

Andhra Christian college

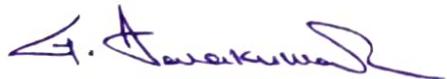
(Day, Evening and PG)

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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1. The coordinator, IQAC, Andhra Christian College
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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

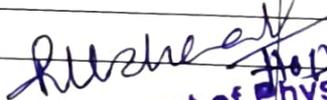
List of Students Attended for SEMINAR CLASS

TOPIC: Super conductivity

Date: 10-10-2019

Class: IIIrd 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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Department of Physics
A.C. College, Guntur.

