Workshop on Virtual Labs: "Discover Physics Experiments"
Organized by Department of Physics, Christ Church College, Kanpur in collaboration with IIT Kanpur
Date: 18th September 2025 | Venue: Christ Church College, Kanpur

The Department of Physics, Christ Church College, Kanpur, in collaboration with IIT Kanpur, successfully organized a one-day workshop titled "Workshop on Virtual Labs" with the theme "Discover Physics Experiments" on 18th September 2025 at the college campus. The workshop aimed to introduce students and faculty to the innovative world of Virtual Labs, enabling enhanced learning and experimentation in Physics through digital platforms. The initiative is a part of the **National Mission on Education through Information and Communication Technology (NMEICT) by the Ministry of Education, Government of India**. It has been highly beneficial for colleges nationwide, providing students with a flexible and interactive medium to enhance their technical skills.

Objectives of the Workshop

- To create awareness about the significance of Virtual Labs in science education.
- To provide hands-on experience of performing experiments in a virtual environment.
- To demonstrate how Virtual Labs can complement traditional laboratories.
- To prepare students for future-ready learning, research, and innovation.

This one-day workshop is divided into three sessions-

(i) Inaugural Session:

The program began with a formal **Welcome address** by **Dr. Satya Prakash Singh**, ***Convener*** and ***Incharge, Department of Physics***, who highlighted the significance of embracing innovative student-centric teaching and learning methodologies in science education. **Dr. Ashutosh Kumar**, ***Coordinator*** of the event, presented the structure and purpose of the workshop. Dr. Kumar also emphasized the long-standing academic ties between Christ Church College and IIT Kanpur, and how such collaborative ventures serve as catalysts for educational innovation. **Mr. Pradeep Patel** from **IIT Kanpur** emphasized the institute's key role in promoting science education through the Virtual Labs initiative, enabling remote access to interactive experiments. He explained the Virtual Labs' basic architecture and highlighted the establishment of nodal and regional centres to enhance collaboration, training, and nationwide outreach. The ***Presidential Address*** was delivered by **Professor Vinay John Sebastian**, Principal of Christ Church College, Kanpur. In his remarks, Professor Sebastian emphasized the importance of integrating modern technology into traditional science education and praised the collaborative efforts between the institution and IIT Kanpur in making this initiative possible. He also stressed on the relevance of Virtual Labs in the current academic landscape and urged students to make the most of this opportunity to engage with emerging tools in scientific education.

(ii) Interactive Session:

The workshop included an engaging session led by **Professor Aparna Dixit**, **PSIT Kanpur**, ***Resource Person*** and ***Regional Coordinator of the Virtual Lab*** initiative at IIT Kanpur. She demonstrated a variety of physics experiments using the Virtual Labs platform, **covering topics from mechanics to modern physics, and actively involved students in simulating real-time experiments within a controlled digital environment.** She elaborated to both UG and PG students, how this virtual lab helps them in lab experiments performance. Virtual Labs help to UG students in building foundations—making abstract concepts clear, giving access to experiments otherwise limited by infrastructure, making scientific graph easier, and allowing repetition without hesitation. However, for PG students, this provides a platform to innovate and specialize—exploring advanced experiments, integrating simulations with research, and developing problem-solving skills required in higher studies and global research environments.

Professor Aparna Dixit not only guided students through the process of accessing and using the virtual lab platform, explaining its features and functionalities in detail, but also provided practical demonstrations of **"Newtons Ring Experiment"**. These real-time sessions allowed students to gain a deeper understanding of how virtual labs and programming concepts can be applied in practice, effectively complementing their classroom learning. She also addressed that in the present; **Virtual Labs bridge the gap between theory and practice**. In the future, they will redefine scientific education by offering flexible, accessible, and collaborative learning, preparing students for both academic excellence and industry readiness. She also offered to the students **for internship program on Virtual Labs.**

The session concluded with an engaging Q&A session, where students clarified their queries regarding both virtual labs and programming concepts. The interaction allowed them to gain deeper insights into the application of virtual labs in education and its role in technical skill enhancement. This session is successfully **coordinated by Dr. Manish Kapoor**, a senior faculty member of Department of Physics.

