

# *Curriculum Vitae (CV)*

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**D. O. B. : 28<sup>th</sup> April, 1979**

## *Academic Qualification:*

Name of the examination/Degree	Subjects	Area of specialization	Name of Institute/University/ Board	Year of passing	Percentage/ Grade
Madhyamik (10)	Beng., Eng., Math, Phys. Sc., Life Sc., Hist., Geo,	Special Paper : Biology	W. B. B. S. E., W. B., India	1995	83 %
Higher Secondary (10 + 2)	Beng., Eng., Phys., Chem., Math, Biology		W. B. C. H. S. E., W. B., India.	1997	76.4 %
Bachelor of Science	Physics (Hons.), Math, Comp. Sc.		University of North Bengal, W. B., India	2000	59.75 %
Master of Science	Physics		University of North Bengal, W. B., India	2002	69.2 %
GATE	Physics		Conducted by I. I. Ts'	2002	83.03 percentile, All India Ranking: 0351.
Ph. D.	Physics	Experimental Condensed Matter Physics	Indian Institute of Technology Kharagpur, Kharagpur, W. B., India.	2008	

## ***Employment History (including post-doc) :***

<b>Period (Year)</b>		<b>Name of the examination/Degree/ Post as applicable</b>	<b>Area of specialization/ Subjects</b>	<b>Name of Institute/ University/</b>	<b>Number of Journal Publications</b>
04/05/2018	<i>Present</i>	Associate Professor	Physics	Kazi Nazrul University Asansol	<b>44</b>  <i>(Total Citations = 756, h-index = 13, i10-index = 18)</i>
01/03/2016	03/05/2018	Assistant Professor	Physics	Kazi Nazrul University Asansol	
12/08/2013	29/02/2016	Assistant Professor	Physics	National Institute of Technology Agartala, Tripura	
July, 2012	August, 2013	Post Doctoral Researcher	Magnetism, Organic Spintronics	UGC-DAE Consortium For Scientific Research, Indore, India	
October, 2008	September, 2011	CNRS Post Doctoral Research Fellow	Spintronics, Hybrid Inorganic-Organic Interface study	IPCMS, CNRS, Strasbourg, France	
January, 2007	September, 2008	CSIR Senior Research Fellow	Magnetism and Magnetic Materials	Indian Institute of Technology Kharagpur, W. B., India	

***Area of Interest :*** **a.** Organic Spintronics; **b.** Organic Photodetector; **c.** Multiferroic Nanocomposites; **d.** Multifunctional Nanostructured Oxides **e.** Ultra-thin Ferromagnetic film.

## ***Research :***

**No. of articles publications in Referred Journals:** **44**

**Citations : 756**

**h-index : 13**

**i10-index : 18**

**Website : Google Scholar Citation**

## ***Publications :***

### ***Books Published :***

[1] "Spintronics For Beginners" [ISBN No. - 978-3-639-66375-4] by **P. Dey** and S. K. Mandal, *Scholars' Press*, Saarbrücken, Germany, (2014).

[2] "Physics of Oxide Materials For Spintronics" [ISBN No. - 978-3-639-51305-9] by S. K. Mandal, **P. Dey** and T. K. Nath, *Scholars' Press*, Saarbrücken, Germany, (2013).

***List of Publications (International Journal) relevant to the project :***

**(Total Publications in International Journals = 48 ; Total Citations = 878, h-index = 14, i10-index = 21)**

[1] Photocurrent generation under forward bias with interfacial tunneling of carrier at Pentacene/F<sub>16</sub>CuPc heterojunction photodetector by Debarati Nath, **Puja Dey**, Aneesh M Joseph, Jayanta Kumar Rakshit and Jitendra Nath Roy, *Journal of Alloys and Compounds* **815**, 152401 (2020).

[2] Zero bias high responsive visible organic photodetector based on Pentacene and C<sub>60</sub> by Debarati Nath, **P. Dey**, Aneesh M Joseph, J. K. Rakshit and J. N. Roy *Optics and LASER Technology* (under review).

[3] Effect of interface on temperature dependent magnetoresistance and room temperature magnetoimpedance of La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> / Polyvinyl Alcohol Nanocomposites, by D. Deb, R. Debnath, S. K. Mandal, A. Lakhani, A. Nath, **P. Dey**, *Physica B: Condensed Matter* **582**, 411962 (2020).

