

Department of Physics

Student Centric Activities

2021-22

Sr. No.	Title	Date	Resource person	Beneficiary	Out comes
1	'World of Astronomy & Astrophysics'; A One day workshop under Lead College	30/03/2022	Dr. Dada Nade ; Sangli & Dr. AvirajJatratkar ; Solankur	40	Students get introduced to the world of astronomy and careers in astronomy
2	A lecture series on "Career in Physics"	28/03/2022	Dr. S.A. Kadam ; Taiwan Dr. C. H. Jadhav ; UK Dr. P. K. Pagare ; Satara	210 students were attended	Student gets idea to choose best career path
3	Physics Quiz Competition	April 2022	-	150 students participated	One of Innovative way to learn Physics
4	Student Projects based on Material Science Research	-	-	57 Students completed research projects	4 International Publication (Submitted) 7 Poster presentation Awards received
5	Inauguration of B.Sc. I (Material Science) course	17.12.2021		100 students participated	
6	Educational visit of B.Sc. I (Material Science) students to Engineering Institute (KBP College) Satara.	18.05.2022		21 students participated	
7	NET-SET Lecture series	-	Ms.S.G.Kolhe Mr.S.D.Jituri Mr.V.C.Pawar Mr.SurajPatil	21 students participated	Students came to know how to prepare for NET,SET,GATE exams
8	Poster Presentation Competition on Advanced and innovative materials	05.04.2022			
9	Research Guidance workshop	04/12/2021	Prin.Dr.L.D.Kadam	60 students	Students learnt about review paper reading

Yashavantrao Chavan Institute of Science, Satara**Department of Physics**

					and writing
10	Parents Meetings	Monthly	Class teachers	60 parents	Doubts of parents get solved through this meeting.
11	Poster presentation of B.Sc. II Astrophysics "Innovative concepts in astrophysics"	05.04.2022	Prin.Dr.B.T.Jadhav	11 students	Students get aware about the new concepts in astronomy and astrophysics
12	Workshop on "XRD, SEM, EDAX Instrumentation.	25/05/2022	Dr. Subash MarutiPandhakar Dr. S. H. Mujawar	-	
13	Guest Lecture on Innovations in Solar Energy for skill course	11.02.2022	Dr.N.L.Tarwal, Department of Physics, Shivaji University, Kolhapur		Students get learnt various ideas about Solar cell fabrication
14	Hands on Training on Solar Photovoltaic Systems	21.03.2022	Mr.Ajay Parte, Solac Green Energy	55	Students get aware about the new concepts in Solar Energy



Rayat Shikshan Sanstha's

Yashavantarao Chavan Institute of Science, Satara.
(Autonomous)



Department of Physics and Astrophysics

Organizes

One Day Workshop

On

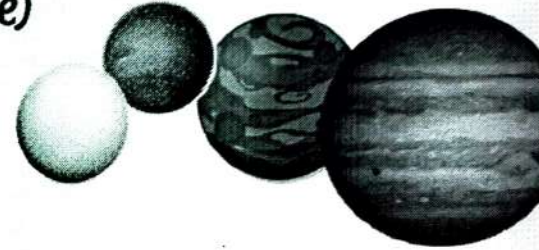


**Fundamentals of Astronomy And Astrophysics
(Journey of the Universe)**

Under
Lead College Activity

In Collaboration With
Institution's Innovation Council

Keynote Speakers



Dr. Aviraj A. Jatrakar

Assistant Professor,
Department of Physics,
S.Y.P Science College, Solankur.



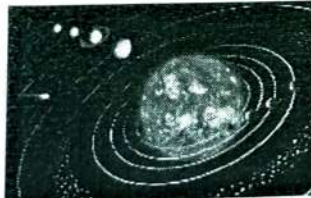
Dr. Dada Pandurang Nade

Head, Department of Physics
Bharati Vidyapeeth's Dr. Patangrao
Kadam Mahavidyalaya, Sangli

Date :- 30th March 2022

Time :- 11:00 am

Venue :- Physics Lab. (MO-15)



Mr. S. S. Patil
(Coordinator, Lead College)

Mr. S. R. Pol
(President IIC)

Mr. D.R. Mane
(Head Department of Physics)

Dr. B. T. Jadhav
(Principal, YCIS, Satara)