(iii) Hands-on Experiment Session

Venue: Computer Lab

A major highlight of the workshop was the hands-on experience provided to the students, where they actively participated in conducting virtual experiments using the Virtual Labs portal. This experiential learning approach was met with great enthusiasm and curiosity from the participants. This dedicated session was conducted at Computer Lab**,** where UG and PG both students were given the opportunity to explore Virtual Labs themselves. **They performed selected experiments given in below table**, repeated them, and tested variations, which strengthened their conceptual understanding. This session created excitement and confidence among students, particularly those who had limited access to fully equipped computer labs.

The workshop concluded with a **Vote of Thanks** delivered by **Dr. Ashutosh Dwivedi**, faculty of the Department of Physics. Special acknowledgment was extended to IIT Kanpur and the Virtual Labs team for their collaborative spirit and support.

The workshop was attended by faculty members, undergraduate and postgraduate students of the college. It successfully demonstrated the potential of virtual tools in enhancing science education and fostering curiosity-driven learning among students.

Outcomes of the Workshop

- Enhanced awareness among students about Virtual Labs as a flexible and accessible scientific learning tool.
- Strengthened the digital competence of UG and PG students.
- Established interest in integrating Virtual Labs in classroom teaching and independent study.
- Fostered collaboration between Christ Church College, Kanpur, PSIT Kanpur and IIT Kanpur for future academic activities.
- Internship opportunity open for both UG and PG students

Conclusion

The Workshop on Virtual Labs in Science successfully achieved its objectives by empowering students with new digital tools for scientific learning. It opened avenues for innovative, resource-friendly, and accessible education. Both UG and PG students expressed enthusiasm to adopt Virtual Labs as part of their academic journey.

List of Experiments Performed by The Students in Workshop

S. No.	Class	Sem.	Name of Experiments and Experiment source weblink
1	B.Sc.	I	**To determine the acceleration g of gravity using a compound bar pendulum.** **Web Link-** https://vlab.amrita.edu/index.php?sub=1&brch=280&sim=210&cnt=1 **You Tube Link-** https://www.youtube.com/watch?v=NSKaHgI6bCc&t=5s&abchannel=RohitGuptaPhysics
2	B.Sc.	II	**To study the variation of magnetic field with distance along the axis of a circular coil carrying current.** **Web Link-** https://vlab.amrita.edu/index.php?sub=1&brch=192&sim=972&cnt=1 **You Tube Link-** https://www.youtube.com/watch?v=G8Rqd2HNhuk&ab_channel=PhysicsReboot
3	B.Sc.	III	**To set up and observe Newton rings and determine the wavelength of the given source.** **Web Link-** https://vlab.amrita.edu/?sub=1&brch=189&sim=335&cnt=1 **You Tube Link-** https://www.youtube.com/watch?v=NRnt-lXEz5E&ab_channel=RohitGuptaPhysics
4	M.Sc.	I	**To study the variation in current and voltage in a series LCR circuit and find the resonant frequency of the circuit.** **To study the behaviour of a series R-L-C circuit.** **Web Link-** https://ec-amrt.vlabs.ac.in/exp/series-lcr-circuits/simulation.html https://asnm-iitkgp.vlabs.ac.in/exp/rlc-circuit-analysis/index.html **You Tube Link-** https://www.youtube.com/watch?v=STm78Vrtp2c&ab_channel=Dr.SatishChandra

5	M.Sc.	III	**Electronics:** **To determine the Numerical Aperture (NA) of the optical fibers available.** **Web Link-** https://oc-iitr.vlabs.ac.in/List%20of%20experiments.html **You Tube Link-** https://www.youtube.com/watch?v=aHfR0wlyVYk&ab_channel=RohitGuptaPhysics
6	M.Sc.	III	**Condensed Matter Physics:** **To determine the volume magnetic susceptibility of Manganese sulphate solution at different concentrations. (Quincke's Method)** **Web Link-** https://vlab.amrita.edu/index.php?sub=1&brch=192&sim=854&cnt=1 **You Tube Link-** NA

Attendance:

Total 23 faculty members, 55 UG students and 08 PG students have attended this one-day workshop.