[4] Modeling of Temperature-Dependent Sign Reversal of Magnetoresistance in 99.95% La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> - 0.05% Paraffin Wax Nanocomposite: The Role of Pinning Center at Intergrain Defect Site by D. Deb and **P. Dey**, *Physica Status Solidi (b)*, doi: 10.1002/pssb.201900402 (2019).

[5] Interface driven electrical and magneto-transport properties of (100-x)% La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> - x% Paraffin wax ( $0 \leq x \leq 1$ ) hybrid nanocomposites by Debajit Deb, Sanjay K. Mandal, Archana Lakhani, Aparna Nath, and **Puja Dey**, *The European Physical Journal B*, **92** 165 (2019).

[6] Magnetically tunable alternating current electrical properties of (100-x)% La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> - x% paraffin wax(0.05\_x\_1.0) hybrid nanocomposites, D. Deb, Rajesh Debnath, S.K. Mandal, A. Nath, **P. Dey**, *Journal of Alloys and Compounds* **776**, (2019) 71-82.

[7] Light tuning DC and AC electrical properties of ZnO-rGO based hybrid nanocomposite film, Debarati Nath, S. K. Mandal, Debajit Deb, J. K. Rakshit, **P. Dey**, and J. N. Roy, *Journal of Applied Physics* **123**, 095115 (2018).

[8] Optical, electrical properties and structural characterization of ZnO:rGO based photodetector, Debarati Nath, S. K. Mandal, Debajit Deb, J. K. Rakshit, **P. Dey** and J. N. Roy, *AIP Conference Proceedings* **1942**, 080006 (2018).

[9] Sign reversal of spin-polarized tunnelling magnetoresistance in 99.95% La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>-0.05% Paraffin wax nanocomposite: An effect of spin-flip scattering at intergranular Paraffin wax interface, **P. Dey**, D. Deb, Rajesh Debnath, S.K. Mandal, Archana Lakhani, T.K. Nath, J.N. Roy, A. Nath, *Journal of Magnetism and Magnetic Materials* **468**, (2018) 85–90.

[10] Fabrication and characterization of organic semiconductor based photodetector for optical communication, Debarati Nath, **Puja Dey**, Debajit Deb, Jayanta Kumar Rakshit and Jitendra Nath Roy, SPECIAL ISSUE VISVESVARAYA 2016 OF CSIT, DOI 10.1007/s40012-016-0150-8.

[11] Irreversibility in Room Temperature Current-Voltage Characteristics of NiFe<sub>2</sub>O<sub>4</sub> Nanoparticles: A Signature of Electrical Memory Effect", **P. Dey**, Rajesh Debnath, Swati Singh, S. K.Mandal and Jitendra Nath Roy, *Journal of Magnetism and Magnetic Materials*, **421**, 132 (2017). **(Impact Factor = 2.630)**

[12] Enhancement of dielectric constant in transition metal doped ZnO nanocrystals by S. Singh, **P. Dey**, J. N. Roy and S. K. Mandal, *Applied Physics Letters* **105**, 092903 (2014). **(Impact Factor = 3.817)**

[13] Breakdown of the electron-spin motion upon reflection at metal-organic or metal-carbon interfaces by F. Djeghloul, **P. Dey**, A. Hallal, E. Urbain, S. Mahiddine, M. Gruber, D. Spor, M. Alouani, H. Bulou, F. Scheurer, W. Weber, *Phys. Rev. B* **89**, 134411 (2014) (*Editor choice*). **(Impact Factor = 3.767)**

[14] Temperature driven transition from Giant to Tunneling magneto-resistance in Fe<sub>3</sub>O<sub>4</sub>/Alq<sub>3</sub>/Co Spin Valve: Role of Verwey transition of Fe<sub>3</sub>O<sub>4</sub> by **P. Dey**, R. Rawat, S. R. Potdar, R. J. Choudhary, A. Banerjee, *J. Appl. Phys.* **115**, 17C110 (2014). **(Impact Factor = 2.276)**

