



**Report on National level workshop and competition for
Bioscience Students on
Novel Synthesis and Bio-functionlisation of Nanoparticles (GNPs,
AGNs) for Anticancer activity**

Date of Event : 03-04 September, 2019

Venue : Botany Department

**National level workshop and competition
for
Bioscience Students**

**on
Novel Synthesis and bio-functionlisation of nanoparticles
(GNPs, AGNs) for anticancer activity**



03-04 September, 2019

**Organised by
Botany Department
Guru Ghasidas Vishawavidyalaya, Bilaspur**

**In Association with SHAASTRA FEST
(IIT Madras Event)**

**Smart class room
Biotechnology Building
Botany Department, GGV, Bilaspur
Guru Ghasidas Vishwavidyalaya, Bilaspur**



Details of Event Proceedings

Date (DD-MM-YYYY)	Details of the Session	Details of Resource Person	Number of Participants
03-09-2019	Provided a theoretical information about history, synthesis methods, and characterization of nanoparticles in various fields	Mr. Sree Ram Joglakr, Defence Institute of applied research	47
04-09-2019	Learned how to synthesize gold, silver, copper, zinc, and iron nanoparticles in a laboratory. They also learn how to use these synthetic nanoparticles to evaluate the anticancer activity of nanoparticles and control the proliferation of cancer cells	Hands-on training by Mr. Sree Ram Joglakr, Defence Institute of applied research	47
04-09-2019	Covers the work done by the Botany department for the future and their technological issues with a focus on encouraging self-reliance and how to patent your expertise in this subject	Dr. SK Shahi, Botany Department, GGv, Bilaspur.	47



A Brief Abstract of the Event (Maximum 500 Words):

The workshop was held for students from various of departments, including botany, biotech, rural technology, zoology, and some students from department of microbiology and food processing, Atal Bihari Vajpayee University and microbiology Department of CMD College, Bilaspur. A total of 47 students were chosen from these departments based on their interest in this topic. The objective of the workshop was to offer detailed knowledge on the different application of nanoparticles in the field of pharmacology and other industries. Students get benefitted by this workshop as it gives the detailed information about synthesis method of nanoparticles and different characterization techniques. The workshop was conducted across two days, from September 03 to September 04, 2017. On the first day, the inauguration of the workshop was done by Prof. ML Naik Ex DG CGCOST was the Chief guest of the function presided by prof. BN Tiwary Dean SOS Life Science. The first session was engaged by Mr. Sree Ram Joglakr nanotechnology expert form defense Institute of applied research. Mr. Joglakr provided a theoretical information about history, synthesis methods, and characterization of nanoparticles in various fields. However, participants were given hands-on training on the second day, during which they learned how to synthesize gold, silver, copper, zinc, and iron nanoparticles in a laboratory. They also learn how to use these synthetic nanoparticles to evaluate the anticancer activity of nanoparticles and control the proliferation of cancer cells. The following session also covers the work done by the Botany department for the future and their technological issues with a focus on encouraging self-reliance and how to patent your expertise in this subject by Dr. SK Shahi. Additionally, this workshop generated allot of beneficial and practical ideas regarding the use and production of innovative nanoparticles. Through hands-on labs and lectures, participants also learned about the isolation, purification, and maintenance of nanoparticles. Meanwhile, this workshop understands the issues, gaps and actions which need to be clearly understood if we are to achieve make our students self-depended.



Inaugural Function of the Workshop on 03 September 2019

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Mr. Joglekar describing the methodology of nanoparticles synthesis during practical session on 03 September 2019

Bottom right: Test of workshop practical of the participants on 04 September 2019