



# INDIAN ASSOCIATION OF PHYSICS TEACHERS

(Registered under section XXI of scientific Act 1860, Reg.No. K-1448)

REGIONAL COUNCIL-6

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## Information Circular

### International Young Genius Physics Tournament, 2013

The Principal,

Indian Association of Physics Teachers, Regional Council – 6 is organizing an international event '**Young Genius Physics Tournament**' to motivate students toward understanding the ability and strengths of self study and the advantage of oceanic academic content available on internet in school academics for strengthening fundamentals at roots.

YGPT is an online tournament in which students will have an online YGPT Account at YGPT website in which they will step ahead after qualifying five rounds one after another. Rules of the tournament are given in Annexure-A with this letter.

#### Tournament Structure

1. On the specified date as per schedule of the Tournament, in the YGPT Account of the student, a Video Clip will appear which includes a daily life activity and concepts of physics associated with it and online resources to study these concepts. Students will get 7 days time to study these concepts.
2. After 7 days on the day of '*Physics Fight*' a paper will appear in the student account for 12 hours in which any time for 30 minutes student can attempt the paper online.
3. On the next day list of qualified candidates will appear on the YGPT Online Bulletin, who will be eligible for the next round of the tournament as per the Fight Structure given in Annexure-B with this letter.

We hereby request you to kindly appoint a coordinator from your school who can give information of the event to all students of your school in age group 15 to 19 years and collect their names in the format attached with this letter and mail the scanned copy of it to the ID [ygpt@iaptrc6.org](mailto:ygpt@iaptrc6.org) and confirm the same to the YGPT National Coordinator Mr. Sumit Kendurkar at the contact no 08058233717 for the acknowledgement of the file.

**Prof Y K Vijay**  
President  
IAPT RC-6

**Ashish Arora**  
Secretary  
IAPT RC-6

## **About IAPT**

The Indian Association of Physics Teachers (IAPT) was established in the year 1984 by the great visionary, (Late) Dr. D. P. Khandelwal, with active support from some Physics teachers, with the aim of upgrading the quality of Physics teaching and Physics teachers at all levels. It has now grown into a major organisation with about 5000 life members spread all over about 1500 organisations throughout the country including about 100 members from abroad. The members include school, college, university teachers, research workers, science administrators and science savvy enthusiasts. For its grass root working, the country is divided into 20 regions, each with a regional council. The apex executive council, co-ordinates and directs the effort at the national level.

All IAPT work is voluntary, No remuneration is paid to its members for any IAPT activity.

## **About Young Genius Physics Tournament (YGPT)**

The Idea of YGPT was framed to tap the power of Self Study through Internet at young age. Now a days most of students are active on internet but mainly on facebook, twitter, gaming, and other social networking. They are not using the actual power of Internet for academics.

Young Genius Physics Tournament is the first online Physics tournament to be held globally. It will run from 15<sup>th</sup> September to 22<sup>nd</sup> December 2013 and will consist of five rounds of fights, culminating in The Grand Finale in Jaipur. The registrations will remain open between 15<sup>th</sup> August and 15<sup>th</sup> September 2013. The students can individually register or the school can register students in a bulk format through YGPT National Coordinators.

With its unique format of several rounds of fights, the tournament was conceived by leaders in education and child pedagogy to inculcate natural curiosity in students. The aim of the competition is three-fold:

1. To identify and nurture science talent in the young students and to provide them a platform to showcase and measure their skills globally.
2. To promote self-learning through the greatest technological revolution in the last decade, the internet. To attract students to the several avenues of learning present online and detach them from the traditional classroom method.