[15] Ultimate limit of electron-spin precession upon reflection in ferromagnetic films by A. Hallal, T. Berdot, P. Dey, L. Tati Bismaths, L. Joly, A. Bourzami, F. Scheurer, H. Bulou, J. Henk, M. Alouani and W. Weber, *Phys. Rev. Lett.* **107**, 087203 (2011). **(Impact Factor = 7.943)**

[16] Electron-spin motion: A new tool to study ferromagnetic films by P. Dey and W. Weber, *J. Phys.: Condens. Matter (Topical Review)* **23**, 473201 (2011). **(Impact Factor = 2.332)**

[17]  $x\text{Zn}_{0.3}\text{Ni}_{0.7}\text{Fe}_2\text{O}_4 - (1-x)\text{HoMnO}_3$  ( $x = 0.1, 0.3$  and  $0.5$ ) nanocomposites: magnetoelectric, magnetodielectric and AC electrical response, S. K. Mandal, Rajesh Debnath, P. Dey and A. Nath, *Mater. Res. Express*, **4**, 115014 (2017). **(Impact Factor = 1.08)**

[18] Magnetoelectric coupling and AC electrical properties of  $x\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3 - (1-x)\text{HoMnO}_3$  ( $x = 0.1, 0.3$  and  $0.5$ ) lead free multiferroic nanocomposites, S. K. Mandal, Swati Singh, Rajesh Debnath, P. Dey, J.N. Roy, T.K. Nath, *Materials Chemistry and Physics* **205**, 217-227 (2018). **(Impact Factor = 2.08)**

[19] Signature of Magnetoelectric Coupling of  $x\text{NiFe}_2\text{O}_4 - (1-x)\text{HoMnO}_3$  ( $x = 0.1$  and  $0.3$ ) Multiferroic Nanocomposites, S. K. Mandal, Rajesh Debnath, Swati Singh, A. Nath, P. Dey, and T. K. Nath, *Journal of Magnetism and Magnetic Materials*, **443**, 222–232 (2017).

**(Impact Factor = 2.630)**

[20] Room temperature magnetoelectric coupling of  $0.4\text{Zn}_{0.3}\text{Ni}_{0.7}\text{Fe}_2\text{O}_4 - 0.6\text{PbZr}_{0.52}\text{Ti}_{0.48}\text{O}_3$  multiferroic nanocomposite, S.Chakraborty, S. K. Mandal, Rajesh Debnath, Swati Singh, P. Dey and B.Saha, *Materials Today: Proceedings* **4**, 5663–5666 (2017).

[21] Magnetoelectric Coupling, Dielectric and Electrical Properties of  $x\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3 - (1-x)\text{Pb}(\text{Zr}_{0.58}\text{Ti}_{0.42})\text{O}_3$  ( $x = 0.05, 0.1$ ) Multiferroic Nanocomposites, S. K. Mandal, Swati Singh, Rajesh Debnath, A. Nath and P. Dey, *Journal of Alloys and Compounds* **720**, 550-561 (2017). **(Impact Factor = 2.726)**.

[22] Magnetoelectric coupling and dielectric study of  $x\text{NiFe}_2\text{O}_4 - (1-x)\text{ErMnO}_3$  lead free multiferroic nanocomposites, Swati Singh, S. K. Mandal, and P. Dey, *AIP Conference Proceedings* **1832**, 050022 (2017).

[23] Magnetoelectric coupling of  $x\text{Zn}_{0.5}\text{Co}_{0.5}\text{Fe}_2\text{O}_4 - (1-x)\text{PbZr}_{0.58}\text{Ti}_{0.42}\text{O}_3$  ( $x = 0.3$  and  $0.4$ ) nanocomposites, Sarit Chakraborty, S. K. Mandal, Swati Singh, P. Dey, and B. Saha, *AIP Conference Proceedings* **1832**, 050023 (2017).

[24] Magnetoelectric coupling and AC impedance studies of  $0.5\text{NiFe}_2\text{O}_4\text{-}0.5\text{PbZr}_{0.58}\text{Ti}_{0.42}\text{O}_3$  nanocomposite, Rajesh Debnath, S. K. Mandal, Swati Singh, P. Dey, and A. Nath, *AIP Conference Proceedings* **1832**, 050028 (2017).

