

## CURRICULUM VITAE

### Dr.MANJUNATHA S.

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Narayanapur, Dharwad-58 0008,  
Karnataka, India.

### ACADEMIC QUALIFICATION

Sl No.	Examination passed	University	Class	Subject
1	B.Sc	University of Mysore	II	CGH
2.	M.Sc	University of Mysore	FIRST	GEOLOGY
3.	Ph.D	Karnatak University	-----	GEOLOGY

### TITLE OF THE DOCTORAL THESIS

**Mineralogy, Geochemistry and Genesis of Machanur Copper Deposit, Karnataka, Southern India.**

## TEACHING EXPERIENCE (1998 to till date)

Undergraduate      **-23 years**

## ACADEMIC DUTIES

1. BOS Member, University of Mysore, Mysore (UG) (2010 to 13 , 2016 to 2019 and 2019 to 2021 )
2. BOS Member, Karnatak University, Dharwad (UG) (2010 to 2013 2017 to 2019, 2019-21)
3. BOS Member, Karnatak University, Dharwad (PG) (2017 to 2019)
4. BOS Member, Yuvaraja's Autonomous College, University of Mysore, Mysore (2020 to 2022)
5. BOS Member, Sahyadri Autonomous College, Kuvempu University (UG) (2015 to 2017)
5. BOS Member, Bangalore University, Dharwad (UG and PG)
6. Chairman, BOE, Karnatak University, Dharwad (UG)
7. BOE member, Yuvaraja's Atonamous College, University of Mysore, Mysore (2018 to 2020)
8. BOE Member, Sahyadri Atonamous College, Kuvempu University (UG)(2015 to 2017)
6. BOE member, Rani Channamma University, Belgaum(UG 2019-20)
7. BOE Member, University of Mysore, Mysore (UG 2018-2022)
8. BOE Member, Karnatak University, Dharwad (UG)
9. BOE Member, Bangalore University, Bangalore (UG) (2017-18 & 2019-20)
10. BOE Member, Davangere University, Davangere (2016-17)

## RESEARCH INTEREST

1. Economic Geology
2. Hydrogeology
3. Remote sensing and GIS
4. Environmental Geology

## RESEARCH EXPERIENCE

**23 YEARS**

## EXAMINATION

1. Worked as a Co-ordinator PG Central valuation (Four times)
2. Worked as a Co-ordinator UG central valuation (Five times)
3. Worked as a Deputy Chief Superintendent KAS main examination
4. Worked as a paper setter, KAS prelims and main examinations (KPSC)
5. Worked as a paper setter, Gazetted Probationary officers examination. (KPSC)

## RESEARCH PROJECT UNDERTAKEN

**1. UGC Minor Research Project entitle "Geology, Petrology and Fluid Inclusion studies of Kallur copper deposit, Eastern Dharwar Craton, Southern India."      Rs. 70,000 (Seventy Thousand only) as Principal Investigator (2007-2009) Completed.**

**2. UGC Major Research Project entitle “Geology, Petrology and Geochemistry of the clastic sediments of Naragund, Navalgund and Dhumwad, Karnaraka”. Rs.12,08,800=00 (Twelve Lakhs Eight thousand Eight Hundred only )as Principal Investigator 2013-2017)Completed.**

**3. DST (SERB) Major Research Project entitled “Integrated Hydrogeological condition of Lingusugur Taluk, Raichur District, Karnataka.” Rs. 23,10,000=00 (Twenty Three lakhs ten thousand only) as Principal Investigator 2018 to 2021 (Ongoing).**

