



Dr. K. ANKAMA RAO
Professor, Department of Physics
VKV Govt Degree. College, Kothapeta, East Godavari(Dt), A.P. India.

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- Name of the lecturer/ Reader/Principal : **Dr. K. ANKAMA RAO**
- Designation : **Lecturer in Physics,
VKV Govt. Degree. College
Kothapeta**
- Qualifications : **M. Sc.M. Phil., Ph.D**

PG : **M.Sc**
Subject : **Physics**
University : **Acharya Nagarjuna University**
Year of pass : **1995**

M.Phil : **Registered in 2007**
Subject : **Thermoluminescence**
University : **Madurai Kamaraj University**
Year of award : **2008**

Ph.D : **Completed Ph.D Under FDP Programme**
Subjec : **Thermoluminescence**
University : **Acharya Nagarjuna University**
Year of Registration : **2009**
Year of Award : **2012**

Name of the Research Topic: **M.Phil –Thermally stimulated luminescence study of silicate Minerals.**

: Ph.D –Thermoluminescence Dosimetry studies of Industrially Important minerals.

Date of Joining in Service : 14-03-1997

Date of joining in the present station: 11-10-2021

LIST OF REFRESHER COURSES AND ORIENTATION COURSES ATTENDED:

- Orientation Courses Attended : **01**

U.G.C. Sponsored Orientation Programme, Organized by University Grants Commission Academic Staff College, Sri Venkateswara University, Tirupati, A.P. India, from 21-04-2003 to 17-05-2003.

- Details of Refresher Courses attended with dates:

Refresher Courses Attended : **04**

1. ***U.G.C. Sponsored Refresher Course in Physics***, Organized by Department of Physics, Nagarjuna University, Nagarjuna Nagar, A.P. India, from 09-08-2002 to 08-09-2002.
2. ***U.G.C. Sponsored Refresher Course in Environmental Education***, Organized by Department of Environmental Sciences, Nagarjuna University, Nagarjuna Nagar., A.P. India, from 01-12-2004 to 21-12-2004.
3. ***U.G.C. Sponsored Refresher Course in Research methodology***, Organized by University Grants Commission Academic Staff College, Osmania University, Hyderabad, A.P. India, from 01-02-2008 to 22-02-2008.
4. ***U.G.C. Sponsored Refresher Course in Information Technology***, Organized by University Grants Commission Academic Staff College, Sri Venkateswara University, Tirupati, A.P. India, from 22-02-2010 to 13-03-2010.

- Area of specialization : **Thermoluminescence**

- Research Publications : **21**
(National & International Journals)

- What type of teaching method are you following?

Classes have been conducting by using Black Board and e-Class room with Touch Screen board and LCD Projector, Teacher and Student Interaction Method, Study Projects, Class room Seminars are used to Understand the subject to the Students – B.Sc., Physics practicals - Experimental and demonstration.

Remedial Classes are conducting for Slow Learners.

- Active role in the institution in addition to teaching.

1) **Working as a “STAFF – GUARDIAN” for Students.**

- 2) **Acting as auditor for Interdepartmental audit in V. S. R & N. V. R College, Tenali (Autonomous), A.P. India.**
- 3) **Head, Department of Physics, V.S.R & N.V.R College, Tenali (Autonomous), A.P. India, from 12-12-2012 on words.**
- 4) **Convener for Examination Committee, V.S.R & N.V.R College, Tenali (Autonomous), A.P. India, from 2012-2021.**
- 5) **SIP Coordinator 2019-2021**
- 6) **APOSS Book editor**

- **Mention the committees in which you are a member**

1. Member Audio visual committee

2. Member NAAC Criteria Healthy practices

3. Member Students Amenities Committee

4. Member in Cultural Committee

5. Member in Sports Committee

6. Member Research Bulletin Committee

7. Member NAAC Criteria Infrastructure

8. Convener Examination Committee

9. Member in Research Committee

10. Convener NAAC Criteria IV

- **Research Contributions :**

Major part of my research work has been related to Thermoluminescence, it has wide scope of research viz dosimetric study, T.L growth and decay study of mineral at different annealing and quenching temperatures, of natural minerals and industrially important minerals.

- **Membership of any organization and the role you play :**

1. A Life Member of LSI (Luminescence Society of India).

- **Any talent to be focused**

1. Visited JKC College, Guntur and AC College Guntur as Academic Advisor and to Conduct Academic Audit on 25. 03. 2014 & 26.03.2014 respectively by the orders of Commissionerate of Collegiate Education, Government of Andhra Pradesh.