[25] Temperature and Frequency Dependence of AC Electrical Properties of Zn and Ni doped  $\text{CoFe}_2\text{O}_4$  Nanocrystals, S. K. Mandal, Swati Singh, P. Dey, J. N. Roy, P. R. Mandal and T. K. Nath, *Philosophical Magazine*, **97**, 1628–1645 (2017). **(Impact Factor = 1.632)**

[26] Room Temperature Complex Impedance Study of  $0.1\text{NiFe}_2\text{O}_4\text{-}0.9\text{ErMnO}_3$  Nanocomposite, Swati Singh, P. Dey, S. K. Mandal, *International Journal of Advanced Technology in Engineering and Science*, **3** 299 (2015).

[27] Frequency and Temperature Dependence of Dielectric and Electrical Properties of  $\text{TFe}_2\text{O}_4$  ( $T=\text{Ni, Zn, Zn}_{0.5}\text{Ni}_{0.5}$ ) Ferrite Nanocrystals, S. K. Mandal, Swati Singh, P. Dey, J. N. Roy, P. R. Mandal, T. K. Nath, *Journal of Alloys and Compounds*, **656**, 887-896 (2016). **(Impact Factor = 2.726)**.

[28] Magnetically tunable alternating current electrical properties of  $x \text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3\text{-(}1-x\text{)}\text{ErMnO}_3$  ( $x = 0.1, 0.3$ , and  $0.5$ ) multiferroic nanocomposite, Rajesh Debnath, P. Dey, Swati Singh, J. N. Roy, S. K. Mandal, and T. K. Nath, *J. Appl. Phys.* **118**, 044104 (2015). **(Impact Factor = 2.276)**

[29] Tunable dielectric constant with transition metal (TM) doping in  $\text{Zn}_{1-x}(\text{MnTM})_x\text{O}$  (TM = Co, Fe) nanocrystal, Swati Singh, P. Dey, J. N. Roy and S. K. Mandal, *Journal of Alloys and Compounds*, **642**, 15- 21 (2015). **(Impact Factor = 2.726)**

[30] Structural, electrical and dielectric properties of  $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3\text{-ErMnO}_3$  multiferroic composites by S. K. Mandal, P. Dey and T. K. Nath, *Materials Science and Engineering B*, **181** 70 (2014). **(Impact factor = 2)**

[31] AC and DC electrical transport studies of (Fe, Co) codoped ZnO nanoparticles by Sanjay Kumar Mandal, Puja Dey and Tapan Kumar Nath, *J. Vac. Sci. Technol. B* **32**(4), 041803 (2014). **(Impact Factor = 1.52)**

[32] Electron-Spin Motion as a New Tool to Investigate Ferromagnetic Film Systems: A Few Examples by A. Hallal, T. Berdot, P. Dey, L. Tati Bismaths, L. Joly, A. Bourzami, H. Bulou, F. Scheurer, F. Djeghloul, E. Urbain, D. Spor, J. Henk, M. Alouani, W. Weber, *Sensor Letters*, **11**, 1632 (2013). **(Impact Factor = 1.5)**

[33] Influence of lattice relaxation on the electron-spin motion in ferromagnetic films: Experiment and theory, T. Berdot, A. Hallala, P. Dey, L. Tati Bismathsa, L. Jolya, A. Bourzamib, H. Buloua, F. Scheurera, J. Henk, M. Alouania, W. Weber, Proc. of SPIE, **8100**, 81000Z-1 (2011).

[34] Effect of submonolayer MgO coverages on the electron-spin motion in Fe(001): Experiment and theory by T. Berdot, A. Hallal, L. Tati Bismaths, L. Joly, P. Dey, M. Alouani, J. Henk and W. Weber, *Phys. Rev. B* **82**, 172407 (2010). **(Impact Factor = 3.767)**

[35] Temperature dependence of phonon modes in nanocrystalline  $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$  as observed by infrared spectroscopy by T. N. Sairam, P. Dey et al., *J. Nanosci. Nanotechnol.* **9**, 5471 (2009). **(Impact Factor = 1.483)**

[36] Microstructural, magnetic, magneto-transport and complex impedance spectroscopy of  $x\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3-(1-x)\text{ErMnO}_3$  multiferroic ( $0 \leq x \leq 1$ ) composites by P. Dey, T. K. Nath, S. K. Mandal and A. Das, *Int. J. Mod. Phys. B* **23**, 4889 (2009). **(Impact Factor = 0.8)**

[37] Magnetoimpedance, magnetoresistance, and magnetic properties of nanometric CMR manganites, T. K. Nath, P. Dutta, and P. Dey, *J. Appl. Phys.* **103**, 07F725 (2008).

