



Department of Physics
St. Bede's College, Shimla

PHYSICS ACTIVITIES 2023-24

Visit to Archive Section of College Library

Date: August 29, 2023

Objective: To enhance students' understanding of historical and academic resources, fostering a deeper appreciation for the institution's rich heritage and intellectual evolution.

On August 29, 2023, students from the Department of Physics visited the archive section of the college library. This particular section houses an impressive collection, including rare and ancient books, back volumes of national and international journals, historical exhibitions depicted through digital posters, visual charts, maps, and a globe.

During the immersive exploration of the Archive and ancient book section, students found themselves transported into a realm of historical knowledge and literary wonders.

Outcome:

This excursion provided them with valuable insights into the evolution of language, writing styles, and cultural perspectives. Through the examination of various texts, they gained a deeper appreciation for how societies and knowledge have undergone transformation over the course of time. The visit underscored the importance of preserving our literary heritage and emphasized the value of tangible artifacts in an increasingly digital world.





*Department of Physics
St. Bede's College, Shimla*

Talk on “Exploring Physics with Scilab”

Speaker: Dr. Lalit

Date: September 22, 2023

Venue: Seminar Room

Objective: To provide an overview of Scilab as a robust computational tool for scientific and engineering applications.

On the 22 of September 2023, physics department organized a talk by Dr. Lalit, Assistant Professor, G. B. Pant Memorial Govt. College, Rampur Bushahar.

In his talk Dr. Lalit deliberated on how Scilab can be employed to solve complex physics problems across various domains, including mechanics, electromagnetism, thermodynamics, and quantum physics. He illustrated the application of numerical methods within Scilab for solving differential equations, integral transforms, and other mathematical challenges commonly encountered in physics research.


He provided students with practical, hands-on examples to reinforce the concepts discussed during the talk. Encourage participants to actively engage with Scilab, solving physics problems in real-time to enhance their proficiency with the software.

Outcome: The students should gain a comprehensive understanding of how Scilab can serve as a valuable tool in exploring and solving complex physics problems, ultimately empowering them to leverage computational methods in their educational pursuits.

Department of Physics
St. Bede's College, Shimla
(NAAC Re-Accredited A+ Grade)

Organizes a Talk
On

**“Exploring Physics with Scilab:
An Interactive Journey”**
by


Mr. Lalit Kumar
(Assistant Professor in Physics)
G. B. Pant Memorial Govt. College: Rampur Bushahar- Dist. Shimla

