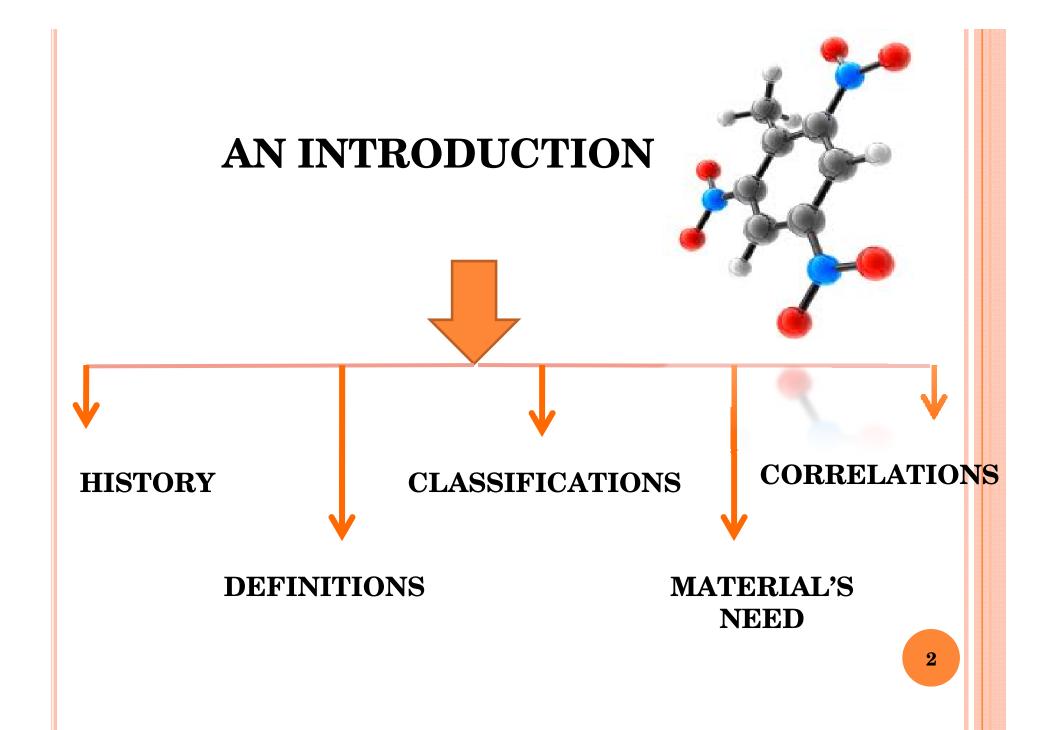
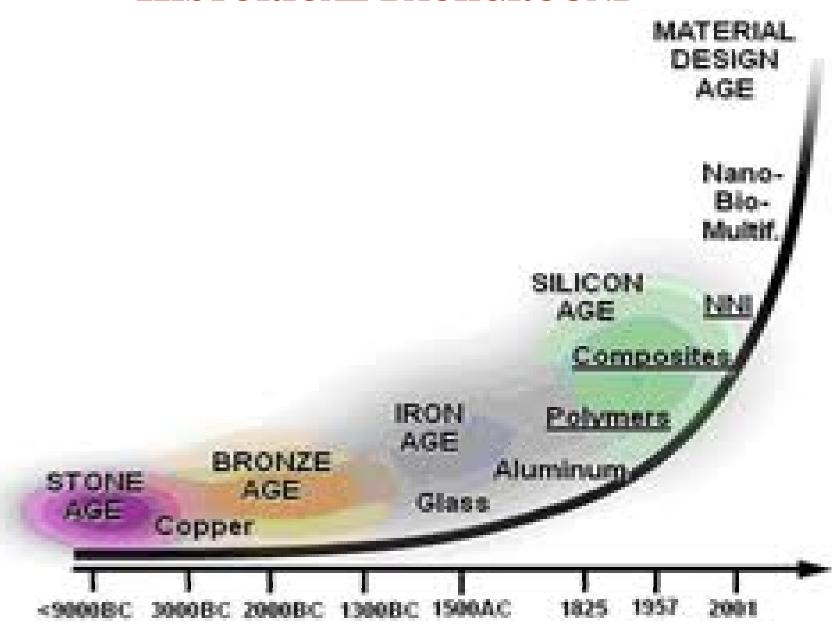
# MATERIAL SCIENCE AND ENGINEERING

