

## RESONANCE 2025

*In tune with nature*

04 & 05, February 2025

### COMPETITIONS AT A GLANCE

- (a) Oral Presentation (PPT)
- (b) Poster Presentation
- (c) Quiz
- (d) Role Play
- (e) Essay Writing
- (f) Toon Physics
- (g) Concept Teaching

Registration link:

<https://forms.gle/wyZjgmeyUmqCP9es7>



Register before 02-2-2025.

### **Important Dates to remember:**

**04-02-2025** : Oral- PPT presentation (Prelims), poster presentation, Essay Writing, Conceptual teaching

**05-02-2025:** Quiz, Role Play, Oral-presentation (PPT) (Finals), Exhibit your model

**Patrons:** Rev. Fr. P. R. John, S.J. Rector  
Rev. Fr. Dr. M. Sagayaraj, S.J.  
Correspondent

**Chairman:** Rev. Fr. Dr. G. A. P. Kishore, S.J.  
Principal

### **Co-Chairmen:**

Rev. Fr. K. M. Prabhudas, S.J. Vice Principal  
(III UG & PG)

Rev. Fr. G. Kiran Kumar, S.J. Vice Principal  
(II UG)

### **Convener:**

Dr. T. Srikumar, Head, Dept of Physics

Dr. N. Ramakrishna  
Chand, Staff  
Coordinator, Ph.no :  
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Student Coordinator  
N. Jayanth Kumar,  
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### **Organising Committee**

Dr. G. Murali Krishna  
Dr. G. Sahaya Baskaran  
Mr. P. Srinivasa Sastry  
Dr. T. Srikumar  
Dr. M.C. Rao  
Dr. Ch. Srinivasa Rao  
Dr. D. V. Satish  
Dr. P.V.S. Sairam  
Dr. N. Ramakrishna Chand  
Mr. B.K. Sudhakar  
Dr. B. Johnson  
Rev. Fr. Dr. Y.T. Prabhu S.J  
Mrs. K.Seshu Latha  
Mrs. Gunjan Mahajan  
Mr. P. Arun Kumar

**All the  
Students  
of  
ALPHA**

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



## RESONANCE 2025

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Indian Association of Physics Teachers  
(IAPT) sponsored

**National Level Academic  
Competitions for  
UG Students on  
'Quantum Science &  
Technology'**

4<sup>th</sup> & 5<sup>th</sup>, February 2025

Organised by

**Andhra Loyola Physics Association  
(ALPHA)**

## List of Academic Competitions

### 1. Oral Presentation (PPT)

- Prelims : **04-2-2025 (09.30 a.m)**  
(Time for each candidate is 6+2 min.) Every participant has to submit a soft copy of the PPT)
- Finals : **05-2-2025 (01.00 p.m)**  
(Time allotted for each presentation is 10+2 min.)
- Max. Number of entries per College: 3

**TOPICS:** *Choose any of the following*

Quantum Computing  
Quantum communication  
Quantum Sensing and metrology  
Quantum materials and devices  
Quantum memories, Chips  
Quantum Simulators  
Quantum sensors, particle generators, atomic clocks  
Post quantum cryptography  
Quantum Key distribution  
Quantum Software  
Quantum ethics and security  
Quantum dots  
National Quantum Mission  
Quantum mechanics  
Quantum Software  
Quantum ethics and security  
Quantum dots  
National Quantum Mission  
Quantum mechanics

### 2. Poster Presentation

Topic: *One of the above mentioned Topics*

- Date & Time : **05-2-2025 (11.00 AM-1.00 PM)**
- The focus of the poster can also be on ISRO and its contribution to space exploration.
- Max. Number of entries per College: 3
- Size of the poster: 3 x 4 feet (breadth x height)
- The participant has to explain the theme within 3 minutes to the Judges

### 3. Quiz: Audio Visual General Quiz

- Prelims: : **05-2-2025, 10.15AM**, (Written)
- Finals: Top 4 teams will be selected for finals to be held on the *same day*.
- Number of entries per College: 1 team  
(Max: 3 students per team)
- Topics to be covered for this quiz Competition General Knowledge and Current Affairs.
- Special round on Quantum Science

### 4. Role Play

- Topic: *Scientist who Inspired me*
- Act and present like a Scientist
- Date & Time : **05-2-2025 (09.20 AM)**
- Max. Number of entries per College: 3
- Time limit: 3 min.

### 5. Essay Writing

Topic: **Quantum computing and quantum communication or National quantum mission**

**One topic will be announced 1 hour in advance**

- Date & Time : **05-2-2025 (2.00 – 3:00 PM)**
- Max. Number of entries per College : 3
- Time limit: 1 Hour

### 6. Toon Physics

- Cartoon shall be on physics concept with fun. can be drawn at home
- can display number of cartoons related to physics concepts or scientists
- Date & Time: **05-2-2025, 12.50 – 3:30 PM**
- Entries per College : No Limit

### 7. Concept Teaching

- Choose any one concept in Physics
- Explain the same with a low cost teaching-model in 4 minutes.
- Date & Time: **05-2-2025, 12. 50 PM**
- Entries per College : No Limit

### General Rules and Regulations

1. Students have to submit *bona fide* letters from their respective colleges on 04<sup>th</sup> / 05<sup>th</sup> Feb 2025.
2. Participants need to register their names through the link before 2-2-2025
3. **No Registration Fee is charged for any of the competitions.**
4. **No accommodation is provided for outstation participants.**

<https://forms.gle/wyZjgmeYUmqCP9es7>

