

INTRODUCTION TO FLAME ATOMIC ABSORPTION SPECTROMETRY



About AES Laboratories

Established in 1983, AES Laboratories is an NABL accredited laboratory in the fields of chemical, biological and mechanical testing.. The laboratory is recognized by various government and private organizations and are providing analytical services to these sectors in the fields of food, environment, petroleum, construction materials and microbiology and various other chemical testing. The laboratory has extensive modern infrastructure with latest technology in laboratory instrumentation along with a well qualified team of laboratory professionals.

Our Training Programs

The laboratory regularly offers training programs designed to meet the needs of all levels of students or professionals related to the field of laboratory analysis. The laboratory is also acting as a study centre for IGNOU for the course on Post-Graduate Diploma in Food Safety and Quality Management (PGDFSQM). Our training courses offer limited class size to ensure maximum learning benefits for our students.

Course Objective

Atomic Absorption spectroscopy is extensively used in analysis of trace metals in ppm to sub ppm levels using absorption of element specific wavelengths by atoms in ground state. It has found applications in water analysis, foods & beverages, agricultural products, etc.

This is a 5 day introductory course for the AAS novice as well as those who want to learn basic principle in atomic spectroscopy and gain a more fundamental approach to the current AAS technology. The program will provide hands on training on operation of the AAS and basic troubleshooting. By the end of this course, the candidates will have a good understanding of spectroscopy and will have good hands-on operational knowledge of FLAAS. The learners get the additional benefits of understanding work place environment through interaction with our technical experts. The course also lays stress on basic laboratory procedures which often get overlooked in university curriculum.

Who should attend

All those who are interested in pursuing a laboratory career or a career in environment or food sciences. The program is beneficial to fresh graduates who are looking forward to a career in industrial quality control and research labs and also to working professional who get an opportunity to upgrade their skills and awareness of the advances in the technique. The basic qualification for attending this course is either a B.Sc. Degree, or completion of 12th class with a minimum of 1 year relevant lab experience.

Course Contents

- Basic principles and fundamentals of spectroscopy
- Various types of spectroscopic techniques used in the laboratory
- Guide to selection of the right spectroscopic technique for analysis
- Introduction to Flame Atomic Absorption Spectrometer (FLAAS)
- Main components of FLAAS
- System startup and Sample introduction
- Method development, calibration overview and running of samples
- Reporting results & Data management
- Routine maintenance & basic troubleshooting

For more information regarding this training program, please contact us at:



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