on

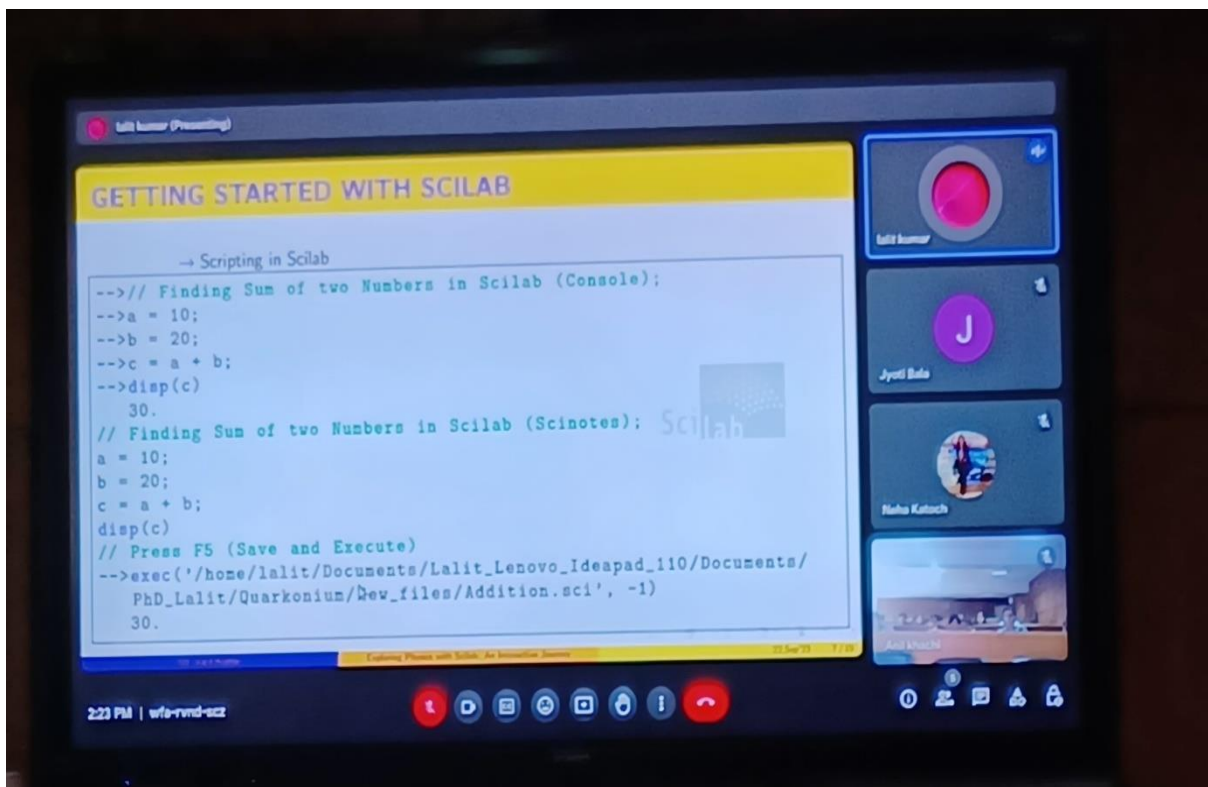
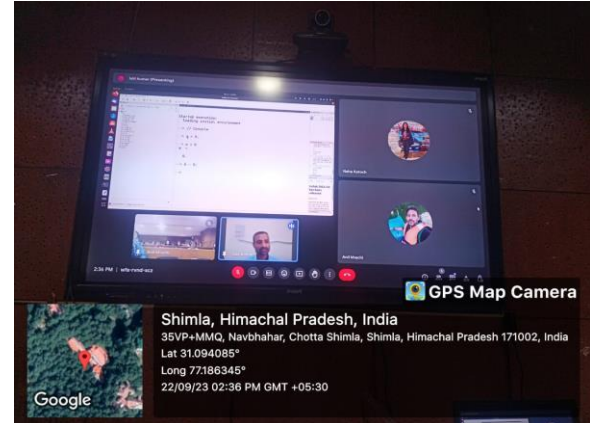
Date: September 22, 2023
Time: 2:00 PM onwards
Venue: Seminar Room

Google meet link: <https://meet.google.com/wfa-rvnd-scz>
Email: anilkhachi1990.com
Phone: 70188 16976

Scilab python MAPLE Fortran Weibram Mathematica



*Department of Physics
St. Bede's College, Shimla*



(Talk on Scilab September 22, 2023)



Workshop on Quantum Physics Simulations using Spread sheet

Speaker: Prof. O. S. K. S. Sastri

Date: September 29, 2023

Venue: Department of Physics (Room: C5), St. Bede's College

Date: September 29, 2023

Objective: To provide students with a unique opportunity to delve into the fascinating world of quantum mechanics through basic understanding of key quantum physics concepts.

On the 29 of September 2023, Physics department of St. Bede's College hosted a one-day workshop on *Quantum Physics Simulations using Spreadsheets*. The workshop was tailored to benefit the 3rd-year BSc and 2nd-year BSc students, offering them a unique opportunity to delve into the fascinating world of quantum mechanics. Prof. O. S. K. S. Sastri Professor, Department of Physics and Astronomical Science, Central University Dharamshala H.P, took the participants through the mathematical foundations and explained the significance of some fundamental problems like **Infinite Square Well Problem, Harmonic Oscillator Problem** in quantum physics. Students were given hands-on experience using spread sheets to simulate the behaviour of a particle to visualize the energy levels and wavefunction in both the problems. This practical approach allowed the participants to gain a deeper understanding of quantum wave functions and energy quantization.

