

# Curriculum Vitae

## Dr. Ramanna Rangappa

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## Education

- **Ph.D.** (Physics) – 2015  
Department of Physics, Gulbarga University, Gulbarga-India
- **Master of Science** (Physics) – 2010  
Gulbarga University, Gulbarga-India
- **Bachelor of Science** (Physics, Chemistry, Mathematics) – 2008  
Gulbarga University, Gulbarga-India

## Title of Ph.D. thesis:

**“EXPERIMENTAL STUDIES OF MAGNETIC MULTILAYERS”**

## Research and Teaching experience

- Teaching Experience in KLE’s Basavaprabhu Kore Arts, Science and Commerce College Chikodi (26<sup>th</sup> Feb 2018 – Till date).
- Worked as Research Associate from April 2017 to February 2018 in Indian Institute of Science Bangalore.
- I was a Project-Associate under ISRO Sponsored during September 2016 to March 2017 in Indian Institute of Science Bangalore.
- Four years research experience in the fields of thin films, glasses and polymers at Department of Physics, Gulbarga University, Gulbarga (2011-2015).
- Worked As Guest Faculty in Govt. Degree College, Yadagir (2015 – 2016 Academic Year).
- Worked as Lecturer in Shree Murgharajendra Pre-university College Gulbarga (2010- 2011).

## Awards & Fellowships and Member

- I was a Project-Associate under ISRO Sponsored during September 2016 to March 2017 in Indian Institute of Science Bangalore.
- I was a Project-Fellow under UGC-MRP during October 2011 to January 2014.
- Life Member of Indian Science Congress Association.

## Area of Interest

- Metal Thin Films
- Oxide Glasses
- Polymers

## Experience and Skills

- Familiar with operating High Vacuum coating Unit and deposit thin films using thermal and electron beam gun evaporation techniques.
- Familiar with experimental techniques such as Grazing Incidence X-ray Diffraction (GIXRD), Scanning Electron Microscope (SEM), Atomic Force Microscope (AFM), Vibrating Sample Magnetometry (VSM) and low temperature resistivity measurements.
- Familiar with operating High temperature furnace and Muffle furnace.
- Familiar with experimental techniques such as Impedance Analyzer and DB502 Resistive bridge
- Capable of analyzing data using Origin graphics.
- Familiar with Nanoscope software for analyzing AFM image.

## Research Publications in Journals

1. Magnetic and Low Temperature Electrical Properties of Ni/Fe Multilayer, **R. Ramanna**, P.J.Sadashivaiah, T.Sujatha, T.Sankarappa, Santoshkumar, P.Saravanan, A.K.Bhatnagar, Journal of Electrical Engineering Research Vol. 1 Iss. 4, 96, (2013).
2. Electronic Transport at Low Temperature in Ni/Al/Ni Films, **R. Ramanna**, P. J. Sadashivaiah, T. Sankarappa, T. Sujatha, J. S. Ashwajeet, A. W. Manjunath and Santosh Kori, International Research Journal of Pure & Applied Chemistry 4(6): 785, (2014).