WORKSHOP ON VIRTUAL LABS
Christ Church College, Kanpur
GPS Map Camera
Kanpur, Uttar Pradesh, India
38/24, Shiwala First Street Main Gate, Shiwala, Patkapur, Kanpur, Uttar Pradesh 208001, India
Lat 26.471008° Long 80.353122°
18/09/2025 10:18 AM GMT +05:30
Google


WORKSHOP ON VIRTUAL LABS
Discover Physics Experiments
Organized by
Christ Church College, Kanpur
Department of Physics
In collaboration with
Indian Institute of Technology, Kanpur
Resource Person : DR. APARNA DIXIT
Virtual Lab Regional Centre Coordinator, PSIT, Kanpur
Date & Time : 18th September 2025, 10:00 AM Venue : Chemistry Seminar Room
Prof. Vinay John Sebastian
Principal
Prof. Satya Prakash Singh
Convener
Dr. Ashutosh Kumar
Coordinator
GPS Map Camera
Kanpur, Uttar Pradesh, India
38/24, Shiwala First Street Main Gate, Shiwala, Patkapur, Kanpur, Uttar Pradesh 208001, India
Lat 26.471033° Long 80.353138°
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Google


GPS Map Camera
Kanpur, Uttar Pradesh, India
F9c3+96c, Shiwala Rd, Bangali Mohala, Shiwala, Patkapur, Kanpur, Uttar Pradesh 208001, India
Lat 26.470913° Long 80.353088°
18/09/2025 10:39 AM GMT +05:30
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GPS Map Camera
Kanpur, Uttar Pradesh, India
38/24, Shiwala First Street Main Gate, Shiwala, Patkapur, Kanpur, Uttar Pradesh 208001, India
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18/09/2025 11:05 AM GMT +05:30
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GPS Map Camera
Kanpur, Uttar Pradesh, India
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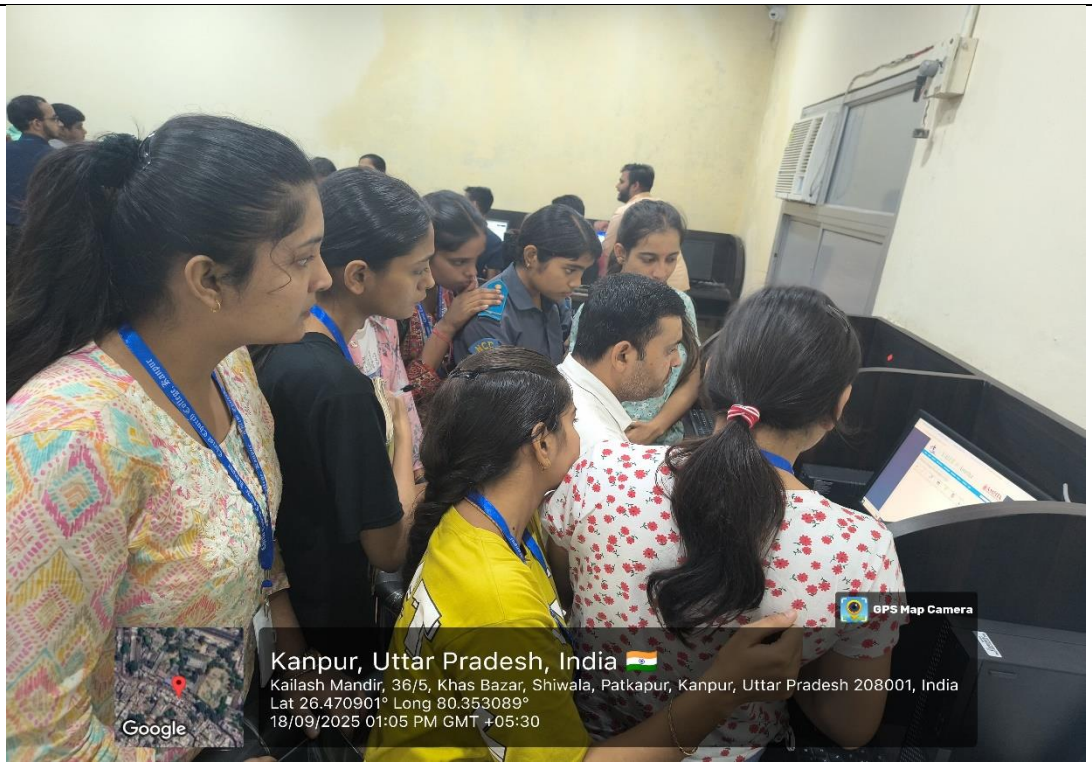
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Kanpur, Uttar Pradesh, India
Kailash Mandir, 36/5, Khas Bazar, Shiwala, Patkapur, Kanpur, Uttar Pradesh 208001, India
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Prof. Satya Prakash Singh
Incharge- Department of Physics

