

CURRICULUM VITAE

Dr. K. N. Anuradha
No 17, 'Honalu'
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Apporva Layout Bangalore
Nagarabhavi, Bengaluru – 560072

Professor
Dept. of Physics
Dr. Ambedkar Institute of Technology
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1. Personal Profile

| Sl. No. | Particulars | |
|---------|--|---|
| 1. | Name (in Capital letters) | Dr. K. N. ANURADHA |
| 2. | Date of Birth& age | 27-09-1965 , 51 years |
| 3. | Academic Qualification | Ph.D. (IISc) |
| 4. | Present Post held | Professor |
| 5. | Name of the Institution and address | Dr. Ambedkar Institute of Technology, Outer Ring Road, Mallathahalli Bengaluru - 560056 |
| 6. | Date of joining (Dr. AIT) | 01-04-1992 |
| 7. | Name of the Department | Physics |
| 8. | Total length of Service in the Institution | 24 years and 8 months |
| 9. | Total research experience | 13 years |

2. Service Profile:

| Institution | Designation | From – To | Total Service (Years) |
|-----------------|--------------------------|----------------------------------|-----------------------|
| Dr.AIT | Professor | 2009 onwards | 6 years 8 months |
| Dr.AIT | Associate Professor | 2006 - 2009 | 3 |
| Dr.AIT | Selection grade lecturer | 2003-2006 | 3 |
| Dr.AIT | Senior lecturer | 1998- 2003 | 5 |
| Dr.AIT | Lecturer | 1992 – 1998 | 6 |
| PVP Polytechnic | Teaching Assistant | 1988 to 1992 | 3 years 5 months |
| | | Total teaching experience | 27 years |

3. Academic Qualifications (Starting from the Latest)

| Degree | University / Institution | Year of award | Specialization |
|--------|-----------------------------|---------------|---|
| Ph.D. | Indian Institute of Science | 2008 | Synthesis and EPR studies of nanomanganites |
| M.Sc. | Mangalore University | 1988 | Nuclear Physics |
| B.Sc. | Mangalore University | 1986 | PCM |

4. Membership of professional Bodies:

| Membership of professional Bodies | Nature of membership |
|--|----------------------|
| Asia-Pacific EPR/ESR Society | Life member |
| Indian Society for Technical Education (ISTE) | Life member |
| Luminescence Society of India: Karnataka Chapter (LSIKC) | Life member |

5. Research Activities:

Research Interest: Primary scientific interests are in broad areas of strongly correlated systems like manganites. Well experience in synthesizing nanoparticles and nanowires of manganite of different sizes by sol-gel method and by hydrothermal method. Knowledge in different techniques like SEM, TEM, XRD, EDXA, SQUID and EPR spectroscopy. Experience in measurements in extreme conditions: low temperatures (Liquid helium) and high magnetic fields.

6. Details of Externally Funded Projects:

| Title of Project | Agency sponsored Dr.AIT/VTU/AICTE/ DST etc. | Duration of project | Research grant, Rs. | Status of the faculty in the project | Status of the project |
|----------------------------|---|---------------------|---------------------|--------------------------------------|-----------------------|
| Synthesis of Nanomaterials | VTU | 2010 – 14 | 8 lakhs | Principal Investigator | Completed. |

7. Research awards:

| Research award | Agency conferred | Year of award |
|----------------------------|--|---------------|
| Young Scientist award | Women Scientists Forum “Matru Vedike” Bengaluru | 2011 |
| Summer Research Fellowship | Indian Academy of Science, Bengaluru (worked on the project entitled “ Size induced charge order melting in $\text{Nd}_{0.7}\text{Ca}_{0.2}\text{MnO}_3$ Nanomanganite” during June and July- 2010) | 2010 |

7. Outcome of Research Activities:

Research publication(International journal): 08
 Papers presented in International/National conferences: 30
 International conference conducted : 01
 Seminar/Conference /conducted : 03
 Seminar/Conference /workshop attended --- : 20

8.Ph.D. Guidance:Research supervisor under VTU, Belagavi and guiding 4 students for Ph.D. degree

9. Outreach Activities:

| Sl.No. | Outreach Activity | Details |
|--------|---|--|
| 1. | Member of Committee/s | Asia-Pacific EPR Society council member 2014-16, Country Representative |
| 2. | Member of International Advisory Board | Asia Pacific EPR Symposium -2016 |
| 3. | Invited Speaker | 1. Asia Pacific EPR Symposium to be held in the month of August, 28 th to September 2 nd 2016 at Irkutsk, Russia. |
| 4. | Scientific Committee member | 2 nd Indo-Canadian Symposium held at NIE Mysore from 18-19 Feb. 2016 |
| 5. | As External expert in InterviewCommittee | DRDO DRTC Assessment Board – 2015 and 2014 |
| 6. | As external judge Paper competition | RNSIT, Bangalore – 5 th May 2011 |
| 6, | As subject expert in InterviewCommittee | Silicon City College – 24 th April 2010 |
| 7. | Resource person in other Institutions | Invited as a resource person 1. Acharya Institute of Technology, Bengaluru - 2010 2. UVCE, Bengaluru --2009 |
| 8. | As subject expert in InterviewCommittee | PVP Polytechnique.- 13 th April 2009 |
| 9. | As subject expert in InterviewCommittee | PVP, PU College 2008 – 31 st May 2008. |

