

# **Five Days Student Workshop**

**On**

**“Learning Physics Through Simulation and Experiments”  
(LPSE-2021)**

**December 06 – 10, 2021**

**Organized by**



**Swami Keshvanand Institute of Technology, Management &  
Gramothan, Jaipur**

**In association with**



**Indian Association of Physics Teachers (IAPT)**

# **Report of the Event**

## **Title of the activity:**

“Learning Physics Through Simulation and Experiments” (LPSE-2021)

## **Activity Details:**

### **Objectives of the Workshop:**

The aim of the workshop is to introduce the effectiveness of scientific measurement while developing a conceptual understanding of measurement and uncertainty, and provide a procedural toolbox for handling and analyzing data scientifically. The workshop will create practical skills as well as their views on applying the virtual experiments in a general physics lab also. The workshop will help the students to develop new understanding, improve the approaches in the laboratory and will sharpen their power of observations.

### **Program detail:**

The Department of Physics, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur organized a five days online Student Workshop on “Learning Physics Through Simulation and Experiments” during December 06 – 10, 2021 in association with Indian Association of Physics Teachers (IAPT) . This workshop was conducted on WebEx online platform.

This five-day student workshop comprised five thoughtful informative and interactive demonstrations delivered by the experts from the various reputed institutes. Many students from various universities and institutes from all over the country participated in this workshop.

The Workshop was inaugurated on December 06, 2021 by the Keynote Speaker Prof. (Dr.) Y.K. Vijay (Director, CIST, IIS University, Jaipur & President IAPT ), Prof. (Dr.) R.K. Jain Dean, SKIT , Prof. Rohit Mukherjee (In charge B.Tech. I year, SKIT), Prof. (Dr.) Brajraj Sharma (HOD Physics, SKIT), Prof. (Dr.) Rishi Vyas (Coordinator LPSE-2021) and other members of the department also graced the inaugural session of the programme. Prof. (Dr.) R. K. Jain welcomed the guests and participants of the Workshop. Prof. (Dr.) Y.K. Vijay motivated the students about the role of experiment in science and technology and introduced the innovation hub under IAPT

organization and invited all faculty and participants to join the innovation hub for their enhancement of practical skills. IAPT celebrates this year as a centenary year of Quantum Mechanics. The session was moderated by Dr. Komal Sharma (Associate Professor, Department of Physics, SKIT) and Prof. Brajraj Sharma extended vote of thanks to the keynote speaker and all participants.

In the first day interactive session, Prof. Y.K. Vijay explained the basic concept of fundamental forces and their effects with the online demonstration of various experimental setup eg. Principle of rocket and submarine, Frictionless Dynamics, Magnetic oscillator, structure of atom, atomic arrangement and their defects, Nature of charge, Vander waal potential, Bohr's Orbit, alpha decay model, Rutherford scattering and Molecule vibration of Methane and water.

In the second day interactive session, Prof. R. K. Khanna discussed the role of non-ionizing radiation such as microwave specially in mobile communication and explained the concept of electromagnetic pollution and their biological effects with some facts. In this session Prof. Khanna explained about ionising and non ionizing radiation and the effect of continuous exposure of non ionising radiation on DNA of human body.

In the third day interactive session, Dr. G S Menaria discussed and demonstrated the basic concept of physics with experiments specially on the topic optics and electromagnetism. He effectively demonstrated some hands-on experiment on electroscope, electromagnetic induction, eddy current, reflection, refraction, total internal reflection, centrifugal force, DC and AC generator.

In the fourth day interactive session, Prof, O.S.K.S. Sastri explained the role of simulation in experimental technique and demonstrated the method of computer simulation to study the experiments. They demonstrated the XCOS simulation software and explained the behavior of simple harmonic oscillator, damped oscillator and their frequency responses effectively.

In the fifth day interactive session, Dr. Syed Minhaz Hossain also explained the simulation tool to track the motion of particles. They demonstrated the use of TRACKER software to track the motion of simple pendulum as well as damped pendulum and show the various results with a lot of information about the pendulum. They also explain about the phase space trajectory of simple pendulum as well as damped pendulum.

In the valedictory session, Guest and keynote speaker Dr. Syed Minhaz Hossain (Associate Professor, IEST, Shibpur), Prof. B.R. Sharma (Head, Department of Physics), Prof. Rishi Vyas (Coordinator, LPSE-2021) and organizers of the event and participants were present. Dr. Syed

Minhaz Hossain congratulated the organizing team for successful conduction of this workshop. Prof. Rishi Vyas summarized all the activities conducted in the five days programme. Prof. B.R. Sharma proposed a vote of thanks to everyone involved in this workshop. Dr. Komal Sharma (Department of Physics) moderated this session. Dr. Vivek Vijay (Department of Mathematics) smoothly handled the technical part of the workshop effectively.

### **Outcome:**

All the sessions were very much informative. The discussed areas are of great benefit for the participants as they were enlightened with simulation and experimental approach in Physics with a lot of application in science and technology era.

**Type:** National

### **Resource persons:**

<b>S.N.</b>	<b>Name of Expert</b>	<b>Institution/Organization</b>
1.	Prof. Y.K. Vijay	Director, CIST, IIS University, Jaipur President, IAPT, RC-6
2.	Prof. R.K.Khanna	Former Dean VGU, Jaipur
3.	Mr.G.S.Menaria	Regional Coordinator ANVESHKA_IAPT
4.	Dr. O.S.K.S. Sastri	Head, Department of Physics, CU, Himachal Pradesh
5.	Dr. Syed Minhaz Hossain	Associate Professor, IEST, Shibpur



**Total Registration :** near about 600

**Total attendee:** 371

**From SKIT =** 68%

**Other than SKIT =** 32%

**From Engineering =** 75%

**From B.Sc. and Other Stream =** 25%

**Participation from all over country**

**Brief proceeding of the activity:**

Inauguration: 1.45 PM – 02.00 PM				(Moderator) Dr. Komal Sharma
Day & Date	Time	Experts	Topic	Moderator
Monday, 06-12-2021	2:00-3:00 PM	Prof. Y.K. Vijay	“Fundamental Forces and Their Effects”	Dr. Komal Sharma
Tuesday, 07-12-2021	2:00-3:00 PM	Prof. R.K.Khanna	“Electromagnetic Pollution and Biological Effects”	Dr. Manasavi Dixit
Wednesday, 08-12-2021	2:00-3:00 PM	Mr.G.S.Menaria	“Optics and Electromagnetism”	Dr. Manasavi Dixit
Thursday, 09-12-2021	2:00-3:00 PM	Dr. O.S.K.S. Sastri	“Model based simulations using XCOS”	Dr. Manasavi Dixit
Friday, 10-12-2021	2:00-3:00 PM	Dr. Syed Minhaz Hossain	“ Learning Physics through Tracking a Pendulum”	Dr. Komal Sharma

Valedictory	3:00 – 3:15 pm	(Moderator) Dr. Komal Sharma
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### **Attainment of the activity:**

The five days workshop provided a better insight to the students into the role of experimental physics in the development of science and technology. Work with simulation techniques in experimental physics plays a very important role in the study of experimental facts because of simulation analysis is very close to results of experiment. Areas covered in the workshop are very beneficial for students.

