



St. Joseph's University
Bangalore, Karnataka



SCHOOL OF PHYSICAL SCIENCES
DEPARTMENT OF PHYSICS

SPECTRA

Annual Physics Festival of Physics Students' Association

12th April 2023
From 8.30 a.m. to 3 p.m.

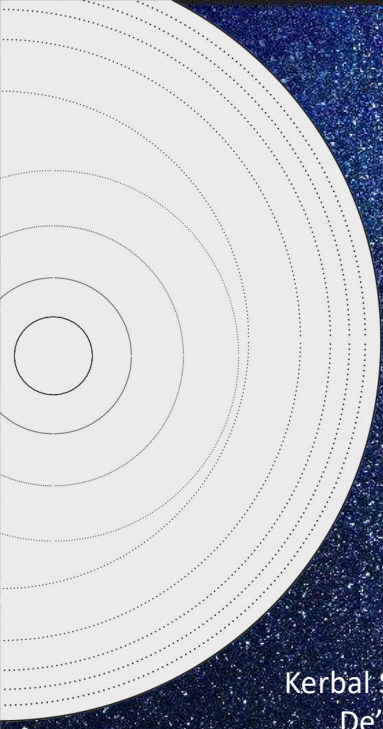
Presented by:
Physics Students' Association (PSA)
Department of Physics
St. Joseph's University
Bangalore
Karnataka

Open for all & Registration is free
Tap or Scan the QR!



Faculty Co-ordinator:
Dr. G. Vignesh
Assistant Professor,
Department of Physics, SJU.

Student Co-ordinators:
1. Mr. Shashank
2. Mr. Shashwath Gupta
3. Mr. Spandan
4. Mr. Hitesha



1
Kick-off
De' Nobili Hall
8:00 - 9:00



3
Kerbal Space Program
De' Nobili Hall
9:30-11:30

2
Pundora's Box
Faber
9:30 - 11:30

5
Phygure it out
Faber
11:30 - 14:00

4
Minute to Win it
Alyosius Hall
9:30 - 11:30

6
Connection
Alyosius Hall
11:30 - 14:00



8
Culmination
De' Nobili
14.00 - 14:30

Online

12

Meme making
Deadline: 10/04/2023

11

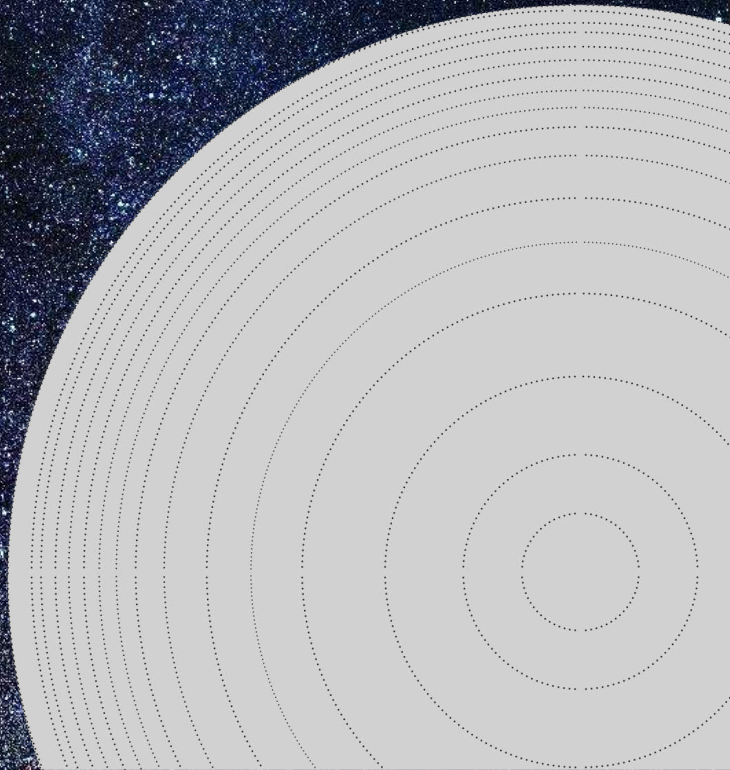
Creative writing
Deadline: 10/04/2023

13

AniMania
Date: 09/04/2023
17:00-19:00

14

Quiz
Date: 09/04/2023
15:00-17:00





Individual Event

Time - 9:30 - 11:30
Venue - Faber Hall

Engineering failures can have catastrophic results, an example being an aeroplane crash. But if only one person can be saved, who will it be?