**NUMBER OF Ph.D CANDIDATES CURRENTLY AWARDED/WORKING: 10**

Sl. No.	Name of the research fellow	Fellowship/without fellowship	Title of the Research work
1	Mr. Manjunatha Dalwai	Awarded (2018)	<b>Hydrogeological Investigation of Karanja River Basin, Bidar District, Karnataka, India Using Remote Sensing and GIS.</b>
2	Raju Sukhaye	Awarded (2019)	<b>Petrography and Geochemistry of Proterozoic clastic sedimentary rocks around Naragund and Dhumwad, Northern Karnataka.</b>
3	Chandrashekhar Kalyani	Thesis Submitted	<b>Hydrogeological studies in Shalamala sub basin, Karnataka</b>
4	Nagalingaswamy Vishvabramina	Under progress	<b>Hydrogeological studies with special reference to fluoride in groundwater of Yadagiri taluk, Karnataka state.</b>
5	Rakesh Patil	Under progress	<b>Hydrogeological analysis of Tattihalla basin using remote sensing and GIS techniques</b>
6	Swanand Ajgaonkar	Under progress	<b>Hydrogeological studies of Lingusugur taluk, Raichur District, Karnataka</b>
7	Sujith Kulkarni	Under progress	<b>Integrated hydrological studies of Shorapur taluk, Yadgir districts, Karnataka.</b>
8	Vinayak Lohar	Under progress	<b>Hydrogeological and hydrogeochemical Studies of Hirehalla Watershed Chikkodi and Gokak Area, Belagavi District, Karnataka Using Remote sensing and GIS techniques</b>

9	Riyaz A.S	Under progress	<b>Hydrogeological studies of Raichur taluk, Karnataka using remote and GIS techniques.</b>
10	Basavaraj Chikkasumshi	Under progress	<b>Integrated Hydrogeological Studies of Hiranyakeshi Water Shed, Belgaum District, Karnataka, India using Remote Sensing and GIS Techniques</b>

### **MEMBERSHIP OF PROFESSIONAL BODIES**

- a. Life member of Geological Society of India
- b. Life member of Mineralogical Society of India
- c. Life member of Science Academy
- d. Life member of Mining Engineering Association

### **OTHER WORKS**

1. Working as Head, Department of Geology, Karnatak Science College, Dharwad.
2. Worked as a Chairman, Karnatak Science College Gymkhana for cricket, Football and Hockey departments.
- c. Worked as a member of B.Sc admission committee.
- d. Worked as a Geology study circle chairman, Department of Geology, Karnatak Science College, Dharwad.
- e. Worked as a member of scholarship committee in Karnatak Science College, Dharwad.
- f. Worked as a member of Hostel admission committee.
- g. Working as a member of Prof. Taijaswi Kattimani trust, Dharwad.
- h. Working as a Groundwater consultant for farmers.
- i. Lecture delivered on Groundwater harvesting and water management for former under UGC extension programme
- j. Worked as a Warden, Krishna and Godavari hostels, Karnatak Science College, Dharwad.

## TRAINING COURSES ATTENDED

### Refresher Courses

1. UGC sponsored Refresher Course on “Recent Trends in Micropalaeontology and Stratigraphy” at Department of Geology, Bangalore University, Bangalore, from 01-02-1999.
2. UGC sponsored Refresher Course in Material Science (Geology) at Academic staff college, University of Mysore, Mysore from 11-3-2009 to 31-3-2009.
3. UGC sponsored Refresher Course in Environmental Science at Academic Staff College, University of Madras, Chennai from 22-10-2009 to 11-11-2009.

### Orientation courses

1. UGC sponsored Orientation Programme at University of Mysore, Mysore, from 07-07-2004 to 03-08-2004.

### Summer programme

1. DST sponsored Summer training programme in Geospatial technologies and application at Smt. Chowgalebai Arts and Science college, Madagoa, Goa from 10-5-2012 to 30-5-2012.