### **Recommendations:**

Such types of workshop must be conducted more frequently. These are very beneficial if conducted in offline mode.

### **Enclosures:**

- Approval Letter of the event
- Approval from joint organization by IAPT
- Brochure:
- Poster
- Invitation
- Minute to minute Schedule
- Detail of funding if any: NIL
- Souvenir: NIL
- Proceedings: NIL
- Media Coverage
- Photographs:
- List of Participants
- Copy of E-Certificate

- **Approval from joint organization by IAPT**

The screenshot shows a Gmail interface in a web browser. The browser's address bar displays the URL: `mail.google.com/mail/u/0/#inbox/FMfcgzGIIvHkwTKVMchHNjvvSWJdgTlg`. The Gmail header includes the search bar with the text "Search all conversations" and a status indicator showing "Active".

The email being viewed is titled "Document from Y K Vijay" and is marked as "External" and "Inbox". It is from "Prof. Y K Vijay" to the user. The email content reads:

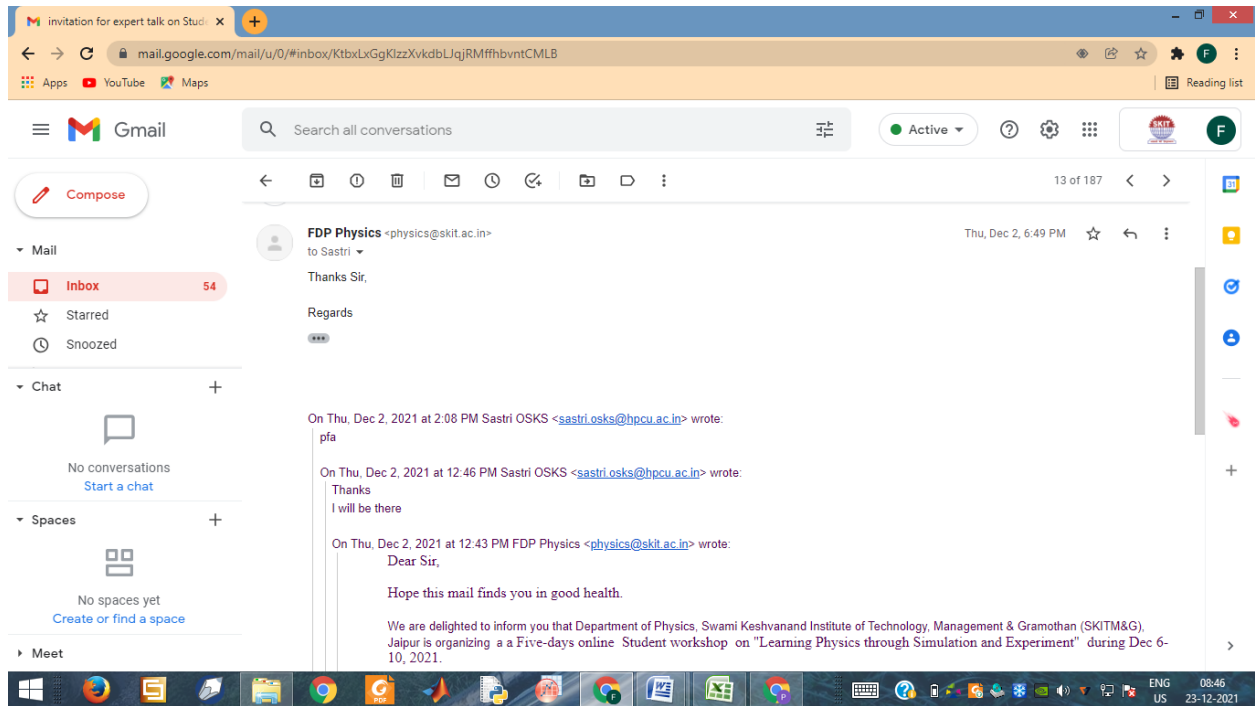
Dear Pawan Kumar,  
On behalf of IAPT Regional Council -6, I assure you that the workshop you have planed with other experts will be useful for all students and faculty.  
We shall share with all iapt members to take intrinst in it and participate.  
Best wishes,  
Yours sincerely,  
Y K Vijay

The email includes a PDF attachment titled "LPSE Poster.pdf". The thumbnail of the PDF shows a document from the "PUNJAB STATE INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, JALPURA" dated "15-12-2020". The document is titled "LEARNING PROCESS THROUGH INNOVATION AND ENTREPRENEURSHIP" and is a "PPT".

At the bottom of the email, there are three response buttons: "Thanks a lot for sharing.", "Thanks a lot.", and "Thanks for the mail."

The Windows taskbar at the bottom of the screen shows various application icons, including the Start menu, File Explorer, Google Chrome, and several PDF files. The system clock in the bottom right corner indicates the time is 08:45 on 23-12-2021, with the language set to English (US).





- **Brochure**

## WORKSHOP COMMITTEE

### PATRONS

Sh. Raja Ram Meel, Patron, SKIT  
Sh. Surja Ram Meel, Chairman, SKIT

### ADVISORS

Sh. Jaipal Meel, Director, SKIT  
Prof. (Dr.) S.L. Surana, Director (Academics), SKIT  
Prof. (Dr.) Ramesh Kumar Pachar, Principal, SKIT  
Mrs. Rachna Meel, Registrar, SKIT  
Mrs. Abba Meel, Advisor, SKIT  
Prof. (Dr.) R.K. Jain, Dean, SKIT  
Prof. (Dr.) Mukesh Arora, HOD-EC & Head OFA, SKIT  
Prof. (Dr.) Anil Choudhary, HOD-IT & IQAC Coordinator, SKIT  
Prof. (Dr.) Rohit Mukherjee, In-charge B.Tech. first year, SKIT  
Prof. (Dr.) B.R. Sharma, HOD (Physics), SKIT  
Prof. (Dr.) Mukesh Kumar Gupta, HOD-CS, SKIT  
Prof. (Dr.) Dheeraj Joshi, HOD-ME, SKIT  
Prof. (Dr.) D.K. Sharma, HOD-CE, SKIT  
Dr. Dhanraj Chitara, HOD-EE, SKIT  
Prof. (Dr.) Amber Srivastava, HOD (Maths), SKIT  
Dr. Sharda Soni, HOD (Chemistry), SKIT  
Prof. (Dr.) Neha Purohit, HOD (English), SKIT  
Prof. (Dr.) Ona Ladiwala, HOD (DMS), SKIT  
Prof. (Dr.) Sangeeta Vyas, Head Student Affairs, SKIT

