaining the nature of magnetic fields, the origin of magnetic forces, and how magnetic moments arise in atoms. He discussed the distinction between magnetic monopoles and dipoles, and how these concepts underpin the understanding of magnetic phenomena.

The seminar progressed into a detailed exploration of the interaction between magnetism and matter. Mr. Prasad explained the different types of magnetic materials—diamagnetic, paramagnetic, and ferromagnetic—and their distinct behaviours in the presence of magnetic fields. He also provided practical examples of each type of material, highlighting their everyday applications, such as in magnetic storage devices, transformers, and electronic components.

A significant part of the seminar was dedicated to the discussion of geomagnetism. Mr. Prasad explained the Earth's magnetic field, its causes, and its impact on navigation systems, such as compasses. He also touched upon the concept of magnetic declination and its importance in accurate navigation.

The session concluded with a discussion on the latest advancements in magnetism research, including the development of new magnetic materials and their potential applications in cutting-edge technologies like spintronics and quantum computing. Throughout the seminar, students and faculty were actively engaged in discussions, asking questions, and sharing insights.

#### 4. Outcomes of the Seminar

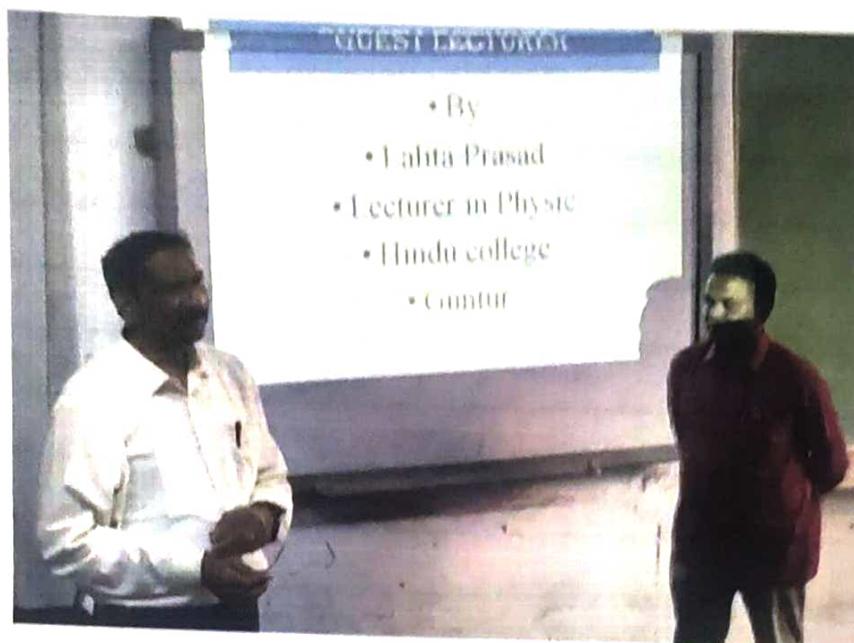
The seminar successfully achieved its objectives, resulting in the following outcomes:

- **Improved understanding of magnetism:** Participants gained a comprehensive understanding of the fundamental principles of magnetism and how it interacts with different types of matter.
- **Insight into magnetic materials:** Students learned about the properties and applications of various magnetic materials, enhancing their knowledge of material science and its technological implications.
- **Awareness of geomagnetism:** The discussion on the Earth's magnetic field provided students with a deeper appreciation of the role of magnetism in navigation and geological processes.
- **Increased interest in research:** The seminar sparked curiosity among students, encouraging them to explore research opportunities in magnetism and related fields, such as material science and applied physics.
- **Enhanced academic interaction:** The seminar facilitated closer interaction between students and faculty members, fostering a collaborative learning environment that supports further inquiry and discussion.

#### 5. Conclusion

The seminar on "Magnetism and Matter" organized by the Department of Physics, Andhra Christian College, Guntur, was a highly informative and successful event. Mr. N. Lalitha

Prasad delivered a detailed and engaging presentation that effectively communicated both the theoretical and practical aspects of magnetism. The seminar met its objectives, providing participants with valuable knowledge and insights, and inspiring further academic exploration in the field of magnetism.



# Andhra Christian College, Guntur

## Department of Physics

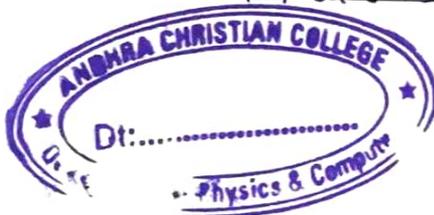
List of Students Attended for SEMINAR CLASS

TOPIC: Magnetism and matter

Date: 17.8.19

Class: III<sup>rd</sup> BSc

S. No.	Class No	Name of the Students	Signature
1.	601	T. Divya Bharathi	T. Divya Bharathi
2.	602	SK. Shakeera	SK. Shakeera
3.	603	D. Priya geeta Reddy	D. priya geetha Reddy
4.	604	M. Anusha	M. Anusha
5.	605	M. Nakshatram	M. Nakshatram
6.	606	D. kiran Bedi	D. kiran Bedi
7.	607	B. Sharani	B. Sharani
8.	608	k. Saibabu	k. saibabu
9.	609	k. Sri kanth	k. srikanth
10.	610	K. Siva Sankar	K. Siva Sankar
11.	611	T. Devasahayam	T. Devasahayam
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19.	619	D. Badri	D. Badri
20.	620	V. Revanth kumar	V. Revanth kumar
21.	621	M. Pitchaiah	M. Pitchaiah
22.	622	D. Nageswama Rao.	D. Nageswama Rao
23.	623	B. Raju	B. Raju
24.	624	B. Pavan kumar	B. Pavan kumar
25.	625	k. Ramesh	k. Ramesh.
26.	626	P. joji babu	P. joji babu
27.	627	ch. Vinod kumar	Ch. vinod kumar
28.	628	J. Venkateswarlu	J. Venkateswarlu
29.	629	k. Gopi Krishna	k. Gopi Krishna
30.	630.	D. Manik babu.	D. manik babu



*[Signature]*  
 Department of Physics  
 A.C. College, Guntur.