2. Visited SSBN College, Ananthpur as Academic Advisor and to Conduct Academic Audit on 01. 04. 2016 by the orders of Commissionerate of Collegiate Education, Government of Andhra Pradesh.

3. Local organizing committee member for the International Seminar on “LUMINESCENCE AND MATERIALS” Conducted on 7th January 2016, at DS Govt. Degree College for Women, Ongole.

4. Visited Sayyad Appala Swamy College, Vijayawada as Academic Advisor and to Conduct Academic Audit on 16. 03. 2018 & 17. 03. 2018 by the orders of Commissionerate of Collegiate Education, Government of Andhra Pradesh.

- How do you motivate students to develop research bent of mind?

By conducting Study Projects and Group Discussions among the students in class rooms.

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- Details of National Seminars attended in and outside our college.

- **National Seminars/ Conferences/workshops:**

1) Organised : **01**

2) Attended

National Seminar : **36**

National Workshops : **07**

International Seminar : **03**

LIST OF SEMINARS /CONFERENCES /WORKSHOPS PARTICIPATED/ PAPER PRESENTATIONS:

1. Seminar Cum Workshop on “ APPLICATIONS OF RADIOACTIVITY, NUCLEAR ENERGY AND REACTORS” at V.S.R& N.V.R College, Tenali. on 30th& 31st January 2004.
2. National seminar on “THE IMPACT OF PHYSICS ON MODERN CIVILIZATION” at JMJ College, Tenali On 23rd& 24th June 2005
3. National seminar on “EMERGING TRENDS IN PHYSICS EDUCATION AND EXPERIMENTAL PHYSICS”, at VSR & NVR College, Tenali on 27,28 october,2006.
4. National seminar on “HEALTHY PRACTICES, THEIR IMPACT AND STUDENTS PARTICIPATION” at VSR & NVR college, Tenali 27, 28 February, 2007.
5. National seminar on “CLIMATIC CHANGES AND ITS IMPACT ON BIOSPHERE” at JMJ College, Tenali, in July, 2008.
6. National seminar on “AUTONOMY IN PRINCIPLE AND AUTONOMY IN PRACTICE” at VSR & NVR College, Tenali ,6th December,2008
7. National seminar on “THE ENHANCED RESPONSIBILITIES OF THE TEACHER IN THE GLOBAL CONTEXT” at VSR & NVR College, Tenali, 28 February, 2009.
8. National seminar on “PHYSICS CURRICULUM AND TEXT BOOKS OF +2 LEVEL” at Bapatla College of Arts and Sciences, Bapatla, 1st March, 2009
9. 5th National conference on “THERMO PHYSICAL PROPERTIES” at Applied physics Department, MS University of Baroda, Vadodara on 7-9 October 2009.
10. National seminar on “RAGGING AND VALUE CRISIS” at VSR & NVR College, 13th November, 2009.
11. National Seminar on “ADVANCED MATERIALS FOR DISPLAY AND OTHER APPLICATIONS” at VSR&NVR College, Tenali. 31st May & 1st June, 2010.
12. National seminar on “PHYSICS CURRICULUM AND TEXT BOOKS OF +2 LEVEL” at Bapatla College of Arts and Sciences, Bapatla, 8th August, 2010.
13. National seminar on “NOVEL MATERIALS FOR DISPLAY APPLICATIONS” at SVRM College, Nagaram. 28th&29th October 2010.
14. National Conference on “PHOSPHORS AND THEIR APPLICATIONS” at RNS Institute of Technology, Bengaluru. 15-16 November, 2010.