### COORDINATORS

Prof. (Dr.) Rishi Vyas, Department of Physics, SKIT  
Mr. Rajiv Kumar, Department of Physics, SKIT  
Mr. Pawan Kumar Jain, Department of Physics, SKIT  
Mr. Ajay Kumar Sharma, Department of Physics, SKIT

### ORGANIZING COMMITTEE

Dr. Komal Sharma, Department of Physics  
Dr. Manasvi Dixit, Department of Physics  
Dr. Vijay Singhal, Department of Mathematics  
Dr. Nawal Kishor Jangid, Department of Mathematics  
Dr. Vivek Vijay, Department of Mathematics  
Dr. Swati Joshi, Department of Chemistry  
Dr. Sheeba Anjum, Department of English  
Mrs. Palika Jajoo, Department of CS

## REGISTRATION

To register in Workshop, use the weblink :

<https://forms.gle/V9nnEnfUmFYKEGie8>

or scan the QR code



### **Note:**

- Mode of Workshop is online and will be conducted on Cisco-Webex platform.
- After filling the registration form, please join the WhatsApp group to receive Workshop related information. Link to join WhatsApp group:

Link 1:

<https://chat.whatsapp.com/JJHwYqlzLmzDWHcfliHCE>

Link 2:

<https://chat.whatsapp.com/EZ2IKuxmRTQD84oEfjK8tA>

- E-Certificate will be issued to the participant who fulfill 80% attendance during the sessions and submit feedback afterwards.

## CONTACT PERSON

Mr. Pawan Kumar Jain (9828801324)

Email: [pawan@skit.ac.in](mailto:pawan@skit.ac.in)

Mr. Rajiv Kumar (7597049105)

Email: [rajivskit@skit.ac.in](mailto:rajivskit@skit.ac.in)

## Five days Student Workshop (Online)

on

## Learning Physics through Simulation and Experiments (LPSE) 06-10 December, 2021



Organised by



Department of Physics,  
Swami Keshvanand Institute of Technology,  
Management & Gramothan, Ramnagar, Jaipur-302017  
Web: [www.skit.ac.in](http://www.skit.ac.in)

In Association with



Indian Association of Physics Teachers (IAPT)

#### ABOUT SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) is Ranked No. 1 (five consecutive year) Engineering College in Rajasthan declared by Rajasthan Technical University (RTU), Kota. SKIT is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a premier centre of technical education not only in Rajasthan but also in northern India which has been realized through efficient and dedicated faculty members, innovative teaching learning methods, state of the art infrastructures and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

#### ABOUT IAPT

A voluntary organization of Physics teaching-learning (at all levels), Scientists, professionals and other interested in physics (Science) education in the country. Indian Association of Physics Teachers (IAPT) was established in 1984 by dedicated physics teachers and visionary (Late) Dr. D.P. Khandelwal with active support from likeminded members with the aim of upgrading quality of physics teaching at all levels in the country. Since then, it has grown into a major organisation with about 7000 members spread over throughout the country and abroad, besides annual members, student members and sustaining members. The Association operates through its 22 Regional Councils (RCs) grouped into 5 zones. There is a central Executive Council (EC), which coordinates all its activities.

#### DEPARTMENT OF PHYSICS

Department of Physics is an important science department dedicated to imparting quality physics education to students. The department of physics was started in the year 2000. The department has well qualified and experienced faculty members. The department also has two well established laboratories for B. Tech. I year students with sufficient and necessary instruments. The aim of the department is to provide high quality in-depth education of physics to all engineering graduates.

#### WORKSHOP OBJECTIVE

The aim of the workshop is to introduce the effectiveness of scientific measurement while developing a conceptual understanding of measurement and uncertainty, provide a procedural toolbox for handling and analyzing data scientifically. The workshop will create practical skills as well as their views on applying the virtual experiments in a general physics lab also. The workshop will help the students to develop new understanding, improve the approaches in the laboratory and will sharpen their power of observations.

#### TARGET AUDIENCE

This workshop will be very helpful for those students, who have just started their study at graduate level in science and engineering stream and they want to explore and correlate their theoretical knowledge with practical approach.

#### TENTATIVE TIME SCHEDULE OF WORKSHOP

##### Inaugural Session:

Monday, 06th December, 2021 at 1:45 to 2:00 PM

Invited Talk: 2:00-3:00 PM Daily

Day & Date	Speakers	Topic of Talk
<b>Monday, 06-12-2021</b>	Prof. Y.K. Vijay (Director, CIST, IIS University, Jaipur)	"Fundamental Forces and Their Effects"
<b>Tuesday, 07-12-2021</b>	Prof. R.K.Khanna (Former Dean VGU, Jaipur)	"Electromagnetic Pollution and Biological Effects"
<b>Wednesday, 08-12-2021</b>	Mr.G.S.Menaria (Regional Coordinator ANVESHKA_IAPT)	"Optics and Electromagnetism"
<b>Thursday, 09-12-2021</b>	Dr. O.S.K.S. Sastri (Head, Department of Physics, CU, Himachal Pradesh)	"Model based simulations using XCOS"
<b>Friday, 10-12-2021</b>	Dr. Syed Minhaz Hossain (Associate Professor, IEST, Shibpur)	" Learning Physics through Tracking a Pendulum"

#### REGISTRATION FEE

There is No Registration Fee.

## Poster





**SWAMI KESHVANAND INSTITUTE OF  
TECHNOLOGY, MANAGEMENT &  
GRAMOTHAN, JAIPUR**



**FIVE DAYS STUDENT WORKSHOP  
ON**

**LEARNING PHYSICS THROUGH SIMULATION AND  
EXPERIMENTS (LPSE)**

**06-10 DECEMBER, 2021**

**ORGANISED BY  
DEPARTMENT OF PHYSICS, SKIT, JAIPUR  
IN ASSOCIATION WITH  
INDIAN ASSOCIATION OF PHYSICS TEACHERS (IAPT)**

**EMINENT SPEAKERS**

**Day - 1**

**6 December, 2021 (1:30 PM - 3:00 PM)**



**Prof. Y.K. Vijay (Director, CIST, IIS University, Jaipur)**  
Topic: Fundamental Forces and Their Effects

**Day - 2**

**7 December, 2021 (2:00 PM - 3:00 PM)**



**Prof. R.K. Khanna (Former Dean VGU, Jaipur)**  
Topic: Electromagnetic Pollution and Biological Effects

**Day - 3**

**8 December, 2021 (2:00 PM - 3:00 PM)**



**Mr. G. S. Menaria (Regional Coordinator  
ANVESHKA\_IAPT)**  
Topic: Optics and Electromagnetism

**Day - 4**

**9 December, 2021 (2:00 PM - 3:00 PM)**



**Dr. O.S.K.S. Sastri (Head, Department of Physics, CU,  
Himachal Pradesh)**  
Topic: Model based simulations using XCOS

