

Andhra Christian college
(Day, Evening and PG)
NOTICE

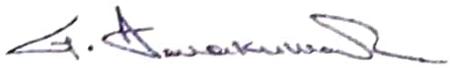
Date: 16-07-2019

This is to inform you that there will be a seminar on “**MAGNITISM 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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GUNTUR

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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

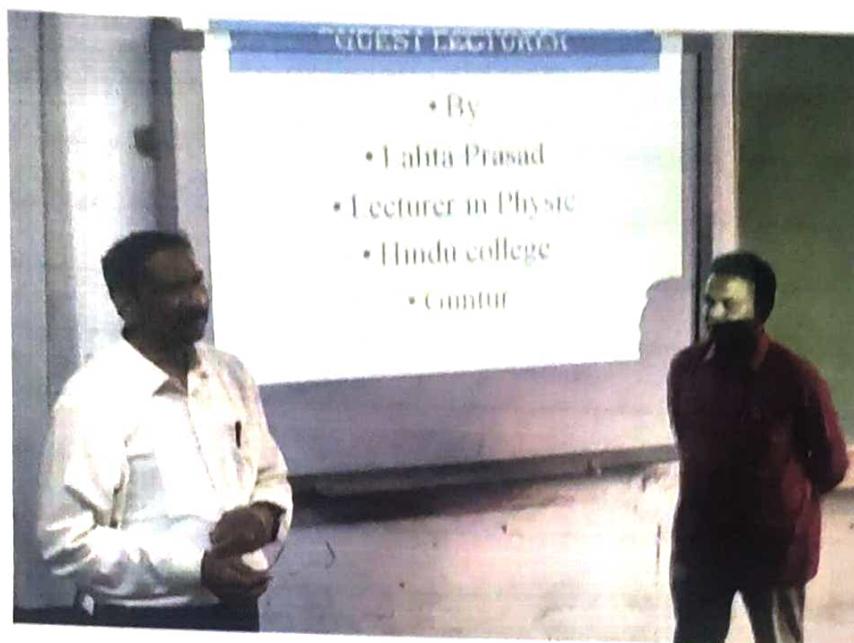
The seminar successfully achieved its objectives, resulting in the following outcomes:

- **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

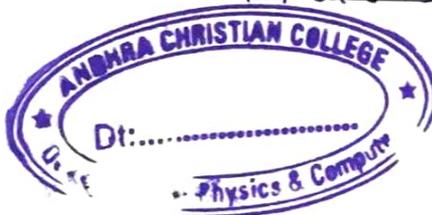
List of Students Attended for SEMINAR CLASS

TOPIC: Magnetism and matter

Date: 17.8.19

Class: IIIrd 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
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	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. 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	T. Venkateswarlu	T. 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.