

Welcome to the Department of Physics

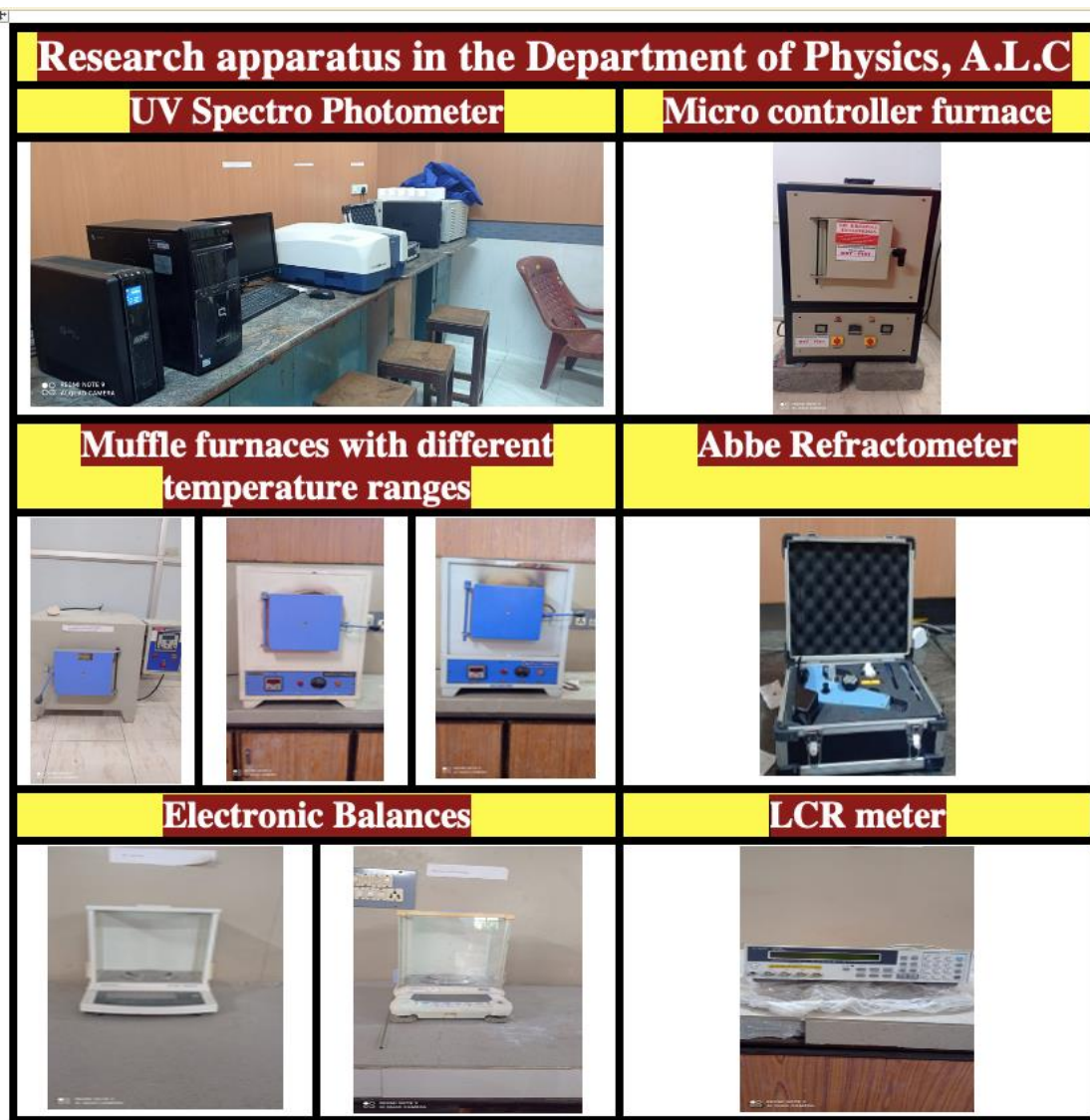
The subject of Physics is based on strong theoretical foundations and experimental findings. The department of Physics is one of the oldest and established departments since 1954. The department has contributed towards the holistic development of the college. Our Department is committed to imparting high-quality education based on a strong academic curriculum comprising elements of theoretical concepts, laboratory experiments, and most importantly hands-on experiments.