3. Electronic Transport at Low Temperature in Some Sandwich Films, **R. Ramanna**, P. J. Sadashivaiah, T. Sankarappa, T. Sujatha, J. S. Ashwajeet, A. W. Manjunath and Santosh Kori, Asian Journal of Applied Sciences 7 (8): 685-695, (2014).
4. Low temperature magnetic and electrical properties of (Co/Al) multilayers, **R. Ramanna**, T. Sankarappa, J.S. Ashwajeet, T. Sujatha, and P.J. Sadashivaiah International Journal of Current Research, Vol. 6, Issue, 12, 10537, (2014).
5. Magnetic and electrical properties of Electron Beam gun deposited [Mn/Al] Multilayered films, **R. Ramanna**, T. Sankarappa, T. Sujatha, J.S. Ashwajeet, and P.J. Sadashivaiah, Journal of Advances in Physics, Vol. 8, No. 3, 2231, (2015).
6. Thickness dependence of structural and magnetic properties of Ni/Al/Ni films, **R. Ramanna**, T. Sankarappa, J.S. Ashwajeet and T. Sujatha, Research Journal of Physical Sciences, Vol. 3(10), 1-5, (2015).
7. Low Temperature Electrical Resistivity Studies in Lead Thin Films, A.W. Manjunath, T. Sankarappa, **R. Ramanna**, J.S. Ashwajeet, T. Sujatha, P. Sarvanan, Journal of Nano- and Electronic Physics, Vol. 5 No 3, 03026-1 (2013).
8. Effect of Se Substitution on the Phase Change Properties of Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub>, Roopali Shekhawat, **Ramanna Rangappa**, E.S.R. Gopal and K. Ramesh, AIP Conference Proceedings, Vol. 1953 (2018).
9. Local structure and electrical switching in Al<sub>20</sub>Te<sub>75</sub>X<sub>5</sub> (X= Si, Ge, As, Sb) glasses, P T Wilson, **R Ramanna**, Shweta Chahal, Roopali Shekhawat, M Madesh Kumar and K. Ramesh, Applied Physics A , Vol. 126, 1-8 (2020).
10. Thermal and Electrical properties of (B<sub>2</sub>O<sub>3</sub>-TeO<sub>2</sub>-Li<sub>2</sub>O-CoO) Glasses, J.S. Ashwajeet, T. Sankarappa, T. Sujatha and **R. Ramanna**, Journal of Non-Crystalline Solids, Vol. 486, 52-57 (2018).
11. Study of polaron Transport Mechanisms in Two Transition Metal Ions Doped Borophosphate Glasses, J.S. Ashwajeet, T. Sankarappa, **R. Ramanna** and T. Sujatha, Glass Physics and Chemistry, Vol. 42, No. 1, 27-32 (2016).
12. Dielectric Properties and Conductivity Studies of CuO Doped Borotellurite Glasses, Sujatha T, Sankarappa T, Ashwajeet J.S, **Ramanna R**, and Hanagodimath S M, International Journal of Current Research, Vol. 7, Issue, 01, 11366, (2015).
13. Study of Conduction Mechanisms in CuO Doped Borotellurite Glasses, T. Sujatha, T. Sankarappa, J.S. Ashwajeet, **R. Ramanna** and S.M. Hanagodimath Journal of Chemistry and Materials Research, Vol. 2 (2), 49, (2015).