Dr. Ashutosh Kumar
Nodal Coordinator Virtual Lab

Christ Church College, Kanpur

DEPARTMENT: PHYSICS

PROGRAMME: WORKSHOP ON VIRTUAL LABS- DISCOVER PHYSICS EXPERIMENTS

VENUE: CHEMISTRY SEMINAR ROOM

DATE: 18-09-2025

ATTENDANCE

S. No.	Name	Student/ Research Scholar/ Faculty	Class/ Designation	Signature
1	Ms Vinay Sebastian		Principal	
2	Dr. Aparna Dixit		Resource Person	
3	Dr Shweta Chand	Faculty	Professor	
4	Dr. Ashutosh Kumar	faculty	Asst. Prof.	
5	Dr. A.K. Nath	Faculty	Ass. Prof	
6	Dr Navin K. Ambasht	Faculty	Professor	
7	Dr. Sanjay Saksena	Faculty	Asso. Prof.	
8	Dr. Arvind Singh	Faculty	Prof.	
9	Dr. Sujata Chaturvedi	faculty	Professor	
10	Dr. Rameshwar P. Mishra	"	Asst. Prof.	
11	DR. MANISH KAPOOR	"	Asso. Prof.	
12	Dr. Sanjay Kr. Shukla	"	Assistant Prof.	
13	Dr Ashutosh Dwivedi	"	Asst Prof.	
14	Dr T.K. Tungs	"	Asso. Prof.	
15	Dr. Nazir Hussain	Faculty	Asstt. Prof.	
16	Dr. Ashish Omar	"	Asst. Prof.	
17.	Dr Prashant Kum	"	"	

Prof. Satya Prakash Singh
Convener &
Incharge, Dept. of Physics

Dr. Ashutosh Kumar
Coordinator
Nodal Centre Virtual Lab

WORKSHOP ON VIRTUAL LABS- DISCOVER PHYSICS EXPERIMENTS

S. No.	Name	Student/ Research Scholar/ Faculty	Class/ Designation	Signature
1	Dr. Rashmi Singh	Faculty		
2	Dr. Rukmani Devi	Faculty	Asst. Professor	
3	Dr Anindita Bhattacharya	Faculty	Professor	
4	Dr. Jyotsna Lal	Faculty	Professor	
5	DR. PARUL GUPTA	Faculty	Asstt. Professor	
6	Dr. Ankita Jasmine Lall	Faculty	Assistant Professor	Ankita
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Christ Church College, Kanpur