**(Impact Factor = 2.276)**

[38] Enhanced grain surface effect on magnetic properties of nanometric  $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$  manganite: Evidence of surface spin freezing of manganite nanoparticles by P. Dey, T. K. Nath, P. K. Manna and S. M. Yusuf, *J. Appl. Phys.* **104**, 103907 (2008). **(Impact Factor = 2.276)**

[39] Effect of nanometric grain size on room temperature magnetoimpedance, magnetoresistance and magnetic properties of  $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$  nanoparticles by P. Dutta, P. Dey and T. K. Nath, *J. Appl. Phys.* **102**, 073906 (2007). **(Impact Factor = 2.276)**

[40] Effect of disorder on magnetic ordering of  $\text{La}_{0.5}\text{Gd}_{0.2}\text{Sr}_{0.3}\text{MnO}_3$  manganites by P. Dey, T. K. Nath and A. Banerjee, *J. Phys.: Condens. Matter*, **19**, 376204 (2007). **(Impact Factor = 2.332)**

[41] Effect of substrate-induced strain on transport and magnetic properties of epitaxial  $\text{La}_{0.66}\text{Sr}_{0.33}\text{MnO}_3$  thin films by P. Dey, T. K. Nath and A. Taraphder, *Applied Physics Letters*, **91**, 012511 (2007). **(Impact Factor = 3.817)**

[42] Enhanced grain surface effect on magnetic properties of  $\text{La}_{0.5}\text{Gd}_{0.2}\text{Sr}_{0.3}\text{MnO}_3$  nanoparticles: A comparison with bulk counterpart by P. Dey, T. K. Nath and A. Banerjee, *Applied Physics Letters*, **91**, 012504 (2007). **(Impact Factor = 3.817)**

[43] Room temperature ferroelectric and ferromagnetic properties of multiferroics  $x\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3 - (1-x)\text{ErMnO}_3$  (weight percent  $x = 0.1, 0.2$ ) composites by P. Dey, T. K. Nath, M. L. NandaGoswami and T. K. Kundu, *Applied Physics Letters*, **90**, 162510 (2007).  
**(Impact Factor = 3.817)**

[44] Tunable room temperature low-field spin polarized tunneling magnetoresistance of  $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ nanoparticles by P. Dey and T. K. Nath, *Applied Physics Letters*, **89**, 163102 (2006).  
**(Impact Factor = 3.817)**

[45] Effect of grain size modulation on the magneto- and electronic-transport properties of  $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ nanoparticles: The role of spin-polarized tunneling at the enhanced grain surface by P. Dey and T. K. Nath, *Physical Review B*, **73**, 214425 (2006).  
**(Impact Factor = 3.767)**

[46] Enhanced grain surface effect on the temperature dependent behavior of spin-polarized tunneling magnetoresistance of nanometric manganites by P. Dey and T. K. Nath, *Applied Physics Letters*, **87**, 162501 (2005).  
**(Impact Factor = 3.817)**

[47] Effect of nanosize modulation of granular  $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$  manganites on temperature dependent low field spin polarized tunneling magnetoresistance by P. Dey, T. K. Nath, Uday Kumar and P. K. Mukhopadhyay, *Journal of Applied Physics* **98**, 014306 (2005).  
**(Impact Factor = 2.276)**

[48] Strain modification of  $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$  CMR thin films using structural transitions of ferroelectric (001)  $\text{BaTiO}_3$  substrate, P. Dey and T. K. Nath, *Indian J. Phys.* **78**(8), 833-836 (2004).  
**(Impact Factor = 0.988)**

### ***Papers presented in International/National Level Conferences (Selected) :***

[1] A Journey towards Spintronics to Optospintronics, 64<sup>th</sup> DAE Solid State Physics Symposium (DAE SSPS 2019) held at Indian Institute of Technology Jodhpur, Rajasthan during December 18-22, 2019

[1] I-V Characteristics of  $0.3\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3-0.7\text{ErMnO}_3$  Multiferroic Nanocomposite: An Observation of Electrical Hysteresis, by Rajesh Debnath, P. Dey, J. N. Roy and S. K. Mandal, *International Conference on Emerging Trends of Engineering, Science, Management and its Applications* (ICETESMA-15), JNU, Delhi (2015).