**Day - 5**

**10 December, 2021 (2:00 PM - 3:00 PM)**



**Dr. Syed Minhaz Hossain (Associate Professor, IEST, Shibpur)**  
Topic: Learning Physics through Tracking a Pendulum

**Registration link for Workshop & QR code:**

**<https://forms.gle/V9nnEnfUmfYKEGie8>**



# Invitation for Inaugural Ceremony



**Swami Keshvanand Institute of Technology,  
Management & Gramothan**



**Department of Physics, SKITM&G, Jaipur**

**In Association with**



**Indian Association of Physics Teachers (IAPT)**

**Organizes**

**Five days Student Workshop  
(Online)**

**on**

**Learning Physics through Simulation and Experiments (LPSE)  
(December 06-10, 2021)**

**Invitation for**

**INAUGURAL CEREMONY**

**06 December, 2021**

**Monday (1:45 PM Onwards)**

**Keynote Speaker**

**Prof. (Dr.) Y. K. Vijay,**

Director, CIST, The IIS University, Jaipur  
President of IAPT, RC-6, Rajasthan

**You are cordially invited to join the inaugural ceremony of the Workshop. Please grace the event by your benign presence. The link to join the inaugural session is provided below:**

<https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=ea85dd651d2ce08dc6f8e5a67d87a97fb>

(Password for Webex Meeting is “ 1234 ”)

## **Minute to minute Schedule**





## Swami Keshvanand Institute of Technology, Management & Gramothan



Department of Physics, SKITM&G, Jaipur

In Association with



Indian Association of Physics Teachers (IAPT)

Organizes

**Five days Student Workshop  
(Online)**

on

**Learning Physics through Simulation and Experiments (LPSE)  
(December 06, 2021, 1:45 onwards)**

**Inaugural Ceremony and day-1 programme**

**Minute to Minute Programme**

Event Description	Duration
Program Initiation By Dr. Komal Sharma Associate Prof. Department of Physics, SKIT, Jaipur	1:45PM-1:47PM
Welcome Note and About the SKIT by Prof. (Dr.) R.K. Jain, Dean, SKIT, Jaipur	1:47PM-1:50PM
Word of Motivation and about the IAPT by Prof. (Dr.) Y.K. Vijay, President of IAPT, RC-6, Rajasthan	1:50PM-1:55PM
About the Workshop by Prof. (Dr.) Rishi Vyas, Prof., Department of Physics, SKIT, Jaipur	1:55PM-2:00PM
Keynote Talk by Prof. (Dr.) Y.K. Vijay, Director, CIST, The IIS University, Jaipur President of IAPT, RC-6, Rajasthan	2:00PM-3:00PM
Vote of Thanks by Dr.B.R. Sharma, Head, Department of Physics, SKIT, Jaipur	3:00PM-3:05 PM
Group Photo	3:05 PM


# Photographs

Cisco Webex Events Event Info Hide Menu Bar

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Dr Vivek Vijay Host YK Vijay Dr. Komal Sharma Dr. R. K. Jain Pawan Jain AJAY KUMAR SHARMA

## Water Rocket



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Dr Vivek Vijay Host Dr. R. K. Jain Pawan Jain AJAY KUMAR SHARMA Dr. B.R. Sharma Dr. Rohit Mukherjee G S MENARIA Layout

Viewing YK Vijay's applicati...



The Central wire is Negative



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Pawan Jain Me Dr Vivek Vijay Host YK Vijay

Q & A

## Electrical Parameters

Capacitor  $dq = C dv$

Resistor  $dv = R di$

Memristor  $d\Phi = M dq$

Inductor  $d\Phi = L di$

Current  $i$

Flux  $\Phi$

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14:24 06-12-2021

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Pawan Jain Me Dr Vivek Vijay Host YK Vijay

Layout Q & A

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## Magnetic Oscillator

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14:35 06-12-2021



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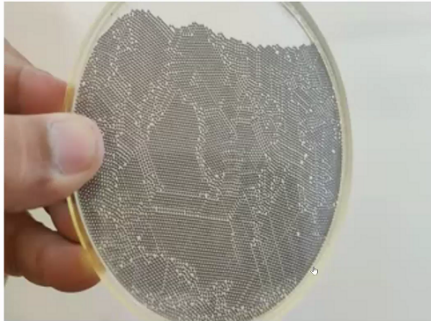
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Pawan Jain Me YK Vijay Dr Vivek Vijay Host

Layout Q & A

Viewing YK Vijay's application...

## Atomic arrangements and Defects



Arjun Bisht: inside of submarine have water if have then ehy?

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14:39 06-12-2021

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Pawan Jain Me YK Vijay Dr Vivek Vijay Host Dr. Komal Sharma

Q & A

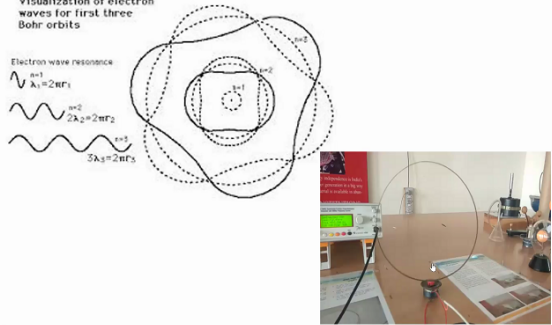
## Bohr Orbitals

Visualization of electron waves for first three Bohr orbits

Electron wave resonance

$$\lambda_1 = 2\pi r_1$$

$$2\lambda_2 = 2\pi r_2$$

$$3\lambda_3 = 2\pi r_3$$


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14:51 06-12-2021

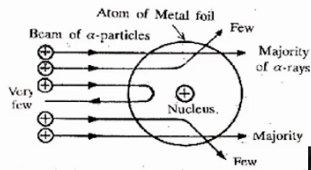
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Pawan Jain Me Dr Vivek Vijay Host Dr. Komal Sharma

Q & A

## Rutherford Scattering



Atom of Metal foil

Beam of  $\alpha$ -particles

Very few


Nucleus

Few

Majority of  $\alpha$ -rays

Majority

Few



Unmute Start video Share Participants Chat

Page: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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System Tray: ENG IN, 14:59, 06-12-2021

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Pawan Jain Me Dr Vivek Vijay Host Dr. Komal Sharma

Layout Q & A

Viewing YK Vijay's applicati...

## Innovation Hub

- We have developed several innovative Experiments and Concepts, which are useful to understand and develop further for educating the young Science and Engineering Students.
- These are : Demonstrative, Quantitative and Easy to Fabricate and Low Cost.
- Many such models can be developed to improve the SKILL of Making & Developing Innovative Ideas.

