

# GOVERNMENT DEGREE COLLEGE, AVANIGADDA



AGS/0089330

**Dr. Y.N.Ch.Ravi Babu.**

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**S.G.Lecturer In Physics**

**Government Degree College, Avanigadda**

**Avanigadda-533004**

**Krishna District,**

**A.P**

**Mobile No: 9908037019**

## **Personal Details :**

Name : Dr. Y.N.Ch.Ravi. Babu

Father's Name: Y. Nageswara Rao

Date of Birth : 15-07-1966.

Date of Appointment as Lecturer:

03-09-1998

## **Address:**

### **Office**

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### **Home**

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## **Academic Qualifications:**

1. Ph.D in Physics, Sri Venkateswara University, Tirupati
2. M.Sc (Tech), Andhra University, Visakhapatnam,1990.
3. B.Sc. The Hindu College, Machilipatnam.

## **Previous Experience: 24 Years.**

S. G. Lecturer in Physics from 03-09-1998 to 23-05- 2013, A. J. Kalasala, Machilipatnam.

The Hindu College, Machilipatnam up to 08-09-2021. Joined in GDC, Avanigadda on 09-

10-2021

### **Present Position:**

S. G. Lecturer in Physics, Government Degree College, Avanigadda.

### **Membership:**

1. Member of 'Editorial Board' for International Journal of Advanced Research in Physical Sciences.
2. Reviewer for JQSRT. (Journal of Quantitative Spectroscopy and Radiative Transfer).

### **Additional Responsibilities**

1. N. S. S. Program Officer in The Hindu College for four years.
2. Coordinator UGC sponsored National Seminar on Multi-Functional Materials Synthesis and Applications (MFMSA-2015) held at The Hindu College, Machilipatnam.

### **Field of Specialization:**

1. **Title of the Ph.D. Thesis:**  
Optical Studies on  $\text{Nd}^{3+}$ ,  $\text{Er}^{3+}$ ,  $\text{Sm}^{3+}$  and  $\text{Ho}^{3+}$  Ions Doped Heavy Metal Oxide (HMO) Glasses.

### **Number of books Edited:**

Proceedings of UGC sponsored National seminar on Multi functional materials synthesis and applications 2015

### **Examiner and Observer:**

Served as external examiner and as an Observer for Krishna University UG examinations at Intermediate, B.Sc., in Physics programmes of Intermediate board and some Universities such as

1. Acharya Nagarjuna University, Nagarjuna Nagar, Guntur.
2. Krishna University, Machilipatnam.

### **Guest Lectures Delivered:**

1. On Operational Amplifiers at The Hindu College, Machilipatnam.
2. On Research Methodology at Ideal College, Kakinada.
3. On Photo electric effect and its applications at SSR Degree College, Machilipatnam .
4. On solid state Physics at Vijayananda Degree College, Pedana.

### **Number of Seminars/Symposium/Conferences/Workshops conducted – 1**

Two day National seminar on Multi-Functional Materials Synthesis and Applications (MFMSA-2015) held at The Hindu College, Machilipatnam 2015.

**Number of papers presented at Seminars/ Symposia/ Conferences/ Workshops – 10( National -7 and International – 3)**

## Orientation and Refresher Courses: 04

### Number of Workshops attended-02.

1. Participated in one-week work-shop on “Teaching and learning for sustainability” held at VSR & NVR College, Tenali from 14-11-2019 to 20-11-2019

