Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

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Report

SEMINAR

ON

"Advanced Research-Nanomaterials in Technology"

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Report on : Advanced Research-Nanomaterials in Technology

Details of Resource Person

Dr. Santosh M.S is working as Assistant Professor at Jyothy Institute of Technology. He is an Experienced Researcher, TEDx Speaker and Educator with a demonstrated history of working in the academic sector. Skilled in Materials Science, Spectroscopy, Electrochemistry, Nanotechnology, and Chemical Biology, he had explored the scientific world on various scientific assignments.

Brief report of the Program

Achievement in nano technology cannot be derived by simply scaling down the physical phenomena and mechanisms. Here surface phenomena plays important role compared to bulk phenomena. It is an essential challenge to understand the behavior of given materials on all length scales, from the nanostructure to the bulk materials. Compared to bulk scale the challenges for nanomaterials synthesis lie in the design and tailoring of complex nanoparticles and 'smart' nanomaterials with multiple functions for vast number of applications.

In this context Department of Chemistry, AIET organized a seminar on "Advanced Research-Nanomaterials in Technology" on Friday, 18/08/17 in Auditorium. Dr. Santosh M.S. was the resource person of the seminar. The session was arranged for all the faculties and students. He enlightened the students and faculties by motivating them through inspirational talk. He explained how nanomaterials can be joined without destroying their nanostructure and their function, how nanomaterials fail through corrosion, creep and fatigue, and how nanotribological mechanisms affect friction, adhesion, wear and lubrication.

He also added in nanomaterials science, the development of new materials drives many fields of engineering, e.g. to increase stiffness and at the same time save weight in aerospace or automotive industries. Finally he concluded with essential of nanomaterials to address major future global demands such as reducing energy consumption or the ecological impact of almost any product we use.

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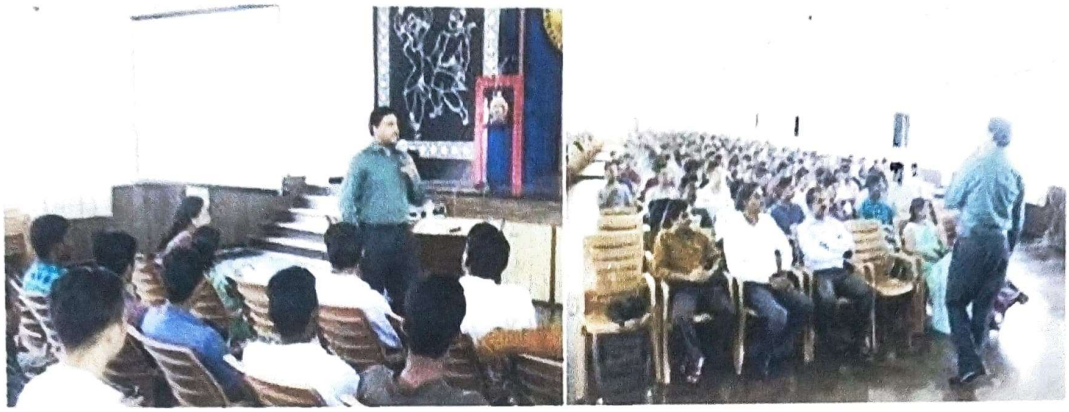

Dr. Santhosh addressing and interacting with the students and faculties during the session.

Outcome of the Program: As a result of this session, the audience was able to understand the basic concepts of Nanomaterials and technology, their unique properties and applications in advanced materials research.

Program Coordinator

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