Rayat Shikshan Sanstha's
Yashwantrao Chavan Institute of Science, Satara (Autonomous)
Department of Physics
One Day Workshop on 'Fundamentals of Astronomy and Astrophysics'
Under Lead College Activity
Shivaji University, Kolhapur
On 30th March 2022
Programme Schedule

10.30am-10.40am	Introduction of Program & Welcome	Mr. S. S.Patil (Asst. Prof. YCIS, Satara)
	Gracious Presence	Prof. Dr. V. Y. Deshpande (Vice Principal, YCIS) Prof Dr. S.R. Bhongale (Head, Department of Physics) Dr. Shakil Shakh (Coordinator, Lead college, YCIS) Dr. Aviraj Jatratkar (SYP College, Solankur) Dr. Dada Nade (Dr.Patangrao Kadam Mahavidyalay, Sangli)
10.40am-10:55am	Inaugural Address	Prin.Dr. B. T. Jadhav (Principal, YCIS, Satara)
10.55am-11:00am	Vote of Thanks	Mr. S.D. Jituri (Asst. Prof. YCIS, Satara)
Session I		
Time	Title	Resource Person
	Introduction of Speaker	Mr. A. S. Chaudhari (Asst. Prof. YCIS, Satara)
11:00 am - 12.15 pm	World of Astronomy and Astrophysics	Dr. Aviraj A. Jatratkar Assistant Professor, Department of Physics, S.Y.P Science College, Solankur. (Founder Precedent Astronomical Society of Star Gazing and Instrumentation ASSI)
12.15 pm-12.20 pm	Vote of Thanks	Mr. A. S. Chaudhari (Asst. Prof. YCIS, Satara)
Session II		
	Introduction of Speaker and Vote of thanks	Dr. P. K. Pagare (Assist. Prof. Department of Physics, YCIS, Satara)
12:30pm-1.45pm	Astronomy, Astrophysics & Career	Dr. Dada Nade Head, Department of Physics Dr.Patangrao Kadam Mahavidyalay, Sangli
1:45pm-1.50pm	Vote of Thanks	Dr. P. K. Pagare (Asst. Prof. Department of Physics, YCIS, Satara)

Rayat Shikshan Sanstha's
Yashavantrao Chavan Institute of Science (Autonomous),
Satara

Department of Physics
and
Career Guidance, Training & Placement Cell
Jointly Organises



Lecture Series on **CAREER IN PHYSICS**

SPONSORED BY RUSA

1. Career Opportunities in Physics

Guest Speaker : Dr. P.K. Pagare
Assistant Professor
YCIS, Satara

2. Research Scholarships in overseas Countries

Guest Speaker : Mr. Sujit A. Kadam
Research Fellow
Dong Hwa, University, Hualien Taiwan.

3. Education & Research Opportunities in U.K.

Guest Speaker : Mr. Chandrakant H. Jadhav
Research Fellow
Aberdeen University, UK

Date : 28th , 29th , 31st March 2022

Timing ; 10:30 am to 12:00pm

Vanue : A1-8 Hall

Mr. S. S. Patil
Coordinator
Career Guidance & Placement Cell

Mr. D. R. Mane
Head,
Department of Physics

Prin. Dr. B. T. Jadhav
Principal
Yashavantrao Chavan Institute of Science,
Satara (Autonomous)

**Rayat Shikshan Sanstha's
Yashavantrao Chavan Institute of Science, Satara (Autonomous)
Department of Physics
Organizes**

Lecture Series on "Career in Physics"

**In Collaboration with Career Guidance, Training & Placement Cell
Sponsored by RUSA**

**Date : 28th, 29th, 31st March 2022
Timing ; 11:am to 12:00pm
Vanue : A1-8 Hall**

Inauguration

Introduction & Welcome : Mr. S. S. Patil

**Coordinator, Career Guidance, Training & Placement Cell
YCIS, Satara**

Key Note Address : Mr. D. R. Mane

Head Department of Physics, YCIS, Satara

Presidential Address : Hon. Prin. Dr. B. T. Jadhav

**Director, Yashavantrao Chavan Institute of Science,
Satara (Autonomous)**

Vote of Thanks : Mr. A. V. Ghorapade

Assistant Professor , Dept. of Physics, YCIS

Timing: 10:30am

Vanue: Hall No: A1-8



Rayat Shikshan Sanstha's



Yashavantrao Chavan Institute of Science, Satara (Autonomous College)