15. State Level Seminar on “CURRENT RESEARCH AREAS IN PHYSICS” at CNPF Arts& DN Science College, Dabhoi, Gujarat.5th January 2011.
16. National Conference on “LUMINESCENCE AND ITS APPLICATIONS” at Pt.Ravishankar Shukla University, Raipur.7-9 February, 2011.
- 17.National Workshop on “SOFT MATERIALS” at JMJ College for women, Tenali. 24-25 January 2012.
18. 4thInternational conference on “LUMINESCENCE AND ITS APPLICATIONS” at RGUKT & ICT, Hyderabad. 7-10 February, 2012.
19. One Day workshop on LED materials and its Applications and its Applications, 16-06-2012, Held at Department of Physics, SVRM College, Nagaram.
20. National Seminar ON LEARNER CENTERED LEARNING AND INVOLVEMENT OF STUDENTS IN QUALITY ASSURANCE On 30-01-13 Organised at IQAC,VSR & NVR College,Tenali
- 21.National Seminar on Advance Materials and Applications at Sri A.B.R Govt. Degree College, Repalle on 4th January 2014.
22. National Conference on Luminescence and Its Applications (NCLA-2014) at Rani Durgavati Viswavidyalaya,Jabalpur from 5th to 7th February 2014.
23. National Seminar on Industrial Important Materials at V.S.R & N.V.R College, Tenali on 6th November 2014.
24. National Seminar on Display Materials (NSDM-2014) at PBN College, Nidubrolu on 7th& 8th November 2014.
25. National Seminar on Eradication of Pollution – Roll of Science at V.S.R & N.V.R College, Tenali 8th on January 2015.
26. National Seminar on Optoelectronic Device Materials at Bapatla College of Arts & Sciences, Bapatlaon 20th June 2015.
27. National Seminar on Soft skills for survival and success in career and life at V.S.R & N.V.R College, Tenali on 30th September 2015.
28. National Seminar on Green Chemistry for a sustainable and Healthy Economy at V.S.R & N.V.R College, Tenali on 23rd January 2016.
29. National Seminar on ‘Social Responsibility and Ethics in Higher Education’ at V.S.R & N. V. R College, Tenali on 1st September 2017.

30. National Seminar on “Hyperspace of Objects and Micro Controllers” at A.G & S. G Siddartha College of Arts and Science, Vuyyuru on 25th January 2018
31. National Seminar on ‘Problems and Prospects of GST’ at V.S.R & N. V. R College, Tenali on 17th February 2018
32. National Seminar on ‘Recent Trends in Students anti Social behavior- Implications for the future of Education’ at V.S.R & N. V. R College, Tenali on 19th December 2018.
33. One day National Seminar on ‘Skill Development- Need of the Hour’ at V.S.R & N. V. R College, Tenali on 13th February 2019.
34. Training Programme on Training of Teachers for Student Induction Programme” at IIIT Hyderabad on 16 -18 May 2019.
35. National Seminar on ‘Learner Centered Approaches and Effective Class Room Management’ at V.S.R & N. V. R College, Tenali on 9th Feb 2020
36. AIFUCTO XXXI Statutory Conference on “NEP-2020 & The Future of Higher Education-Post COVID Scenario” organized by APGCTA, GCGTA & ACTA AP on 7-9 January 2022 at SV University, Tirupathi

Workshops:

1. National Workshop on “DEVELOPMENT AND MAINTENANCE OF LAB EQUIPMENT” at Maharani Lakshmi Ammani College for Women, Bangalore 24-27 April 2007.
2. National Workshop on “ORGANIZATIONAL CULTURE IN COLLEGES: PARADIGM SHIFT” at St Joseph’s College for women, Visakhapatnam 15-17 November 2007.
3. Work shop on “LED MATERIALS” at ICT, Hyderabad on 6th February 2012.
4. National Level Workshop cum Seminar on “ Translation and National Integration” at Acharya Nagarjuna University, Nagarjuna Nagar, Guntur 18- 25 January 2018.
5. One week orientation workshop on “OER, Content Development, MOOCS and MOODLE” at E & ICT Academy, NIT Warangal from 30-11-2108 to 05-12-2108.
6. Five day work shop on “OER, Content Development, MOOCs & MOODLE” at V.S.R & N. V. R College, Tenali from 07-06-2019 to 11-06-2019.
7. One week work shop on “Teaching and Learning Sustainability” at V.S.R & N. V. R College, Tenali from 14-11-2019 to 20-11-2019.

LIST OF INTERNATIONAL CONFERENCES/ SEMINARS ATTENDED:

1. International Seminar on “SCIENCE AND TECHNOLOGY OF GLASS MATERIALS” at Acharya Nagarjuna university, Nagarjunanagar, 16-19, March 2009.
 2. International conference on “ADVANCED MATERIALS AND ITS APPLICATIONS” at Kalasalingam University, Tamilnadu. 4-5 March 2011.
 3. International Seminar on “LUMINESCENCE MATERIALS” at DS Govt. Degree College for Women, Ongole, A.P on 7th January 2016.
- Number of Research Publications: **21**
(National, International Journals & conference proceedings)

