

The Department of Physics & Electronics GC (A), Rajahmundry



A brief Report on Guest Lecture by

Dr. Shanmukha Rao Samatham, SAssistant. Professor,
CBIT, Hyderabad, Telangana



Conducted on 24th June 2024

Date	: 24 th June 2024
Name of the Event	: Guest Lecture
Topic	: Research in Material Science-Recent Trends, Significance and Requirements
Name of the Resource Person	: Dr. Shanmukha Rao Samatham, Assistant. Professor, CBIT, HYD
No of participants	: 48
Objective	: 1. To elaborating the importance of material science in day to day life 2. To motivates students to pursue research as a career
Procedure	: A circular/whats app message was sent to all PG and UG students to attend the lecture.
Summary of the event	:

Dr. S. Shanmukh Samatham, Assistant Professor, Department of Physics, Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad has given a guest lecture on title "Research in Materials Science - Recent Trends, Significance and Requirements". This guest lecture is conducted by Department of Physics, Government College (autonomous), Rajahmundry was conducted. He addressed UG and PG students by elaborating the importance of material science in day to day life. He also emphasized the necessity to pursue research as a career. Different stages of Ph.D career and the steps to overcome the hurdles have been explained. Importantly, seven topical research domains have been identified among them nanotechnology, smart materials, biomaterials, computational materials and energy materials are a few. Towards the end, the recent results about the materials related to spintronics, skyrimions in particular have been discussed. The guest lecture involved the students by asking the questions. In this guest lecture, Smt. Ch. Komala Lakshmi, In-charge, Department of Physics, other physics faculty members and students have participated.



Department of Physics Government College (A): Rajahmundry



Guest Lecture

(Date: 24.06.2024, Venue: Physics E-Class Room)

on

Research in Materials Science - Recent Trends, Significance and Requirements

By

Dr. S. Shanmukharao Samatham

Assistant Professor

Department of Physics

Chaitanya Bharathi Institute of Technology

Gandipet, Hyderabad 500 075, India

Affiliated Assistant Research Professor

Department of Physics

State University of New York Buffalo State University

Buffalo, New York 14222, USA





Recent Trends

1. Nanotechnology
2. Biomimicry
- 3D Printing
- Smart Materials
- Stimuli-Responsive Materials
- Biodegradable Materials

