

Government Arts College for Women, Salem-636 008

Department of Physics

Report on State level Symposium on Spectroscopic Perspectives of Quantum Dots

State level Symposium on Spectroscopic Perspectives of Quantum Dots was conducted by the Department of Physics, Government Arts College for Women, Salem-636 008 during 23-24 Sep 2019. From various colleges about 150 students participated in the symposium.

Mrs. K.N.Gita, Pricipal (i/c) presided over the function. Honourable Vice chancellor of Periyar University, Salem **Prof. Dr.P.Kolandaivel**, was the chief guest. He inaugurated the function by lighting kuthuvillakku. In his keynote address, he insisted the students and researchers to publish good number of articles at National and International level so that they can get post doctoral fellowship at abroad and lot of job opportunities globally. He also informed that Periyar University is going to open a centralized instrumentation centre so that everyone can access the facility at lower cost.

In the next session, **Dr. K.Senthilkumar**, Associate Professor, Department of Physics, Bharathiyar University, Coimbatore- 641 046 was the speaker and his topic was “**An overview of molecular quantum mechanics and its application to optoelectronics**”. In his talk, he explained how the alignment of atoms and molecules i.e. structure is responsible for determining the physical and chemical properties of materials. He also discussed how miniaturization of size modifies the properties of the materials which have lot of applications viz. In solar cells, nanotubes, preparation of smart materials and also in energy storage materials.

The next talk was by **Dr.G.Velraj**, Associate Professor, Department of Physics, Anna University, Chennai-600 025. His topic was “**Enhancement of Electrical conductivity in polymer composite by synthesis and characterization through Spectroscopic methods**”. He explained the basis of IR radiation and explained how spectroscopy is a fine tool to characterize a material. Nearly 10 research scholars presented their work at oral session.

On second day 24.09.19 during first session **Dr.S.Manimozhi**, Principal (Rtd), Government Arts College for Women, Salem-636 008 was the chief guest. She addressed the gathering on the topic IR Spectrum- “**An exclusive tool for structural elucidation**”.

In the second session, **Dr.R.Ramesh**, Assistant Professor, Department of Physics, Periyar University, Salem-636 011 was the chief guest. He gave a talk on “**Graphitic carbon Nitride based materials for high performance electro chemical energy storage**”.

applications”. During third session Many students and research scholars presented their research work in Poster Session.

Finally,in the Valedictory function, certificate of participation were issued by the Principal **Dr. A. Pethalakshmi** Principal Government Arts College for Women, Salem-8 and also the best oral and poster presented scholars were given prizes.