Unmute Start video Share Participants Chat

Page: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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System Tray: ENG IN, 15:00, 06-12-2021



## Day 2:

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R.K.Khanna pawan jain Dr Vivek Vijay Host AJAY KUMAR SHARMA Dr. Komal Sharma G S MENARIA Pawan Kulkarni

Layout

Viewing pawan jain's screen

### Microscopic approach

NON-IONIZING RADIATION IONIZING RADIATION

VLF 30kHz LF 300kHz RF mm 300GHz IR 1THz UV 10<sup>14</sup>Hz X-ray 10<sup>18</sup>Hz gamma-ray 10<sup>20</sup>Hz

We will consider two classifications of electromagnetic radiation separately because their effects on the human body are vastly different:

- Non-ionizing Radiation
  - Frequency range: 0.1 – 10<sup>13</sup> Hz
  - Designations: VLF, LF, RF, millimeter, submillimeter
  - Sources: Power lines, radio / TV broadcasting, radar, cellular phones
- Ionizing Radiation
  - Frequency range: > 10<sup>13</sup> Hz
  - Designations: IR, UV, X-rays, gamma rays
  - Sources: Optical communications, sunlight, cosmic radiation, medical applications

Activate Windows Go to Settings to activate Windows. Participants Chat

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AJAY KUMAR SHARMA R.K.Khanna pawan jain Dr Vivek Vijay Host Dr. Komal Sharma

Layout

Viewing pawan jain's screen

### Mobile phones link to cancer

Mobile phones link to cancer

Participants (118)

Search

AS AJAY KUMAR SHARMA DS Dr. B.R. Sharma DS Dr. Komal Sharma GM G S MENARIA PJ Pawan Kumar Jain R R.K.Khanna VV Y K Vijay

Attendee: 108 (0 displayed)

View all attendees...

Activate Windows Go to Settings to activate Windows. Participants Chat

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AJAY KUMAR SHARMA R.K.Khanna pawan jain Dr Vivek Vijay Host Dr. Komal Sharma G S MENARIA Pawan Kumar Jain Layout

Viewing pawan jain's screen

**MOBILE TELEPHONES KILLED MY HUSBAND**  
Widow plans to sue over tragedy

**MOBILE PHONES DAMAGE IMMUNE SYSTEM**  
Research prompts radiation scare

**Brains 'cooked' by cellphones**  
Cellphone firms face deluge of claims in health alert

Industry acknowledges health hazards

Unmute Stop video Share

Go to Settings to activate Windows. Participants Chat

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Day:3

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

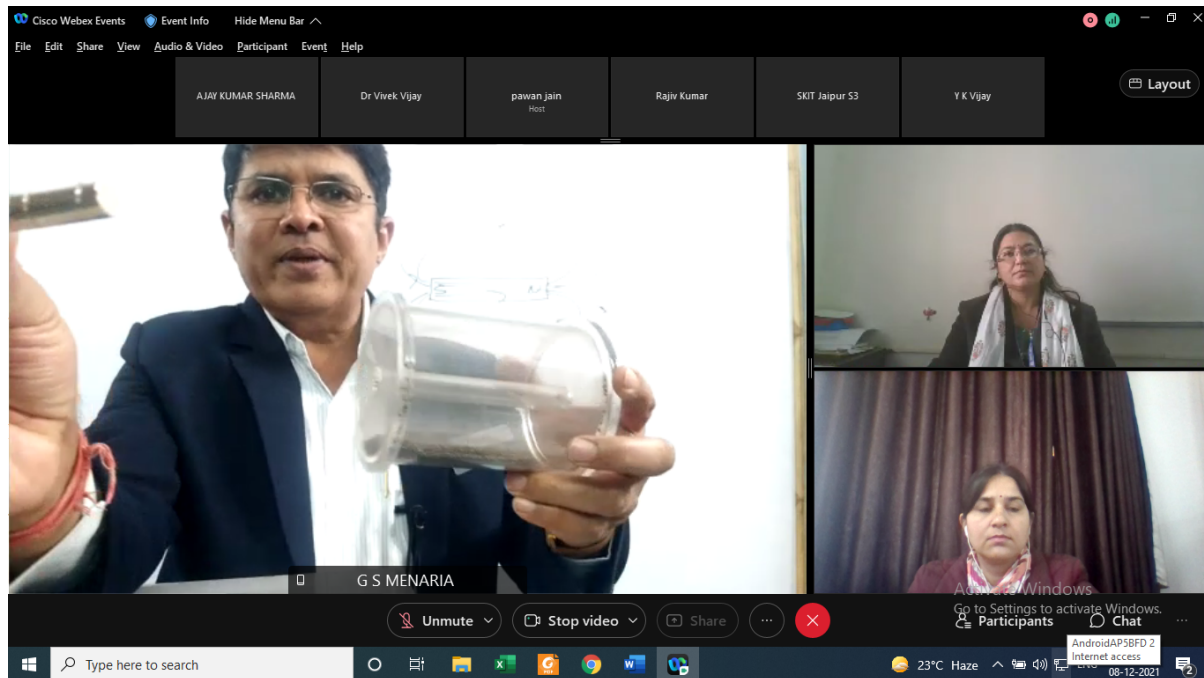
Dr. Vivek Vijay pawan jain Host Dr. B.R. Sharma AJAY KUMAR SHARMA Dr. Komal Sharma Rajiv Kumar Layout

G S MENARIA

Unmute Stop video Share

Activate Windows. Go to Settings to activate Windows. Participants Chat

Type here to search 23°C Haze 14:09 08-12-2021



Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Dr Vivek Vijay pawan jain Host AJAY KUMAR SHARMA Dr. Komal Sharma Rajiv Kumar SKIT Jaipur S3

G S MENARIA

Unmute Stop video Share

Activate Windows Go to Settings to activate Windows. Participants Chat

Type here to search 23°C Haze 14:34 08-12-2021

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

AJAY KUMAR SHARMA Dr Vivek Vijay pawan jain Host Dr. Komal Sharma Rajiv Kumar SKIT Jaipur S3

G S MENARIA

Unmute Stop video Share

Activate Windows Go to Settings to activate Windows. Participants Chat

Type here to search 23°C Haze 14:37 08-12-2021

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Dr Vivek Vijay pawan jain Host AJAY KUMAR SHARMA Rajiv Kumar Layout

G S MENARIA

Unmute Stop video Share

Activate Windows  
Go to Settings to activate Windows.

Participants Chat

Type here to search 23°C Haze 14:49 08-12-2021

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

pawan jain Host Dr Vivek Vijay Rajiv Kumar Layout

G S MENARIA

Unmute Stop video Share

Activate Windows  
Go to Settings to activate Windows.

Participants Chat

Type here to search 23°C Haze 15:07 08-12-2021

E-015 Diwakar Kothari: sir your voice is low ...please speak a little bit louder



## Day 4:

Cisco Webex Events Event Info Hide Menu Bar

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G S MENARIA pawan jain Pawan Kumar Jain

Layout

Viewing o s k s sastr's appl...