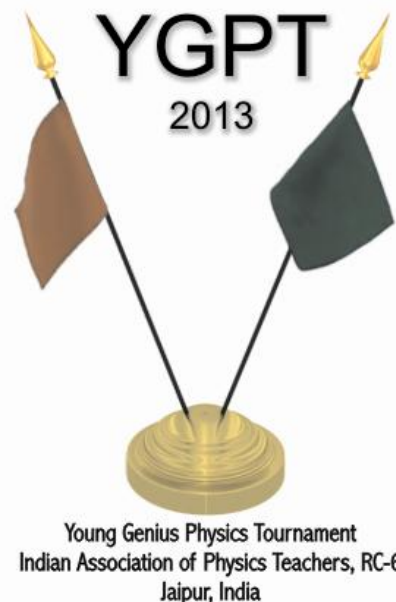
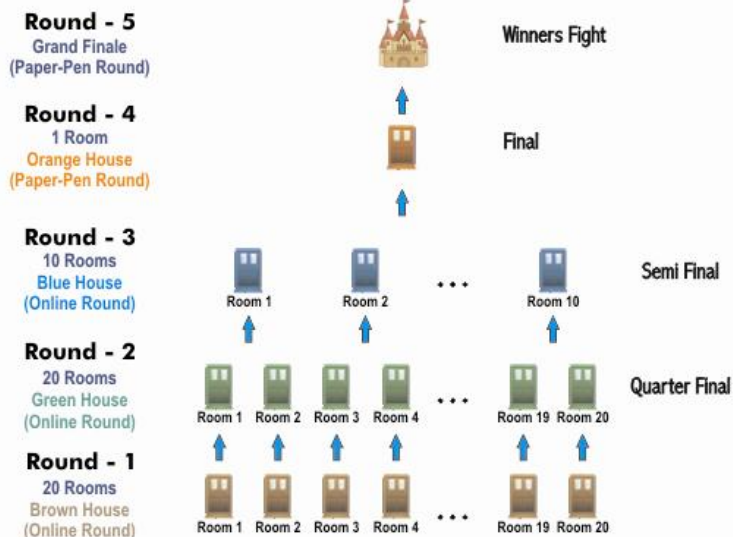
Traditional classroom teaching, though effective, has several shortcomings. The most prominent one is lack of interaction of teacher with every individual student and understanding of individual needs. The gap created can be bridged by the use of technology. Using the internet, the student can study at their own time and in familiar surroundings. Moreover students can study at their own pace, unlike traditional teaching methods where all students must study at the same speed regardless of their grasping abilities. The plethora of interactive audio-visual resources available on the world wide net has made it possible for every student to excel using the methods most suited to them. This initiative is aimed at providing students the opportunity to imbibe these pioneering learning resources in their daily studying routine.

3. To encourage students to apply Physics in their daily lives. As Rutherford observed, Physics is all around us. Every physical process is a real-life example of an amalgamation of several laws and theories of physics that students study as part of their curriculum. This competition will encourage the students to identify these laws and theories by analyzing the physical phenomena around them in their daily lives.

# Tournament Fight Structure

## YGPT Fight Structure

Online Rounds will be open for 12Hrs from 12:00 Noon IST to 12:00 Midnight IST.  
For Round Schedules visit <http://ygpt.iaptrc6.org>



**Tournament Registrations will be open from 15-Aug-13 to 15-Sep-13**

**Registration Procedure** - Registration through Schools will be accepted by the YGPT National Coordinator. Students can give their entries to YGPT School Coordinators in their School.



In each Room, there will be a video based on different concepts of Physics as well as the resources to study those concepts in depth. Students will have 7 days to strengthen these concepts and then on the specified date of 'Physics Fight', an online contest will become live in the account of the participants for 12 hours. The student can attempt the 30 minute fight anytime during this period. The list of qualified candidates for the next round will be declared the following day.

## Vision for YGPT

Our vision is to introduce students to the power of self-study using the internet.

The days of traditional teaching methods are over. Using the infinite learning resources available on the World Wide Web, students can learn almost anything they want – and that too from the comfort of their own homes and at any pace they like. They can read, watch interesting videos and even practice their skills online. And now, the learning material available covers all subjects and grades – and is even specifically geared towards the competitive exams for those who are dreaming of cracking admissions into the best colleges in their countries.

So the dedicated students no longer have to spend money and time on expensive coaching classes – they can study for all exams online, and that too for free. They can even study from the best teachers in the world, whenever they want. That is the power of technology; and we are hoping to encourage students to leverage this enormous potential by introducing them to these resources.

## Format of YGPT

## Eligibility criteria

Any student in the age group 15-19 years as on 31<sup>st</sup> December 2013 can register to compete. Please note that if qualified for the final round, the student will have to provide a legal age proof attested by a school principal/director. Failing which, the student will be automatically disqualified.

## YGPT Format

On 22<sup>nd</sup> September 2013, each student will be allocated a room in which they will fight fellow young physicists from all over the world. Students in each room will be given a Video on a Physics Activity to watch and analyze. The video will consist of description of a physical phenomenon as well as a list of physics concepts associated with it. The students will then have seven days to study the concepts via the various learning resources provided by IAPT and prepare for their fights.

On the day of the fight, the fight window will remain open for 12 hours (from 12:00 Noon to 12:00 Midnight IST) – during which the student can login once (and only once) to attempt the fight. Each fight will consist of 20 questions to be attempted in 30 minutes. The questions will be based on the concepts used in the video for each room. The list of the winners of the round will be released the next day, and the selected students will proceed to the next round of fight which will follow the same format. The round structure is as follows:

Round 1 – 20 Rooms – 50% appearing students to qualify for round 2

Round 2 – 10 Rooms – 50% appearing students to qualify for round 3

Round 3 – 1 Room – Top 100 students to qualify for round 4

Round 4 – Paper & Pen Round at Jaipur – Declaration of Recognition Medal and Bronze Medals winners

Round 5 – Paper & Pen Round – Declaration of Gold Medal and Silver Medals winners

## Pattern for Paper & Pen Rounds

Round 4 will consist of a 1 Hr paper on theoretical Physics which will consist of 50 Multiple choice questions.