## LIST OF PUBLICATION /PAPER PUBLICATION

1. Ugarkar, A.G., **Manjunatha, S.** and Solankar, S.N. (2003) Geology, mineralization and tectonic setting of granitoid hosted Precambrian Machanur copper deposit, Eastern Dharwar Craton. Indian Mineralogist, v.37, No.2, pp.50-63.
2. **Manjunatha, S.**, Ugarkar., A.G., Solankar, S.N. and Suresha K.J. (2005) Fluid Inclusions associated with the copper mineralization at Machanur, Karnataka. Indian Mineralogist, Sp.v.1, pp.10-15.
3. Ugarkar, A.G., **Manjunatha, S.** and B.V. Nadagouda. (2007) Geology Petrography, Mineralogy and Geochemistry of Precambrian Granitoid Hosted Machanur Copper Deposit of Karnataka, India. Bull. Indian. Geol. Assoc., v. 40, No. 1-2, pp.13-25.
4. **Manjunatha, S.** and Ugarkar, A.G. (2008) Mineral Chemistry of ore zone of Machanur copper deposit, Karnataka. Jour. Appl. Geochemistry, v.10, No.1, pp.79-93.ISSN: 0972-1967.
5. **Manjunatha, S.** and Ugarkar, A.G. (2011) Physicochemical characteristics of ore fluids of granitoid hosted Kallur copper deposit, Eastern Dharwar craton. International Journal of Earth Science and Engineering, v.04, No.1, pp.26-33.ISSN:**0974-5904**
6. Pujar, G.S. and **Manjunatha, S.** (2011) Statistical analysis of Kaladgi quartzarenites around Belgaum, Karnataka State. International Journal of Earth Science and Engineering v.04, No.3, pp.522-531.ISSN:**0974-5904**

7. Lakshamma., Nagaraju.D, Mahadevaswamy, G. Siddalingamurthy.S., **Manjunatha**. (2011) Morphometric analysis of Gundal watershed, Gundlupet taluk, Chamarajanagar district, Karnataka, India. International Journal of Geomatics and Geosciences. v 1, No 4, pp.758-775.
8. Sunil Kumar, R.K., Suresh Kumar B.V. and **Manjunatha, S** (2012) Estimation of surface and ground water pollution due to mining activity by geo-chemical methods and re-vegetation site selection using remote sensing and gis techniques in the parts of the sandur schist belt, south India. Journal of nature, Environment and Pollution Technology, v.11, No.(3), pp.403-408. ISSN:0972-6268
9. M.A.Malapur, S., **Manjunatha, S.**, Chandan Kumar, B. and A.G.Ugarkar (2012) Ore fluids associated with the metasediment hosted central auriferous zone of Gadag gold field, Karnataka. International Journal of Earth Science and Engineering, v.5, No.5, pp.402-492, .ISSN:0974-5904
10. **Manjunatha S.** and Devithuraj, J. (2013) Morphological analysis of Upper Bennihalla basin Karnataka, India. In Special issue on Hydrology and Water Resources International Journal of Earth Science and Engineering, v.6, No.5 (01), pp. 1213-1221. .ISSN:0974-5904
11. Devithuraj, J. and **Manjunatha, S.** (2014) Groundwater fluctuation in Upper Bennihalla Basin, Karnataka. In Indian Journal of Applied research. V.4, issue.3, pp.202-204. ISSN:2249-555X
12. Devithuraj, J. and **Manjunatha, S.** (2014) Hydrogeochemical analysis of groundwater of Upper Bennihalla basin Karnataka. Jour. Appl. Geochemistry. V.16, No.2 pp.148-160. ISSN: 0972-1967
13. Devithuraj, J. and **Manjunatha, S.** (2014) Assessment of groundwater quality for drinking and irrigation purposes of Upper Bennihalla basin, Karnataka. Journal of Nature, Environment and pollution Technologies. V.13, No.1, pp.57-62. ISSN:0972-6268.
14. **Manjunatha S.** and Davithuraj J. (2014) Evaluation of Groundwater Quality in Shallow and Deep Aquifers in Parts of Uttara Kannada District, Karnataka. International Journal of Recent Trends in Science And Technology, ISSN 2277-2812 E-ISSN 2249-8109, Volume 11, Issue 1, 2014 pp 95-104.
15. **Manjunatha, S.**, Prakash Narasimha and Ugarkar, A.G. (2015) Ore fluids associated with the gold mineralization in Mangalur, Karnataka. Jour. Appl. Geochemistry. V.17, No.3 pp.290-295, ISSN: 0972-1967.
16. Vishwanath.R, Prakash Narasimha.K.N and **Manjunath. S** (2015) X-ray, EPMA, FTIR and TGA studies of vermiculitized micas in the mafic rocks, kamasamudra, kolar schist belt, eastern Dharwar craton, south india. African Journal of Geo-Science Research, 3(4): 15-18 ISSN: 2307-6992.