- Physics knowledge required: **Low**
- Mobile phones cannot be used.

Pun Dora's Box

Event heads:

Atique - 6000391649
Disha - 8095985364



Rules :

Event Rules:

It is an individual event
The competition consists of three rounds.

First round-

Participants will be given topics and they will have to come up with as many puns as they can.
Time- 25 min

Second round-

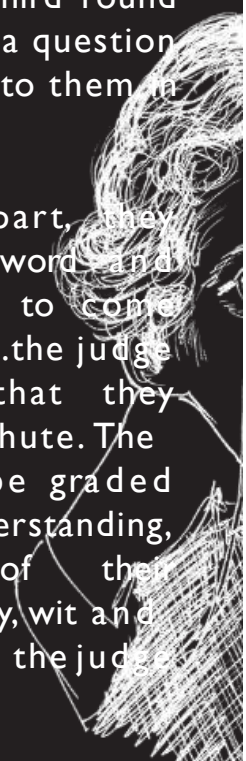
Each of the selected participant will get a topic and they will be given two minutes to prepare and they will have to come on stage

and tell as many puns as they can.

Third Round-

The participants who get selected for the third round will have to answer a question that will be given to them in the first part

In the second part, they will be given a word and they're supposed to come up with a question. The judge and audience that they deserve the parachute. The participants will be graded based on their understanding, impersonation of their character, creativity, wit and ability to convince the judge and audience.





Individual Event

Time - 9:30 - 11:30
Venue - Faber Hall

Kerbal Space Program

NASA needs a whole team to land a satellite but here we just need one participant to do it. The players will compete in the game called Kerbal Space Program to land a spacecraft on the mun! (moon). Through this event, the basic concepts of orbital mechanics are familiarized.

- Physics knowledge required: **Medium**
- Mobile phones cannot be used.
- Laptops will be arranged



Event heads:

- Shamanth - 7204432947
- Bala - 8762172477
- Thejas - 8553757994

Rules:

- Participants will be given 3 attempts to land the spacecraft on the mun in the shortest time.
- The first attempt will be for the participant to familiarize the controls of the game.
- The shortest time of the next 2 trials will be considered for evaluation of the winner(s).



Connection



Duo

Physics is a lot like love, it's all about finding that magical connection. Join us as we test your ability to find connections between seemingly different things.

- Physics knowledge required: **Undergraduate level**
- Mobile phones cannot be used.

Time - 11:30 - 14:00
Venue - Alosysius Hall

Event heads:

Vikramadithya - 9862889862
Sparsh - 8875415555

Rules :

- A set of images will be presented to you.
- All the images will have some element/theory/principle common between them.
- Participants need to find the connection between them.
- After the 1st round only the top 15 teams go further
- After the 2nd round only the top 5 teams go further

Number of Rounds: 3 Rounds

1st round 10 questions (30sec/q)

2nd round 5 questions (45sec/q)

3rd round 3 questions (1min/q)



Time - 9:30 - 11:30
Venue - Alyosius Hall



Minute to win it

Event heads:

Madhurya - 7086485337
Shashank - 7892201471

If you had one shot, one opportunity to cease everything you've ever wanted, one moment, would you capture it? If yes, you are in the right place.

- Physics
knowledge required: 12th grade

- Mobile phones are allowed

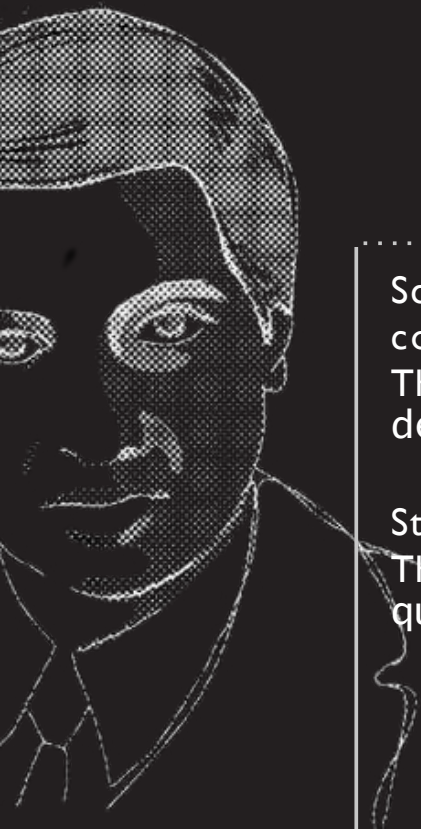
Rules :

Time Limit: Each challenge must be completed within a minute. The clock starts counting down from 60 seconds, and the contestant must complete the task before the time runs out.