Established: 1965

DEPARTMENT OF PHYSICS

Organizes

PHYSICS QUIZ COMPETITION 2022

The Department of Physics & Astrophysics is organizing a quiz competition on the subject of Basic Physics. All the students of B.Sc. I / II / III Physics may register for this competition. The rules and regulations of this competition are as follows:

Rules for the Quiz:

- The Quiz has three levels.
- **Level-I** - 50 questions (100 Marks) provided via google form link. Once the link is shared 50 min. of time will be given. After that No more responses shall be recorded. On the basis of Merit of First level, 50% Students will be selected for second level.
- **Level II**- 25 questions (50 Marks) questions provided via google form link for 25 min. Respective Subject based questions will be asked for this level. On the basis of merit of second level, 10% students will be selected for third level.
- **Final Level III**- Last round will be conducted live at Physics Department and questions are purely based on respective subject general knowledge. It contains two rounds and 2 questions for each round will be asked to each student.
- Three winners will be declared at end of final round.
- Winners will get Certificate.

Registrations: -

- Registration Last date: 31st March 2022 up to 3:00 pm
- Registration Link: <https://forms.gle/SjZrwWtCa4msju69>
- Date of Quiz Competition: Will be declared soon.

Note: - Join the WhatsApp group after registration. Link to join group is provided with confirmation message after registration. For more information contact to respective class teachers.

Mr. S. S. Patil
Coordinator
Physics Quiz Competition.

Mr. D. R. Mane
Head
Department of Physics

Rayat Shikshan Sanstha's
Yashwantrao Chavan Institute of Science, Satara (Autonomous)
Department of Physics and Material Science

Report of Inauguration of B.Sc. I (Material Science) Course

Date: 23.05.2022

Yashwantrao Chavan Institute of Science (YCIS) (Autonomous), Satara has initiated Ph.D. B.Sc. I (Material Science) Course in the academic year 2021-22. The Inauguration Session was organized on 17th December, 2022 between 01.00 p.m. to 02.00 p.m. For the Inauguration Session we had Dr. B.T. Jadhav, Principal, YCIS, Satara as the chief guest. He delivered a presidential address and explained the importance of Material Science in 21st century. He also explained why this course has been started. The lecture was very beneficial for the students. Prof. Dr. S.R. Bhongale, Prof. Dr. A.P. Torane, Dr. S. H. Mujawar, Dr. Abhijit Arvind Pisal, and faculty members and more than 100 students of the college were present on this occasion.


Coordinator

Dept. of Material Science
YCIS (Autonomous)




Head,
Department of Physics,
Yashwantrao Chavan Institute of
Science, Satara
Dept. of Physics
YCIS (Autonomous)



Presidential address by Dr. B.T. Jadhav



Student delivering her views

**Rayat Shikshan Sanstha's
Yashwantrao Chavan institute of Science, Satara (Autonomous)
Department of Physics and Material Science**

Report of Educational Tour Report of B.Sc. I (Material Science) Course

Date: 23.05.2022

One day Educational trip was organized by Department of Material Science, Yashwantrao Chavan Institute of Science, (YCIS), (Autonomous), Satara on 18.05.2022 to visit a Material Testing Laboratory, Karmaveer Bhaurao Patil (KBP) College of Engineering, Satara. The tour comprised 21 students of B.Sc. I (Material Science) students accompanied by faculty members, Asst. Prof. Dr. Abhijit Pisal and Asst. Prof. G.Y. Chorge from Dept. Of Material Science. All the students were directed to gather at YCIS College Main gate at 01:30 p.m. We started our journey at 2 o'clock with Jeep and Indica car. We reached at 2:15 p.m. at the location. Mr. Nimbalkar from KBP college warmly welcomed all of us. Tea and snacks were served to all guests. After that all students along with faculty members were taken to the Material Testing lab, where the Izod impact test unit, Charpy impact test unit, Brinell hardness test unit, rockwell hardness test was installed. Mr. Nimbalkar carefully demonstrated the working of above mentioned test units. Also, he performed several experiment for students. After that, students also performed the same experiments. Through this, students learned the concept of impact, hardness etc. Then, we met Principal Dr. A. Attar in his office. We reached at 5:00 p.m. at the YCIS, along-with students.