17. Basavaraj Chikkasamshi, **Manjunatha. S.**, .Raju sukhaye and Chandan Kumar, B (2016) Evaluation of groundwater quality of Chintamani taluk, Karnataka. International Research Journal of Earth sciences, vol.4 (2),15-22, ISSN:2321-2527.
18. Davithuraj., Raju sukhye and **Manjunatha. S.** (2016) Hydrogeological condition of Uttara Kannada district, International journal of Geology and Earth Sciences ISSN 2395-647X ,Vol. 2, No. 1,pp.31-46.
19. **Manjunatha. S.**, Raju Sukhaye and Davithuraj J.(2016) Hydrochemical facies and assessment of groundwater for drinking purpose in Goa,India,International journal of Earth Science and Engineering, v.09,No.01, pp.35-42. ISSN:**0974-5904**
20. Prakash Narasimha.K.N, Vishwanath.R, Suresh Kumar and **Manjunath. S (2016)** Mafic rock hosted Vermiculite occurrence from Ajjampalli area, kolar schist belt, eastern Dharwar craton, south India.International Journal of Earth Science and Engineering, v.09, No.01, pp.150-156, .ISSN:**0974-5904**
21. **Manjunatha, S** and Ugarkar, A.G. (2016) Mineralization and fluid inclusions studies of precambrian granitoid hosted copper occurrences, eastern Dharwar craton. Journal of Applied Geochemistry, V.18,No.3, pp.271-278, ISSN: 0972-1967
22. **Manjunatha. S.**, Dalwai M, Raju Sukhaye and Davithuraj J.(2016) Study of ground water potential zone of Karanja river basin using remote sensing and GIS techniques International Journal of Geomatics and Geosciences. v 6, No 4, pp.1782-1795, ISSN: 0976-4380
- 23.**Manjunatha, S**,Raju Sukhaye, S. Pujar G. S and Chandan Kumar, B (2016). Petrography and Geochemistry of Proterozoic clastic sediments of Naragund, Karnataka, India: implications for their provenance and tectonic settings. Journal of Earth Science and Engineering, v.09, No.05, pp.1983-1988, .ISSN:**0974-5904**
24. **Manjunatha. S.**, Dalwai M, Raju Sukhaye and Davithuraj J. (2017) Morphometric analysis Karanja river basin using remote sensing and GIS techniques. Journal of Geoscience Research (Gondwana Geological Magazine),v.2, No.1, pp.45-53., ISSN:2455-1953.
- 25, **Manjunatha.** Sand Raju Sukhaye (2019) Geochemical and Petrographic studies of Proterozoic sandstone of Dhumwad, Karnataka, India:Implications on Provenanceand Tectonic Setting.India Journal of Applied Geochemistry. Vol 19,No.2, pp-120-136.
26. Chandrashekhar Kalyani, **Manjunatha S**, Swanand A. Ajgaonkar(2019) Assessment of Groundwater Quality for Drinking and Irrigation Purposes of Shalmala River Sub-Basin, Dharwad District, KarnatakaJETIR (ISSN-2349-5162) Volume 6, Issue 5.