14. Electrical Conduction in  $V_2O_5$  Doped Borophosphate Glasses, T. Sujatha, T. Sankarappa, J.S. Ashwajeet, **R. Ramanna**, S.M. Hanagodimath, published in Journal of Advanced Chemical Sciences 1(4) 157, (2015).
15. Electrical Conduction in Borophosphate Glasses Doped With CoO and  $Li_2O$ , J. S. Ashwajeet, T. Sankarappa, **R. Ramanna**, T.Sujatha, N. Nagaraja and B. Vijayakumar, Research Journal of Material Sciences, Vol. 3(4), 1-6, September (2015).
16. Dielectric Studies in  $Li_2O$  and CoO Doped Borophosphate Glasses, J.S. Ashwajeet, T. Sankarappa, **R. Ramanna**, K. Praveenkumar published in Journal of Advances in Physics, Vol. 8 No. 3 (2015).
17. Glass transition temperature and conductivity in  $Li_2O$  and  $Na_2O$  doped borophosphate glasses, J.S. Ashwajeet, T. Sankarappa, **R. Ramanna**, T. Sujatha, and A. M. Awasthi, Advanced Materials and Radiation Physics (AMRP-2015) AIP Conference Proceedings. 1675, 020017-1–020017-6, (2015).
18. Dielectric and AC Conductivity Studies in Two Alkali Doped Borophosphate Glasses, J.S. Ashwajeet, T. Sankarappa, **R. Ramanna**, T. Sujatha, Journal of Chemistry and Materials Research, Vol. 4 (1), 2-5, (2015).
19. Electrical Conductivity in Polypyrrole Nano Particles, K. Praveen Kumar, T. Sankarappa, Jyoti Kattimani, Chandraprabha Gurunath Bhat, J.S. Ashwajeet **R.Ramanna** and T. Sujatha International Scientific Journal on Science Engineering & Technology. Volume 17, No. 07, 772 (2014).
20. Structure and Temperature Dependence of Electrical Conductivity in Polythiophene Nanoparticles, Jyoti Kattimani, T. Sankarappa, K. Praveen Kumar, J.S. Ashwajeet, **R.Ramanna**, and T. Sujatha International Journal of Advanced Research in Physical Science (IJARPS) Volume 1, Issue 7, 17, (2014).
21. Structural and Dielectric Properties of PPy/ZnO Composites, Tanveer Fatima, T. Sankarappa, J.S.Ashwajeet and **R.Ramanna** International Journal of Innovative Science, Engineering & Technology, Vol. 2 Issue 2, 204, (2015).
22. Frequency and Temperature dependence studies in PTh- $V_2O_5$  composites, Jyoti Kattimani, T. Sankarappa, **R. Ramanna** and J. S. Ashwajeet Research Journal of Chemical Sciences, Vol. **5(6)**, 59, (2015).
23. Dielectric Properties of Polythiophene-CoO Composites, Jyoti Kattimani, T. Sankarappa , K. Praveen Kumar, Chandraprabha G, J. S. Ashwajeet and **R.Ramanna** Global Journal of Physics, Vol. 2, No 1, 79, (2015).
24. DC Conduction in Polythiophene Nanocomposites doped with  $V_2O_5$ , Jyoti Kattimani, T. Sankarappa, J. S. Ashwajeet, **R. Ramanna**, K. Praveenkumar and Chandraprabha G Research Journal of Material Sciences, Vol. **3(3)**, 1, (2015).

25. Electronic transport in PPy-Ag composite nanoparticles, K. Praveenkumar, T. Sankarappa, Jyoti Kattimani, Chandraprabha G, J. S. Ashwajeet and **R. Ramanna** 2nd International Conference on Nanotechnology, 696 (ICNT – 2015).
26. Conduction Mechanisms in Polypyrrole-Copper Nanocomposites, K. Praveenkumar, T. Sankarappa, J.S. Ashwajeet, **R. Ramanna**, T. Sujatha, Jyoti Kattimani, G.Chandraprabha, Journal of Nano and Electronic Physics, Vol. 7 No 2, 02043, (2015).
27. Frequency dispersion and Temperature variation of Dielectric properties in PPy-Cu Nanocomposites, K. Praveenkumar, T. Sankarappa, J. S. Ashwajeet, **R. Ramanna**, Jyoti Kattimani and Chandraprabha G Research Journal of Physical Sciences, Vol. **3(5)**, 6, (2015).
28. Conductivity Studies on Polythiophene-CoO Nano-Composites, K. Jyoti, T. Sankarappa, J.S. Ashwajeet, **R. Ramanna**, Journal of Advanced Chemical Sciences 1(4), 139, (2015).
29. Dielectric and AC Conductivity Studies in PPy-Ag Nanocomposites, K. Praveenkumar, T. Sankarappa, J. S. Ashwajeet, **R. Ramanna**, Hindawi Publishing Corporation Journal of Polymers 1, (2015).
30. A Study of Air Quality Index in and Around Belagavi City, Karnataka State, India, K.S. Goverdhan Rathla, T. Sankarappa, J.S. Ashwajeet and **R. Ramanna** published in Research Journal of Physical Sciences, Vol. **3(4)**, 1, (2015).
31. Effect of Temperature, Humidity and other Physical Parameters on Air Pollution in and Around Belagavi, Karnataka, India K.S. Goverdhan Rathla, T. Sankarappa, J.S. Ashwajeet and **R. Ramanna**, International Research Journal of Environmental Sciences, Vol. **4(7)**, 55, (2015).
32. DC Conductivity studies of PPy/ZnO Composites, Tanveer Fatima, T. Sankarappa and **R.Ramanna** Research Journal of Material Sciences, Vol. **3(5)**, 1-5, (2015).
33. Electrical Transport Studies in PPy/SnO<sub>2</sub> Composites, Tanveer Fatima, T. Sankarappa and **R.Ramanna** International Journal of Advanced Research in Physical Science (IJARPS), Vol. **3(1)**, 7-12, (2015).
34. Structure and Conductivity Studies of PTh-Ni Composites, Chandraprabha G, T. Sankarappa, Jyoti Kattimani, K. Praveenkumar, J.S. Ashwajeet and **R. Ramanna**, Research Journal of Physical Sciences Vol. **3(9)**, 5-10, (2015).
35. Dielectric Studies in PTh-Ni Composites, Chandraprabha G, T. Sankarappa, K. Praveenkumar, J.S. Ashwajeet and **R. Ramanna**, Journal of advanced chemical Sciences Vol. **2(1)**, 208-211, (2016).