Dr. A. P. Pisal
Coordinator

Dept. of Material Science
YCIS (Autonomous)



Dr. A. P. Pisal
Head
Department of Physics
Yashwantrao Chavan Institute of Science
Satara
Dept. of Physics
YCIS (Autonomous)

**Rayat Shikshan Sanstha's
Yashavantrao Chavan Institute of Science, (Autonomous) Satara.**

**Department of Physics
Parent Teacher Association
B.Sc. II; Div A; Parent Teacher Meeting**

Minutes of Parent-Teacher Meeting

The online Parent-Teacher Meeting was held on 16th February 2022 at 11:30 am. through video conferencing under the Chairmanship of Mr.S.S.Patil Class Teacher B.Sc.II Div-A Yashavantrao Chavan Institute of Science, (Autonomous) Satara. Following students parents attended the meeting through video conferencing.

The meeting started with the welcome of all Parents. Following resolutions were discussed in the meeting.

Motion No. 1 Formation of Parent –Teacher association.

Description: Mr.S.S.Patil explained information regarding parent teacher association and ask the parents to become a member in parent teacher association. After the discussion with parents, 2 parents Mr. Dattatray Ghadage, Mr. Santosh Dhotre have been selected as Parent Representative.

Discussion:- All parents unanimously discussed on parent teacher association with faculty members.

Vote:- All in Favor

Motion No. 3 Teaching activities conducted by department & college.

Description:Mr. V.C.Pawar, explained information regarding online teaching methods through Google Meet, Google classroom, Zoom meeting other related activities of department & College.

Discussion:-Teaching activities conducted by department & college discussed with parent & faculty members.

Vote:- All in Favor

Resolved:- Motion carried

Motion No. 4 Co-curricular activities

Description: Mr.S.D.Jituri, explained information regarding Co-curricular activities regarding B.Sc. II students (PBL / PD3P4)

Discussion:- All parents unanimously discussed on Co-curricular activities with faculty members.

Vote:- All in Favor

Resolved:- Motion carried

Description: Prof. V.C. Pawar, Assistant Professor, Physics, explained information regarding Use of e-library facility, Google classroom app, online Pdf books, etc. and college library facility regarding B.Sc. II students

Discussion:- All parents unanimously discussed on Use of e-library and other related queries with faculty members.

Vote:- All in Favor

Resolved:- Motion carried

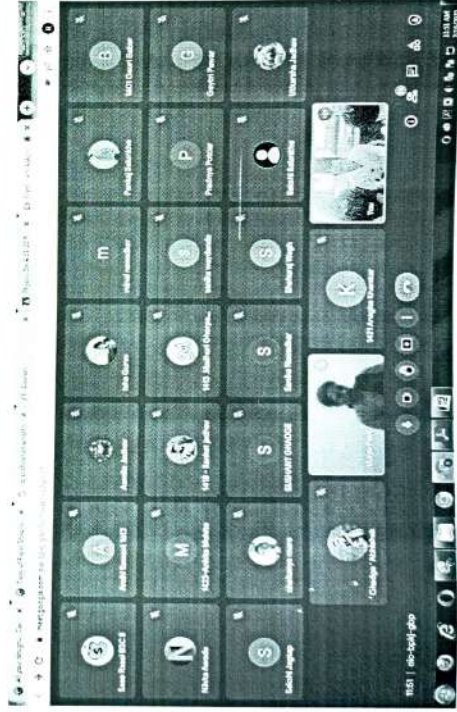

Mr. S. S. Patil

Teacher In charge B.Sc. II; Div A;



Selected Parent Representative for Parents-Teacher Association

Name of Parent	Gender	Mobile No.
Mr. Datatray Ghadage	Male	9823712310
Mr. Santosh Dhotre	Male	8421025174



The screen shot of parent teacher meeting



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Yashavantarao Chavan Institute of Science, Satara.
(Autonomous Institute)

Department of Physics



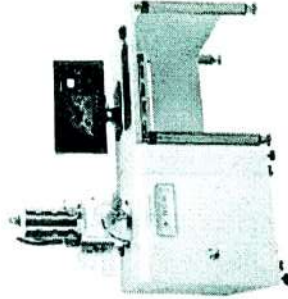
Organizes

**Principle and Instrumentation of XRD, SEM & EDAX
Techniques in material characterization**

2021-2022

In Collaboration With

Chandmal Tarachand Bora College, Shirur



Session: I

Dr. Subhash M. Pandharkar

X-ray diffraction (XRD)
Principle, Instrumentation and Application

Date :- 25/05/2022

Head

Department of Physics

Session: II

Dr. Sarfaraj H. Mujawar.

