

**ISTE STAFF CHAPTER (TN 205)  
ACADEMIC YEAR 2023-24(EVEN SEMESTER)**

**Staff Seminar Report**

A one day seminar titled “**Recent Trends in Spectroscopy**” was organized by ISTE Staff Chapter [TN 205] on **16.05.2024** from 3.00p.m. to 4.00p.m. to the faculty members of Kings College of Engineering with an objective to offer a better understanding of Recent Trends in Spectroscopy. Welcome address was delivered by **Mrs.T. Gnanajeya**, Coordinator / ISTE Chapter. The session was handled by the resource person **Mrs. S. Thiripura Salini**, Assistant Professor / Department of Chemistry.

Spectroscopy is based on the interaction between light and matter. When the matter absorbs the light, it undergoes excitation and de-excitation, resulting in the production of a spectrum. Spectroscopy is mainly used to identify and elucidate the elements and compounds of atoms and molecules.

Basically it is classified into three types. There are Absorption, Emission and Fluorescence spectroscopy. On the basis of electromagnetic radiation which are used it is classified into following types: UV Spectroscopy, IR Spectroscopy, NMR Spectroscopy, AAS, FES...etc.

A spectrum is simply a chart or a graph that shows the intensity of light being emitted or absorbed over a range of energies. It is used to analyze the elements by suitable references.

NMR SPECTROSCOPY is an example. Nuclear magnetic resonance (NMR) spectroscopy is the study of molecules by recording the interaction of radiofrequency (Rf) electromagnetic radiations with the nuclei of molecules placed in a strong magnetic field.

Magnetic resonance imaging, or MRI, is a noninvasive medical imaging test that produces detailed images of almost every internal structure in the human body, including the organs, bones, muscles and blood vessels.

Spectroscopy is used in the field of Research and Development. In Mineralogy and Gemology, Minerals can be studied qualitatively and quantitatively by using spectral data. Environmental studies can be carried out by using spectrum. In Pharmaceutical chemistry drugs are designed and studied by this spectrum and it has forensic applications also. Astronomical Studies also can be determined by this technique. In worldwide spectral studies plays an important role nowadays.

Totally 15 faculty members actively participated in this session and gained knowledge about Recent Trends in Spectroscopy. Vote of thanks was given by **Mrs.T. Gnanajeya**, Coordinator / ISTE Chapter.



*Resource Person's Talk*



*Audience listening the seminar*

  
Coordinator / ISTE Chapter 22/5/24

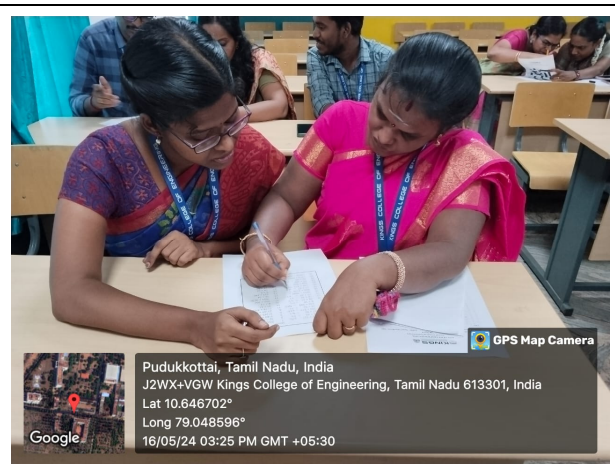
  
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The ISTE Staff Chapter, Kings College of Engineering, organized a competition on **Crossword Puzzles** on **16.05.2024** between 3.45pm and 4.20pm for the faculty members of the institution.

**Prize Winners**

POSITION	STAFF NAME WITH DESIGNATION
1	Dr.S. Vasantharaj, AP/EEE Dr.G. Suganya, AP/EEE
2	Mrs. M. Muthulakshmi, AP/ECE Mrs.D. Vennila, AP/ECE



*Staff members actively participating in Crossword competition*

  
 Coordinator / ISTE Chapter 22/5/24

  
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