36. Structural and dielectric studies on Magneto Electric Nano-Composites, S. Abdul Khader, T. Sankarappa, T. Sujatha, J.S. Ashwajeet and **R. Ramanna**, Elsevier Science Direct, Materials Today:Proceedings, 2, 4334-4343 (2015).

## **Presentations in International and National Conferences**

1. Structural and Low Temperature Magnetic properties of [Co/Al] Multilayers, **R.Ramanna**, T.Sankarappa, G. B. Devidas, J.S. Ashwajeet, T. Sujatha P.J. Sadashivaiah presented in International Conference on Physics of Materials & Nanotechnology in Mangalore University, during 19-21 September 2019.
2. Structural and Magnetic Studies of Some Multilayered Films, **R.Ramanna**, T.Sankarappa, J.S. Ashwajeet, P.J. Sadashivaiah and B.M. Irappa presented in National Conference on Recent Advances in Engineering Technology and Science in Shridevi Institute of Engineering & Technology, Tumkur.
3. Magnetic Properties of Ni/Fe Multilayer Thin Films, P.J. Sadashivaiah T. Sankarappa, and **R.Ramanna**, presented in National Conference on Recent Advances in Engineering Technology and Science in Shridevi Institute of Engineering & Technology, Tumkur.
4. Local Structure and glass formation in Al<sub>20</sub>Te<sub>80</sub> glass, Karuppanan Ramesh, P.T. Wilson, **Ramanna Rangappa** and Madesh Kumar, presented 15<sup>th</sup> International Conference on the Physics of Non-Crystalline Solids and 14<sup>th</sup> European Society of Glass Conference in Saint Malo, France, during 9-13 July 2018.
5. Unraveling the origin of 5-fold coordinated Al in Al<sub>20</sub>Te<sub>80</sub> chalcogenide glasses, P.T. Wilson, **R. Ramanna** and K. Ramesh presented at the 7<sup>th</sup> Asia pacific NMR and 23<sup>rd</sup> NMRS symposium in Indian Institute of Science, Bangalore during 16-19 February 2017.
6. Electrical Switching, local structure and thermal crystallization in Al-Te glasses, Pumlian Munga, **R. Ramanna** and K. Ramesh presented in inhouse Symposium in Indian Institute of Science, Bangalore during 2016.
7. Structure and Magnetic Property Studies in Ni/Al/Ni films, **R.Ramanna**, T.Sankarappa, T.Sujatha, J.S. Ashwajeet, and Ramababu presented at the 103<sup>rd</sup> Indian Science Congress held at University of Mysore, Mysuru Karnataka during 3-7 January 2016.