Dr. K. ANKAMARAO List of Research Publications Department of Physics, VKV Govt Degree College

1. **K. Ankama Rao, N.V. PoornaChandra Rao and K.V.R Murthy.**, Quartz mineral grain as Thermoluminescence Dosimeter in Ceramic Tiles. *Proceedings of National Conference on Phosphors and their Applications* 2010, 108-110. ISBN No. 978-81-910787-1-8.
2. **K. Ankama Rao, N.V. PoornaChandra Rao and K.V.R Murthy.**, Low Temperature Thermoluminescence Characteristics of X-Ray Irradiated Tamarind. *International Journal of Research in Pharmaceutical and Biomedical Sciences*: 2011, 2(1) 308-309, ISSN-2229-3701.
3. **K. Ankama Rao, N.V. PoornaChandra Rao and K.V.R Murthy.**, Thermoluminescence Study of Ceramic Tile and Raw Materials. *International Journal of Science Innovations and Discoveries* : 2011, 1(2), 21--28, ISSN: 2249-5347.
4. **K. Ankama Rao, N.V. PoornaChandra Rao and K.V.R Murthy.**, Thermally Stimulated Luminescence Studies of Silicate minerals. *Archives of Physics Research, Scholars Research Library*: 2011, 2(4):89-93 ISSN: 0976-0970
5. **K. Ankama Rao, N.V. PoornaChandra Rao and K.V.R Murthy.**, Thermoluminescence study of Potash Mineral. *Proceedings of National Conference on “Recent trends in physics of solids”*: 2011, 11-12 ISBN: 978-93-81583-24-1.
6. **K. Ankama Rao, N.V. PoornaChandra Rao and K.V.R Murthy.**, Thermoluminescence Dosimetry Study of Ceramic Tile Powder. *International eJournal of Mathematical Sciences, Technology and Humanities* : 2012, 27 264-269, ISSN 2249-5460.
7. **K. Ankama Rao, N.V. PoornaChandra Rao and K.V.R Murthy.**, Thermoluminescence study of Amethyst. *Proceedings of 4th International Conference on “Luminescence and its Applications”* 2012, 07-10. ISBN: 81-6717-806-5.
8. **K. Ankama Rao, N.V. PoornaChandra Rao and K.V.R Murthy.**, Characterization of Ceramic Tiles and Raw materials using Thermoluminescence Technique. *International Journal of Luminescence and Applications* : 2012, 1(I), ISSN 2277-6362.

9. **K. Ankama Rao, N.V.PoornaChandra Rao and K.V.R Murthy.**,Thermoluminence Characterization of Calcite mineral.*International Journal of Porous Materials*: 2012; 2(1):1-6.
10. **K. Ankama Rao, N.V.PoornaChandra Rao and K.V.R Murthy.**,Thermoluminence Characterization of a Ceramic mineral.*World Applied Science Journal*:2012,20(11):1565-1569,ISSN:1818-4952.
11. **K. Ankama Rao, N.V.PoornaChandra Rao and K.V.R Murthy.**,Thermoluminence Study of Scolecite.*Journal of Science Research*:2012, N 3, Vol. 1, p. 7-9.
12. **K. Ankama Rao, N.V.PoornaChandra Rao and K.V.R Murthy.**,Thermoluminescence Study of Ceramic material.KCG, *Journal of Science*:2013,Vol.2(1), ISSN: 2320-0006.
13. **K. Ankama Rao, N.V.PoornaChandra Rao and K.V.R Murthy.**,Thermoluminescence study of Natural mineral Stilbite.*Proceedings of the National Seminar on "Display Materials"*:2014, 07- 08 ISBN: 978-93-82570-42-4.
14. **K. Ankama Rao, N.V.PoornaChandra Rao and K.V.R Murthy.**,Thermoluminescence Dosimetry study of mineral Potash.*International Journal of Science Inventions Today*.:2014,3 (6), 666-672, ISSN: 2319-5436.
15. **K. Ankama Rao, N.V.PoornaChandra Rao and K.V.R Murthy.**,Thermoluminescence StudyStudy of Ukrain Clay.*Proceedings of the 5th International Conference on "Luminescence and Applications"*:2015,Feb,9-12,
16. **S.Ravi Kumar, K. Ankama Rao, B.Subba Rao, K.Suresh and K.V.R Murthy.**,PL emission spectra of $Y_3Al_5O_{12}:Ce^{4+}$ phosphor under different excitation wavelengths.*Proceedings of International Seminar on "Luminescence Materials"*:7th January 2016
17. **K. Ankama Rao, S.V.R.S.K.Ravi Kumar, N.V.P. Rao, and K.V.R Murthy.**, TL Study of Amethyst with α , β and γ Irradiations.*International Journal of Science and Research Methodology* 25th Sept 2016, ISSN: 2454-2008.
18. **K. Ankama Rao, S.V.R.S.K.Ravi Kumar, N.V.P. Rao, and K.V.R Murthy.**, Thermoluminescence Characterisation of Ceramic mineral china clay.IRA- *International Journal of Applied Sciences* October 2016, ISSN: 2455-4499.
19. **K. Ankama Rao, S.V.R.S.K. Ravi Kumar, N.V.P. Rao, and K.V.R Murthy.**, Thermoluminescence Study of Mineral Ivory Soda.*International Journal of Civil, Mechanical and Applied Science* March 2017, ISSN:2455-5304
- 20.**K. Ankama Rao**,SOCIAL RESPONSIBILITY OF A TEACHER IN THE DEVELOPMENT OF HIGHER EDUCATION,*International Journal of Multi Disciplinary Advanced Research Trends*, September 2017, 87-93, ISSN 2349-7408.
21. **K. Ankama Rao.** "Effect of GST on Common Man" *Proceedings of the National Seminar on "Problems and Prospects of GST"*: Feb 2018, 100-104, ISBN-No.978-93-87769-09-0