DEPARTMENT: PHYSICS

PROGRAMME: HANDS ON SESSION- VIRTUAL LABS EXPERIMENTS

VENUE: ROOM NO. 15

DATE: 18-09-2025 **TIME: 12:30 PM TO 02:30 PM**

ATTENDANCE

S. No.	Name	Class/ Sem.	Name of Experiment	Signature
1	Shaloo Trivedi	BSc 5th sem	Newton's ring	Shaloo
2	Dipa Sinha	BSc 5th sem	Newton's ring	Dipa
3	Sakshi Singh	B.Sc 5th sem	Newton's ring	Sakshi
4	AtoofaMalik	B.Sc 5th Sem	Newton's Ring	Atufa
5	Avishi Prasad	B.Sc 5th sem	Newton's Ring	Avishi
6	Divyanshi Kanaujiya	B.Sc 5th sem	Newton's Ring	Divyanshi
7	Arpita Patel	B.Sc 5th sem	Newton's Ring	Arpita Patel
8	Vaibhav Kumar Sharma	B.Sc. 5th Sem	Newton's Ring	Vaibhav Kumar Sharma
9	Mohd Tauqeer	BSc 5th sem	Newton's Ring	Mohd Tauqeer
10	Husna	BSc. 5th sem	Newton's Ring	Husna
11	Manu Dwivedi	BSc. 5th sem	Newton's Ring	Manu
12	Mashiyam Jahan	B.SC 5th Sem	Newton's ring	Mashiyam
13	Saloni Yadav	B.Sc 5th sem	Newton's ring	Saloni
14	Mansi Gaud	B.Sc 5th sem	Newton's ring	Mansi
15	Aryan Gupta	BSc 5th sem	Newton's ring	AryanGupta
16	Ahmad Raza	BSc 5th	Newton's ring	Ahmad

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S. No.	Name	Class/ Sem.	Name of Experiment	Signature
1	Umar Masih	M.Sc. Ist sem	Magnetic field along the axis of coil.	Umar
2	Jai Pandey	B.Sc. Vsem	Newton's Ring	Jai
3	Prakhar Gupta	B.Sc. Vsem	Newton's Ring	Prakhar Gupta
4	Aakrati Mathur	B.Sc III sem	Magnetic field along axis of coil.	Aakrati
5	Jagrati Gupta	B.Sc III sem	Magnetic field along axis of coil	Jagrati
6	Ilma Tabassum	B.Sc III sem	Magnetic field along axis of coil	Ilma Tabassum
7	Khushboo Gautam	B.Sc III sem	Magnetic field along axis of coil	Khushboo
8	Lakshya Sharma	B.Sc IV sem	Newton's Ring	
9	Shiva Savita	B.Sc V sem	Newton's Ring	
10	Gulfisha	B.Sc II sem	Magnetic field along the axis of coil	Gulfisha
11	Saniya Salman	B.Sc III sem	magnetic field along the axis of coil	Saniya
12	Syed Ali Jafar	B.Sc. Vth sem	Newton's Ring	Syed Ali Jafar
13	Muskan Tiwari	B.Sc Ist sem	compound bar pendulum	Muskan
14	Rishabh Vimal	B.Sc Ist sem	compound bar pendulum	Rishabh Vimal
15	Shweta singh	B.Sc Ist sem	compound bar pendulum	Shweta singh
16	Uday	B.Sc-Ist sem	Compound bar Pendulum	Uday
17	Daksh Soukar	BSC Ist sem	Compound bar pendulum	Daksh
18	Mirza	B.SC IIIrd sem	Magnetic field double coil	
19	Iqdra Fatima	B.SC III sem	Magnetic field along axis of coil	
20	Karshiya Wasi	B.SC IIIrd sem	Magnetic field along axis of coil	
21	Alisha Akhtar	BSC IIIrd sem	magnetic field along axis of coil	Alisha
22	Deeksha Sharma	BSC III sem	axis magnetic field axis of coil	Deeksha
23	Nitya Singh	BSC III sem	Magnetic field axis of double	Nitya Singh
24	Tuba Asim	BSC Ist Sem	compound Bar Pendulum	Tuba

