

About ARMATS Biotek

ARMATS Biotek has been instituted with the prime research focus on biological sciences with the ultimate goal of developing unique bio-products to cater the needs of various industries and agriculture. ARMATS is in the process of promoting different kinds of eco-friendly biological products such as plant growth stimulants, liquid bio fertilizers, bio-pesticides, health and cosmetic products. In addition, ARMATS is developing tailor made research laboratory kits/products that will simplify, promote and improve the teaching and research quality in biological sciences



103+
**PUBLICATIONS
IN BIOTECHNOLOGY**

Vision & Mission

To develop quality bio-products to cater the demand of various industries and agriculture and also to provide quality training and education to the students, researchers, technocrats and teachers.

To achieve the vision and mission of ARMATS Biotek, we are committed

- To create innovative ideas and experiment designing skills among students
- To train students as per the requirements of the industry and academia
- Develop useful biological products based on scientific research outcome



Infrastructures

Well-structured and spacious laboratory with sophisticated instrumentation for bioanalytical and bio research facilities.

- GLP Lab practice
- 3000 sqft lab + 1000 sqft for students amenities
- High-speed broadband internet Wi-Fi connection 24/6
- Career counseling service for students aiming for higher studies and overseas job.
- Affordable Fee structure and student friendly ambience.
- Flexible timing for research scholars.
- Bio analytical service for part time Ph.D., Research Scholars and Professors.





Biotechnology

- Introduction to biotechnological principles and techniques.
- Hands-on experience in genetic engineering methods like PCR, gene cloning, and DNA sequencing.
- Practical sessions on bioprocessing techniques such as fermentation and downstream processing.
- Application-oriented projects exploring the role of biotechnology in various industries like healthcare, agriculture, and environmental science.
- Exposure to cutting-edge technologies like CRISPR-Cas9 gene editing.

Cell Line Studies

- Understanding cell biology fundamentals and culture techniques.
- Cultivation and maintenance of different cell lines under sterile conditions.
- Practical training in cell proliferation assays, cell viability assays, and cell imaging techniques.
- Exploration of cell signaling pathways and their significance in disease research.
- Hands-on experience in techniques like immunofluorescence and flow cytometry for cell analysis.

Food Technology

- Overview of food microbiology and food safety regulations.
- Practical sessions on food processing techniques such as fermentation, pasteurization, and sterilization.
- Hands-on experience in sensory evaluation and quality control of food products.
- Exploration of food preservation methods and packaging technologies.
- Application-oriented projects focusing on developing novel food products with enhanced nutritional value.



Enzyme Technology

- Introduction to enzyme structure, function, and kinetics.
- Practical training in enzyme isolation, purification, and characterization.
- Hands-on experience in enzyme assays and optimization of reaction conditions.
- Exploration of industrial applications of enzymes in sectors like biofuels, pharmaceuticals, and bioremediation.
- Application-oriented projects involving the design of enzyme-based biocatalysts for specific applications.



*Come as a student,
Leave as a professional.*



Natural Product Chemistry

- Understanding the chemistry of natural products derived from plants, microbes, and marine organisms.
- Practical sessions on extraction, isolation, and structural elucidation of natural compounds.
- Hands-on experience in chromatographic techniques like HPLC and GC-MS for compound analysis.
- Exploration of the pharmacological properties and therapeutic potential of natural products.
- Application-oriented projects focusing on the synthesis of bioactive compounds inspired by natural products.



Biochemistry

- Fundamentals of biomolecules such as proteins, nucleic acids, carbohydrates, and lipids.
- Practical training in biochemical techniques like protein purification, SDS-PAGE, and Western blotting.
- Hands-on experience in enzymatic assays, metabolic pathway analysis, and protein structure determination.
- Exploration of biochemical processes underlying cellular metabolism, signaling, and regulation.
- Application-oriented projects investigating the role of biochemistry in disease mechanisms and drug discovery.



Microbiology

- Introduction to microbial diversity, classification, and ecology.
- Practical sessions on microbial cultivation, isolation, and identification techniques.
- Hands-on experience in microbiological assays for antimicrobial susceptibility testing and microbial enumeration.
- Exploration of microbial biotechnology applications such as bioremediation and biocontrol.
- Application-oriented projects focusing on the isolation and characterization of novel microbial strains with biotechnological potential.

Contact Us

ARMATS Biotek Training & Research Institute (ABTRI)

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Molecular Biology

- Understanding the structure and function of nucleic acids.
- Practical training in molecular biology techniques like DNA extraction, PCR, and gene cloning.
- Hands-on experience in DNA sequencing, gene expression analysis, and recombinant DNA technology.
- Exploration of molecular genetics principles and applications in fields like genetic engineering and diagnostics.
- Application-oriented projects involving the manipulation of DNA sequences for various biotechnological purposes.

Registration Details

* DD (for registration fee 500/-) favour of "Armats Biotek Pvt Ltd", payable at Chennai to be sent along with the duly filled registration form through post / courier.

* Registration can also be done in-person.



ARMATS BIOTEK
TRAINING AND RESEARCH INSTITUTE (ABTRI)