



Department of Freshman Engineering

Faculty Profile

Name : Dr. P. Gayathri Pavani
Designation : Associate Professor (Physics)
Qualification : M.Sc., Ph.D.
Total Experience : 17 years
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Achievements:

- Collaborator for the cluster First Year Engineering Exploration at ICTIEE-2019
- Completed online course on Effective Engineering Teaching Practices
- Best paper presentation award of PCNCM-2017 at a National Seminar sponsored by UGC
- Awarded for presenting paper on Transformation of Engineering Education through Teacher Empowerment at ICTIEE-2018
- Received Distinction in IIEECP an online course conducted by IUCEE
- Presented webinars on “Academia-Industry an Interface – A New Epoch” & “Transformation of Engineering Education through Teacher Empowerment” through IUCEE
- Completed OBE online course
- NPTEL certification on Effective Teaching Practices & received silver medal for NPTEL online course “Accreditation and Outcome Based Learning”.

Publications:

1. Physical and optical studies on Boro zinc tellurite glass system *Physica B* **406** (2011)1242-1247. **P. Gayathri Pavani**, K. Sadhana and V. Chandra Mouli.
2. Studies on Boro cadmium tellurite glasses. *Optical Materials* **34** (2012) 215-220. **P. Gayathri Pavani**, S.Suresh and V.Chandra Mouli.
3. DSC, ESR and Optical absorption studies of Cu²⁺ ion doped in boro cadmium tellurite glasses. *Journal of Alloys and Compounds* **525** (2012) 5-9. **P. Gayathri Pavani**, M. Prasad and V. Chandra Mouli.
4. ESR, Optical absorption, IR and Raman studies of xTeO₂-(70-x) B₂O₃-5TiO₂-24 R₂O :1CuO(x = 10, 35 and 60 mol% ;R= Li, Na & K) quaternary glass system. *Material Research Bulletin* **47(3)** (2012) 724-731. S. Suresh, **P. Gayathri Pavani** and V. Chandra Mouli.
5. DSC, Raman and Impedance spectroscopy studies on xB₂O₃-(90-x)TeO₂-10TiO₂ (x=0 to 50 mol%) glass system, *Journal of Korean Physical society* **62(1)** 2013. S.Suresh, D.E. Pana Rani, G.Upendar and **P. Gayathri Pavani**.
6. Structural studies of xLi₂O-(40-x)Bi₂O₃-20CdO-40B₂O₃ glasses, *Optical Materials* **35(2013)** 2267-2274. R. Vijay Kumar, **P. Gayathri Pavani**, B. Ramesh, Md. Shareefuddin, K. Siva Kumar.
7. Characterization of ZnO based Boro Tellurite glass system **Physics and Chemistry Of glasses, European Journal Of Glass Science And Technology**, **57(2)** 2016, 104-110. **P. Gayathri Pavani, R. Vijaya Kumar** and V. Chandra Mouli.
8. Study Of Physical Properties in ZnO based Boro tellurite glass, Proceedings of ICSEMF withISBBN 978-1-329-77555-8 by **P. Gayathri Pavani** and V. Chandra Mouli
9. Study of Physical and Optical properties of MgO based bismuth borate glass, Science Spectrum 1(01) 2016, 26-32by **P. Gayathri Pavani**, R. Vijaya Kumar and V. Chandra Mouli.

Participation in Workshops / Conferences:

- National conference on EMERGING MATERIALS, DEVICES AND TECHNOLOGIES EMDT held at SVU Tirupati, from 24 Feb- 25 Feb 2009

- International Workshop on Spectroscopic Signatures of Molecular Complexions In our atmosphere and Beyond held at Varanasi from 2-4 Feb 2010
- International workshop and symposium on the synthesis and Characterization of Glass/Glass Ceramics (IWSSCGGC-2010) held at Pune from 7-10 July 2010
- A. P. Science Congress and annual convention of Andhra Pradesh, Akademi of sciences held at JNTU from 18-20 NOV 2010.
- National Seminar on Recent Trends in Solid state materials NSRTSSM-2010 held at Osmania University on 26th Feb 2010
- Theme meeting on Laser Glass Science and Technology held at Tirupati during 1-2 March 2011.
- National Seminar on Crystallography held at Osmania University, Hyderabad during 24-26 NOV 2011.
- International seminar on Glasses and other Functional Materials (ISGFM) from 11-13 December 2014 at Acharya Nagarjuna University.
- International Conference on Science and engineering Materials For Future (ICSEMF) needs during 21-22 Dec 2015.
- First AP Science Congress, organized by AP Akademi Of Sciences during 27-29 January 2016 held at SVU, Tirupati.
- Second AP Science Congress, Organized by AP Akademi Of Sciences during 07-09 November 2016 held at Acharya Nagarjuna University, Vijayawada.
- IUMRS-ICRYAM 2016 held at IISC Bangalore during 11-15 December 2016
- ICTIEE-2017 held at Vardhman College Of Engineering, during 06-08 Jan2017
- Third AP Science Congress, held at Andhra University, Vishakapatnam during 07-09 Nov 2017.
- Presented paper at a National conference held on 1st and 2nd December, 2017 organised by Kakani Venkata Ratnam College, Nandigama, sponsored by UGC
- Presented paper at ICTIEE 2018 on Transformation of Engineering Education through Teacher Empowerment at NOIDA, New Delhi.