8. Structural and Magnetic Properties of Manganese/Aluminium Multilayered films, **R.Ramanna**, T.Sankarappa, J.S. Ashwajeet, T. Sujatha, P.J. Sadashivaiah, and Santoshkumar Kori presented at 27<sup>th</sup> Kerala Science Congress, Allapuzha, Kerala during 27-29, January 2015.
9. XRD, AFM and Magnetic studies of some Multilayered Films, **R.Ramanna**, T.Sankarappa, T. Sujatha, J.S. Ashwajeet, and P.J. Sadashivaiah presented at KSTA Regional Conference on Science & Society held in Veerashaiva College, Ballari during 16-17 January 2015.
10. Structural and Magnetic Properties of Ni/Al/Ni films, **R.Ramanna**, P.J.Sadashivaiah, T.Sankarappa, T.Sujatha, J.S. Ashwajeet, and Digge Basanna presented at the 102<sup>nd</sup> Indian Science Congress held in Mumbai University, Maharashtra during 3-7 January 2015.
11. Studies of Structural and Magnetic Properties in some Ni/Al/Ni films, **R.Ramanna**, P.J.Sadashivaiah, T.Sankarappa, T.Sujatha, J.S. Ashwajeet presented at the Second National Conference on Physics and Chemistry of Solids held in SR & BGNR Govt. Arts & Science College, Khammam, Andra Pradesh during 29-30, March 2014.
12. Low Temperature Electrical Resistivity of Some Sandwich Films, **R.Ramanna**, P.J.Sadashivaiah, T.Sankarappa, T.Sujatha, J.S. Ashwajeet, A.W. Manjunath and Santosh Kori presented at the 101<sup>st</sup> Indian Science Congress held in Jammu University, Jammu Kashmir during 3-7 February 2014.
13. Electronic Transport at Low Temperature in Some Sandwiched Films, **R.Ramanna**, P.J.Sadashivaiah, T.Sankarappa, T.Sujatha, A.W. Manjunath, J.S. Ashwajeet, and Santosh Kori presented at the International Conference on Thin Films and its Applications held in SASTRA University, Thanjavur, Tamil Nadu during 11-13 September 2013.
14. Low Temperature Electrical Resistivity Studies in Lead Thin Films, A.W.Manjunath, T.Sankarappa, **R.Ramanna**, J.S. Ashwajeet and T.Sujatha, presented at the National Conference on Solar Energy and Its Applications held in Maharani's Science College for Women, Bangalore during 19<sup>th</sup> April 2013.
15. Structural and Resistivity Studies of Multilayered Films, P.J.Sadashivaiah, A. Manjunath T.Sankarappa, **R.Ramanna** et al. presented at the 100<sup>th</sup> Indian Science Congress held in Calcutta University, Kolkata during 3-7 January 2013.
16. XRD and Low Temperature Resistivity Studies in Some Sandwich Films, **R.Ramanna**, P.J.Sadashivaiah, T.Sankarappa, T.Sujatha, A.W. Manjunath, J.S. Ashwajeet, and Santosh Kori presented at the 100<sup>th</sup> Indian Science Congress held in Calcutta University, Kolkata during 3-7 January 2013.