Research Opportunities In Physics

Time :- 11:00am

Principal

Yashavantarao Chavan Institute of
Science, Satara,
(Autonomous Institute)



Department of Physics and Astrophysics
In collaboration with
Institutional Innovational Council
Guest Lecture
On
"Innovations in Solar energy & Technologies"
For
Skill Courses Students (Physics)

Date: Friday, 11th February 2022

Time: 11:30 pm

Mode: Google Meet : <https://meet.google.com/bec-qzys-fbu>

REPORT

Resource Person: Dr. N. L. Tarwal

Assistant Professor, Dept. of Physics,

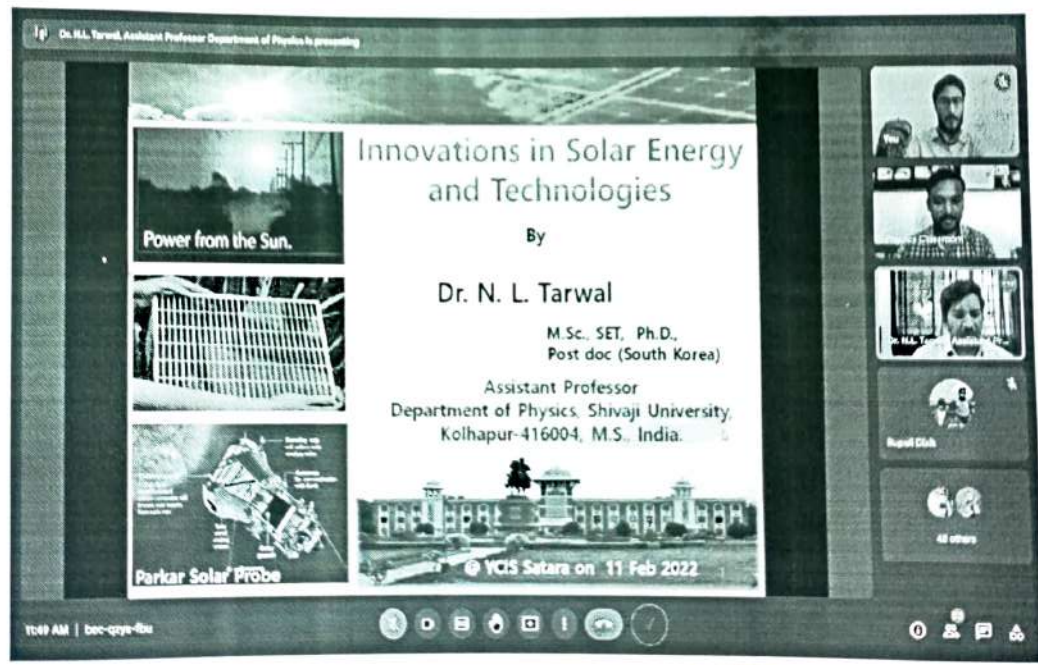
Shivaji University, Kolhapur

Number of Beneficiaries: 52

Dr. P. K. Pagare (Assistant Professor, Dept. of Physics) has welcomed and introduced resource person of guest lecture, Dr. N. L. Tarwal, Assistant Professor, Dept. of Physics, Shivaji University, Kolhapur. Excellent presentation about **Innovations in Solar energy & Technologies** was delivered by Dr. N. L. Tarwal. He was started with photovoltaic and photothermal application of solar energy. He highlighted annual global energy potential and statistics of solar energy. He explained various innovations, applications and medical uses of solar energy. He also touched upon future of photovoltaic system and technologies. He ended lecture with fundamental and fabrication solar cells. which type of green practices needed for the institute. All skill course students of Physics skill courses were beneficiaries of the guest lecture. There were 52 faculties participated in this lecture. Dr. S. R. Bhongale (dean, Skill and Diploma

Courses, YCIS, Satara) was the president of this function and gave presidential address of the program and told importance of innovation of solar energy and technologies. Mr. A. S. Chaudhari (Skill Course Co-Ordinator, Dept. of Physics, YCIS, Satara) offered vote of thanks for guest lecture.

