



## Webinar on "The Role of Computational Material Science in Innovation" Enlightens BSc Students

*October 4, 2024 | Govt. College Karsog, Himachal Pradesh*

The Department of Chemistry at Govt. College Karsog organized a webinar on "The Role of Computational Material Science in Innovation" on October 4, 2024, aimed at enhancing the knowledge of BSc students. The webinar was conducted by Mr. Narender Kumar, a PhD fellow at the United Arab Emirates University, Abu Dhabi, who is researching Energy Harvesting and Cancer Diagnosis Techniques through Computer Simulations under the supervision of Prof. Nacir Tit from the Department of Physics.

In his presentation, Mr. Kumar elaborated on how computational methods are transforming the design of innovative materials. He highlighted the importance of biosensors, which have the potential to revolutionize both medical diagnostics and environmental monitoring. He explained how computational simulations enable scientists to design and optimize materials for various applications, ultimately reducing the time and cost involved in development.

Another key area discussed was nanomaterials, which are playing a crucial role in industries like electronics, energy storage, and healthcare. Mr. Kumar introduced students to various simulation tools commonly used in research, such as SIESTA, Quantum ESPRESSO, and Gaussian, which allow scientists to study the behavior of materials at the atomic level.

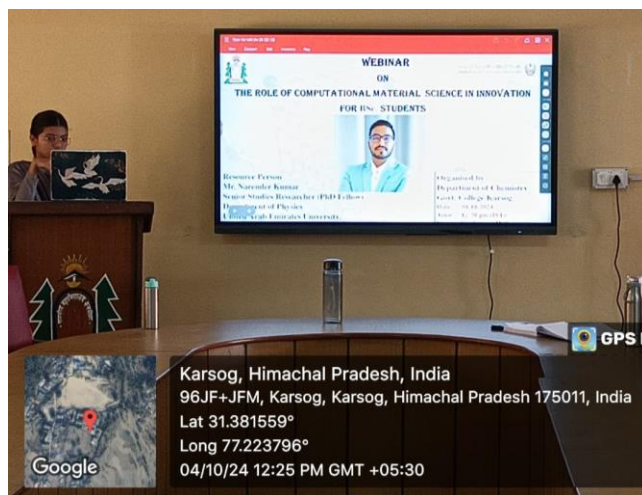
Beyond the technical content, Mr. Kumar encouraged students to explore research opportunities by informing them about various internship and PhD programs available in India and abroad. He emphasized the significance of gaining hands-on experience in advanced research fields and motivated students to pursue further studies in computational material science.

The session concluded with an engaging Q&A segment, where Mr. Kumar answered students' questions regarding career prospects and the growing importance of computational techniques in material science.

At the end of the session, **Ms. Renuka Sharma**, Assistant Professor in the Department of Chemistry, expressed gratitude on behalf of the college and students. She gave a heartfelt **vote of thanks** to Mr. Kumar for his enlightening talk and for taking the time to inspire the students with his valuable knowledge and insights.

The event was a resounding success, leaving students inspired and eager to explore the expanding horizons of computational material science.

## Some glimpses of the event



75 students attended this webinar:



# Webinar on "The Role of Computational Material Science in Innovation"

DATE 04/10/2024

A webinar on "The Role of Computational Material Science in Innovation" was organised by Department of Chemistry, Govt. College, Karag on 4<sup>th</sup> October 2024. The webinar aiming at enhancing the knowledge of BSc. students was conducted by Mr. Narendra Kumar, a PhD fellow pursuing his research under the supervision of Prof. Navin Tit in the Department of Physics at the United Arab Emirates University, UAE, Abu Dhabi, UAE.

The following 75 students attended the webinar :-

Sr. No.	Name	Class	Roll No.	Signature
1.	Chiranjit	BSc. 2nd yr.	BSC/23/LSC/2016	Chiranjit
2.	Rohan Thakur	"	BSc/23/LSC/2515	Rohan
3.	Akhil Sharma	"	BSC/23/LSC/2011	Akhil
4.	Devika	"	BSC/23/LSC/2002	Devika
5.	Aarti Verma	BSc 3rd year	BSC/22/LSC/2523	Aarti
6.	Nikita Sharma	BSc III <sup>rd</sup> yr.	BSc/22/LSC/2514	Nikita
7.	Muskan	BSc III <sup>rd</sup> yr.	BSC/22/LSC/2508	Muskan
8.	Anamika	BSC III <sup>rd</sup> yr.	BSC/22/LSC/2519	Anamika
9.	Sanjana	BSC III <sup>rd</sup> Year	BSC/21/LSC/2519	Sanjana
10.	Shikha	BSC III <sup>rd</sup> Year	BSC/21/LSC/2002	Shikha
11.	Sheetal	BSC III <sup>rd</sup> Year	BSC/21/LSC/2009	Sheetal
12.	Aditi Thakur	BSC III <sup>rd</sup> year	BSC/22/LSC/1301	Aditi Thakur
13.	Neha Verma	BSC III <sup>rd</sup> year	BSC/22/LSC/2524	Neha
14.	Akshita Mahajan	BSC II <sup>nd</sup> year	BSC/23/PSC/507	Akshita
15.	Anamika Thakur	BSC II <sup>nd</sup> year	BSC/23/PSC/504	Anamika
16.	Himani	BSC II <sup>nd</sup> year	BSC/23/PSC/1003	Himani
17.	Sakshi	BSC II <sup>nd</sup> year	BSC/23/PSC/1002	Sakshi
18.	Priyanka	BSC II <sup>nd</sup> year	BSC/22/PSC/11	Priyanka
19.	Takshi	BSC II <sup>nd</sup> year	BSC/22/PSC/9	Takshi
20.	Anjali	BSC II <sup>nd</sup> year	BSC/23/PSC/502	Anjali
21.	Anshita	BSC II <sup>nd</sup> year	BSC/23/PSC/504	Anshita
22.	Raveena	BSC II <sup>nd</sup> year	BSC/23/LSC/2516	Raveena

