



**ANDHRA LOYOLA COLLEGE (Autonomous) :: Vijayawada-520 008, A.P**

Accredited with 'A' Grade with a CGPA of 3.09/4.00 in IV Cycle by NAAC

**Andhra Loyola Physics Association (ALPHA) presents**

**RESONANCE 2025** *In tune with nature*

To commemorate International year of Quantum Science and Technology 2025



**National Level Academic Fest on  
Quantum Science and Technology**



**04<sup>th</sup> & 05<sup>th</sup>, February 2025**

**LIST OF ACADEMIC COMPETITIONS**

<p><b>TOPICS</b></p> <ul style="list-style-type: none"> <li>Quantum Computing</li> <li>Quantum communication</li> <li>Quantum Sensing and metrology</li> <li>Quantum materials and devices</li> <li>Quantum memories, Chips</li> <li>Quantum Simulators</li> <li>Quantum sensors, particle generators, atomic clocks</li> <li>Post quantum cryptography</li> <li>Quantum Key distribution</li> <li>Quantum Software</li> <li>Quantum ethics and security</li> <li>Quantum dots</li> <li>National Quantum Mission</li> <li>Quantum mechanics</li> </ul>	<p><b>1. ORAL PRESENTATION (PPT)</b></p> <p>Venue: Seminar Hall</p> <ul style="list-style-type: none"> <li>Prelims: <b>4 Feb 2025 (9:30 AM)</b> (Time for each candidate is 6+2 min)</li> <li>Finals: <b>5 Feb 2025 ( 1 PM)</b> (Time allotted for each presentation is 10+2 min)</li> <li>Max number of entries per college : 3</li> <li>Topics: as in first column</li> </ul> <p>Time limit- 4 to 5 minutes.</p> <p>Coordinators – A. Ankitha, Ph. 8088567266 D. Sagar Babu, Ph. 8919773865</p>	<p><b>2. TOON PHYSICS</b></p> <p>Date &amp; Time: <b>4<sup>th</sup> Feb (11:00-12:00)</b></p> <p>Venue: Physics lab</p> <p>Topics:</p> <ul style="list-style-type: none"> <li>Cartoon shall be on physics concept with fun. can be drawn at home</li> <li>can display number of cartoons related to physics concepts or scientists</li> <li>Max.No of participants per Team: 03</li> </ul> <p>Coordinators– N Jayanth Kumar, Ph. 7386053624 K. Mahesh G. Manasa</p>	<p><b>3. QUIZ</b></p> <p><b>(General, Audio &amp; Visual Rounds)</b></p> <p>Date &amp; Time: <b>5<sup>th</sup> Feb (10:15-12:00)</b></p> <p>Venue : Seminar Hall</p> <p>Topics :</p> <ul style="list-style-type: none"> <li>Topics to be covered for this quiz competition are General Knowledge and Current Affairs.</li> <li>Two rounds: Preliminary and Final.</li> <li>Special round on Quantum Science</li> </ul> <p>Coordinators – N Jayanth Kumar, Ph. 7386053624 G. Apuroop, Ph. 9010802212 A. Ankitha, Ph. 8088567266 V. Kishore Kumar, Ph 9010802212</p>
<p><b>4. POSTER PRESENTATION</b></p> <p>Date &amp; Time: <b>4th Feb (11 AM- 01PM)</b></p> <p>Venue: Physics lab</p> <p>Topics: International year of Quantum mechanics</p> <p>The focus of the poster must be on Quantum Science and technology Content and creativity are the parameters for evaluation</p> <p>Coordinators– G. Apuroop, Ph. 9010802212 V. Kishore Kumar, Ph 9010802212</p>	<p><b>5. CONCEPTUAL TEACHING</b></p> <p>Date &amp; Time: <b>4<sup>th</sup> Feb (1PM–2:30 PM)</b></p> <p>Venue: Seminar Hall</p> <p>Topics:</p> <ul style="list-style-type: none"> <li>Choose a concept in quantum Physics.</li> <li>Any topic related to the theme.</li> <li>Explain your concept within 4 min</li> </ul> <p>Coordinators – D. Sagar Babu, Ph. 8919773865</p>	<p><b>6. ESSAY WRITING</b></p> <p>Date &amp; Time: <b>4<sup>th</sup> Feb (12:00-1: 30 PM)</b></p> <p>Venue: Physics lab</p> <ul style="list-style-type: none"> <li>Topic: <b>"Quantum computing and quantum communication"</b> or <b>National quantum mission</b> One topic will be announced 1 hour in advance</li> </ul> <p>Time limit: 60 min.</p> <p>Coordinators – U. Durga Prasad, Ph. 9490411607 T. Prabhu, Ph 8686348552</p>	<p><b>7. ROLE PLAY ( Acting and Explaining)</b></p> <ul style="list-style-type: none"> <li>You have to act and explain about any Physics Scientist.</li> <li>Date &amp; Time: <b>5 Feb (9:20- 10:10 AM)</b></li> <li>Venue : Seminar Hall</li> </ul> <p>Coordinators – N Jayanth Kumar, Ph. 7386053624 A. Mohan Kumar, Ph 9392743915</p>



**General Rules & Regulations**

- Participants need to register their names for the competitions before one day. Participants need to register their names through the link before 02-02-2025
- You are expected to bring all the needful and necessary things for your respective competitions.
- You are expected to come before half-hour for any competition.
- For any clarification and information please contact any one of the coordinators.

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<p><b>Dr. N. Ramakrishna Chand,</b> Staff Coordinator Ph. No. 9440879403</p>	<p><b>Dr. T. Srikumar,</b> Head Department of Physics</p>	<p><b>Student Coordinator</b> N. Jayanth Kumar Ph. No. 7386053624</p>
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