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S. No.	Name	Class/ Sem.	Name of Experiment	Signature
1	Mehrab Fatima	B.Sc Ist Sem	Compound Bar Pendulum	Mehrab Fatima
2	Ruksar	B.Sc. I-Sem	Compound Bar Pendulum	Ruksar
3	Shifa Afreen	B.Sc. I-Sem	Compound Bar Pendulum	Shifa Afreen
4	Mahin Qasim	B.Sc. III-Sem	Magnetic field around the axis of coil	Mahin Qasim
5	Lavnya	B.Sc III Sem	Variation of Magnetic field	Lavnya
6	Diksha Yadav	B.Sc III sem	magnetic field around the axis of coil	Diksha
7	Anchal Chaudhary	M.Sc. I sem	Compound bar pendulum / LCR series	Anchal
8	Alisha Yasin	M.Sc III sem	Newton's Ring	Alisha
9	Mohd. Birgeesh	M.Sc. III Sem	Fibre Optics (Numerical aperture) & Newton's Ring & Quincke's method (CMP)	Mohd. Birgeesh.
10	MOHD. SUBHAN	M.Sc. 1st sem	COMPOUND PENDULUM AND LCR (Series + Parallel)	Mohd Subhan
11	Sudrajeet singh	M.Sc I st sem	Compound Bar Pendulum / LCR Series	
12	Arpit Saxena	Bsc- 1st Sem	Compound Bar Pendulam	Arpit Saxena.
13	Sunil Verma	B.Sc. V th Sem	Newton's rings	Sunil
14	Harshit Prem	M.Sc I Sem	Magnetic field along coil (LCR Series)	Harshit
15	Vishal	B.Sc. V th sem	Newton's rings	Vishal
16	Afnan	B.Sc I sem-1	Compound Bar pendulum	
17	Aakash Ahuja	B.Sc. I Sem-I	Compound Bar pendulum	Aakash Ahuja
18	Man-Shant Khem	B.Sc I Sem-I	Compound Bar pendulum	Man-Shant Khem
19	Krishna Nishad	B.Sc I Sem	Compound bar Pendulum	Krishna Nishad
20	Mohd. Abaan	B.Sc Ist Sem	Compound bar Pendulum	Mohd. Abaan
21	Mohd Affan	BSc Ist Sem	Compound Bar Pendulum	Affan
22	Ansh Pandey	B.Sc - I st Sem	Compand Bar Pendulum	Ansh Pandey
23	Shani Kushwaha	M.Sc III rd Sem	Fiber optics communication	Shani
24				

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5	Dr. A.K. Nath	Faculty	Ass. Prof	A K N
6	Dr Navin K. Ambasht	Faculty	Professor	NKAmbasht
7	Dr. Sanjay Saksena	Faculty	Asso. Prof.	S. Saksena
8	Dr. Arvind Singh	Faculty	Prof.	Arvind
9	Dr. Sujata Chaturvedi	faculty	Professor	Sujata
10	Dr. Rameshwar P. Mishra	"	Asst. Prof.	Rameshwar
11	DR. MANISH KAPOOR	"	Asso. PROF.	manish
12	Dr Sanjay Kr. Shukla	"	Assistant Prof.	SS
13	Dr Ashutosh Dwivedi	"	AA Prof.	
14	Dr. R. K. Tungs	"	Asso. Prof.	R
15	Dr. Nazir Hussain Dar	Faculty	Asstt. Prof.	
16	Dr Ashish Omar	"	Asst. Prof.	Ashish
17.	Dr Prashant Kum	"	"	

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3	Dr Anindita Bhattacharya	Faculty	Professor	
4	Dr. Jyotsna Lal	Faculty	Professor	
5	DR. PARUL GUPTA	Faculty	Asst. Professor	
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5	Avishi Prasad	B.Sc 5th sem	Newton's Ring	Avishi
6	Divyanshi Kanaujiya	B.Sc 5th sem	Newton's Ring	Divyanshi
7	Arpita Patel	B.Sc 5th sem	Newton's Ring	Arpita Patel
8	Vaibhav Kumar Sharma	B.Sc. 5th Sem	Newton's Ring	Vaibhav Kumar Sharma
9	Mohd Tauqeer	BSc 5th sem	Newton's Ring	Mohd Tauqeer
10	Husna	BSc. 5th sem	Newton's Ring	Husna
11	Manu Dwivedi	BSc. 5th sem	Newton's Ring	manu
12	Mariyam Jahan	B.Sc 5th sem	Newton's ring	Mariyam
13	Saloni Yadav	B.Sc 5th sem	Newton's ring	Saloni
14	Mansi Gaud	B.Sc 5th sem	Newton's ring	Mansi
15	Aryan Gupta	BSc 5th sem	Newton's ring	Aryan Gupta
16	Ahmad Raza	BSc 5th	Newton's ring	Ahmad