My Notebook

Quick Notes New Section 1 New Section 2 New Section 3 New Section 4

Search (Ctrl-F)

Add Page

Ph L Colorado

Handwritten notes and diagrams:

$$\ddot{x} = \frac{d^2x}{dt^2} = -\frac{a_1}{a_0}\dot{x} - \frac{a_2}{a_0}x + \frac{1}{a_0}f(t, x)$$

Block diagram showing a feedback control system with integrators and gain blocks.

Participants:

- o s k s sastr

Activate Windows Go to Settings to activate Windows. Participants Chat

Type here to search

22°C Haze 14:26 09-12-2021

Cisco Webex Events Event Info Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

o s k s sastr AJAY KUMAR SHARMA pawan jain Dr Vivek Vijay Host Dr. B.R. Sharma Dr. Komal Sharma

Layout

Viewing o s k s sastr's scre...

My Notebook

Quick Notes New Section 1 New Section 2 New Section 3 New Section 4

Search (Ctrl-F)

Add Page

Ph L Colorado

Handwritten notes and diagrams:

$$\ddot{x} = -2\mu\dot{x} - \omega^2x + F_0\sin(\omega t)$$

Block diagram showing a control system with a feedback loop and a disturbance input.

Participants:

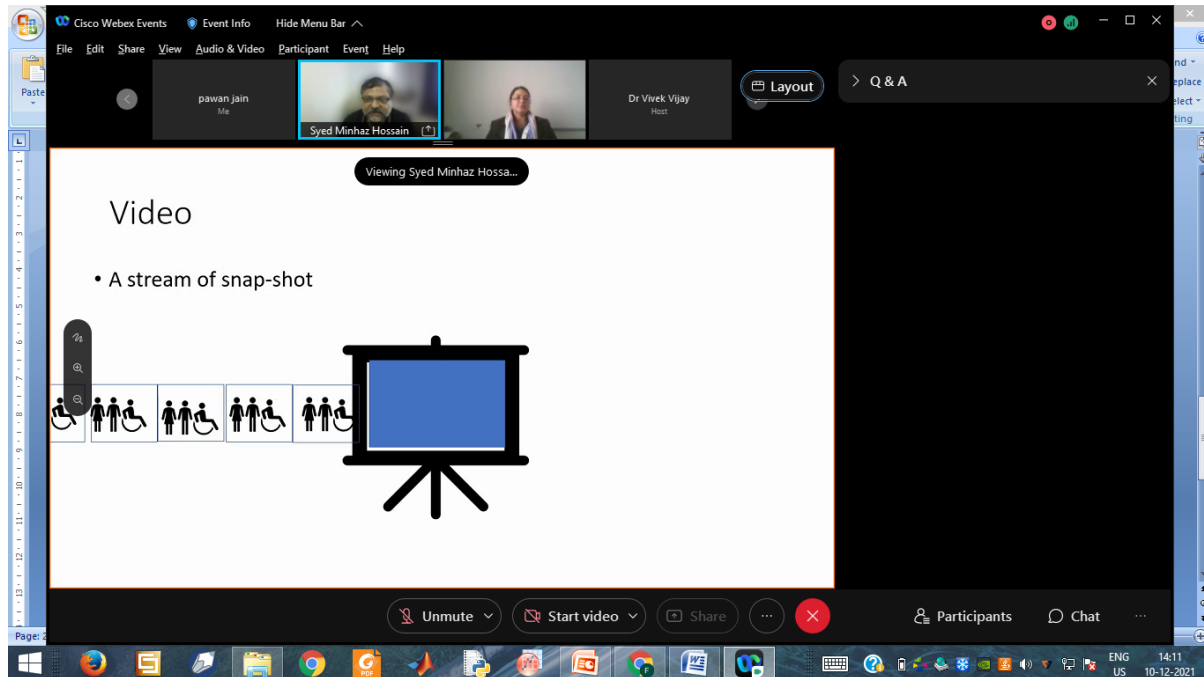
- o s k s sastr

Activate Windows Go to Settings to activate Windows. Participants Chat

Type here to search

23°C Haze 14:53 09-12-2021

## Day: 5



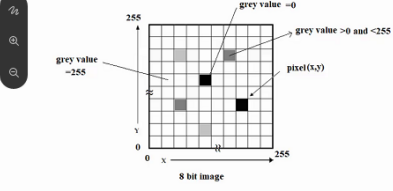
Cisco Webex Events | Event Info | Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Speaking: Syed Minhaz Hossain | Viewing Syed Minhaz Hossain

## Snapshot

- Digital Image (BW)



First Digital Image created by Russell Kirsch-1951

Dr Vivek Vijay (Host)

AJAY KUMAR SHARMA

rajiv kumar

Rishi Vyas

Unmute | Start video | Share | Participants | Chat


ENG US 14:12 10-12-2021

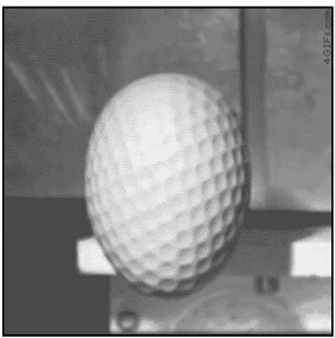
Cisco Webex Events | Event Info | Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

pawan jain (Me) | Syed Minhaz Hossain | Dr Vivek Vijay (Host)

## Video speed

- Commonly used: 30 FPS 
- 60 FPS → Rs 10,000/-
- 1000 FPS → < Rs 400,000/-



Unmute | Start video | Share | Participants | Chat

ENG US 14:17 10-12-2021



Cisco Webex Events | Event Info | Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Layout > Q & A

Participants: pawan Jain, Syed Minhaz Hossain, Dr Vivek Vijay

Viewing Syed Minhaz Hossain...

Tracker

mass A: m = 1.000 kg

Plot: mass A

mass A (t, x)

Table: mass A

t (s)	x (cm)	y (cm)
4.987	4.308	2.270
5.000	6.245	2.398
5.033	8.062	2.433
5.067	6.423	2.458
5.100	6.343	2.481
5.133	7.420	2.520
5.167	7.825	2.547
5.200	8.166	2.575
5.233	8.434	2.596
5.267	8.142	2.618
5.300	8.772	2.629
5.333	8.820	2.632
5.367	8.821	2.630
5.400	8.734	2.628
5.433	8.571	2.622
5.467	8.343	2.620
5.500	8.234	2.598
5.533	7.825	2.581
5.567	7.287	2.563
5.600	6.765	2.543
5.633	6.242	2.521
5.667	5.820	2.500
5.700	5.293	2.487
5.733	4.412	2.466
5.767	3.746	

Unmute Start video Share Participants Chat

ENG US 14:35 10-12-2021

Cisco Webex Events | Event Info | Hide Menu Bar

File Edit Share View Audio & Video Participant Event Help

Layout > Q & A

Speaking: Syed Minhaz Hossain

Participants: AJAY KUMAR SHARMA, G S MENARIA, Rishi Vyas

Viewing Syed Minhaz Hossain...