17. Magnetic and Low Temperature Electrical Properties of Ni/Fe Multilayer, P.J.Sadashivaiah, T.Sankarappa, T.Sujatha, **R.Ramanna**, Santoshkumar, A. Manjunath, P. Saravanan and A. K. Bhatnagar presented at the International conference on Recent Advances in Material Science, in Bangalore during 6-8 November 2012.
18. GIXRD and VSM studies in magnetic sandwich films, **Ramanna**, T.Sankarappa, T.Sujatha, **P.J.Sadashivaiah**, S.Abdul Khadar, A.W.Manjunath and P.Saravanan, presented at the National conference on Magnetic Materials and Applications (MagMa-2012) held in IIT Madras, Chennai during 12, 13, March 2012.
19. Studies on Dielectric Properties and Conductivity in Borotellurite Glasses, T.Sankarappa, J.S. Ashwajeet and **R.Ramanna**, presented at the 103<sup>rd</sup> Indian Science Congress held at University of Mysore, Mysuru Karnataka during 3-7 January 2016.
20. Conductivity in some CuO Doped Borate Glasses, N. Nagaraja, J.S. Ashwajeet, T. Sankarappa, T. Sujatha, G. B. Devidas, B. Vijaya Kumar, M. Prashantkumar, **R. Ramanna**, A. Manjunath, presented at the 100<sup>th</sup> Indian Science Congress held in Calcutta University, Kolkata during 3-7 January 2013.
21. Glass Transition Temperature and conductivity in Li<sub>2</sub>O and Na<sub>2</sub>O Doped Borophosphate Glasses, J.S. Ashwajeet, T.Sankarappa, **R.Ramanna**, T.Sujatha and A.M. Awasthi. Presented at the 4<sup>th</sup> National conference on Advanced Materials and Radiation Physics (AMRP-2015) held in Sant Longowal of Engineering and Technology, Punjab during 13-14 March 2015.
22. DC Conduction Studies in V<sub>2</sub>O<sub>5</sub>- CoO Doped Borophosphate Glasses, J.S. Ashwajeet, T.Sankarappa, **R.Ramanna**, N. Nagaraj, B. Vijaykumar and T.Sujatha, presented at the KSTA Regional Conference on Science & Society held in Veerashaiva College, Ballari during 16-17 January 2015.
23. Electrical Conduction in Borophosphate Glasses Doped with Transition and Alkali Ions, J.S. Ashwajeet, T.Sankarappa, **R.Ramanna**, T.Sujatha, G.B. Devidas, M. Prashantkumar, N. Nagaraj and B. Vijaykumar, presented at the 102<sup>nd</sup> Indian Science Congress held in Mumbai University, Maharashtra during 3-7 January 2015.
24. Electrical Conduction in Borophosphate Glasses Doped with CoO and Li<sub>2</sub>O, J.S. Ashwajeet, T.Sankarappa, **R.Ramanna**, N. Nagaraj and B. Vijaykumar presented at the International Seminar on Glasses and other Functional Materials held in Nagarjun University, Guntur during 11-13 December 2014.



25. Study of Electrical Transport Mechanisms in Mixed Transition Metal ions Borophosphate Glasses, J.S. Ashwajeet, T.Sankarappa, T. Sujatha and **R.Ramanna**, presented at the Kathmandu Symposium on Advanced Materials- held in Kathmandu, Nepal during 7-10, September 2014.
26. Study of Electrical Conduction Mechanisms in Borophosphate Glasses Doped with Transition Metal Ions, Ashwajeet J.S, T.Sankarappa, T.Sujatha and **Ramanna R**, presented at the Second National Conference on Physics and Chemistry of Solids held in SR & BGNR Govt. Arts & Science College, Khammam, Andra Pradesh during 29-30 March 2014.
27. DC Conductivity of V<sub>2</sub>O<sub>5</sub> Doped Borophosphate Glasses, J.S. Ashwajeet, T.Sankarappa, T.Sujatha, **R.Ramanna**, A.W.Manjunath, G.B. Devidas, B. Vijaykumar, S.S. Veena, N. Nagaraj and M. Prashantkumar, presented at the 101<sup>st</sup> Indian Science Congress held in Jammu University, Jammu Kashmir during 3-7 February 2014.
28. Electronic Transport of Ppy-Ag Nanoparticles, K. Praveenkumar, T.Sankarappa, Jyoti Kattimani, Chandraprabha G, J S Ashwajeeth and **R. Ramanna** presented at the 2<sup>nd</sup> International Conference on Nanotechnology (ICNT) & Indo-USA Joint Symposium, held in Haldia Institute of Technology West Bengal, India during 19-22 February 2015.
29. Structural and Dielectric Studies on Magneto Electric Nano-Composites, S. Abdul Khader, T. Sankarappa, T Sujatha, J.S. Ashwajeet and **R.Ramanna** presented at the International Conference on Nano Science & Engineering Applications held in JNTU Hyderabad during -2014.

