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GUEST LECTURE

On

POWDER TO PRODUCTS

A guest lecture on “Powder to Products” was organized by the Department of Mechanical Engineering, on 10-07-2017 at 12.30 pm in Dr. Radhakrishnan Conference Hall. Of late, many research works emphasize on the necessity of Powder metallurgy. Powder metallurgy is a term covering a wide range of ways in which materials or components are made from metal powders. Powder metallurgy (PM) processes can avoid, or greatly reduce, the need to use metal removal processes, thereby drastically reducing yield losses in manufacture and often resulting in lower costs.

For creating awareness in the field of Powder Metallurgy is also used to make unique materials impossible to get from melting or forming in other ways. So we had arranged this guest lecture and the expert, Dr. V. ANANDAKRISHNAN, Ph.D., Assistant Professor, Department of Production Engineering, NIT, Trichy, was invited to address the gathering on the same issue.

ABOUT THE PROGRAM

He delivered the brief introduction about the importance and composition of materials and their process. Also, he highlighted the importance of the following topics,

1. Measuring of powder particles
2. Powder particles shapes, size and particle shapes
3. Section of wire screen
4. Open pores between particles
5. Vacancies within a particle
6. Friction and flow of powders
7. Flow meter and measuring friction
8. Powder chemistry
9. Compressibility, Compact ability and sinter ability

10. Mixing of powder

11. Mixing techniques

12. 3D Printing

At the end of the session, all the queries raised by the participants were addressed by the Eminent speaker with great clarity.