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6	Ilma Tabassum	B.Sc III sem	Magnetic field along axis of coil	Ilma Tabassum
7	Khushboo Gautam	B.Sc III sem	Magnetic field along axis of coil	Khushboo
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9	Shiva Savita	B.Sc V sem	Newton's Ring	
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13	Muskan Tiwari	B.Sc Ist sem	compound bar pendulum	Muskan
14	Rishabh Vimal	B.Sc Ist sem	compound bar pendulum	Rishabh Vimal
15	Shweta singh	B.Sc Ist sem	compound bar pendulum	Shweta singh
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17	Daksh Soukar	BSc Ist sem	Compound bar pendulum	Daksh
18	Mirza	B.Sc IIIrd sem	Magnetic field double coil	
19	Iqrra Fatima	B.Sc III sem	Magnetic field along axis of coil	
20	Karshiya Wasi	B.Sc IIIrd sem	Magnetic field along axis of coil	
21	Alisha Akhtar	BSc IIIrd sem	magnetic field along axis of coil	Alisha
22	Deeksha Sharma	BSc III sem	axis magnetic field axis of coil	Deeksha
23	Nitya Singh	BSc III sem	Magnetic field axis of double	Nitya Singh
24	Tuba Asim	BSc Ist Sem	Compound Bar Pendulum	Tuba

Prof. Satya Prakash Singh
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3	Shifa Afreen	B.SC. I-Sem	compound Bar Pendulum	Shifa Afreen
4	Mahin Qasim	BSc. III-Sem	Magnetic field around the axis of coil	Mahin Qasim
5	Savnya	B.Sc III Sem	Variation of Magnetic field	Savnya
6	Diksha Yadav	B.SC III sem	magnetic field around the axis of coil	Diksha
7	Anchal Chaudhary	M.Sc. I Sem	compound bar pendulum / LCR series	Anchal
8	Alisha Yasin	M.Sc III Sem	Newton's Ring Fibre Optics (Numerical aperture)	Alisha
9	Mohd. Birgeesh	M.Sc. III Sem	Newton's Ring & Quincke's method (CMP)	Mohd. Birgeesh
10	MOHD. SUBHAN	M.Sc. 1st Sem	COMPOUND PENDULUM AND LCR (Series + Parallel)	Mohd Subhan
11	Sudrajeet Singh	M.S.C 1st Sem	Compound Bar Pendulum / LCR Series	
12	Arpit Saxena	BSc- 1st Sem	Compound Bar Pendulam	Arpit Saxena
13	Sunil Verma	B.Sc. IVth Sem	Newton's rings	Sunil
14	Harshit Prem	M.SC I Sem	Magnatic field along coil (LCR Seies)	Harshit
15	Vishal	B.SC. IVth sem	Newton's rings	Vishal
16	Afroz	B.S.C Sem-1	Compound Bar pendulum	
17	Akash Ahuja	B.S. I Sem-I	Compound Bar Pendulum	Akash Ahuja
18	Manohar Khem	B.Sc I Sem-I	Compound Bar pendulum	Manohar Kh
19	Krishna Nishad	B.S.C I Sem	Campand bar Pendulum	Krishna Nishad
20	Mohd. Abaan	B.S.C Ist Sem	Compound bar Pendulum	Mohd. Abaan
21	Mohd Affan	BSc Ist Sem	Compound Bar Pendulum	Affan
22	Ansh Pandey	B.Sc - Ist Sem	Compand. Bar Pendulum	Ansh Pandey
23	Shani Kushwaha	M.Sc IIIrd Sem	Fiber optics communication	Shani
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