

## Lecture on nanophysics and its applications(04January 2020)

During Inspire Internship Program, on 04 January 2020an lecture on **Nanophysics and Nanotechnology**was organized atGovt.V.Y.T.P.G. Autonomous College, Durg underthe auspices of Physics and Chemistry Department. A prominent Scientist Dr.Alok Shrivastava explained nanophysics and itsapplications. He gave detailed analysis of Atomic,molecular and Supramolecular scale. A moregeneralized description of nanotechnology as themanipulation of matter with at least onedimension sized from 1 to 100 nm has beenexplained by him. Dr. Shrivastava also reflectedthe fact that quantum mechanical effects areimportant at this Quantum Realm scale.Dr. Anupama Asthana, Head of Chemistry department, Dr.Purna Bose Head of Physics Department, Dr. Jagjeet Kaur Saluja IQAC Coordinator andProfessor (Physics) along withother Chemistry and Physics Professors , PG Students of Physics and Chemistry department attended the lecture. Dr. Anupama Asthana expressed hergratitude towards the guest professor and Scientist Dr. Alok Shrivastava and IQAC Coordinator Dr. Jagjeet Kaur Saluja expressedsatisfaction about such conference and interest ofstudents towards nanophysics .



Photos during lecture

Science has always been a magnanimous source of knowledge and abundant path for curiosity. Dr. Alok Shrivastava also explained the GM Counter (Geiger Muller Counter) with alpha, Beta and Gamma – source and its characteristic graphs along with its properties. He also explained how GM Counter can be experimented with crystals like KCl, CsCl etc. He also brought some of the stones like carbon etc. He also told that even if the GM counter is switched off, there is still Radiation in the room. He also counted the radiation of the atmosphere which was 29 counts at that time. He told students about his research on Polonium. HOD, Physics Department Dr. Purna Bose, Dr. Jagjeet Kaur Saluja, Dr. Anita Shukla, Dr. R.S. Singh, Mrs. Siteshwari Chandrakar, Dr. Abhishek Kumar Misra grace their presence. All M.Sc. Students of Physics Department were present.



Photos during lecture