

## BIODATA (Dr. R. S. SINGH)

Name : Dr. Rama Shankar Singh  
D.o.B. : 09/07/1963  
Educational Qualification : M.Sc (Physics), Ph.D.  
Designation : Prof. in Physics  
Father's Name : Late Shri Ram Ekbal Singh  
Employee Code : 10380080011



**Member of Board of Studies at Pt. R. S. University, Raipur :** from 01/06/2002 to 31/05/2005  
(order no. 2559-6/Acad./2002, Raipur, dated 01/06/2002).

**Member of Board of Studies at Durg University, Durg :** from August 2016 till date.

**Member of Academic Council at Durg University, Durg :** from 06/01/2018 till date.

### Research Project/s completed :

Sl. No.	Major or Minor Project	Funding Agency	Principal Investigator/Co-Investigator	Title of the Project	Amount (in Rs.)	Tenure (from/to)
1.	Minor Project F. MS - 56/202024/09-10/CRO	UGC	Principal Investigator	<i>“Structural and luminescence studies of chemically deposited rare-earth doped CdS-Se films”</i>	100000/=	2010-12
2.	Major Project F. No. : 40-99/2011(SR)	UGC	Co-Investigator	<i>“Studies on some chemically deposited nanocrystalline films doped with transition and rare-earth metallic ions”</i>	1000000/=	2011-14

### Ph.D. (awarded) Students :

Sl. No.	Name of Student	Title of Thesis	Name of University	Date of Ph.D. Notification
1.	Smt. Ritu Shriastava	<i>Investigations on nanocrystalline and bulk properties of some chemically deposited lanthanide doped (Cd-Zn)S films</i>	Pt. R. S. University, Raipur	07/07/2016

2.	Rishi Jaiswal	<i>Studies on the effect of interfacial barriers on the characteristics of bilayer organic light emitting diodes</i>	Pt. R. S. University, Raipur	11/12/2017
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**Ph.D. Students, whose Thesis has been submitted :**

Sl. No.	Name of Student	<i>Title of Thesis</i>	Name of University	Date of submission of Ph.D. Thesis
1.	Kanchana Shahi	Synthesis and characterization of zinc oxide nano-wires for hetro-junction LEDs	Pt. R. S. University, Raipur	04/09/2018

**Service Details :**

Details	Post held	Date of joining	Order No.	Other Remarks
Service joining at Govt. College Gadarwara, Narsinghpur (M.P.)	Asstt. Prof. (Physics)	29/09/1993	Posting Order No. F-1/115/93/A-1/38, Bhopal, dt:20/09/1993.	
Govt. D.T. College Utai, Durg (C.G.)	Asstt. Prof. (Physics)	09/05/1994	Transfer Order No. F-1/55/94/A-1/38, Bhopal, dt:03/04/94.	Relieved from Govt. College Gadarwara on 07/05/1994 & joined Govt. College Utai on 09/05/1994.
Govt. L.C.S.College, Ambagarh Chowki, Rajnandgaon (C.G.)	Prof. (Physics)	01/09/2016	Promoted from Asstt. Prof. to Prof. vide Order No. F 1-20/2013/38-1, C.G.Govt., Naya Raipur, dt : 19/08/2016	Relieved from Govt. D.T. College, Utai, Dist- Durg on 31/08/2016 & joined Govt. L.C.S. College, Ambagarh Chowki, Dist : Rajnandgaon on 01/09/2016.
Govt. V.Y.T.P.G. Aut. College, Durg	Prof. (Physics)	01/10/2018	Transfer Order No. F 1-15/18/38-1, Bhopal, dt:01/10/18.	Relieved from Govt. L.C.S. College, Ambagarh Chowki, Dist : Rajnandgaon on 01/10/2018.

