

Amudha Bharathy UKG

Physics Educator

Passionate Physics Educator Committed to Cambridge Excellence and Innovation-Driven STEM Learning. Dedicated to fostering scientific curiosity and critical thinking through inquiry-based learning, practical applications, and technology integration in grades 9-12.

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9360551468

Coimbatore, India

WORK EXPERIENCE

Cambridge Physics Teacher
Prakriya International School

04/2025 - 08/2025 *Coimbatore*

Achievements/Tasks

- Taught Physics to **Grades 9–12** following **Cambridge International curriculum standards**, ensuring alignment with **IGCSE and AS/A Level** content and skills.
- Implemented **STEM methodologies** for hands-on physics concept exploration.
- Utilized **digital tools and simulation softwares** to enhance physics concept visualization.

Teacher Assistant and Laboratory Support
Yellow Train School

09/2024 - 03/2025 *Coimbatore*

Achievements/Tasks

- Supported classroom teaching for **Cambridge-level physics curriculum.**
- Assisted in the preparation and **execution of laboratory experiments**, ensuring safety & accuracy in experimental setups.
- Guided students in understanding physics concepts through **hands-on activities,** problem-solving exercises.

Part-Time Physics Teacher
Oxford Matriculation Higher Secondary School

07/2022 - 02/2023 *Udumalpet*

Achievements/Tasks

- Handled Physics for **Grades 11 & 12**.
- Delivered structured lessons covering **core physics principles** and **problem-solving techniques**.
- Prepared students for board examinations by conducting **interactive revision sessions** and **mock tests**.

EDUCATION

M.Sc. Physics
Government Arts College, Udumalpet

01/2021 - 01/2023

B.Sc. Physics
Seethalakshmi Ramaswami College, Trichy

01/2018 - 01/2021 *Trichy*

SKILLS

Cambridge Curriculum | IGCSE Physics | A Level Physics | Laboratory Management | STEM Education | Python Programming | Educational Technology | Scientific Reasoning | Hypothesis Formation | Inquiry-Based Learning

CERTIFICATIONS

STEM EDUCATOR PROGRAM (LMES)
- Specialized in hands-on STEM methodologies, technology integration, and 21st-century skills development

ACADEMIC ACHIEVEMENTS

Master's Thesis
on Theoretical Study of Antioxidant Properties of 3,4 Dihydroxy Benzoic Acid

National Seminar Presentation
on Carbon Nanotubes (CNT)

Science Club Presentation
Achievements of Einstein" - APJ Science Club, SRC, September 2018

Innovation Exhibition
Handmade Mobile Charger demonstration at PHYEL FIRES, SRC Trichy, January 31, 2020

Academic Leadership
Physics Quiz Club, APJ Science Club, Trichy

Event Management
Master of Ceremony, APJ Science Club Inauguration, SRC Trichy

Academic Excellence
Consistent high performance (96% SSLC, 82% HSC, 84.83% BSc, 85% MSc)

LANGUAGES

Tamil
Native or Bilingual Proficiency

English
Full Professional Proficiency

Telugu
Professional Working Proficiency