27. Chandrashekhar Kalyani, **Manjunatha S**, Swanand A. Ajgaonkar (2019) Physico-Chemical Characteristics of Shalmala river sub-basin, Dharwad District, Karnataka. JETIR (ISSN-2349-5162) Volume 6, Issue 6
28. Chandrashekhar Kalyani, Swanand A. Ajgaonkar and **Manjunatha S**(2020) Impact of precipitation, temperature and humidity on groundwater fluctuation in Shalmala river sub-basin Dharwad district, Karnataka, India Vol 11, Issue 4 , April/2020 ISSN NO:0377-9254, pp-824-830.
29. Swanand A. Ajgaonkar and **Manjunatha S** (2020). A GIS based assessment of Morphometric analysis of Lingasugur Taluk in Raichur District, Karnataka, India. Vol 11, Issue 4 , April/2020 ISSN NO:0377-9254, pp.857-865.
30. Chandrashekhar Kalyani, Swanand A. Ajgaonkar and **Manjunatha S** (2020) Morphometric analysis of Shalmala river subbasin Dharwad district, Karnataka, using RS and GIS techniques. vol 11, issue 4 , April/2020 ISSN NO:0377-9254, pp. 882-889.
- 31. Manjunatha. S.**, Dalwai M, Raju Sukhaye and Swanand A. Ajgaonkar(2021) Hydro-geochemistry and suitability of groundwater for drinking and irrigation purpose of the Karanja River Basin (KRB), Bidar District, Karnataka, India. Journal of Applied Geochemistry (Accepted).
32. Swanand A. Ajgaonkar and **Manjunatha S** (2021). Groundwater Quality Assessment in Lingasugur Taluk, Karnataka Using Water Quality Index (WQI) and Geographic Information System. Indian journal of environmental protection (Accepted)
33. Swanand A. Ajgaonkar and **Manjunatha S** (2021). Mapping of Groundwater potential zones in Lingasugur Taluk in North-eastern part of Karnataka, India, using Remote Sensing, GIS, and multi-criteria data analysis. Disaster Advances(Accepted)

#### **PAPERS PRESENTED IN NATIONAL/INTERNATIONAL SEMINARS/CONFERENCES/SYMPOSIUMS**

1. International seminar on Earth and Resource Management, Department of Geology, Kuvempu University, Shimoga, from 28-01-2004 to 30-01-2004.
2. National seminar on Earth Resources and sustainable Development organized by Department of Earth Science, Annamalai University, Annamalai Nagar, Chidaram during 23<sup>rd</sup> and 24<sup>th</sup> February 2005.
3. National Symposium on “Geological Processes, Mineral and Fossil Fuel Exploration and Environmental Geology” at Departmental Geology, Anna University Chennai during 26-28, November 2009.



4. National seminar on Geodynamics and Mineral Resources of Proterozoic basins of India (GAMP-2010) held at Yogi Vemana University Kadapa, Andhra Pradesh, India during 4-6<sup>th</sup> March 2010.
5. International conference on “Sustainable water resource development and management”, organized by Department of Environmental Science, Shivaji University, Kholhapur, from 20-12-2012 to 21-12-2012.
6. UGC sponsored National seminar on “Coastal Environmental and Their Management” at Department of Marine Geology, Mangalagangothri, Mangalore University, Mangalore during 21-01-2013 to 23-01-2013.
7. National seminar on” Current Trends of Research in Precambrian Geology and Vision-2020”organized by XIII convention of Mineralogical Society and Department of Geology, University of Mysore, Mysore during 20-03-2013 to 21-03-2013.
8. International Conference & exhibition on “Integrated water, Wastewater & Isotope Hydrology” organized at Department of Civil Engineering, UVCE, Bangalore University, Bangalore during 25-7-2013 to 27-7-2013.
9. UGC sponsored National Seminar on “Linking of river: Boon or Bane” held at SKL Society’s Govindram Seksaria Science Degree college, Belgaum on 13 & 14 September 2013.
10. International Conference on “Environmental Management for Sustainable Development” organize by Department of Geography, Karnatak University’s Karnatak Science College, Dharwad, India on 20-21<sup>th</sup> December 2013.
11. International seminar on Sedimentary processes and Metallogeny through Time (SPMT)-2014 on 21<sup>st</sup> to 23<sup>rd</sup> January 2014, organized by SDM Engineering College, Dharwad.
12. National seminar on “Recent Advances in Research on Precambrian Terrains in India” organized by XIV convention of Mineralogical Society and Department of Earth Science, University of Mysore, Mysore on 31<sup>st</sup> March 2015.
- 13.UGC sponsored National seminar on “Estuaries of India; past, present and future” organized by department of Geology, S.K.E Society ‘s G.S.S. College, Belgavi from 24.07.2015 to 26.7.2015.
14. UGC sponsored two days national seminar on Earth Resource assessment and management during 24<sup>th</sup> and 25<sup>th</sup> November 2015at Department of Applied Geology, Kuvempu University, Shimoga.
15. International conference on “Geoscience and Environment” and 32 Annual convention of Indian Association of Sedimentologist and One day workshop on Shale Oil & Gas

Exploration organized by department of Earth Science, Annamalai University, Annamalainagar, Tamil Nadu, India from 7<sup>th</sup> to 10<sup>th</sup> January 2016.