### **Conferences/symposium/seminars/workshop attended**

1. One One Workshop on Frontier areas in Physical Sciences in Rani Channamma University, Belagavi during 17<sup>th</sup> January 2020.
2. International Conference on Physics of Materials & Nanotechnology in Mangalore University, during 19-21 September 2019.
3. National Conference on Recent Advances in Engineering Technology and Science in Shridevi Institute of Engineering & Technology, Tumkur.
4. KSTA Conference on “**Energy, climate change and environment**”, organized by school of Earth Science, Central University of Karnataka, Kadaganchi, Gulbarga during 29-30 January 2016.

5. **103<sup>rd</sup> Indian Science Congress Association** held in University of Mysore, Mysuru Karnataka during 3-7 January 2016.
6. National Seminar on “**International Year of Crystallography**” held in Department of Physics, Gulbarga University, Gulbarga during 27-28 March 2015.
7. KSTA Conference on “**Science and Technology for Disaster Management**”, organized by school of Earth Science, Central University of Karnataka, Kadaganchi, Gulbarga during 22-23 January 2015.
8. **27<sup>th</sup> Kerala Science Congress** held in Allapuzha, Kerala during 27-29 January 2015.
9. **KSTA Regional Conference on Science & Society** held in Veerashaiva College, Ballari during 16, 17 January 2015.
10. **102<sup>nd</sup> Indian Science Congress Association** held in Mumbai University, Maharashtra during 3-7 January 2015.
11. Second National Conference on **Physics and Chemistry of Solids** held in SR & BGNR Govt. Arts & Science College, Khammam, Andra Pradesh during 29-30 March 2014.
12. National Seminar on **Radiation Physics**, held in Department of Physics, Gulbarga University, Gulbarga during 17, 18 March 2014.
13. **101<sup>st</sup> Indian Science Congress Association** held in Jammu University, Jammu Kashmir during 3-7 February 2014.
14. International Conference on **Thin Films and its Applications** held in SASTRA University, Thanjavur, Tamil Nadu during 11-13 September 2013.
15. National Conference on **Solar Energy and Its Applications** held in Maharani’s Science College for Women, Bangalore during 19<sup>th</sup> April 2013.
16. National Seminar on **Condensed Matter and Materials Physics**, held in Department of Physics, Gulbarga University, Gulbarga during 19, 20 March 2013.
17. International conference on **Recent Advances in Material Science**, held in Bangalore during 6-8 November 2012.
18. One day seminar on **Food Security & Natural Resources Management** organized by faculty of science and technology, Gulbarga University, Gulbarga, during 8<sup>th</sup> October 2012.
19. **Special lecture series in Physics** held in Department of Physics, Gulbarga University, Gulbarga during 27-29 March 2012.

20. National seminar on **advanced functional materials** held in Department of Physics, Gulbarga University, Gulbarga during 19, 20 March 2012.
21. Three days training Program on “**Thin Film Magnetism**”, organized by UGC-DAE CSR, Indore, Madhya Pradesh, during 14-16 March 2012.
22. National conference on **Magnetic Materials and Applications (MagMa-2012)** held in IIT Madras, Chennai during 12, 13 March 2012.
23. **100<sup>th</sup> Indian Science Congress Association** to be held in Kolkata during 3-7 January 2013.
24. National Seminar on **Radiation Physics**, held in Department of Physics, Gulbarga University, Gulbarga during 17, 18 March 2011.
25. National seminar on **X-Ray diffraction techniques** held in Department of Physics, Gulbarga University, Gulbarga during 2, 3 March 2010.