



**AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY**

**VINAYAKA MISSIONS RESEARCH FOUNDATION**

**DEPARTMENT OF BIOTECHNOLOGY**

**in association with**

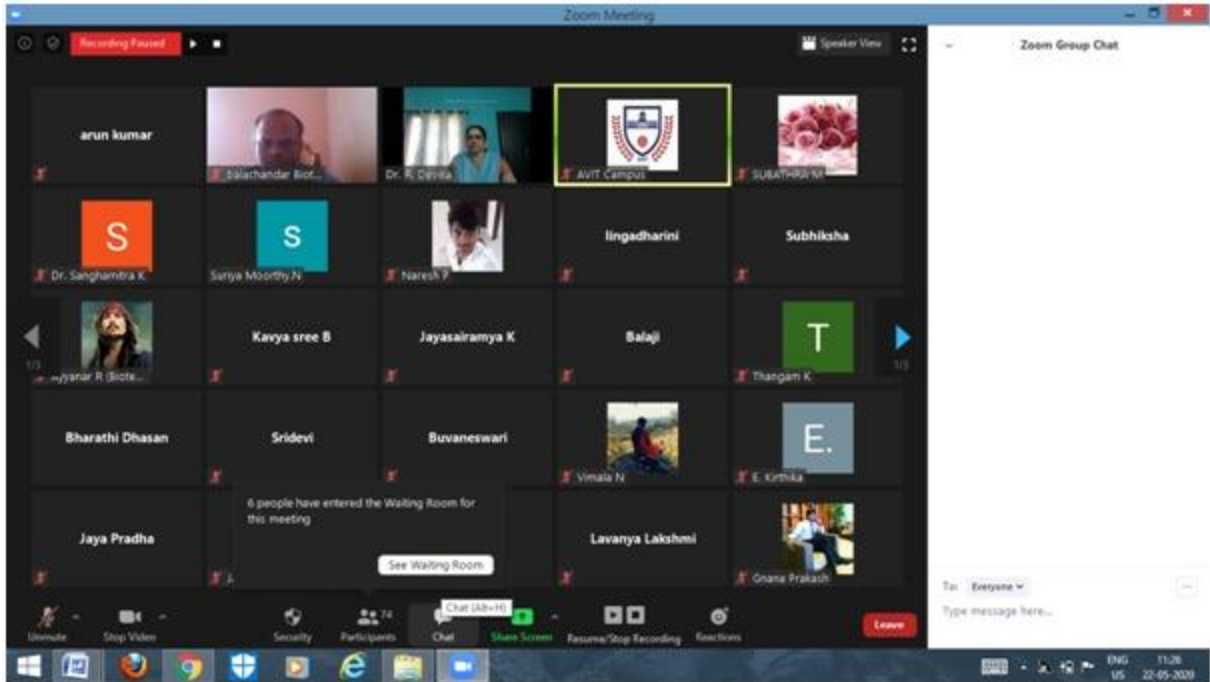
**AVIT ALUMNI ASSOCIATION**

**DAY 4 – WEBINAR REPORT**

**22.5.2020**

**Title of the Webinar: PROSPECTIVE OF NANOSCIENCE IN CURRENT SCENARIO**

Department of Biotechnology organized a Webinar series from 19-5-2020 to 23-5-2020 in various recent topics. Day 4 topic on “**PROSPECTIVE OF NANOSCIENCE IN CURRENT SCENARIO**” was presented by **Ms. P. MohanaPriya, Assistant Professor, Karpaga Vinayaga College of Engineering and Technology**. Dr. R. Devika, Professor and Head, Biotechnology delivered welcome address followed by Ms. M. Subathra, Assistant Professor, Department of Biotechnology introduced the Resource person. After the introduction, Chief Guest **Ms. P. Mohanapriya** delivered the Lecture on Basics of Nanotechnology, instruments used in analyzing the nanoparticles, various field where the nanoparticles impact has been implemented, current research in nanotechnology which includes cancer treatment, drug targeting, antibacterial activities, etc which inspired the crew of Biotechnologist. The session was attended by more than 400 participants from various colleges in and around the India through ZOOM and YouTube live session. At the end of the session question were raised by the participants in chat box and all the questions were clarified by the chief guest in a detailed way. Finally Dr. R. Devika gave the thanking note. The webinar was very useful for the Biotech community.



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## Introduction

Nano science and nanotechnologies are of high interest for the researchers from all fields of science With exciting opportunities from industry to (Nano) medicine.

### Nano science

Nano science is the study of phenomena and manipulation of materials at atomic, molecular and macromolecular scales, where properties differ significantly from those at larger scale.

### Nanotechnology

Nanotechnology is the design, characterization, production and applications of structures, devices and systems by controlling shape and size at the nanometer scale.

### Nano biotechnology

Nano biotechnology can have a combination of the classical micro-technology with a molecular biological approach. Biotechnology uses the knowledge and techniques of biology to manipulate molecular, genetic, and cellular processes to develop products and services, and is used in diverse fields from medicine to agriculture.








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Mprisa P




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Dr. Sangham



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Surya Moorthy N



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100 Participants

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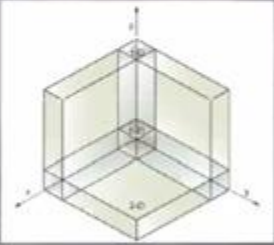
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## Classification of Nanomaterials based on dimension





- ◆ 3D or Bulk Materials
- ◆ 2D Nanomaterials
- ◆ 1D Nanomaterials
- ◆ 0D Nanomaterials

**0D:** all dimensions at the nanoscale

**1D:** two dimensions at the nanoscale  
one dimension at the macroscale.

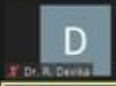

**2D:** one dimension at the nanoscale  
two dimensions at the macroscale

**3D:** no dimensions at the nanoscale  
all dimensions at the macroscale




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Dr. R. Devika

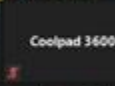



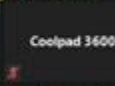


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