16. National symposium on “ Geoscientific Approaches for Sustainable Future of Life and XL the Indian Social congress held during 19-23, December 2016, at Manasagangtri Campus of the University of Mysore, Mysore.

17. National seminar on “Zeolites and Allied Mineral Deposits of India” organized by department of Geology, G.S.S College, Belgavi from 6-7 October 2017.

18. National Seminar on Waste Water Management and Sustainable Development” organized by department of Geology, S.K.E Society ‘s G.S.S. College, Belgavi from 21.01.2018 to 22.01.2018.

19. National Seminar “Challenges and Opportunities in Earth Science Education and Research” organized Department of Studies in Earth Science, University of Mysore, Mysore held during 29.02.2018 to 30.02.2018, at Manasagangtri Campus of the University of Mysore, Mysore.

20. International seminar on “ Earth Resource and Sustainability” organized by the School of Earth science, Central University of Karnataka, Kalaburagi on 19<sup>th</sup> and 20<sup>th</sup> February 2018.

#### **WORKED AS CHAIRPERSON / RAPPORTEUR IN NATIONAL/INTERNATIONAL SEMINAR/CONFERENCES**

1. Acted as Rapporteur for the technical sessions of the international conference on ‘environmental management for sustainable development’ organize by Department of Geography, Karnatak University’s Karnatak Science College, Dharwad, India on 20-21<sup>th</sup> December 2013.

2. Acted as Rapporteur for the session 1 of the National symposium on “Geoscientific Approaches for Sustainable Future of Life and XL the Indian Social congress held during 19-23, December 2016, at Manasagangtri Campus of the University of Mysore, Mysore.

3. Acted as Chairman in the International seminar on “ Earth Resource and Sustainability” organized by the School of Earth science, Central University of Karnataka, Kalaburagi on 19<sup>th</sup> and 20<sup>th</sup> February 2018.

#### **WEBINARS/ ONLINE CONFERENCES ATTENDED**

1. International Conference on Water Resources conducted by Central University of Karnataka, Kalaburgi. 16-17<sup>th</sup> Oct 2020

2. International Webinar on ‘Climate change, geo-hazard, and sustainable development’ conducted by Karnatak science college, Dharwad. 26-27 Nov 2020

3. National Webinar on ‘Why and How to Reconstruct the past climate using foraminifera (Microfossil) in Holocene marine sediments of India?’ Conducted by University of Mysore, Mysuru. 10 Dec 2020
4. National Webinar on ‘Springwater supply and its sustainability in parts of western ghat regions’ Conducted by National Institute of Hydrology, Hard rock regional center, Belagavi. 28-29 Dec 2020

