

Kerala Physics Congress 2023

The **Kerala Physics Congress 2023** was conducted on **11th and 12th November 2023** at **Farook College**. The programme was organized by the **Association of Physics Teachers (APT), Kozhikode**, in collaboration with Farook College, as part of a science education initiative.



Kerala Physics Congress is a significant academic programme aimed at addressing the challenges posed by the rapidly evolving field of physical science. The initiative is grounded in the belief that *efficient students are not born but are trained*. The programme was specifically designed for higher secondary science students and teachers, providing them with opportunities to explore advanced topics in physics, engage in interactive learning, and interact with eminent academicians.



The inaugural session was formally inaugurated by **M. Santosh Kumar**, Higher Secondary Regional Deputy Director. The presidential address was delivered by **Dr. Ayesha Swapna**, Principal of Farook College. Felicitation speeches were delivered by **Saji Matthew** (President, APT), **Sudheer Babu** (Former Secretary, APT), **T.K. Anil Kumar** (Secretary, APT), **Dr. Mithun Shah** (Head of the Department of Physics, Farook College), and **K.K. Alikutty** (Staff Secretary, Farook College). The **Convener** of the programme was **Anil Kumar T. K.**

കേരള ഫിസിക്സ് കോൺഗ്രസിന് തുടക്കം

ഫറോക്ക്: ഫാറൂഖ് കോളജ് ഫിസിക്സ് ഡിപ്പാർട്ട്മെന്റുമായി ചേർന്ന് കോഴിക്കോട് ജില്ലാ ഫിസിക്സ് ടീച്ചേഴ്സ് അസോസിയേഷൻ പ്ലസ് ടു വിദ്യാർത്ഥികൾക്കായി സംഘടിപ്പിക്കുന്ന കേരള ഫിസിക്സ് കോൺഗ്രസിന് ഫാറൂഖ് കോളജിൽ തുടക്കമായി. കൂട്ടികളുടെ ശാസ്ത്ര പഠനം മികവുറ്റതാക്കുക, ഗവേഷണാഭിരുചി വളർത്തുക, ഗവേഷണ മേഖലകളെ പരിചയപ്പെടുത്തുക എന്നിവയാണ് ലക്ഷ്യം.

കോഴിക്കോട് മേഖല ഹയർ സെക്കൻഡറി ഡെപ്യൂട്ടി ഡയറക്ടർ എം. സന്തോഷ്കുമാർ ഉദ്ഘാടനം ചെയ്തു. ഫാറൂഖ് കോളജ് പ്രിൻസിപ്പൽ ഡോ. ആയിഷ സുപ്പ അധ്യക്ഷത വഹിച്ചു. അസോസിയേഷൻ പ്രസിഡന്റ് സജി മാത്യു, സെക്രട്ടറി ടി.കെ. അനിൽകുമാർ, കെ.പി. സുധീർ ബാബു, മിഥുൻ ഷാ, സ്റ്റാഫ് സെക്രട്ടറി കെ.കെ. ആലിക്കുട്ടി എന്നിവർ സംസാരിച്ചു. ഞായറാഴ്ച സമാപിക്കും.

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The congress witnessed active participation from approximately **130 students** and **50 teachers** from Kozhikode district. The organizers ensured that **food and accommodation facilities were provided**, enabling participants to fully engage in the programme.



Day 1: November 11, 2023

The first day included six engaging sessions covering a wide spectrum of physics topics:

Session 1: Extrasolar Planets and the Search for Life in the Universe

Handled by **Dr. Anand Narayanan**, Professor at the Indian Institute of Space Science and Technology.

The session explored the discovery of exoplanets and the scientific search for extraterrestrial life.

Session 2: A Journey through Newtonian Mechanics

Delivered by **Dr. Sethu Madhavan**, former Head of the Department of Physics, Sree Narayana College, Chelannur.

The session provided a strong conceptual foundation in classical mechanics and its applications.



Session 3: Quantum Computing – An Introduction to Next Generation Computing

Handled by **Dr. R. K. Sunil Kumar**, Assistant Professor at Kannur University.

The talk introduced quantum computing concepts such as qubits, superposition, and entanglement.

Session 4: Waves of Information

Presented by **Dr. B. Premlet**, former Professor and Head of TKM College of Engineering.

The session explained the role of waves in communication systems and information transfer.

Local Visit

A local visit was arranged at **5:00 PM**, providing a break and opportunity for informal interaction.

Session 5 & 6: Astronomy and Astrophysics with Sky Watching

Conducted by:

- **Prof. K. Pappootty**, former Head of the Department of Physics, Government College Madappalli
- **Naseef Mohammed PN**, Assistant Professor, Farook College

This session included a **sky-watching activity**, offering hands-on experience in observing celestial objects.

Day 2: November 12, 2023

The second day featured sessions focused on experimentation, modern applications, and research:

Session 7: Exciting World of Experimental Physics

This session was conducted by:

- **Dr. Midhun Shah**, Head of the Department of Physics, Farook College
- **Dr. P. N. Musfir**, Assistant Professor, Farook College
- **Sri Anaswalih P. K.**, Assistant Professor, Farook College

The session emphasized the importance of experimental methods and hands-on learning in physics education.

Session 8: Photonics and its Applications (with Demonstrations)

Handled by **Dr. V. P. N. Nampoori**, Emeritus Professor (Retd.), International School of Photonics, CUSAT.

The session included demonstrations and highlighted applications of photonics in modern technology.

Session 9: Gravity – Concepts and Misconceptions (Parallel Session)

Conducted by **Dr. Titas K. Mathews**, Associate Professor, Department of Physics, Cochin University of Science and Technology.

The session clarified misconceptions and strengthened conceptual understanding of gravity.

Session 10: Research in Science

Handled by **Dr. Anoop K. K.**, Assistant Professor, Department of Physics, Cochin University of Science and Technology.

The session motivated students to pursue research careers and introduced them to opportunities in scientific research.



Valedictory Function

The programme concluded with the **valedictory function at 2:00 PM**, with **Dr. M. K. Jayaraj**, Honourable Vice Chancellor of University of Calicut, as the chief guest. All the participants were given participation certificates and were also gifted with a Physics book. The function marked the successful completion of the congress.



Kerala Physics Congress 2023 was a highly enriching and well-organized academic event. It successfully combined theoretical knowledge with practical exposure and interactive learning. The diverse sessions, expert guidance, and hands-on activities fostered scientific curiosity and critical thinking among participants.

The programme effectively achieved its objective of promoting excellence in physics education and inspiring students to pursue higher studies and research in the field of physical science.