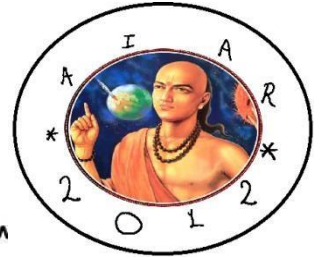




लखनऊ विश्वविद्यालय  
University of Lucknow

Department of Physics, University of Lucknow  
in collaboration with  
Counseling and Guidance Cell, University of Lucknow and  
Aryabhat Institute of Academics and Research, Lucknow  
Organizes



Webinar on Confocal Raman Microscopy Advancement and Its Application University of Lucknow

November 07, 2021 11:00 AM

In these times, a well-rounded and effective educational practice is needed for the capacity-building of young minds. It will develop skills that will

**Director C&G Cell**  
**Prof. Madhurima Pradhan**  
Department of Psychology  
University of Lucknow

**Head**  
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University of Lucknow

University of Lucknow

**Counsellor C&G Cell**



**Prof. Anchal Srivastava**  
Department of Physics  
University of Lucknow

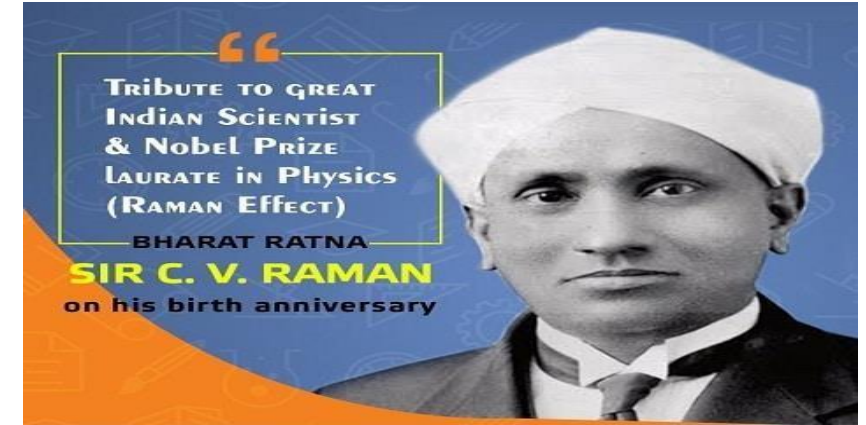
**Guest Speaker**  
**Dr. Mohit Gautam**

**Coordinator**  
**Dr. Navina Wadhvani**  
Department of Physics  
University of Lucknow

**Assistant Coordinator**  
**Prof. R.K. Shukla**  
Department of Physics  
University of Lucknow

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**Student Coordinator Mr. Prabhat Singh**  
**Ms. Nivedita Mani Tripathi**

**Events**

- Talks
- Presentations

drive their employability,

productivity, health, and well-being in the decades to come, and ensure the overall progress of India.

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➤ Zoom Meeting

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Meeting ID: 815 5396  
8893

Passcode: 091433

➤ For any further  
information, feel free to  
contact:

Prof. R.K. Shukla +91  
**9451309994**

Today (7/11/21) on the birth anniversary of Nobel Laureate Dr. C V Raman, the CGC cell in association with the Department of Physics and AIAR organized a webinar. The invited speaker Dr. Mohit Gautam who has a very deep knowledge and understanding on Confocal Microscopy presented the lecture on the " Confocal Raman Microscopy Advancement and its application." Dr. Mohit Gautam enlightened the audience on Confocal

Raman Microscopy advancement and its applications in the fields like chemical mapping, carbon nanotechnology bridges, medical science, etc. He also gave a brief introduction about the spectral resolution in Confocal Raman Microscope system which is defined by several factors like focal length, lines on the grating, and resolution of elements in the detector. He spoke about the

various imaging techniques like Confocal Raman Microscopy, Atomic Force Microscopy and Scanning Near field Optical Microscopy which is used for the comprehensive investigation of nano-carbon. Student Coordinator Prabhat Singh spoke about the Quantum Computers and its capabilities to solve computational problems. He briefly discussed about the Computers, Supercomputers and

Quantum Computers. Computers have one CPU, and Supercomputers have more than one CPU. Supercomputers use Binary Bits as Memory unit, while Quantum Computers Uses Qubits as Memory unit. Student Coordinator Nivedita Tripathi briefly discussed the concept of Raman spectroscopy and its applications in different fields. The main advantage of Raman Spectroscopy is in the field of medical science such as early detection of cancers, monitoring the effect of various agents on the skin and diagnosis of brain tumors etc.