8. Other Responsibilities

| Sl No | Activities | Designation | Year |
|-------|--|-------------------------|-------------------------|
| 1. | Academic audit committee | Convener | 2015 |
| 2. | Research Progress Review committee(RPRC) | Co-ordinator | 2013 onwards |
| 3. | UGC | Department co-ordinator | 2015 |
| 4. | Science and Technology Club | Member | 2010 onwards |
| 5. | Class Monitoring committee | Member | 2010-11 |
| 6. | Examination related activities | Coordinator – CIE I | 2014 |
| 7. | Academic Monitoring committee | | 2009 |
| 8. | Enquiry committee Responsibility given by Secretary - PVPWT | Member | 2009 |
| 9. | Administrative Responsibilities | Ladies Hostel Warden | Feb.1997-2002 |
| 10. | Question paper setter for 1.Dr.AIT 2.VTU | ----- | 2011 onwards 2010-11 |

9. Participation in extracurricular Activities:

| Sl No | Activities | Name of the game | Prize | Year |
|-------|------------|-------------------------|-------------|--|
| 1. | Sports | 100 m fast walking race | First prize | Annual sports and games held at Dr.AIT during 2009-2010. |
| 2. | Sports | 100 Mtrs race | First prize | Annual sports and games held at Dr.AIT during 2007-2008. |

10. Details of Consultancy:

| Sl.No. | Name of the college | Facilities used | Purpose | Earnings to Dr.AIT |
|--------|---------------------|-------------------------------|----------|--------------------|
| 1 | SJBIT, Bengaluru | Physics research lab facility | Research | Rs. 5000/- |

Details of Journal Publications

1. Effect of Size Reduction on Magnetic Ordering in $\text{Sm}_{2-x}\text{Ca}_x\text{MnO}_3$ ($x = 0.35, 0.65$ and 0.92) Manganites: Magnetic and EMR Studies.

Applied Magnetic Resonance ISSN 0937-9347, DOI 10.1007/s00723-015-0647-6, Published online Feb.2015

(Springer publishers). *Lora Rita Goveas, Anuradha K.N., K. S. Bhagyashree and S.V.Bhat*

2. Comparative study of magnetic ordering in bulk and nanoparticles of $\text{Sm}_{0.65}\text{Ca}_{0.35}\text{MnO}_3$: Magnetization and electron magnetic resonance measurements.

Journal of Applied Physics, 117, 17E111 (2015); doi: 10.1063/1.4913722, Page 1-4,

(American Institute of Physics publishers (AIP)). *Lora Rita Goveas, Anuradha K.N., K. S. Bhagyashree and S.V.Bhat*

3. Electron Magnetic Resonance Studies of Nanosized $\text{Nd}_{0.65}\text{Ca}_{0.35}\text{Mn}_{1-x}\text{Cr}_x\text{O}_3$ ($x = 0, 0.06, 0.1$) Manganite

Applied Magnetic Resonance ISSN 0937-9347, DOI 10.1007/s00723-015-0682-3, Published online March 2015 (Springer publishers)

4. Size Dependent Magnetic Properties of $\text{Nd}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ Nanomanganite, **IOP Conf. Series: Materials Science and Engineering**, 73 (2015) 012007, DOI 10.1088/1757-899X/73/1/012007

Page 1-8, *Anuradha K.N., Koushalya P.R. and S.V.Bhat*

5. EPR Evidence for Premonitory Charge-Ordering Fluctuations in hydrothermally grown $\text{Pr}_{0.57}\text{Ca}_{0.41}\text{Ba}_{0.02}\text{MnO}_3$ nanowires

Applied Magnetic Resonance, 36, 347-356, (2009), K N Anuradha, S S Rao and S V Bhat,

6. EPR Evidence for Premonitory Charge-Ordering Fluctuations in Nanomanganite

$\text{Pr}_{0.57}\text{Ca}_{0.41}\text{Ba}_{0.02}\text{MnO}_3$,

Applied Magnetic Resonance, 33, 127-136, (2008), K N Anuradha, S S Rao,

Ajay Sharma and S V Bhat

7. Complete melting of charge order in hydrothermally grown $\text{Pr}_{0.57}\text{Ca}_{0.41}\text{Ba}_{0.02}\text{MnO}_3$ nanowires,

Journal of Nanoscience and Nanotechnology 7, 1775-1778 (2007), K N Anuradha, S S Rao

and S V Bhat,

8. Weakening of charge order and anti ferromagnetic to ferromagnetic switch over in

$\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ nanowires,

Appl. Phys. Lett., 87, 182503-182504 (2005), S S. Rao, K N Anuradha, S Sarangi and S V Bhat