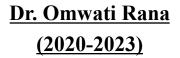


Dr.

Title

First



Last

Rana



2014

2007

2004

**Photograph** 

11010		Name	0 111 11 01 01	Name	1101101	1 motograpm
Designation		Assistant Professor				
Address		H.No. 67, Jindpur, P.O Mukhmelpur, Delhi-110036				
Office		Department of Physics , Daulat Ram College, University of Delhi			College,	
Residence		-				The second second
Mobile No.		9891514815				
Email - ID		omwatirana@dr.du.ac.in				E
Web Page		-				
Educational Qualification						
Degree		Institutio	n			Year
Dh D ( Dhygieg)		Jointly CS	SIR-National Physical La	aboratory, De	lhi. Jamia	2014

**Omwati** 

### **Career Profile**

Physics

Ph.D (Physics)

1. Assistant Professor (Permanent), Daulat Ram College, University of Delhi, from 03.10.2022 till date.

University of Delhi

University of Delhi

2. Assistant Professor (Adhoc), Daulat Ram College, University of Delhi, from 26.08.2013-02.10.2022 (9Years)

Millia Islamia Central University, Delhi, India

- 3. Senior Research Fellow(SRF), CSIR-National Physical Laboratory Delhi, from 27.06. 2011-26.06. 2013
- 4. Junior Research Fellow(JRF), CSIR-National Physical Laboratory Delhi, from 26.06.2008-26.06. 2011

#### **Administrative Assignments**

Masters of Science (Physics)

Bachelor of Science (H)

Member of various committees: Admission Committee(2020-2023), Teaching Program Committee (2021-2022), Physics Association Incharge(2022-2023), Library committee(2022-2023), Students Amenities Committee(2020-2023), Admission grievance committee (2021-2023), Hostel Committee(2021-2023)

## **Areas of Interest / Specialization**

Charge transport in Organic Semiconductors: Small molecules and Polymers (OLEDs)/Solid State Physics

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Solid State Physics, Digital, Analog and Instruments, Embedded Systems: Introduction to Microcontrollers, DSC-Communication System, Electromagnetic Theory, Quantum Mechanics and its application, SEC-Basics Instrumentation skill, SEC-Programming with Python

### Research Guidance

NA

## **Publications Profile (in last three years)**

- 1. "Fourier Coefficients and Analysis of Generation of Square wave function, Triangle Wave Function & Sawtooth wave function generation using Scilab" **Wisdom of Scientific Research, International Book of Multidisciplinary Studies**" by Rubicon Publication, Edition 1(2021) ISBN: 978-93-91479-24-4, Paperback ISBN: 978-1-913482-29-9.(Book Chapter)
- 2. "Generating Multiple waves and addition of Multiple waves using SCILAB XCOS" chapter published in peer reviewed edited book entitled "**Research Trends in multidisciplinary Subjects: Volume 4"** published by Red Shine Publication in edited book(2021) ISBN: 978-93-91479-24-4, ISBN-10: 9-39-147924-3
- 3. "Comparison Of The Results Of Differential Equations By Ordinary Method And Euler's Method Using Scilab" Vidyabharati International Interdisciplinary Research Journal (Special Issue) ISSN 2319-4979, special Issue, 2021, pp126-128
- 4. "The Matrix Formulations And Algebraic Equations Using Scilab". **Journal**: National Journal of Environment and Scientific Research, 2021, ISSN-2582-5836

# Conference Organization / Presentation / Attended(in the last three years)

 Organising team Member in 4-Week Faculty Induction Programme(FIP) Jointly Daulat Ram College and Guru Angad Dev Teaching learning Centre, SGTB Khalsa College under PMMMNMTT of Ministry of Education (Online Mode) form from 25 Feb-27 March, 2023

Attended "Two- Week Refresher Course in 'Physics' from Ramanujan College, DU and PMMMNMT of Ministry

- Education(Online mode) from 27 Feb.-13 March, 2023

  "4-Week Faculty Induction Programme" FIP from Ramanuian College, DIJ and PMMMNMT of Ministry of
- "4-Week Faculty Induction Programme" FIP from Ramanujan College, DU and PMMMNMT of Ministry of Education(Online mode) (Online Mode) from 20 Jan-18 Feb, 2023.
- One week Online National FDP "Python: Essentials, Programming and Analytics" University of Delhi and Guru Angad Dev Teaching learning Centre, SGTB Khalsa College and PMMMNMTT of Ministry of Education, (Online Mode) from 27 Oct-03 Nov 2022.
- Attended and Organising member, Online lecture series on "Understanding Physics: Basics and Beyond" (Online Mode) from 12th and 19th Jan, 2022.
- Resource person and Member of organizing committee, in Workshop on "Enhancing Programming Skills With Python and XCOS" (Online Mode) 13th-14th Jan 2022.
- Co-ordinator of Two Days SDP "Two Days In-House Skill Development Program (E-SDP) On Enhancing
- Online Learning Through ICT Tools" (Online Mode) Physics Department, Daulat Ram College, 26-27 Nov. 2022
- Member of Organizing Committee, Webinar on "Photonics for Energy, conversion and conservation" 13th Sep 2021(Online Mode)
- E-FDP, "Empowering Teaching Learning Process using Google Classroom and other ICT Tools: A Comprehensive Practical Approach", Commerce Department, Daulat Ram College, University of Delhi, Delhi, India (Online Mode) from 21-23 July, 2020.
- Member of Organizing team, "Webinar on Art and Science of Mentoring" Physics Department, Daulat Ram College, University of Delhi, Delhi, June 1, 2020. (Online Mode)

### **Association with Professional Bodies**

Life Member, Indian Association of Physics Teachers (IAPT).

#### Other Activities

Evaluator, NAEST-2021 and NAEST-2022, National Anveshika Experimental Skill Test (2021,2022)

Evaluator, Vidyarthi Vigyan Manthan and Daulat Ram College(08.01.23),

Organise Educational Trips to CSIR-National Physical Laboratory, New Delhi for Students