Photos:



Dr. H.L. Tarewal, Assistant Professor Department of Physics is presenting

Solar Energy statistics

47% absorbed by atmosphere
 30% reflected back to space
 23% evaporates water
 1% drives waves and currents
 0.01% used in photosynthesis

Earth receives 47% solar energy

Sun's energy spectrum

47%
 X-ray UV Visible light Infrared radiation Micro-waves Radio waves

400 nm 100 nm 1 mm 1 m 1 km 100 km

Shortwave radiation Longwave radiation

The COMET Program

2% UV, 47% Vis, 51% IR light

SUSMANT GHADGE has left the meeting

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Dr. H.L. Tarewal, Assistant Professor Department of Physics is presenting

Our PEC results about ZnO Solar cel

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    graph TD
      A[Pure ZnO] --> B[Doping]
      B --> C[Ni, Co & Cu]
      B --> D[Ag & Au]
      C --> E[Enhancement of Vsc]
      D --> F[Enhancement of Isc]
      E --> G[Photoelectrochemical performance of ZnO thin films]
      F --> G
  
```

Pure ZnO

Doping

Ni, Co & Cu Ag & Au

Enhancement of V_{sc} Enhancement of I_{sc}

Photoelectrochemical performance of ZnO thin films

12:41 PM | bec-qyys-fbu

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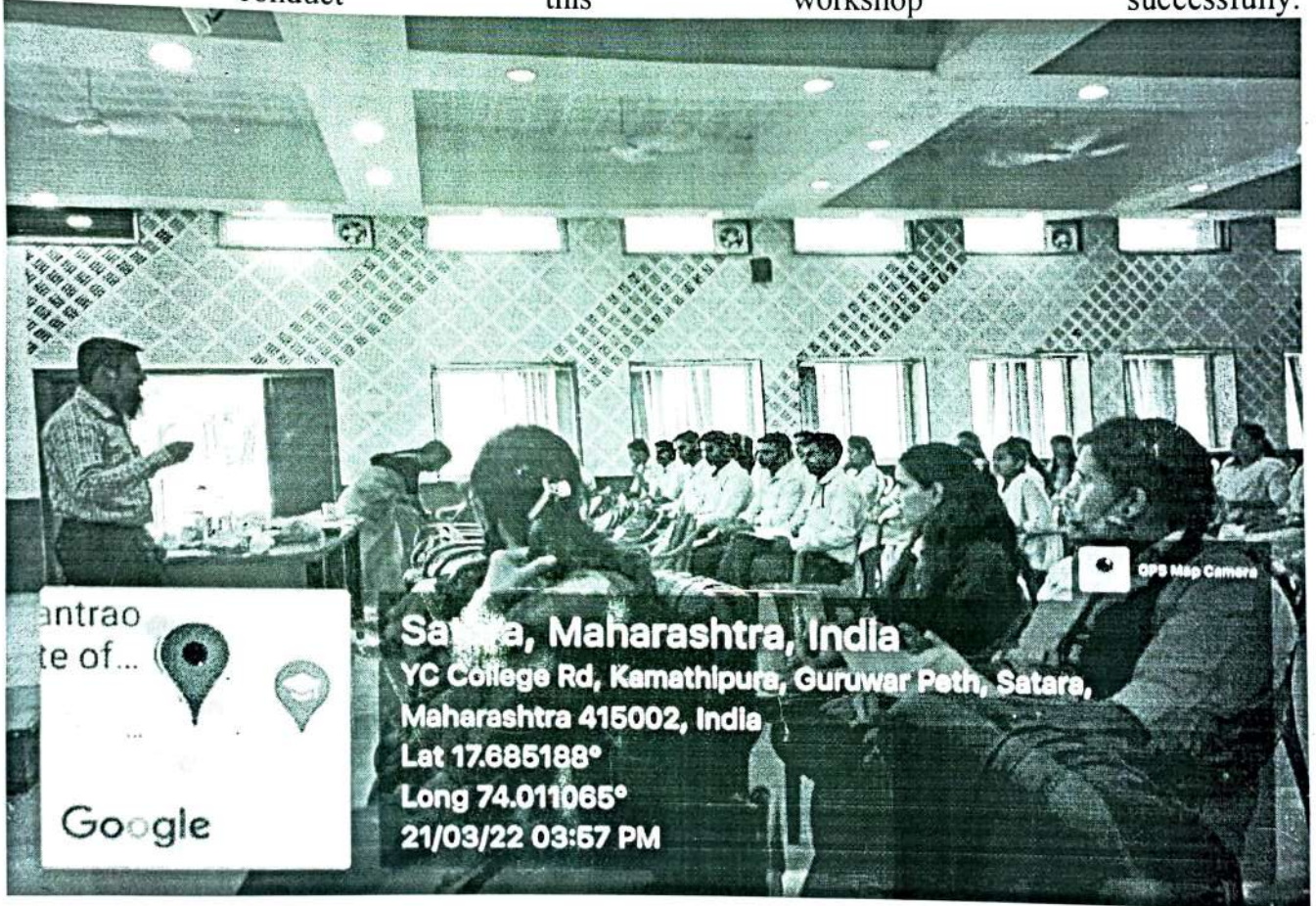
Department of Physics

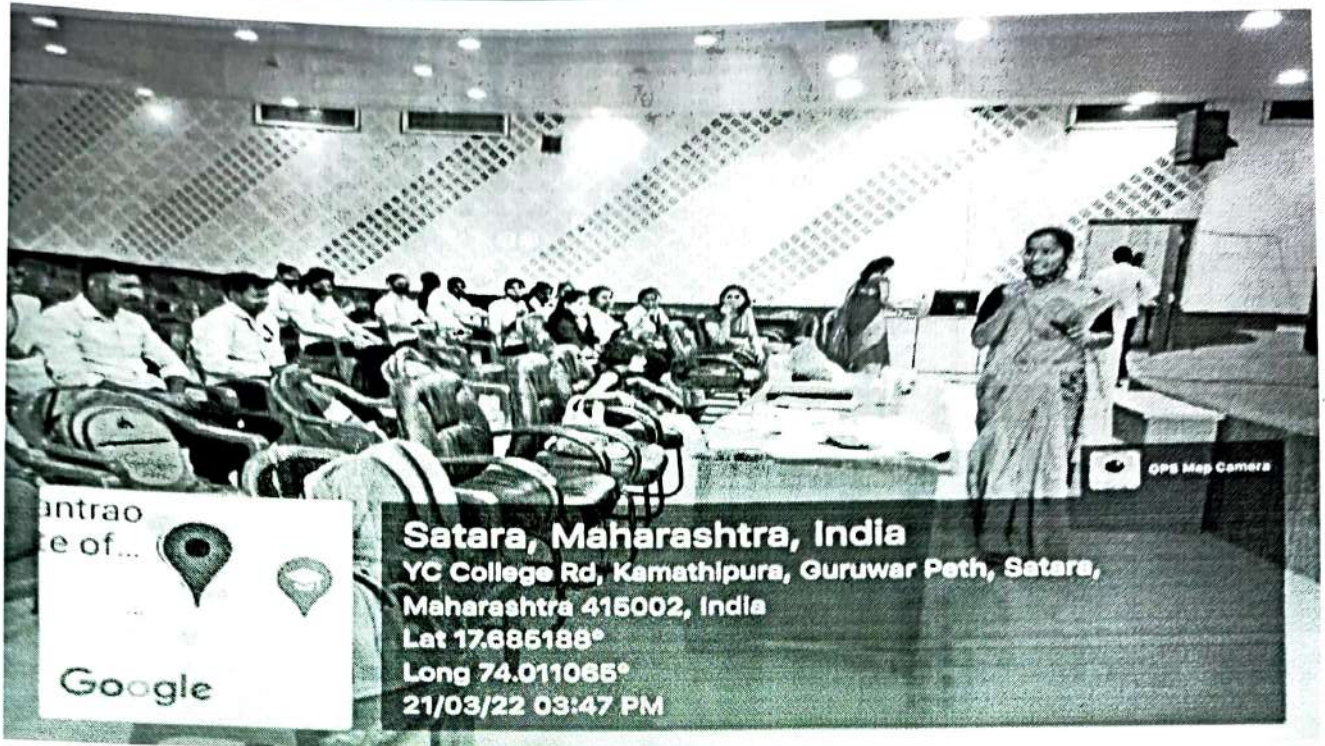
Organized one day workshop on

“Construction and Demonstration of Scientific Toys”

Under Best practice

Department of Physics organized a one day workshop on “Construction and Demonstration of Scientific Toys” under best practice “ Demonstration of physics law through scientific toys” on 19/03/2022 ,at 2.30 pm ,Venue:Karmaveer Auditorium ,Y.C.I.S.,Satara.Ms.Sayali Ghatake ,Assistant Prof Y.C.I.S.,Satara,worked as a resource person for this session.Prof.Dr.S.R.Bhongale was present as a chief guest for this session. Dr.S.H.Mujawar sir also guided student regarding best practice.Total 40 students participated in this workshop.This workshop were conducted under guidance of Hon.PrinDr.B.T.Jadhav saheb,H.O.D Mr.D.R.Mane ,Prof.Dr.S.R.Bhongale,Prof.Dr.A.P.Torane,Dr.S.H.Mujawar and best practice departmental coordinator Ms.S.G.Kolhe.All faculty member were present for this workshop and they supported to conduct this workshop successfully.





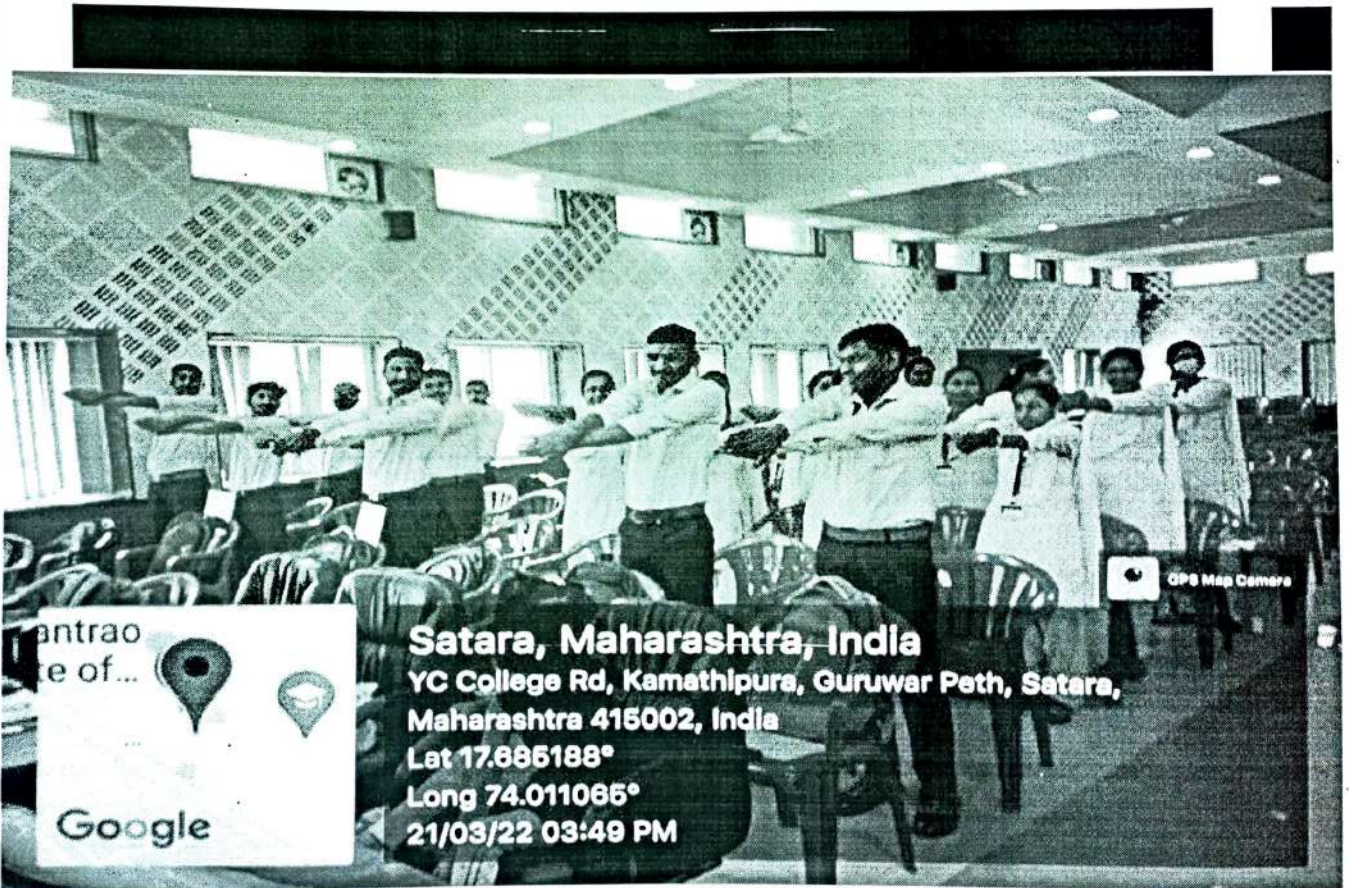
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GPS Map Camera



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