[2] ] Dielectric and Electrical Properties of Ni and Zn doped  $\text{Fe}_3\text{O}_4$  nanoparticles, by Swati Singh, P. Dey, J. N. Roy and S. K. Mandal, *International Conference on Emerging Trends of Engineering, Science, Management and its Applications* (ICETESMA-15), JNU, Delhi (2015).

[3] Enhancement of capacitance in transition metal doped  $\text{ZnO}$  nanocrystals, by Swati Singh, P. Dey, J. N. Roy and S. K. Mandal, *Advance Trends in Engineering and Technology*" (ICATET-2014), Jaipur, Rajasthan, India.

[4] Temperature driven transition from Giant to Tunneling magneto-resistance in  $\text{Fe}_3\text{O}_4/\text{Alq}_3/\text{Co}$  Spin Valve: Role of Verwey transition of  $\text{Fe}_3\text{O}_4$ , by P. Dey, R. Rawat, S. R. Potdar, R. J. Choudhary, A. Banerjee, 58<sup>th</sup> International Conference on Magnetism and Magnetic Materials ("MMM 2013"), Denver, Colorado, USA.

[5] Contrasting behaviour of bulk and nanoparticles of  $\text{La}_{0.5}\text{Gd}_{0.2}\text{Sr}_{0.3}\text{MnO}_3$  manganite, by P. Dey, T. K. Nath and A. Banerjee, Proceedings of DAE Solid State Physics Symposium, page 261 (2006), Date :30<sup>th</sup> December, 2006; Department of Physics & Electronics, Barkatullah University, Bhopal.

[6] Technologically important granularity effect on Magnetoresistance and magneto impedance of nanocrystalline  $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$  CMR manganites, by P. Dey and T. K. Nath, DAE Solid State Physics Symposium proceedings (BRNS-DAE), page no. 32, (2004).

Date :30<sup>th</sup> December, 2004; Guru Nanak Dev University, Amritsar.

[7] Synthesis, microstructural and electrical transport studies in granular nanosized  $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$  CMR manganites, P. Dey and T. K. Nath, DAE Solid State Physics Symposium proceedings, page no. 179, vol. 46, (2003).

Date : 28<sup>th</sup> December, 2003; School of studies in Physics, Jiwaji University, Gwalior.

## ***Sponsored Project :***

[1]"Fabrication of Hybrid Organic Molecular Semiconductor - Inorganic Ferromagnet based Organic Spin Valves for Molecular Spintronics Application", funded by **DST, SERB, New Delhi, under Start-Up Research Grant Scheme**, Project No.- SB/FTP/PS-034/2014, Sanctioned Amount - 22.1 Lakhs.

## ***Thesis Supervision***

**M. Sc. Thesis Supervision :** 1. Three Completed (2014-16).

**Ph. D. Thesis Supervision :** 1. Four Ongoing

### **Collaborators :**

**International -** Centre National de la Recherche Scientifique (CNRS), Strasbourg, France.

**National -** (1) UGC-DAE Consortium For Scientific Research Indore.

(2) Bhabha Atomic Research Centre (BARC), Mumbai.

(3) Dept. of Physics & Meteorology, I. I. T. Kharagpur.

(4) Dept. of Physics, I. I. T. Guwahati.

### **Awards & Fellowships:**

Scholarship /Award	Institute/Organization	Year
Senior Research Fellowship	Council of Scientific and Industrial Research (C. S. I. R), India.	2007 - 2008
Post Doctoral Research Fellowship	Centre National de la Recherche Scientifique (CNRS), Strasbourg, France.	2008 - 2010
Post Doctoral Research Fellowship	UGC-DAE Consortium For Scientific Research, Indore, India	2012 - 2013