

C.V.

1. **Name :** Dr. Vinod Kumar Singh
2. **Father's name :** Late Satish Prasad Singh
3. **Date of Birth :** 02-01-1964
4. **Gender:** Male
5. **Category:** GEN

6. Address:

Office:

Dr. Vinod Kumar Singh
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Residence: Flat no. 103, Block A, 180 Quarters
IIT (ISM) Dhanbad 826001

7. Educational Qualification:

M.Sc. (Physics), M. Phil., Ph.D.

8. Teaching Experience:

Six years of Teaching experience as Assistant Professor and more than 12 years as Associate Professor in IIT (ISM) Dhanbad8.

9. Area of Research:

Optical fiber sensors, Design and characterization of Photonic Crystal Fiber as various sensors

10. Ph. D. till date ::

(a) **Title of Ph. D. (Self)** – “X-ray Spectroscopic Investigations of Some Systems” (2000)

Sl. No.	Name of Student	Topic of Research	Year of passing
1.	S S Mishra	Photonic Crystal fiber and its application in Optical communication	Feb 2012
2.	Papiya Dhara	Investigations on design and characteriza-tion of Optical Fiber Sensors for Various Parameters	March 2017
3.	Rahul K Gangwar	Designing and Analysis of Photonic Crystal Fiber for various applications	July 2017
4.	Vanita Bhardwaj	Investigation on tapered optical fiber configurations for Multi- parameter sensing	March 2018
5.	Akhilesh Kr Pathak	To design and Characterize different types of Fiber Sensors	October 2019
6.	Moutusi De	Design and analysis of Photonic Crystal Fiber for sensing applications	July 2020
7.	Tulika Khanikar	Design and characterization of optical fiber sensors with simplified Configurations	March 2022
8.	Sugandha Das	Design and analysis of photonic crystal fiber sensors with simplified Configurations	Sept. 2022
9.	Pritam Kr Singh	Microwave and optical fiber sensor for mine surveillance system	January 2023
10.	Maya Chauhan	Design and Characterisation of Optical Fiber Sensors using bulk and nanostructured materials	August 2023

(b) Ten students have completed their Ph. D. till date:

(c) Currently guiding – Two more students for their Ph. D. degree

11. Project Completed:

Sl. No.	Title	Funding Agency	Amount in Lakh	Year
1.	Design of Photonic Crystal Fiber based Multi- parameter sensor	I S M Dhanbad	5.40	2008-10
2.	Photonic Crystal Fiber : Designing and characterization	University Grant Commission New Delhi	9.54	2011-14
3.	Well growth ZnO nano rods used to fabricate LSPR based optical fiber sensor to detect automobile fuel adulteration	SERB, DST New Delhi	20.73	2019-2022

12. National program organized in the Institute:

Sl. No.	Name of Programme organized	Position	Month/Year	Amount Sanctioned
1.	National Seminar on Photonics and Materials NASPAM	Co-convener	March 25-27, 2010	3.23 lakh
2.	Innovation in Science Pursuit for Inspired Research (INSPIRE) Science camp	Co-coordinator	April 6-10 2010	12.00 lakh
3.	INSPIRE Science camp	Co-coordinator	28 Dec-1 Jan, 2011	12.00 lakh
4.	INSPIRE Science camp	Co-coordinator	March 20-24, 2012	12.00 lakh

13. Courses Handled:

1. **Modern Physics** : 1st Yr. B. Tech.
2. **Waves and Oscillation** : 5 Yr. M. Sc. Integrated (APH, AGP, MAC), B. Tech. (Eng. Phy.) and M. Tech. Integrated AGP
3. **Atomic and Molecular Physics** : 2 Yr. M. Sc. (APH) and 4 Yr. B. Tech. (EP)
4. **Laser and Non linear Physics** : 2 Yr. M. Sc., 1 Yr. M. Phil. (APH), Ph. D.
5. **Photonics and Fiber Optics** : 1 Yr. M. Phil. (APH), IV M. Sc. (Physics), JRF
6. **Waves and Acoustics** : III B. Tech (Eng. Phy.) and III INT. M. Tech. (AGP)
7. **Nuclear Science and Engineering**: VI B. Tech. (Eng. Phy.)
8. **Nonlinear Optics** : M. Sc. (Physics), JRF (Physics)
9. **Laser Physics and Technology**: 5 Yr Engineering Physics
10. **Physics**: Preparatory student (IIT (Kgp), IIT (BHI), IIT(BBS), IIT (ISM)

14. Institute's work:

1. Chairperson Admissions (PG-PhD), IIT(ISM) from November'21 to November 2022
2. Vice- Chairman, GATE-JAM 2020 (IIT ISM) from September 2019 to October 2021
3. Member of a committee for short listing of recruitment of group C employee in 2019-2020
4. Warden of Diamond hostel and Amber hostel for five years (2010 to 2014)
5. Members M. Sc./ M. Sc. Tech Entrance examination for three years
6. Convener Srijan 2018 and Joint-convener Srijan for three years (2015, 2016 and 2017)
7. Observer ISM entrance exam. out of ISM Dhanbad for three years

8. Taken part very seriously to set up new mess system in ISM during the period of Warden Amber Hostel
9. Taken part as a one of the members for initial set up of swimming pool of student activity centre (SAC)

As on 04.04.2025