



Report on One Day National Seminar -Cum-Workshop on "Nanoscience, Nanotechnology and Advanced Materials"

Date of Event : 21.09.2021

Venue : Department of Pure and Applied Physics , GGV Bilaspur

One Day National Seminar-cum-Workshop

on

Nanoscience, Nanotechnology and Advanced Materials

September 21, 2021

Organized by

Department of Pure & Applied Physics

Guru Ghasidas Vishwavidyalaya
Bilaspur - 495009, INDIA

www.ggv.ac.in

About the University

Guru Ghasidas Vishwavidyalaya is a Central University of India, located in Bilaspur C.G. State, established under Central Universities Act 2009, No. 25 of 2009. Formerly called Guru Ghasidas University (GGU), established by an Act of the State Legislative Assembly, was formally inaugurated on June 16, 1983. GGU is an active member of the Association of Indian Universities and Association of Commonwealth Universities. It is situated in a socially and economically challenged area. The university is appropriately named to honor the great Satnami Saint Guru Ghasidas (born in 17th century), who championed the cause of the downtrodden and waged a relentless struggle against all forms of social evils and injustice prevailing in the society.

About the Department

Department of Pure and Applied Physics, one of the premier departments of University, was established in 1995. Since its inception, it has been actively involved in teaching and research activities. The department is having 18 teaching faculty. The diversity of the research areas of our faculty makes this department unique in itself. The department offers teaching and research programs in Experimental & Theoretical Condensed Matter Physics/ Materials Science, Experimental Nuclear Physics and Astrophysics. Department has also established a 3 MV high current pelletron accelerator facility. This facility makes us to stand in the national science picture as one of the emerging research department of the country.

About the Seminar-cum-Workshop

- To discuss proposed curriculum framework for PG program in Nanoscience, Nanotechnology and Advanced Materials.
- To discuss the updated cutting edge research especially the role of ion beams in Nanoscience, Nanotechnology and Advanced Materials.
- Discuss the various aspect of interdisciplinary research including physics, chemistry, life sciences, pharmacy and engineering.

Topics

The seminar-cum-workshop will cover the following frontier areas of Nanoscience, Nanotechnology and Advanced Materials -

- ✓ Functional nanomaterials and nanocomposites.
- ✓ Nano drug delivery and biomaterials
- ✓ Inorganic/Organic nanostructures
- ✓ Nanoelectronic/bioelectronics
- ✓ Nano crystalline thin films and its applications
- ✓ Nanomaterials for energy applications
- ✓ Nano structuring by Ion-beam
- ✓ Multiferroics materials
- ✓ Nanotechnology for life sciences

Contact Address

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Details of Event Proceedings

Date (DD-MM-YYYY)	Details of the Session	Details of Resource Person	Number of Participants
21-09.2021	Session -I	<p>Prof. N. L. Singh M.S. University of Baroda, Gujarat</p> <p>Prof. D. G. Kuberkar Saurashtra University, Gujarat,</p> <p>Prof. Tarasankar Pal University of Johannesburg, South Africa</p>	300(through hybrid mode)



	Session -II	Prof. Maya Nair University of North Texas, U.S.A. Prof. Neeraj Mishra, Amity University, MP, India	
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A Brief Abstract of the Event (Maximum 500 Words):

One day national seminar-cum-workshop on “Nanoscience, Nanotechnology and Advanced Materials” was organized by Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur-495009, India, on September 21, 2021 in hybrid mode. In this seminar-cum workshop, faculty members and research scholars of various departments including Physics, Chemistry, Life Sciences, Pharmacy, Biotechnology and Engineering were participated. There were five invited talks by well renowned scientists working in the area of nanoscience and nanotechnology. The Chief Guest Prof. N. L. Singh from M.S. University of Baroda, Gujarat, India, highlighted the importance of Nanoscience/Nanotechnology and also discussed the ion beam induced nanostructuring of polymer nanocomposite in his talk. The Guest of Honor Prof. D.G. Kuberkar from Saurashtra University, Gujarat, India, presented the current research activities of centre of nanotechnology and advanced materials, Saurashtra University, Gujarat, India. Prof. Tarasankar Pal, University of Johannesburg, South Africa explained the basic of nanoscience and nanotechnology. Prof. Maya Nair, University of North Texas, U.S.A. presented the use of nanoparticles for targeted drug delivery. Prof. Neeraj Mishra, Amity University, MP, India, gave talk on role of nanoscience and nanotechnology in pharmaceuticals. In this seminar-cum-workshop, the proposed curriculum framework for PG program in Nanoscience, Nanotechnology and Advanced Materials were discussed. Prof. D. G Kuberkar gave lot of suggestions to improve the proposed curriculum framework for PG program. All the suggestions/comments from Prof. N. L. Singh and Prof. D. G. Kuberkar have been noted.



21.09.2021