classmate



		DATE	Roll No.	Signature
Sr. No.	Name	Class		
23	Sanja Verma	BSC II Year	BSC/23/LSC/2509	<u>Sanja</u>
24	<del>Sanjal</del>	BSC II Year	BSC/23/LSC/1301	<u>Sanjal</u>
25	<del>Sanja</del>	BSC II Year	BSC/23/LSC/2516	<u>Sanja</u>
26	Mahak Verma	BSC II Year	BSC/23/LSC/2502	Mahak Verma
27	Shivani Thakur	BSC II Year	BSC/23/LSC/2511	Shivani
28	Shailja	BSC II Year	BSC/22/LSC/2522	<u>Shailja</u>
29	Minakshi	BSC II Year	BSC/23/LSC/2506	<u>Minakshi</u>
30	Anchal Kumari	BSC II Year	BSC/23/LSC/2501	<u>Anchal</u>
31	PAULI	BSC II Year	BSC/22/PSC/501	<u>PAULI</u>
32	Karishma Kapoor	BSC III Year	BSC/22/PSC/03	<u>Karishma</u>
33	Nagina Kumari	BSC III Year	BSC/21/PSC/10	<u>Nagina</u>
34	Pankaj Kumar	BSC II Year	BSC/23/PSC/505	<u>Pankaj</u>
35	Rajender Kumar	BSC II Year	BSC/23/PSC/03	<u>Rajender</u>
36	Harish Kumar	BSC II Year	BSC/23/PSC/05	<u>Harish</u>
37	Gurjan Sharma	BSC III Year	BSC/22/PSC/512	Gurjan
38	Bhuvan Thakur	BSC III Year	BSC/22/PSC/1520	<u>Bhuvan</u>
39	Kamal Kumar	BSC I Year	BSC/24/PSC/503	<u>Kamal</u>
40	Bhaskar	BSC I Year	BSC/24/PSC/509	<u>Bhaskar</u>
41	Tushar Kumar	BSC I Year	BSC/24/PSC/1002	<u>Tushar</u>
42	Snaha Verma	BSC III Year	BSC/22/PSC/514	<u>Snaha</u>
43	Divya Thakur	BSC I Year	BSC/22/PSC/02	<u>Divya</u>
44	Lulky	BSC I Year	BSC/24/PSC/508	<u>Lulky</u>
45	Ketan Verma	BSC I Year	BSC/24/PSC/507	<u>Ketan</u>
46	Vinda	BSC I Year	BSC/24/PSC/03	<u>Vinda</u>
47	Supriya Thakur	BSC I Year	BSC/24/PSC/02	<u>Supriya</u>
48	Anita Thakur	BSC I Year	BSC/24/PSC/500	<u>Anita</u>
49	Bakshi	BSC I Year	BSC/24/PSC/1003	<u>Bakshi</u>
50	Sarika	BSC I Year	BSC/24/PSC/1004	<u>Sarika</u>
51	Kritika Thakur	BSC I Year	BSC/24/PSC/1006	Kritika
52	Radhika Thakur	BSC II Year	BSC/23/PSC/8	<u>Radhika</u>
53	Khushboo	BSC I Year	BSC/24/PSC/1001	<u>Khushboo</u>

classmate



DATE      

54)	Chandresh Kumari	BSC Ist year	BSC/24/PSC/504	Chan
55)	Aakanksha	BSC Ist year	BSC/24/PSC/506	Aakank
57)	Ritika Thakur	BSC 3 <sup>rd</sup> Year	BSC/22/PSC/511	Ritika
58)	Renuka	BSC 3rd Year	BSC/22/PSC/7	Renuka
59)	Divya Thakur	BSC III year	BSC/22/PSC/517	Divya
60)	Bandna	BSC 3rd year	BSC/22/PSC/505	Bandna
61)	Shradha	BSC III year	BSC/22/PSC/516	Shradha
62)	Anjali	BSC III year	BSC/22/PSC/503	Anjali
63)	Shivani	BSC 2nd Year	BSC/23/ISC/2504	Shivani
64)	Anchal	BSC 2nd Year	BSC/23/ISC/2503	Anchal
65)	Priyanka	BSC 2nd Year	BSC/23/ISC/2005	Priyanka
66)	Komal Thakur	BSC 2nd Year	BSC/23/ISC/2517	Komal
67)	Pooja sharma	BSC 2nd year	BSC/23/ISC/2508	Pooja
68)	Pooja Verma	BSC 2nd year	BSC/23/PSC/7	Pooja
69)	Dimple Gaurain	BSC 2nd year	BSC/23/PSC/503	Dimple
70)	Tushar Thakur	BSC 2nd year	BSC/23/PSC/501	Tushar
71)	Anurag Kumar	BSC 3rd year	BSC/22/PSC/105	Anurag
72)	Arya Thakur	BSC 3rd year	BSC/22/PSC/106	Arya
73)	Devender Kumar	BSC 3rd year	BSC/22/PSC/507	Devender
74)	Sekhar	BSC 2nd year	BSC/23/ISC/2009	Sekhar
75)	Aryana Sharma	BSC 2nd year	BSC/23/PSC/1001	Aryana