Interdepartmental and Inter-institutional collaborative activity – Dr. Sanjay Tiwari, Professor, School of Studies in Electronics & Photonics, PRSU, Raipur

S. No.	Type of Collaboration	Collaboration with	Sponsors [Amount]	Output
1.	**Doctoral research** Title: Characterization and suitability of various doping reagents in Optical fibers	Barkatullah University, Bhopal	-	PhD degree awarded to Roli Shukla in 2003
2.	**Doctoral research** Title: Studies on ZnS: Mn based AC thin-film electroluminescent devices	M.P.Bhoj (Open) University, Bhopal	-	PhD degree awarded to Rameshwar Tiwari in 2013
3.	**Doctoral research** Title: Preparation, characterization and Simulation of ACTFEL devices	SoS in Physics & Astro Physics	-	PhD degree awarded to Nawab Qureshi in 2010
4.	**Doctoral research** Title: Innovative Approaches to the applied aspects of certain Organic Devices	National Institute of Technology ,Raipur	-	PhD degree awarded to V.K.Chandra in 2009
5.	**An Academic Collaboration (MoU)**	University of California, Santa Cruz (UCSC) USA		An academic Collaboration (MoU) has been signed between Department of Physics , University Of California, Santa Cruz (UCSC) USA and School Of Studies In Electronics Pt Ravishankar Shukla University, Raipur (C.G.) India on June 21,2011 during to recognize the value of educational, cultural, and scientific exchanges between two Universities and give students the opportunity to have experience in learning out in the upcoming fields and conduct research on state of art equipments and lab facilities.
6.	**R&D Project** Title: Fabrication and modeling of PbS/TiO2 Quantum Dot Photovoltaic devices	University of California, Santa Cruz and IBM Almaden Research Centre, San Jose	**US Fulbright Foundation**) and USIEF	Manpower trained: Two Publication: Optical simulation of quantum dot thin film solar cell S. Tiwari, S Carter, JC Scott IEER Proc. Recent Advances in Photonics (WRAP)
7.	**R&D Project** Title: Development and Simulation of Device characteristics of Polymer Devices	University of Cambridge, Cambridge, UK	**UKIERI &** British Council	Manpower trained: One Publication: Numerical Simulation of Single Layer Polymer Light-Emitting Diodes Springers Journal of Quantum and Optical Electronics Volume 40, Issue 14 (2009), Page 1267

8.	**R&D Project** Title: Optical modelling of P3HT: PCBM & PBDTTBD:PCBM BHJ Solar cells.	Technical Physics Division, BARC, Mumbai	INSA Academy Fellowship	Manpower trained: 2
9.	**Conference/ Symposium Organized** Title: National Workshop on Operation & Maintenance of Lab Equipments (2015)	Western Regional Instrumentation Center, Mumbai University, Mumbai	-	Jan 19-23,2015; Attended by 65 participants
10.	**Conference/ Symposium Organized** Title: National Conference on Recent Trends in Photonics	USIEF,UKIERI and VIBHA	-	12^{th}-14^{th} MARCH, 2014; The conference attended by nearly 20 renowned Speakers and 200 dedicated participants in the field.
11.	**Conference/ Symposium/Workshop Organized** National Workshop on Robotics ROBOHUNK'15 Coordinator Dr Sanjay Tiwari	IIT Bhuvaneshwar		12th-13th Jan 2015 Trained 58 participants from different educational institutions NIT,MATS University, BITS, Govt Science College, Durg & PRSU
12.	**Conference/ Symposium/Workshop Organized** National Workshop on Quadcopter jointly with Coordinator Dr Sanjay Tiwari	IIT New Delhi		29^{th}-30^{th} March,2015 Trained 45 participants from different educational institutions NIT,MATS University,BITS,Govt Science College, Durg & PRSU
13.	**Joint Publications** Authors: Sanjay Tiwari , Neil Greenham & D Kabra (2009)	University of Cambridge, Cambridge, UK	UKIERI & British Council	Numerical Simulation of Single Layer Polymer Light-Emitting Diodes Springers Journal of Quantum and Optical Electronics Volume 40, Issue 14 (2009), Page 1267
14.	**Joint Publications** Authors: Sanjay Tiwari , Neil Greenham (2009)	University of Cambridge, Cambridge, UK	UKIERI & British Council	Charge Mobility Measurement Techniques in Organic Semiconductors Optical and Quantum Electronics Springer Science Volume 41, Number 2 ,2009 69-89
15.	**Publications** Authors: Sanjay Tiwari	University of Cambridge, Cambridge, UK	UKIERI & British Council	Electroluminescence response in polymer light-emitting diodes International Journal of Electronics Taylor & Francis Volume 98, Number 2, February 2011 , pp. 263-270(8)
16.	**Joint Publications** Authors: Sanjay Tiwari & Jatinder Yakhmi [2014]	Bhabha Atomic Research Center, Mumbai	INSA Academy Fellowship	Recent Advances in Luminescent Nanomaterials for Solid State Lighting Luminescence Related Phenomena and its Applications, Trans Tech Publications (TTP), Switzerland, 2014
17.	**Joint Publications** Authors: D Dhire , Sanjay Tiwari& H.S. Tiwari	GGU, Bilaspur	MHRD	Enhanced luminance efficiency of polymer light emitting diode by blending with ionic solid electrolytes Ionics, Springer, 25.07.2007, vol. 13, no.