### Research Publications: 26

1. Spectral investigations of Sm<sup>3+</sup> doped lead bismuth magnesium borophosphate glasses, YNCR Babu, PSR Naik, KV Kumar, NR Kumar, AS Kumar, Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113 (13), 1669-1675
2. Y.N.Ch. Ravi Babu, S.V.G.V.A.Prasad, A.Suresh Kumar “Spectral Studies of Samarium Doped Heavy Metal Borophosphate Glass Systems” Proceedings of the International Conference on Speciality Glass & Optical Fiber Materials, Technology & Devices (ICGF-2011).
3. Y.N.Ch. Ravi Babu, P. Sree Ram Naik, K. Vijaya Kumar, S.V.G.V.A. Prasad, A. Suresh Kumar "Spectral studies of Erbium doped heavy metal borophosphate glass systems " Physica B: Condensed Matter, Volume 407, Issue 4, Pages 705-711 (2012).
4. Photoluminescence features of Ho<sup>3+</sup> ion doped PbO–Bi<sub>2</sub>O<sub>3</sub> borophosphate glass systems, YNCR Babu, PS Ramnaik, AS Kumar, Journal of luminescence, 2013,143, 510-516
5. B.LakshmanaRao,Y.N.Ch.RaviBabu,S.V.G.V.A.Prasad “Spectroscopic and EPR studies on PbO–Y<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub> glasses doped with molybdenum ion” Physica B: Condensed Matter, 429,68-72(2013).
6. B. Lakshmana Rao, Y.N.Ch. Ravi.Babu, S.V.G.V.A. Prasad “Magnetic and spectroscopic properties of PbO–La<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub>:Cr<sub>2</sub>O<sub>3</sub> glass system” Journal of Non-Crystalline Solids, 382, 99–104(2013).
7. B. Lakshmana rao, Y. N. Ch. Ravi babu, P. Syam prasad, and S. V. G. V. A. Prasad “Spectroscopic Investigation of Tungsten Ions in Lead Scandium Phosphate Glass System” Spectroscopy letters, 48,90-95 (2013).
8. S V G V A Prasad and Y N C R Babu “Spectroscopic properties of BaO–Ga<sub>2</sub>O<sub>3</sub>–P<sub>2</sub>O<sub>5</sub> glasses doped by molybdenum ions” Indian Journal of Physics, 88(4):427–431(2014).
9. S.V.G.V.A.Prasad, N.Rajesh Kumar and Y.N.Ch.Ravi Babu “Spectral properties of Ho<sup>3+</sup> ion doped in Heavy metal oxide Glasses” Proceedings of the UGC sponsored National seminar on Shaping the future with Green Chemistry, (SFGC-2014) pp 113-117.
10. Spectroscopic studies of Eu<sup>3+</sup>: PbO–Bi<sub>2</sub>O<sub>3</sub>–WO<sub>3</sub>–B<sub>2</sub>O<sub>3</sub> glasses, PSR Naik, MK Kumar, YN Babu, AS Kumar, Indian Journal of Physics, 2013, 87 (8), 757-762
11. Spectral studies of praseodymium doped heavy metal borate glass systems, MK Kumar, M Parandamaiah, YN Babu, AS Kumar, 2014, Int. J. Eng. Sci, 17-24
12. Y.N.Ch.Ravibabu and S.V.G.V.A.Prasad “Effect of Al<sub>2</sub>O<sub>3</sub> on Optical Absorption Properties of Heavy Metal Oxide Glass System doped with Nd<sup>3+</sup> Ion” International Journal of Current Engineering and Technology, Vol.4, 2588-2594(2014).
13. Y.N.Ch. Ravi Babu, S.V.G.V.A. Prasad, M. Kiran Kumar, A. Suresh Kumar “Fluorescence Features of Dy<sup>3+</sup> Doped PbO-Bi<sub>2</sub>O<sub>3</sub> Borophosphate Glasses” Asian J. Research Chem. 7(11) 913-918(2014).

