



PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH

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DEPARTMENT OF PHYSICS

A Report on the Two Day Professional Development Workshop “Enhancing Teaching Through Experiential Learning”

The Department of Physics, PSG Institute of Technology and Applied Research (PSG iTech), Coimbatore, successfully organized a two-day Professional Development Workshop titled "**Enhancing Teaching Through Experiential Learning**" on **24 - 25 July 2026**. The workshop aimed to empower physics teachers with practical knowledge, modern teaching tools and experiential learning methodologies to enhance classroom teaching and student engagement.

Day 1 – 24 July 2026

The first technical session began with **Hands-on Experiments using PASCO Scientific sensors explained by the faculties of Physics Department**, PSG iTech where participants gained practical experience in performing physics experiments using modern sensor-based technology. The interactive nature of the session enabled teachers to understand how these tools could be effectively incorporated into classroom teaching.

The second session by **Dr. Nagarjun** of Mechanical Engineering Department, PSG iTech introduced participants to sensor interfacing with IoT and discussed their implementation, characteristics to explore innovative approaches bridging the gap between theoretical physics and engineering applications.



Day 2 – 25 July 2026

The second day began with a **Demonstration and Interactive Session** conducted by **Prof. C. K. Shashidharan Nair** on the topic "**Fun with Physics.**" Through a series of simple yet fascinating experiments, he demonstrated how physics concepts could be presented in an enjoyable and engaging manner. The interactive session inspired participants to adopt creative teaching techniques that promote curiosity and active learning among students.

This was followed by a demonstration session by **Dr. N. Divyah** and **Dr. V. Selvapriya** of Civil Engineering Department, PSG iTech to determine the **Strength of Materials** where participants explored methods for analyzing and understanding the material properties of different materials through

experimental techniques. The session enhanced their understanding of material science concepts and their practical applications.

In the afternoon, participants visited the prestigious **PSG GRD Museum,,** where they explored exhibits related to science and technology. The visit served as an experiential learning activity that highlighted the importance of connecting theoretical knowledge with real-world experiences.

The workshop concluded with the **Valedictory Session**, during which participants shared their feedback and reflected on their learning experiences.

Workshop Outcome:

The workshop was conducted successfully and achieved its intended objectives. Through a combination of hands-on experiments, interactive technical sessions, demonstrations and experiential learning activities, the workshop equipped physics teachers with modern pedagogical strategies and practical skills. The positive feedback received from the participants reflected the effectiveness of the program and its contribution to their professional development.

