



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



**VINAYAKA MISSION'S
RESEARCH FOUNDATION**
(Deemed to be University under section 3 of the UGC Act 1956)



DEPARTMENT OF BIOTECHNOLOGY
**SEMINAR ON “IMMUNO DIAGNOSIS OF EMERGING
INFECTIOUS DISEASES”**

24th August 2023

Department of Biotechnology has organized a Seminar on “**IMMUNO DIAGNOSIS OF EMERGING INFECTIOUS DISEASES**” on 28-8-2023. The gathering was welcomed by Dr.A.Nirmala, Associate Professor and Head, Department of Biotechnology, AVIT. Dr.S.Shanmuga sundar, Assistant Professor(Gr-II), Department of Biotechnology given introduction about the guest Dr.V.Karthikeyan, Professor & Head Department of Biotechnology, Karpaga Vinayaga College of Engineering and Technology, Chengalpattu. Chief guest was honored with shawl by the event coordinator Dr.L.Nagarajan, Associate Professor, Department of Biotechnology. The Seminar focused on “Immunodiagnosis of emerging infectious diseases” was held with the aim of providing knowledge on immune techniques involved in diagnosis of various human disease. The end of this session students should be able to know about general properties of antigen antibody reactions, types of antigen antibody reactions, conventional immunoassays, overview of newer techniques. The event included presentations, discussions, case studies and interactive sessions to facilitate learning and knowledge sharing among the students and raise awareness about Immunological Techniques involved in medical field.

Key Topics Discussed:

- **Antigen-antibody reaction:** The session started with an introduction to Bio-molecular association, where the antigen and antibody combine with each other specifically and in an observable manner. The speaker also emphasized enzyme-substrate interaction.
- The Seminar included in depth understanding about the ability of antibodies to precisely bind to an antigen is used in immunodiagnostics for detecting the pathogens. This method is extremely effective, sensitive, and precise for detecting a variety of targets and has applications in the diagnosis of cancer, autoimmune and infectious illnesses, the environment, and more. The most prevalent term in the field of

immunodiagnostics is Enzyme-Linked Immunosorbent Assay (ELISA), which has made a significant contribution to the market's expansion to tens of billions of dollars. The Event concluded with an emphasis on the potential career opportunities for the students and the need for continuous learning of Immunological techniques. The seminar ended successfully by vote of thanks by Mrs.G.Arthi, Assistant Professor, Department of Biotechnology, AVIT.



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AVIT
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Cordially invites you all for the
Seminar on
**IMMUNO DIAGNOSIS OF
EMERGING INFECTIOUS DISEASES**

📅 24.08.2023 | ⌚ 10.30 am | Venue: **Digital Classroom**



Resource Person
Dr. V. Karthikeyan
Professor & Head, Department of Biotechnology
Karpaga Vinyaga College of Engineering
& Technology, Chengalpattu

In the Presence of Dr. G. Selvakumar Principal, AVIT Dr. A. Nirmala Associate Professor & HOD, Biotechnology	Event Coordinator Dr. L. Nagarajan Associate Professor, Biotechnology Mrs. G. Arthi Assistant professor, Biotechnology
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Organised by: Department of Biotechnology, AVIT