## Research Projects/Publications :

<i>Projects / Name of Journal, etc.</i>	<i>F. No. of Project / Title of Paper</i>	<i>Volume &amp; Page Nos.</i>
<b>Chalcogenide Letters Romania (ISSN 1584-8663 &amp; IF = 0.688)</b>	Photoconductivity and photoluminescence studies of chemically deposited Cd(S-e):CdCl <sub>2</sub> ,Dy films	Vol. 5, No. 12, December 2008, p. 377 – 388.
<b>Bulletin of Material Science, Springer-India (ISSN 0250-4707 &amp; IF = 0.852)</b>	Structural and optical properties of chemically deposited Cd(S–Se) : CdCl <sub>2</sub> , Sm films	Vol. 32, No. 2, April 2009, p. 125–133.
<b>Journal of opto-electronics and advanced materials</b>	Photoluminescence and photoconductivity in lanthanide doped chemically deposited CdS-Se films	Vol. 11, No. 12, 2009, p. 2115-2119.
<b>Chalcogenide Letters Romania (ISSN 1584-8663 &amp; IF = 0.688)</b>	Studies on nano-crystalline properties of chemically deposited CdSe films	Vol. 7, No. 6, June 2010, p. 375-381.
<b>Journal of Ovonic Research Romania (ISSN 2605-6874)</b>	Characterization and optical studies of Sm <sup>3+</sup> and Dy <sup>3+</sup> doped chemically deposited CdS-Se films	Vol. 6, No. 6, September 2010, p. 211 – 219.
<b>Journal of Non-Oxide Glasses Romania (ISSN 1584-8663)</b>	Structural and optical studies of chemically deposited CdS-Se films	Vol. 2, No 3, 2010, p. 135 – 141.
<b>Journal of Optoelectronics and Advanced Materials</b>	Structural and optical studies on Pr <sup>3+</sup> doped chemically deposited Cd(Se-S) films	Vol. 12, No 11, Nov 2011, p.2221 – 2225.
<b>Digest Journal of Nanomaterials and Biostructures (ISSN 1842-3582 &amp; IF = 1.75)</b>	Characterization and optical properties of CdSe nano-crystalline thin films	Vol. 6, No 2, April-June 2011, p. 433 – 442.
<b>Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry (Taylor &amp; Francis) (ISSN: 1553-3174 print / 1553-3182 online)</b>	Synthesis and characterization of chemically deposited nano-crystalline CdSe thin film	Vol. 41, Dec 2011, p. 1346–1350.
<b>Research on Chemical</b>	Synthesis and effect of post deposition thermal	Res Chem Intermed

<b>Intermediates (Springer) (ISSN 0922-6168)</b>	annealing on morphological and optical properties of ZnO thin film	38 (8), 2012, p. 2041-2049.
<b>International Journal of Advancements in Research &amp; Technology (IISN )</b>	Optical Characterization of the (Cd-Zn)S:CdCl <sub>2</sub> Thin Film Deposited by CBD Method	IJART 2 (9), 2013, p. 152-158.
<b>Research on Chemical Intermediates (Springer) (ISSN 0922-6168)</b>	Growth and characterization of nano-crystalline CdSe thin solid films	Res Chem Intermed 41, 2013, p. 535-548.
<b>Journal of Saudi Chemical Society (ISSN )</b>	Structural, morphological and optical studies on chemically deposited nano-crystalline CdZnSe thin films	Journal of Saudi Chemical Society 18(4), 2014, p. 327-339.
<b>Journal of Saudi Chemical Society (ISSN )</b>	Facile synthesis of flat crystal ZnO thin films by solution-grown method : A micro-structural investigation	Journal of Saudi Chemical Society 18(5), 2014, p. 712-721.
<b>Journal of Alloys &amp; Compounds</b>	Cu-implanted ZnO nano-rods array film : An aqueous synthetic approach	Journal of Alloys & Compounds 618, 2015, p. 421-427
<b>Material Research Express (iop science)</b>	Characterization of CdZnS thin film grown by using different capping agents	Mater. Res. Express 2,3,2015.
<b>Optik - International Journal for Light and Electron Optics - Elsevier</b>	Studies on structural, morphological and optical behavior of chemically deposited Cd <sub>0.5</sub> Pb <sub>0.5</sub> S thin films	Optik - International Journal for Light and Electron Optics – Elsevier, 126,20, 2015, 2311-2317.
<b>Indian Journal of Physics-Springer</b>	Synthesis and characterization of cerium-doped CdZnS nanoparticles	Indian Journal of Physics, 89, 11,2015,1153-1159.
<b>International Journal of Advanced Engineering Research and Studies (E-ISSN2249–8974)</b>	Studies on some chemically deposited Cd(Se-S) nano-crystalline thin films	Int. J. Adv. Engg. Res. Studies,IV,II,2015, 275-277.
<b>International Science Journal- DAMA International</b>	Electroluminescence efficiency of bilayer organic light emitting diodes Electroluminescence efficiency of bilayer organic light emitting diodes Electroluminescence efficiency of bilayer organic light emitting diodes	International Science Journal,2,2015,29-32.
<b>International Journal of Advanced Research in Science &amp;</b>	Organic Solar Cells : Principles, Mechanism & Recent Developments	IJARSE,4,2015,171-175.