				5, pp. 319-321
18.	**Joint Publications** Authors: Sanjay Tiwari,Sue Carter & J. Campbell	University of California, Santa Cruz and IBM Almaden Research Centre, San Jose	US Fulbright Foundation) and USIEF	Optical Simulation of Quantum Dot thin film solar cells Scott IEEE conference proceeding,2014
19.	**Joint Publications** Authors: Uzma B. Memon, U. Chatterjee, M.N. Gandhi, S. Tiwari, Siddhartha P. Duttagupta	IIT Mumbai		Synthesis of ZnSe quantum dots with stoichiometric ratio difference and study of its optoelectronic property, Procedia Materials Science (2014) Elsevier2211-8128
20.	**Joint Publications** Authors: S Mishra, A Khare, DS Kshatri, S Tiwari	National Institute of Technology ,Raipur		Structural and optical properties of SrS nanophosphors influenced by Ce 3+ ions concentrations and particle size reduction Superlattices and Microstructures 86, 73-85,2015
21.	**Joint Publications** Authors: S Mishra, DS Kshatri, A Khare, S Tiwari	National Institute of Technology ,Raipur		Thermoluminescence studies of Ce 3 doped nanocrystalline srs phosphor Int. J. Adv. Engg. Res. Studies/IV/II/Jan.-March 282, 284
22.	**Joint Publications** S Mishra, A Khare, DS Kshatri, S Tiwari	National Institute of Technology ,Raipur		The effects of Ce 3+ doping on the structural and optical properties of SrS nanoparticles synthesized by solid state diffusion method Materials Science in Semiconductor Processing 40, 230-240
23.	**Joint Publications** Authors: S Tiwari, AS Gour, VK Jogi, BP Chandra	SoS in Physics & Astro Physics		A new theory of the photoplastic effect in coloured alkali halide crystals Journal of optoelectronics and advanced materials 12 (9), 1840-1851
24.	**Joint Publications** N Rajput, S Tiwari, BP Chandra	Deptt of Physics Rani Durgavati University, Jabalpur		Temperature dependence of pulse-induced mechanoluminescence excitation in coloured alkali halide crystals, Bulletin of Materials Science 27 (6), 505-509,2004
25.	**Joint Publications** Authors: Sanjay Tiwari ,Namita Rajput & BP Chandra:	Deptt of Physics Rani Durgavati University, Jabalpur	UGC MRP	Mechanoluminescence produced during impulsive deformation of coloured alkali halide crystals Indian Journal of Physics Vol. 78 l No. 7 l July 2004
26.	**Joint Publications**	Deptt of Physics		Pulse-Induced Mechanoluminescence in Coloured

	Authors: Sanjay Tiwari ,Namita Rajput	Rani Durgavati University, Jabalpur		Alkali Halide Crystals ISBN-13: 978-3639702583
27.	**Joint Publications** Dr. Sanjay Tiwari Mr. N.N. Rao, Mr. K.K. Mahajan Dr. VIVEK KANT JOGI	Western Regional Instrumentation Centre, Mumbai University, Mumbai	UGC, CGCOST	Physics Manual for Workshop on Operation & Maintenance of Laboratory Equipments
28.	**Joint Publications** Dr. Sanjay Tiwari Mr. N.N. Rao, Mr. K.K. Mahajan Dr. V.K. JOGI	Western Regional Instrumentation Center, Mumbai University, Mumbai	UGC, CGCOST	Physics Manual for Workshop on Operation & Maintenance of Laboratory Equipments
29.	**Joint Publications** Dr. Sanjay Tiwari Mr. N.N. Rao, Mr. K.K. Mahajan Dr. V.K. JOGI	Western Regional Instrumentation Center, Mumbai University, Mumbai	UGC, CGCOST	Safety Manual for Workshop on Operation & Maintenance of Laboratory Equipments
30.	**M.Tech. Project** Sanjay Tiwari	Raja Ramanna Center for Advanced Technology,Indore		awarded M.Tech Optoelectronics & Laser Technology with project on Design of Data Acquisition System for Multiple MEMS sensors
31.	**M.Tech. Project** Sanjay Tiwari Dr M.V.N.Prasad	LPSC,ISRO, Bangalore		Kshma Soni awarded M.Tech Optoelectronics & Laser Technology with project on Design of Data Acquisition System for Multiple MEMS sensors
32.	**M.Tech. Project** Sanjay Tiwari	Raja Ramanna Center for Advanced Technology,Indore		Suveer kumar Ravi awarded M.Tech Optoelectronics & Laser Technology with project on Effect of Electron Beam Irradiation on Polymethyl Methacrylate Films
33.	**M.Tech. Project** Sanjay Tiwari Dr R.K.Singh	MATS University, Raipur		M Kumar Swamy awarded M.Tech Optoelectronics & Laser Technology with project Structural Magnetic and transport properties of half doped maganites and optoelectronic applications

34.	**M.Tech. Project** Sanjay Tiwari	Raja Ramanna Center for Advanced Technology,Indore	Vijay Kumar awarded M.Tech Optoelectronics & Laser Technology with project Growth & Investigation of Ruthenium doped LinbO3 crystals for Optoelectronic applications