14. Y.N.Ch.Ravi Babu, Malathi Rekha, N.Rajesh Kumar, S.V.G.V.A.Prasad "Spectral Investigations of Er<sup>3+</sup> Doped Lead Bismuth Borophosphate Glasses" ATOM-201408(2014).
15. Y.N.Ch.Ravi Babu, S.V.G.V.A.Prasad, P.Venkata Ramana, P.Kamala, T.Malathi Rekha "Spectroscopic investigations of Nd<sup>3+</sup> doped heavy metal oxide borophosphate" International Journal of Advanced Research in Physical Science, Volume2 Issue 1(A),MFMSA-2015.
16. B.Subrahmanyeswara Rao, K.Jyoti Raju, Y.N.Ch.Ravi Babu and S.V.G.V.A.Prasad "Optical Absorption Spectra of Li<sub>2</sub>O-ZnO-B<sub>2</sub>O<sub>3</sub> Glasses Doped With Copper Ions" International Journal of Chemical and Physical Sciences, Vol. 4, No,-5,34-38 (2015).
17. Y.N.Ch.Ravi Babu and S.V.G.V.A.Prasad "Spectroscopic investigations of Nd<sup>3+</sup> doped heavy metal oxide borophosphate" International Journal Of Luminescence And Applications, Volume 5 Issue 2,271-276(2015).
18. Dielectric Spectroscopy Studies on Lead Sodium Bismuth Potassium Neobate (PNBKN) Ceramic, D Gangadharudu, Y Babu, BV Rao, KS Rao, International Journal of Advanced Research in Physical Science 2 (3), 7-21
19. Ultrasonic studies of Nd<sup>3+</sup>: l-tryptophan amino acid complexes, MK Kumar, PS Naik, YNCR Babu, AS Kumar, Asian Journal of Research in Chemistry 7 (2), 159-162
20. Spectroscopic properties of Er<sup>3+</sup> doped HMO glasses, MP, ASK, M. Kiran Kumar<sup>1,3</sup>, Y.N. Ch. Ravi Babu<sup>2</sup>, Scholars Research Library, Archives of Physics Research 5 (4), 22-29
21. Spectroscopic properties of Er<sup>3+</sup> doped HMO glasses, MPASK, M. Kiran Kumar<sup>1,3</sup>, Y.N. Ch. Ravi Babu<sup>2</sup>, Scholars Research Library, Archives of Physics Research 5 (4), 22-29
22. Spectral Studies of Dy<sup>3+</sup> Doped Heavy Metal Oxide Glasses, PSR Naik, YNCR Babu, MK Kumar, AS Kumar - 2014
23. Lead bismuth tungstate borate glasses doped with Samarium ion, PSR Naik, PV Ramana, M Satyavani, YNCR Babu, Energy 900, 1
24. Piezoelectric and Dielectric Characterization of BNBT6: 4Eu Ceramics, D Gangadharudu, BV Rao, YNCR Babu, BJ Lakshmi
25. Green Synthesis of Ag Nanoparticles by Helicteris Isora. L Fruit Extract as a Reducing Agent: Antimicrobial Activity, V Annavaram, S Jorepalli, YNCR Babu, VR Posa, SA Reddy
26. Photoluminescence study of Eu<sup>3+</sup> activated Sr<sub>6</sub>PO<sub>5</sub> phosphor, Y.N.Ch.Ravi Babu, K.Suresh and K.V.R.Murthy, Parishod journal, Vol IX, Issue I, 2020

### **One week faculty development programs:**

1. Participated in one week FDP on "Quality improvement in Higher education" held at SIR C.R.Reddy Autonomous College, CPE, Eluru 1 from 18<sup>th</sup> August to 24<sup>th</sup> 2016".
2. Participated in one week FDP on "Human values and professional ethics" held at S.S.N. College, Narasarao pet, Gunturu Dt. from 17<sup>th</sup> September to 23<sup>th</sup> 2016".

### **INTERNATIONAL CONFERENCES/ SEMINARS : 5**

### **NATIONAL CONFERENCES/ SEMINARS: 5**

### **Orientation and Refresher Courses:**

1. Participated in Refresher Course from 01-12-2004 to 21-12-2004 at Acharya Nagarjuna University, Gunturu.
2. Participated in Refresher Course in Physics from 08-07-2009 to 29-07-2009 at Academic Staff College, Osmania University, Hyderabad.
3. Participated in Refresher Course Nano technology at Academic Staff College, JNTU, Hyderabad from 13-09-2010 to 04-10-2010
4. Participated in orientation course in Academic Staff College at Andhra university, Visakhapatnam from 18-01-2012 to 14-02-2012.

### **Webinars conducted: 1**

1. National webinar on “How to convert crisis into opportunities” was conducted in the COVID pandemic period 2020

### **Social Activities:**

1. Donated and distributed food for the people during the covid pandemic days.
2. Donated blood for the needy people many times at the Government Hospital, Machilipatnam.

### **Extra-Curricular Activities:**

1. Silver medal was awarded in state level power lifting competition held at Ongole, Prakasam Dt. in 2019.
2. Participated in National level power lifting competitions held at Gudiyattam, Tamilnadu in 2019.

### **Industrial Tour:**

Visited the Doppler RADAR station along with III B.Sc. students

### **JURY MEMBER:**

Attended to Ravindra Bharathi school as judge for science exhibition on 28-02-2022.