Tracker

mass A: m = 1.000 kg

Plot: mass A

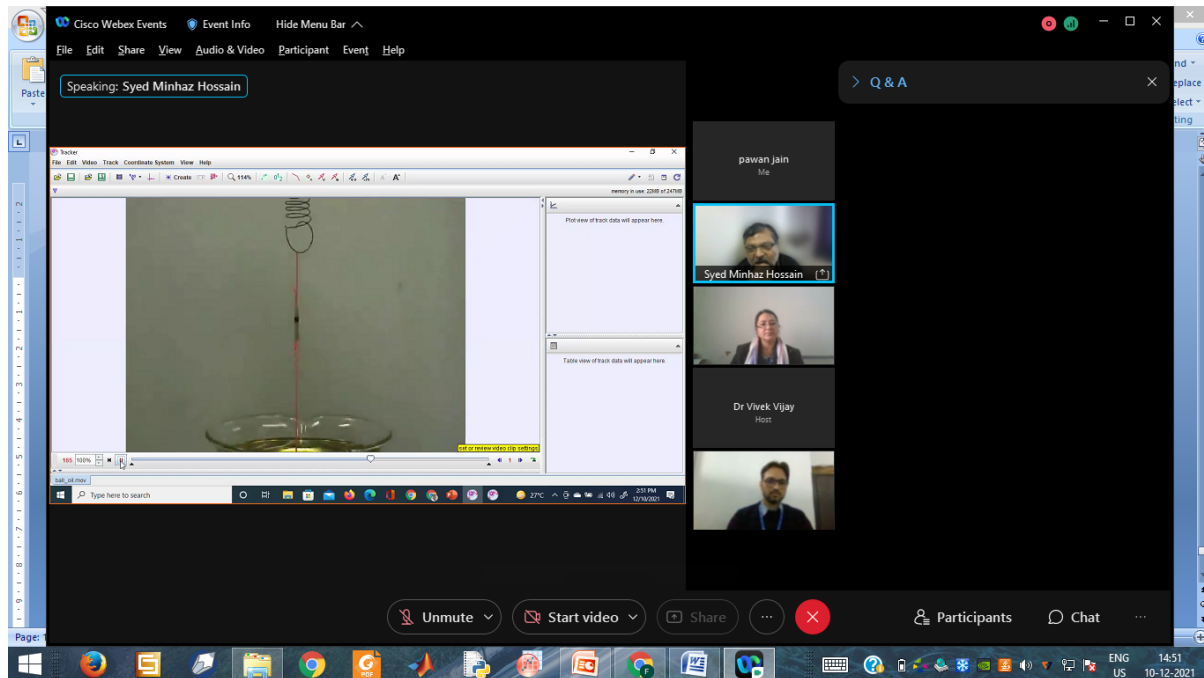
mass A (x, y)

Table: mass A

t (s)	x (cm)	y (cm)
5.300	8.772	2.629
5.333	8.832	2.632
5.367	8.821	2.630
5.400	8.734	2.628
5.433	8.571	2.622
5.467	8.343	2.620
5.500	8.234	2.598
5.533	7.825	2.581
5.567	7.287	2.563
5.600	6.765	2.543
5.633	6.242	2.521
5.667	5.820	2.500
5.700	5.293	2.487
5.733	4.412	2.466
5.767	3.746	

Unmute Start video Share Participants Chat

ENG US 14:39 10-12-2021



News

# एस. के. आई. टी. में पांच दिवसीय स्टूडेंट वर्कशॉप का शुभारम्भ



## खबरों की दुनिया

**जयपुर।** जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में सोमवार दिनांक 6 दिसम्बर 2021 को भौतिकी विभाग के द्वारा ऑनलाइन प्लेटफॉर्म पर, 'लर्निंग फिजिक्स थ्रू सिमुलेशन एंड एक्सपेरिमेंट' विषय पर पांच दिवसीय स्टूडेंट वर्कशॉप का शुभारम्भ हुआ। मुख्य वक्ता के रूप में प्रोफेसर (डॉ.) वाई. के. विजय (निदेशक, सी आई एस टी, दी आई आई एस यूनिवर्सिटी, जयपुर) ने रदरफोर्ड मॉडल, बोर मॉडल, अल्फा क्षय, चुम्बकीय दोलन

आदि की उपयोगिता के बारे में बताया। इस अवसर पर कॉलेज के डीन प्रोफेसर (डॉ.) आर. के. जैन ने मुख्य वक्ता तथा अन्य प्रतिभागियों का स्वागत किया। कार्यक्रम के को ऑर्डिनेटर प्रोफेसर (डॉ.) ऋषि व्यास ने इस प्रोग्राम में आने वाले वक्ताओं तथा होने वाले विभिन्न सत्रों का संक्षिप्त विवरण प्रस्तुत किया। प्रोफेसर (डॉ.) ब्रजराज शर्मा, विभागाध्यक्ष, भौतिकी विभाग ने धन्यवाद ज्ञापित किया।

इस कार्यक्रम का संचालन एसोसिएट प्रोफेसर डॉ. कोमल शर्मा, डॉ. मनस्वी दीक्षित, पवन जैन तथा डॉ. विवेक विजय ने किया।

# एस. के. आई. टी. में पांच दिवसीय स्टूडेंट वर्कशॉप का शुभारम्भ



## खबरों की दुनिया

जयपुर। जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में सोमवार दिनांक 6 दिसम्बर 2021 को भौतिकी विभाग के द्वारा ऑनलाइन प्लेटफॉर्म पर, 'लर्निंग फिजिक्स थ्रू सिमुलेशन एंड एक्सपेरिमेंट' विषय पर पांच दिवसीय स्टूडेंट वर्कशॉप का शुभारम्भ हुआ। मुख्य वक्ता के रूप में प्रोफेसर (डॉ.) वाई. के. विजय (निदेशक, सी आई एस टी, दी आई आई एस यूनिवर्सिटी, जयपुर) ने रदरफोर्ड मॉडल , बोर् मॉडल , अल्फा क्षय , चुम्बकीय दोलन

आदि की उपयोगिता के बारे में बताया । इस अवसर पर कॉलेज के डीन प्रोफेसर (डॉ.) आर. के. जैन ने मुख्य वक्ता तथा अन्य प्रतिभागियों का स्वागत किया। कार्यक्रम के को ऑर्डिनेटर प्रोफेसर (डॉ.) ऋषि व्यास ने इस प्रोग्राम में आने वाले वक्ताओं तथा होने वाले विभिन्न सत्रों का संक्षिप्त विवरण प्रस्तुत किया। प्रोफेसर (डॉ.) ब्रजराज शर्मा, विभागाध्यक्ष, भौतिकी विभाग ने धन्यवाद ज्ञापित किया।