Outcome: The workshop equipped the students with practical skills in utilizing spreadsheets for quantum physics simulations, making theoretical concepts more tangible. Participants left the workshop with a deeper appreciation for the world of quantum physics and its applications.



Department of Physics
St. Bede's College, Shimla


Department of Physics
St. Bede's College, Shimla
(NAAC Re-Accredited A+ Grade)

is Organising

One day Hands-on Workshop
On

**Quantum Physics Simulations
using Spreadsheets**

Speaker





Prof. O. S. K. S. Sastri
(Professor of Physics)
Central University of Himachal Pradesh

on

Date: September 29, 2023
Time: 10:20 AM-1:20 PM
Venue: Department of Physics (C-5)

Email: anilkhachi1990.com
Phone: 70188 16976



Brochure



(Quantum Physics Simulations (September 29, 2023))



Department of Physics
St. Bede's College, Shimla

Attendance Sheet

Date:29/08/2023

Attendance Sheet

Visit to Archive section of library

S. No.	Name of student	Roll No.	Signature of student
1.	Aakriti	212014	
2.	Aditi	212027	
3.	Arushika	212008	
4.	Divya	212035	
5.	Divyanshi	212047	
6.	Ibee	212045	
7.	Mansi	212003	
8.	Muskan	212053	
9.	Neha	212040	
10.	Shreya	212001	
11.	Shweta	212043	
12.	Swati	220001	
13.	Tanya	212013	
14.	Pooja	212083	
15.	Suhani		



Department of Physics
St. Bede's College, Shimla

S. No. 01

Dated: 22/09/2023

Attendance Sheet

Online talk by Mr. Lalit Kumar on "Exploring Physics with Scilab: An Interactive Journey"

S. No.	Name of Student (B.Sc-III)	Signature
1.	Aakriti	Aakriti
2.	Aditi	Aditi
3.	Arushika	Arushika
4.	Divya	Divya
5.	Divyanshi	Divyanshi Datta
6.	Ibee	Ibee
7.	Mansi	Mansi
8.	Muskan	Muskan
9.	Neha	Neha
10.	Shreya	Shreya
11.	Shweta	Shweta
12.	Suhani	Suhani
13.	Swati	Swati
14.	Tanya	Tanya
15.	Pooja	Pooja
16.		
	Name of Student (B.Sc-I)	
17.	Aditi	Aditi
18.	Mannat	Mannat
19.	Payal	Payal
20.	Sunidhi	Sunidhi
21.	Alisha	Alisha
22.	Manisha	Manisha
23.	Reshma	Reshma
24.	Jasmeet	Jasmeet
25.	Vedika	Vedika
26.	Vasundhra	Vasundhra
27.	Shreya	Shreya
28.	Aditi Singh	Aditi Singh
29.	Ananya	Ananya



Department of Physics
St. Bede's College, Shimla

Date: 29/9/2023

Attendance Sheet

One Day Hands-on Workshop on Quantum Physics Simulations using Spreadsheet

Course	S.No.	Name of Student	Roll No.	Signature of Student
B.Sc-III	1.	Aakriti	212014	
	2.	Aditi	212027	
	3.	Arushika	212008	
	4.	Divya	212035	
	5.	Divyanshi	212047	
	6.	Ibee	212045	
	7.	Mansi	212003	
	8.	Muskan	212053	
	9.	Neha	212040	
	10.	Shreya	212001	
	11.	Shweta	212043	
	12.	Suhani		
	13.	Swati	220001	
	14.	Tanya	212013	
	15.	Pooja	212083	
B.Sc-II	16.	Sujal	212056	
	17.	Aishani	229004	
	18.	Kritika	229008	
	19.	Varunika	212042	
	20.	Arushi	229011	
	21.	Manpreet		



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