National Webinars Organized: 02

National/ International Webinars Participated

- 1. Webinar on “New Face on Higher Education after Covid-19” Organized by Acharya Nagarjuna University, Guntur on 10 May 2020.**
- 2. National webinar on “Economic Impact of COVID and policy measures” Organized by Department of Economics, JKC College, Guntur on 29 May 2020.**
- 3. National webinar on “Digital parenting” Organized by V.S.R & N.V.R College, Tenali on 1 June 2020**
- 4. Two day webinar on “The Role Personnel & Technology in Higher Education Post COVID-19 ” Organized by Department of mathematics & Statistics, Ch.S.D.ST Theresa’s College for Women, Eluru on 1-2 June 2020**
- 5. Online Webinar on “A systematic Statistical approach for optimal solutions of Industrial Problems” Organized by Department of Mathematics, KL University, Vaddeswaram on 5 June 2020.**
- 6. National webinar on “Inernet of Things” Organized by Department of Computer Science, Sri ABR Govt Degree College, Repalle on 6 June 2020.**
- 7. Four day National webinar on “Impact of COVID-19 on Educational Sector in India and Strategies to face the Pandemic” Organized by IQAC, KBN College, Vijayawada on 10-13 June 2020.**
- 8. One day webinar on “How to Create Course & Course activities in open source online Learning” Organized by Department of Mathematics, Hindu College, Machilipatnam on 14 June 2020.**
- 9. International webinar on “Telugu Sahityam - Samakaleenatha” Organized by Department of Telugu, V.S.R & N.V.R College, Tenali on 24 & 25 August 2020**
- 10. National webinar on “Political Economy of Corona – International, National” Organized by Department of Political Science, V.S.R & N.V.R College, Tenali on 14 September 2020.**
- 11. National webinar on “Creative Thinking and Innovative Ideas to address the pandemic situations” Organized by Department of Physics & Mathematics, V.S.R & N.V.R College, Tenali on 01 November 2020.**
- 12. National webinar cum workshop on “Luminescence Applications and Materials” Organized by SSN College of Engineering, Kalvakkam, Tamilnadu on 25 June 2021.**
- 13. One day National webinar on “ICT enabled Teaching approaches in Science” Organized by SSN College of Engineering, Kalvakkam, Tamilnadu on 21 July 2021.**

14. National webinar on “Latest Technological Tools Teaching and Learning – Positive thinking” Organized by Department of Mathematics & Physics, V.S.R & N.V.R College, Tenali on 24 July 2021.

15. National webinar on “Basics of Matlab” Organized by Department of mathematics, VKV Govt Degree College Kothapeta on 10 December 2021.

16. International workshop on “Environmental Sustainability” organized by Department of Chemistry, Govt. Degree College(MEN), Srikakulam in association with SURAKSHA, USA on 28 January 2022.

17. National webinar on “Outcome based Education” Organized by IQAC, Sri ABR Govt Degree College, Repalle on 30 January 2022.