<b>Engineering- IJARSE</b>		
<b>International Journal of Luminescence and Applications- Elsevier</b>	Effect of interfacial barrier on the transient response of bilayer organic light emitting diodes	International Journal of Luminescence and Applications,5,2015,451-453.
<b>International Journal for Research in Applied Science &amp; Engineering Technology (IJRASET)</b>	Electron-Hole Recombination Near the Interface of Bilayer OLEDs	International Journal for Research in Applied Science & Engineering Technology (IJRASET),5,XII,2017,71-75.
<b>International Journal for Research in Applied Science &amp; Engineering Technology (IJRASET)</b>	An Innovative Approach For Recombination Efficiency In Bilayer OLEDs	International Journal for Research in Applied Science & Engineering Technology (IJRASET),5,XI,4027,4031.
<b>International Journal for Research in Applied Science &amp; Engineering Technology (IJRASET)</b>	Optical and Structural Properties of Zinc Oxide Nanowires Fabricated by Hydrothermal Method	International Journal for Research in Applied Science & Engineering Technology (IJRASET),4,5,2017,715-719.
<b>Applied Physics A Materials Science &amp; Processing- Springer-Verlag GmbH Germany, part of Springer Nature 2018</b>	CdTe quantum-dot-modified ZnO nanowire heterostructure	Applied Physics A Materials Science & Processing,124,2018,277-281.
CCET Journal of Science and Engineering Education	'A Review on Fabrication of Polymer/ZnO Nanowires Hetero-junction Based Light Emitting Diode by Wet Chemistry Method'	

**Conference/Seminar/Short Term Course/Workshop :**

<b>Name of Conf./Seminar/Short Term Course/Workshop</b>	<b>Paper/s presented</b>	<b>Proceedings details, if any</b>	<b>Period</b>
<b>Indo-US Workshop on "Elliptical Galaxies : Structure &amp;</b>			<b>23/11/1995 to</b>

Dynamics” (held at IUCAA Pune, Maharashtra)			07/12/1995
Workshop on ‘Astronomical Image Processing & Internet” (held at Univ. of Kerala Thiruvananthapuram, Kerala)			20/12/1996 to 24/12/1996
Workshop on “Dynamics at the centre of Galaxies” (held at IUCAA Pune)			03/07/1997 to 05/07/1997
State Level Seminar on “Modern developments in Information Technology” (held at St. Thomas college Bhilai)			21/09/1998 to 22/09/1998
State Level Seminar-cum-Workshop on “Frontiers in Electronics” (held at St. Thomas College Bhilai)			12/12/2003 to 13/12/2003
Short Term Course on “Maintenance of Electronic Instruments” conducted by Western Regional Instrumentation Centre (WRIC) Mumbai (held at Pt. R. S. Univ. Raipur)			04/10/2004 to 09/10/2004
National Workshop on “Scientific & Technological Shabdawali” conducted by MHRD New Delhi (held at Kalyan College Bhilai)			04/11/2008 to 06/11/2008
National Cof. on “Recent Advances in Nanoscience & Nanotechnology” [NCRANT-2009] (held at SSCET Bhilai)	01		12/01/2009 to 13/01/2009
National conf. on “Luminescence and its Applications” (NCLA-2009) (held at Indian Association for the Cultivation of Science Kolkata, W. Bengal)	02	(i) PT 1-7 (ii) p. 49-52	19/02/2009 to 21/02/2009
National Workshop on “Physics & Applications of Luminescence to Nanoscience, Radiation Dosimetry & Geology” [NWPAL-2009] (held at SSCET Bhilai)	01		03/12/2009 to 04/12/2009
International Conf. on “Luminescence and its Applications”- ICLA at PES Uni., Banglore		(i) 010, p.10 (ii) 122, p. 118	09/12/2015 to 12/12/2015
International Conf. on “Recent Trends in Science and Engineering”- ICRTSE at Govt. V.Y.T.P.G. Aut. College, Durg (C.G.)		(i) 26, OP-17, p.14 (ii) 47, OP-38, p.25	15/01/2016 to 16/01/2016
Short Course in Organic Electronics (held at IIT Kanpur, U.P.)			05/07/2010 to 10/07/2010

UGC sponsored “करियर निर्माण में भौतिक शास्त्र की उपादेयता” at Govt. D.T. College Utai, Durg (C.G.)			29/09/2016 to 01/10/2016
UGC sponsored “Fundamentals of Particle Physics – The Standard Model” at Govt. Digvijay P.G. College, Rajnandgaon (C.G.)			08/11/2016
National workshop on “Entrepreneurships in renewable energy technologies for Chhattisgarh tribals” at Pt. R. S. Univ., Raipur (C.G.)			19/09/2016 to 24/09/2016
National Conference - poster presentation on “Effect of interfacial barriers on the recombination efficiency in bilayer OLEDs” at ICT-Hyderabad & MGNIRSA Hyderabad			09/01/2017 to 11/01/2017
National Conference - paper presentation on “Electron transport in quantum dots” at Bhilai Institute of Technology, Durg (C.G.)			28/03/2017
National Conference - paper presentation on “Synthesis and characterization of MEHPPV and ZnO Nanowires hetrojunction for Light emitting diodes” at Digvijay P. G. College , Rajnandgaon-NSAAPS			29/01/2018
National Conference - paper presentation on “Curved phase spaces and Quantum Relativity” at Digvijay P. G. College , Rajnandgaon-NSAAPS			29/01/2018