About the Institute

Chaitanya Bharathi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana established in the year 1979. The college offers 11 UG and 10 PG Programmes. The Institute has become Autonomous under UGC w.e.f. 2013-14. UG Programmes are accredited by NBA in the year 1998, 2004, 2008, 2013, 2017, 2022 and Five PG Programmes have been accredited by NBA in 2020. The Institute is accredited by NAAC with CGPA of 3.59 on seven-point scale at 'A++' grade in 2023 for five years. CBIT (A) ranked in the rank band 150-200 in Engineering Category under National Institutional Ranking Framework (NIRF), Govt. of India, MHRD. The lush green College Campus is spread across 50 acres.

About the Department

Department of Physics has been one of the oldest departments since the establishment of CBIT and had its profound stand in the research and teaching & learning activities while renovating itself with the dynamic curriculum of the affiliating institutions (AICTE) and higher education institutions (HEI) from time to time. The Department offers courses Optics & Semiconductor Physics (OSP), Electromagnetic Theory & Quantum Mechanics (ETQM), Mechanics and Materials Science (MMS) and Physics for I-Year B.E/B.TECH and an open elective History of Science and Technology to III, IV and PG students. These courses are meant to teach the fundamentals of Physics required while throwing light on to their technological and engineering applications.

The Department is determined to establish facilities for Materials Research and Radiation Physics. So far, the faculty have secured funds of worth about Rs. 81, 00, 000/- by winning major and minor projects from different Govt. funding agencies DST, SERB, UGC and UGC-DAE CSR and TSCOST.

The Department targets to achieve Research Excellence in Interdisciplinary & Allied Disciplines of Sciences and Technology through collaborations with Industry and Educational Institutions within the nation and across the globe.

Theme of FDP

The proposed One Week International Faculty Development Programme on 'Fundamentals and Advances in Magnetic Materials (FAMM)' targets to deliver both fundamental and technological aspects of various functional properties of magnetic materials. Needless to mention that the role of magnetic materials in improving the living standards of mankind is pivotal in ever changing technological world. In addition, it is difficult to imagine a world without magnetic materials and they are becoming more important in the development of modern society. The need for efficient generation and use of electricity is dependent on improved magnetic materials and designs. The applications of magnetic materials range from toys to Tokomak magnets. The home entertainment market relies on magnetic materials in applications such as PCs, CD players, televisions, games consoles and loud speakers. Non-polluting electric vehicles will rely on efficient motors utilising advanced magnetic materials. The telecommunications industry is always striving for faster data transmission and miniaturisation of devices, both of which require development of improved magnetic materials. Evolution of spin-based technology of transferring and storage of data requires good soft or hard materials, such as magnetostrictive and magnetoresistive materials.

FDP Covers

- Fundamentals and Recent Trends of Magnetism
- Technology Aimed Research in Magnetism
- Theoretical and Topological Aspects of Magnetism

Outcome of FDP

This FDP enables the participants to;

- understand the fundamentals,
- explore the density function theory, analysis and
- be aware of the characterization techniques, analysis of magnetic materials,



One Week Virtual International Level Faculty Development Programme

on

FUNDAMENTALS and ADVANCES in MAGNETIC MATERIALS (FAMM)

May 20-24, 2024

Organized by

Department of Physics



Chaitanya Bharathi Institute of Technology (Autonomous)

Afiiliated to Osmania University, Accredited by NAAC A^{++} Grade,

Kokapet (V), Gandipet (M), Hyderabad 500075 INDIA

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Prof. Alexey V. Lukoyanov, MNM IMP, UB RAS, Russia

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Dr. N. V. Ramarao, DMRL, Hyderabad

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Dr. Saurabh Singh, ISTA, Austria

Dr. Durgesh Singh, IISER Pune

Who can participate?

- Faculty (Science, Technology & Engineering)
- PhD Scholars (Science, Technology, & Engineering)
- Postgraduates M.E., M.Tech., & M.Sc.
- · Related Industry Personnel

Registration Fee

- Rs. 100 for Faculty/Research & PhD Scholars & Students
- Rs. 300 for Industrial Personnel

80 % Attendance is mandatory for receiving e-certificate of FDP Participation.

Registration: https://forms.gle/gjVSwcNXmYCcAbgGA



QR Code for Payment

Important Dates

Registration Begin: May 10, 2024

Contact: Registration & Other Details

Dr. M. Chandra Sekhar

Mobile No: +91-7981058330

Email: chandrasekharm physics@cbit.ac.in



One Week Virtual International Level Faculty Development Programme

on

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Department of Physics

Registration Form

| 1. Name: |
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| 2. Highest Qualification: |
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| 3. Designation: |
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| 4. Organization: |
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| 5. Address: |
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| 6. Mobile No.: |
| VI ATAMANA ATON |
| 7. Email ID: |

Signature of the Participant