Challenges: There are different challenges that contestants must complete, ranging from physical tasks to mental puzzles. Each challenge has specific rules and instructions, and the contestant must follow them carefully.

Scoring: The contestant receives points for completing each challenge successfully. The number of points awarded may vary depending on the difficulty of the challenge.

Structure: Initial few rounds will be eliminators. The top 5 contestants will compete in qualifiers.





Creative Writing & Meme making

Rules :

1.All active participants will be provided a deadline in the group before which they have to submit their memes, plagiarism/copying on memes/art will be checked.

2.The participant won't be disqualified on the terms of plagiarism/copying, but marks will be reduced.

3.Group will be interactive; participants could freely talk with each other about memes and physics. No vulgarity is allowed if found so the particular individual would be disqualified.

4.Sharing memes/art is allowed in the group as long as participants use the "one-time view" feature of Whatsapp to avoid copying their memes.



AniMania

Time - 17:00 - 19:00
Venue - Online

Konichiwa weebyarou, if you have watched a big enough number (like 106) of anime and believe you have what it takes to be crowned the kaizokou of 9anime, this event is for you

Event heads:

Manav - 8462012008

Disha- 8095985354

Individual Event

Rules :

Rules and Regulations of the event.

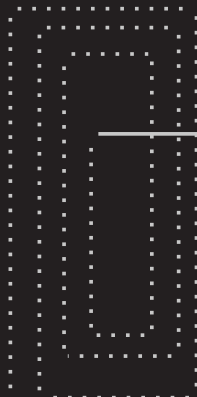
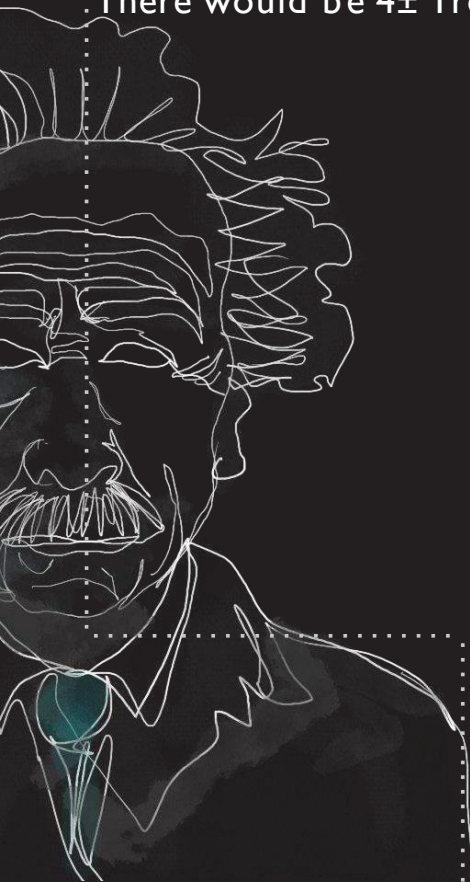
You can register as an individual or as a duo.

There would be 4± 1 rounds

Age required: None
phones cannot be used.

Participants should get their own phone with a good and stable internet connection.

Using any other device apart from mobile phones will result in immediate disqualification.



Phygyre it out

Physics is all around us, and this event tests how well you can identify it. If you don't understand physics too well don't worry you'll 'PHYGYRE IT OUT'.

- Physics knowledge required: **Medium**

- Mobile phones cannot be used.

Rules :

- A total of three rounds will be conducted. Each subsequent round will get harder and require more analytical skills.



Time - 9:30 - 11:30
Venue - Faber Hall

Event heads:

Spandan - 6291851588

Madhurya - 7086485337

- If no straightforward answers are received, points will be awarded based on the participant's thought process.

- All participants will be provided with a blank sheet on which they have to mention their approach step by step. The hosts will evaluate the sheets and assign marks accordingly.

- Each group can consist of a maximum of three participants.

- One group or individual can challenge the answers provided by a rival group or individual for bonus points.