इस कार्यक्रम का संचालन एसोसिएट प्रोफेसर डॉ. कोमल शर्मा, डॉ. मनस्वी दीक्षित, पवन जैन तथा डॉ. विवेक विजय ने किया।



## एस. के. आई. टी. में पांच दिवसीय स्टूडेंट वर्कशॉप का शुभारम्भ



### महानगर टाइम्स/जयपुर

जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में सोमवार को भौतिकी विभाग के द्वारा ऑनलाइन प्लेटफॉर्म पर, 'लर्निंग फिजिक्स थ्रू सिमुलेशन एंड एक्सपेरिमेंट' विषय पर पांच दिवसीय स्टूडेंट वर्कशॉप का शुभारम्भ हुआ। मुख्य वक्ता के रूप में प्रोफेसर डॉ.वाई. के. विजय निदेशक, सी आई एस टी, दी आई आई एस यूनिवर्सिटी, जयपुर) ने रदरफोर्ड मॉडल , बोर मॉडल , अल्फा क्षय, चुम्बकीय दोलित्र आदि की उपयोगिता के बारे में बताया।

इस अवसर पर कॉलेज के डीन प्रोफेसर डॉ. आर. के. जैन ने मुख्य वक्ता तथा अन्य प्रतिभागियों का स्वागत किया। कार्यक्रम के कोऑर्डिनेटर प्रोफेसर डॉ. रिशी व्यास ने इस प्रोग्राम में आने वाले वक्ताओं तथा होने वाले विभिन्न सत्रों का संक्षिप्त विवरण प्रस्तुत किया। प्रोफेसर डॉ. ब्रजराज शर्मा, विभागाध्यक्ष, भौतिकी विभाग ने धन्यवाद ज्ञापित किया। इस कार्यक्रम का संचालन एसोसिएट प्रोफेसर डॉ.कोमल शर्मा, डॉ. मनस्वी दीक्षित, पवन जैन तथा डॉ. विवेक विजय ने किया।

## Student Workshop inaugurated

CITY FIRST

A five-day student workshop on the topic 'Learning Physics through Simulation and Experiments' was started at Swami Kesavanand Institute of Technology Management and Gramothan, Jagatpura, by the Department of Physics in association with IAPT on Monday. On this occasion the keynote speaker Professor (Dr) Y K Vijay (Director, CIST, The IIS University, Jaipur) ex-



plained the usefulness of the Rutherford model, Bohr model, alpha decay, magnetic oscillator, etc. Professor (Dr) Rishi Vyas, the coordinator of the program, presented a brief descrip-

tion of the speakers. Prof (Dr) Brajraj Sharma, expressed a vote of thanks. The program was conducted by Dr Komal Sharma, Dr Manasvi Dixit, Pawan Jain and Dr Vivek Vijay.



## एस. के. आई. टी. में पांच दिवसीय स्टूडेंट वर्कशॉप का समापन

P3 Police Public Politics

जयपुर ! जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में भौतिकी विभाग के द्वारा ऑनलाइन प्लेटफॉर्म पर, 'लर्निंग फिजिक्स थ्रू सिमुलेशन एंड एक्सपेरिमेंट' विषय पर पांच दिवसीय स्टूडेंट वर्कशॉप का शुक्रवार दिनांक 10 दिसम्बर 2021 को समापन हुआ। इस वर्कशॉप के विभिन्न सत्रों में मुख्य वक्ता के रूप में प्रोफेसर (डॉ.) वाई. के. विजय, प्रोफेसर (डॉ.) आर. के. खन्ना, डॉ. जी. एस. मेनारिया, प्रोफेसर (डॉ.) ओ. एस. के. एस. शास्त्री तथा डॉ. सैयद मिनहाज हुसैन ने अपने व्याख्यान से

प्रतिभागियों को लाभान्वित किया। इस कार्यक्रम के कोऑर्डिनेटर प्रोफेसर (डॉ.) रीशी व्यास ने इस प्रोग्राम का संक्षिप्त विवरण प्रस्तुत किया। इस प्रोफेसर (डॉ.) ब्रजराज शर्मा, विभागाध्यक्ष, भौतिकी विभाग ने स्टूडेंट वर्कशॉप का महत्त्व बताते हुए इसके सफल आयोजन के लिए समस्त आमंत्रित वक्ताओं तथा आयोजकों को धन्यवाद दिया। इस कार्यक्रम का संचालन एसोसिएट प्रोफेसर डॉ. कोमल शर्मा, डॉ. मनस्वी दीक्षित, पवन जैन, राजीव कुमार तथा डॉ. विवेक विजय ने किया। इस स्टूडेंट वर्कशॉप में 200 से अधिक प्रतिभागियों ने भाग लिया।

## पांच दिवसीय स्टूडेंट वर्कशॉप संपन्न



### खबरों की दुनिया

जयपुर। जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टेक्नोलॉजी में भौतिकी विभाग के द्वारा ऑनलाइन प्लेटफॉर्म पर, 'लर्निंग फिजिक्स थ्रू सिमुलेशन एंड एक्सपेरिमेंट' विषय पर पांच दिवसीय स्टूडेंट वर्कशॉप का शुक्रवार को समापन हुआ। इस वर्कशॉप के विभिन्न सत्रों में मुख्य वक्ता के रूप में प्रोफेसर वाईके विजय, प्रोफेसर आरके खन्ना, डॉ. जीएस मेनारिया, प्रोफेसर ओएसकेएस शास्त्री तथा डॉ. सैयद मिनहाज हुस्सैन ने अपने व्याख्यान

से प्रतिभागियों को लाभान्वित किया। कार्यक्रम के कोऑर्डिनेटर प्रोफेसर ऋषि व्यास ने इस प्रोग्राम की ब्रीफिंग की। फिजिक्स डिपार्टमेंट के एचओडी प्रोफेसर ब्रजराज शर्मा ने स्टूडेंट वर्कशॉप का महत्व बताते हुए इसके सफल आयोजन के लिए समस्त आमंत्रित वक्ताओं तथा आयोजकों को धन्यवाद दिया। कार्यक्रम का संचालन एसोसिएट प्रोफेसर डॉ. कोमल शर्मा, डॉ. मनस्वी दीक्षित, पवन जैन, राजीव कुमार तथा डॉ. विवेक विजय ने किया। इस स्टूडेंट वर्कशॉप में 200 से अधिक प्रतिभागियों ने भाग लिया।

## List of Participants

Name of the Participant	Name of Course	Name of Institution	Email
AADITYA KAUSHIK	B.Tech.	SKIT, M & G, Jaipur	aadityakaushik834@gmail.com
AADITYA SHAH	B.Tech.	SKIT, M & G, Jaipur	aadityashah654@gmail.com
AADITYA SHARMA	B.Tech.	SKIT, M & G, Jaipur	asjp2021@yahoo.com
AAKASH GUPTA	B.Tech.	SKIT, M & G, Jaipur	aakashgupta2003@gmail.com
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