Round 5 will consist of a 1 Hr paper on Numerical and Application based Physics which will consist of 50 Multiple choice questions based on Comprehension based concepts.

## Awards & Recognitions

The award presentation ceremony will be held in Jaipur, India in December 2013 to honor the winners of the Young Genius Physics Tournament. The top 100 students will be invited to Jaipur by IAPT and given a chance to visit and explore The Pink City. The award scheme of YGPT is as follows:

**YGPT GOLD medals** awarded to 90 percentile and above scores in round 5

**YGPT SILVER medals** awarded to 60 to 90 percentile scores in round 5

**YGPT BRONZE medals** awarded to 30 to 60 percentile scores in round 5

**YGPT recognition medals** awarded to bottom 30 percentile scores in round 5

**Top 1% merit certificate** awarded to all students in the top 1% after Round 4

**Certificate of participation** mentioning the level attained will be awarded to every student

## Participation Fee

There is no fee for the participation.

## Registration Procedure

Registration is through School Coordinators. School coordinators can take the entries of the candidates in school who will be meeting eligibility criteria as per the format enclosed in MS Excel file (.xls or .xlsx format) and mail the file to YGPT National Coordinator at [ygptnc@iaptrc6.org](mailto:ygptnc@iaptrc6.org)

Please note the school takes full responsibility of ensuring that their students meet the eligibility criteria.

## **Important Dates and YGPT Fight Schedule**

<b>Registration Opens</b>	<b>15-Aug-2013</b>
<b>Registration Closes</b>	<b>15-Sep-2013</b>
<b>Tournament Gate Opens in Student Account and Rooms will be allotted to Participants</b>	<b>22-Sep-2013</b>
<b>Round -1 Concept Video appears in Student Account</b>	<b>22-Sep-2013</b>
<b>Physics Fight -1 (Online Paper of 30 minutes in Student Account)</b>	<b>29-Sep-2013</b> <b>(1200 Noon to 1200 Midnight IST)</b>
<b>Result of Physics Fight -1 (List of qualified students for Round 2)</b>	<b>30-Sep-2013</b>
<b>Round -2 Concept Video appears in Student Account</b>	<b>6-Oct-2013</b>
<b>Physics Fight -2 (Online Paper of 30 minutes in Student Account)</b>	<b>6-Oct-2013</b> <b>(1200 Noon to 1200 Midnight IST)</b>
<b>Result of Physics Fight -2 (List of qualified students for Round 3)</b>	<b>7-Oct-2013</b>
<b>Round -3 Concept Video appears in Student Account</b>	<b>13-Oct-2013</b>
<b>Physics Fight -3 (Online Paper of 30 minutes in Student Account)</b>	<b>13-Oct-2013</b> <b>(1200noon to 1200midnight IST)</b>
<b>Result of Physics Fight -3 (List of qualified students for Round 4 and 5)</b>	<b>14-Oct-2013</b>
<b>Call Letters to students qualified for Round 4 and 5</b>	<b>30-Nov-2013</b>

Round 4 and 5 (To be conducted at Jaipur)	December Second Week (Dates will be displayed later)
Award ceremony (To be conducted at Jaipur)	On the next day of conduction of Round 4 and 5 (Date will be displayed later)

## YGPT Team

### Advisory Board of YGPT

- **Dr. Amita Gill**, Director, Dept of Science & Tech, Govt of Rajasthan, Jaipur.
- **Prof. Dev Swaroop**, Vice Chancellor, University of Rajasthan, Jaipur.
- **Prof. R P Yadav**, Vice Chancellor, Rajasthan Technical University, Kota.
- **Prof. Sandeep Sancheti**, Vice Chancellor, Manipal University, Jaipur.
- **Prof. AB Gupta**, Dept of Civil Engg, MNIT, Jaipur.

### YGPT Chairpersons

- **Prof. YK Vijay**, Dept of Physics, Univ of Rajasthan.
- **Prof. Sudhir Raniwala**, Dept of Physics, Univ of Rajasthan.
- **Prof. Deepak Bhatnagar**, Dept of Physics, Univ of Rajasthan.

### YGPT Organizing Board

#### Event Convenors

- **Ashish Arora**  
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- **Dr. YK Sharma**  
**Executive Member, IAPT RC-6**

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## **YGPT Helpline for Schools**

Email : [ygptnc@iaptrc6.org](mailto:ygptnc@iaptrc6.org)

Phone : Mr. Sumit Kendurkar (09828647782), Mr. Amit Jaggi (08875555809)