Salient features of the Department

D) Research

The department of Physics carries out successful research in the field of Physics. At present, the department has 8 doctorates in Physics, and 4 M.Phils. Two of our members have submitted thesis for their award of Ph.D. The remaining people are continuing their research work.

a) Laboratory Facilities



Department of Physics has a very good lab. It is developed by the funding received from DST, FIST and the management of our college. It has all the apparatus which is necessary to give the Hands-on experience to the students at both under graduate and graduate students. Our lab is equipped with the following research apparatus.

- 1) UV Spectro Photometer
- 2) Micro controller furnace
- 3) Muffle furnaces with different temperature ranges
- 4) Abbe Refractometer
- 5) Electronic Balances
- 6) LCR meter

b) Our department has been granted a Research center by the Krishna University and four of our members have been designated as Research guides.

c) Research guides approved by Krishna University

- 1) Dr G. Sahaya Baskaran
- 2) Dr M.C. Rao
- 3) Dr Ch. Srinivasa Rao
- 4) Dr D.V. Satish

d) Our department is leading in research in the purview of our university by producing nearly 600 research publications in the reputed peer reviewed journals with high impact factor.

e) Dr. M.C. Rao, affiliated with Andhra Loyola College in Vijayawada, India, has achieved recognition as a Top Ranked Researcher in the world's leading Top 2% Scientists Category for the year 2023. According to the Scopus (Elsevier) database in collaboration with Stanford University, USA, Dr. Rao secured the 2337th rank in India out of 2571 researchers. This distinction is based on his impressive body of work, comprising 214 publications in the field of General Physics and Materials Science from the years 2003 to 2023. His contributions to Physics and Astronomy have earned him a notable position in the global scientific community. For more information, please follow the link

<https://drive.google.com/file/d/1B3OWRrNxxbJr6A7Aw2LP3tv0jhOlx8zN/view?usp=sharing>

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f) Our Research Director Dr N. Veeraigh is also recognized as top ranked researchers in world leading top 2% Scientists category for the year 2023.

g) Dr M.C. Rao, Dr Ch.Srinivasa Rao, Dr G. Sahaya Baskaran, Dr PVS Sairam, Dr P Jayaprada, and Dr J. Ramesh Babu were figured in Andhra Loyola College Scientists Rankings 2024 as per AD Scientific Index. Main link is given as follows

<https://www.adscientificindex.com/?university=Andhra+Loyola+College>
https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6?trk=public_post_comment-text

II) Activities of the Department

The department of physics has a departmental association called ALPHA. It does various activities to achieve the vision of the department of physics. It conducts various activities who are student centric and staff centric.

a) Resonance

We organise the following academic competitions to the students in a program called “*RESONANCE*” to uplift their knowledge and skills. Students from various colleges in the state participate in the following competitions organized by the Physics Association.

- 1) Oral competitions on a selected theme
- 2) Exhibit your model
- 3) Quiz
- 4) Poster presentations
- 5) Conceptual Teaching
- 6) Essay writing
- 7) Treasure Hunt
- 8) Exhibit your Talent

b) National Seminar

We organize National Seminar on a selected theme. We invite the papers for oral presentations from lecturers and research scholars from all over the nation.

c) Workshops

We organize workshop for the students on both scientific and Financial literacy to enhance the knowledge and skills of them.

d) Guest Lectures

We organize guest lectures to the students to educate and inspire the students for the higher learning.

e) Land to Lab program

We organize a special program to the children of the surrounding schools to learn some of the theoretical aspects with the help of some experiments in the lab.

f) Educational tours

We organize educational tour/ field visit to expose the students to real-life situations, and help them develop critical thinking.

III) Best Practice

a) Members of the Physics Department have the habit of supporting some poor students financially and supporting them with providing the text books and note books.

b) We conduct remedial classes for the slow learners and guide the advanced learners to get admission in to IITs & Central Universities.

IV) Awards won by the members of the Physics Department

- i) Dr M.C.Rao received "**Best Teacher award**" by the Govt of Andhra Pradesh in the year 2014.
- ii) Dr G. Sahaya Bhaskaran of Department of Physics and the Director of HEPSON received a prestigious "**Divyangajan Swabhimaan award**" from the Central Minister of Education and Skill Development on Gandhi Jayanthi Day i.e. on 2-10-2023. This Event occur in Lajapathi Bhavan in New Delhi.
- iii) Dr T. SriKumar of Department of Physics was awarded "Guru Brahma Puraskaramu 2023" on TEACHER'S DAY - 5-9-2023 by BJP State in charge Smt D.Purandareswari.