#### **WORKSHOPS ATTENDED ATTENDED**

1. Workshop on “TRANSACTING THE SYLLABI” on 6<sup>th</sup> August 2005 in the Department of Geology, Karnatak Science College, Dharwad,
2. Workshop on “ REAPPRAISAL OF MINING AND ENVIRONMENTAL ISSUES” during 1st September 2006 in the Department of Geology, Janana Bharathi, Bangalore University, Bangalore.
3. Workshop on “Personality Development, Career Guidance and Communication Skills” organized by Karnatak Science college, Dharwad on 20<sup>th</sup> March 2007.
4. One day Workshop of “ Water and Food Security” as a part of World Water Day Celebrations held on 22<sup>nd</sup> March 2012, organized National Institute of Hydrology, Hard rock regional centre, Belgaum in association of Mining Engineers Association of India at Karnatak Science College, Dharwad.
5. UGC sponsored one day workshop on “Awareness on Remote Sensing, GIS and GPS” at Department of Geography, Karnatak Science College, Dharwad on 8<sup>th</sup> March 2012.
6. A two days workshop on “Geoinformatics for Natural Resources Management” from 9<sup>th</sup> and 10<sup>th</sup> November, 2012 at SDM Engineering College, Dharwad.
7. International workshop (8 days). on Magmatic deposits (PGE, Ni-Cu-Sulphide, Cr, Ti and V) jointly organized by Geological Society of India, Bangalore, Geological Survey of India, Bangalore, Jadavpur University, Kolkata, and Department of studies in Earth Science, University of Mysore, Mysore from 1-12-2012 to 8-12-2012
8. One day Workshop on “Limestone and Dolomite Deposits of India” organized Mining engineers Association, Belgaum Chapter, Belgaum on 07.01.2018.

#### **IN NATIONAL/INTERNATIONAL SEMINARS/CONFERENCES/SYMPOSIUMS ATTENDED**

1. National Seminar of Recent Advances of Mineral Sciences and their Applications held at Department of Geology, University of Mysore, Mysore during 17<sup>th</sup> -18<sup>th</sup> March 2011.

2. XXIV AHI National Seminar on “Hydrology” with special reference to “Urban Groundwater Pollution” organized by Association of Hydrologists of India and Department of studies in Geology, Karnataka University, Dharwad held during 27<sup>th</sup> -28<sup>th</sup> December 2005.
3. Seminar on “Atomic energy for Development of the Nation” organized at Karnatak Science College, Dharwad on Saturday the 2<sup>nd</sup> September 2006 in association with the Indian Nuclear Society.
4. UGC Extension Programme on “Rain Water harvesting and Water Management” an awareness programme conducted at Harogeri, Belgaum District on 1<sup>st</sup> March 2007.
5. National Seminar of “Integrated Water Management Challenges Ahead” organized by G.S.S College Belgaum on 9-03-2007 to 10-03-2007.
6. 15<sup>th</sup> Convention of Indian Geological Congress and National Seminar on “ Geoexploration and Metal Mining: vision 2025” . Department of Studies in Geology, Karnatak University Dharwad on 27<sup>th</sup> -29<sup>th</sup> September 2007.
7. International Seminar on “Crustal Evolution Sedimentary Processes and Metallogeny” from 28<sup>th</sup> to 30<sup>th</sup> November, 2007, organize by Department of Civil Engineering, S.D.M college of Engg. And Tech., Dharwad and Geological Society of India.
8. Practical applications of Remote Sensing, Photogeology and Hydrology on 28.01.2008 at Department of Studies in Geology, Karnatak University, Dharwad.
9. National seminar on Konkan coastal DEED (Diversity, Environment, Ecology and Development) at G.S. Science college, Belgaum on 12 -13<sup>th</sup> September 2008.
10. National Seminar on Hydro-Fracturing, Rainwater harvesting and other techniques for enhancing the yield of groundwater structures on 18-02-2010 at Belgaum.
11. National Seminar of Resent Advances of Mineral Sciences and their Applications held at Department of Geology, University of Mysore, Mysore during 17<sup>th</sup> -18<sup>th</sup> March 2011.
12. Orientation programme for translators in Kannada from 22<sup>nd</sup> February 2012 at Prasaraanga Kuvempu University, Jnanasahyadri, Shankaragatta, Shimoga under Department of higher education, Ministry of Human Resource Development, Govt. of India.
13. National seminar on “ Geospatial and Ecological Mapping of Biodiversity Tools & Techniques, 2012” at Department of Earth Science, University of Mysore, Mysore under Institution of Excellence Project financed by MHRD, UGC, Govt of India during 30-5-2012 to 31-5-2012

14. Postgraduate Earth Science special lecture series program from 29<sup>th</sup> to 31<sup>st</sup> October 2014 jointly organized by Karnataka Science and Technology academy, Government of Karnataka and Department of Earth Science, University of Mysore, Mysore

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