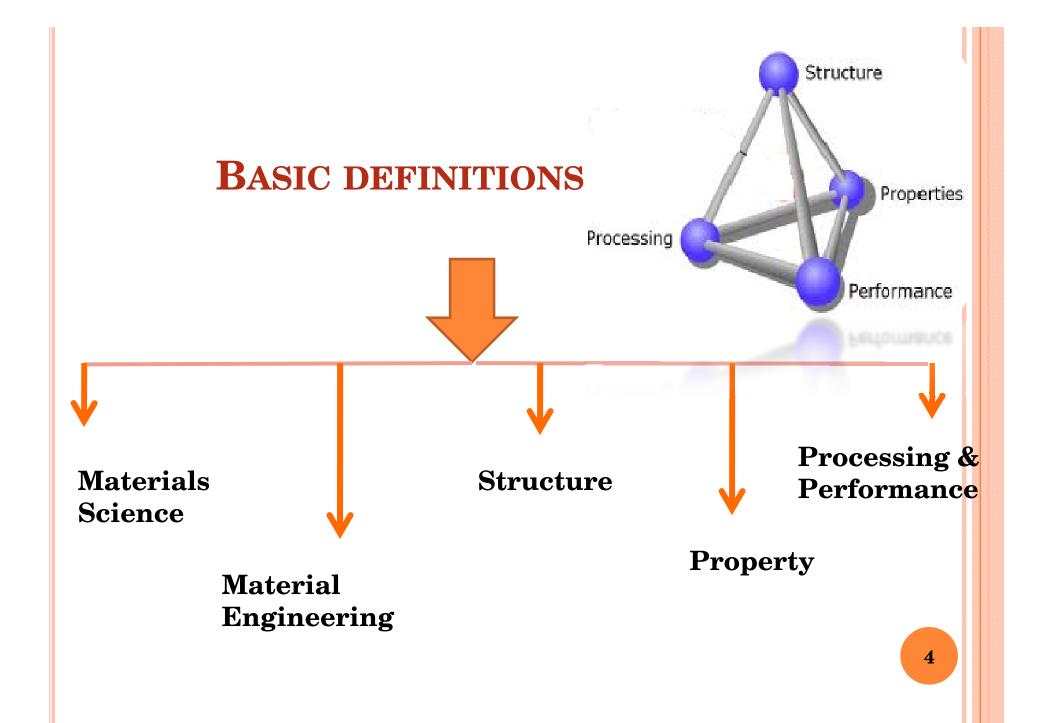
BY:

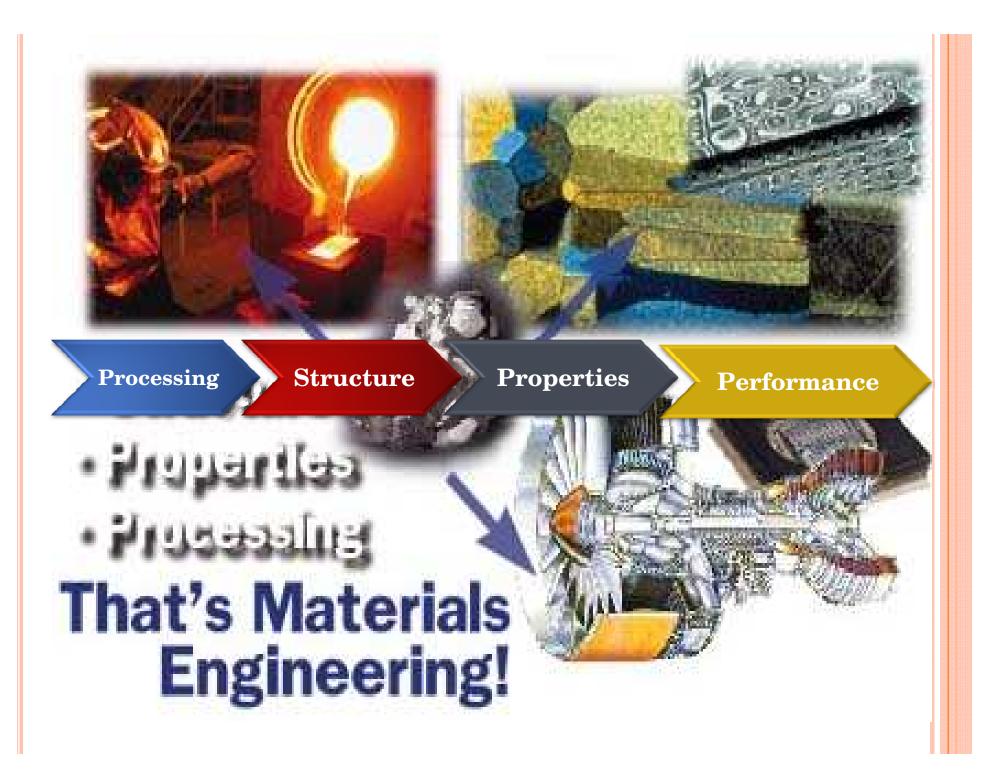
ENGR. MS TAYYABA BANO LECTURER MED



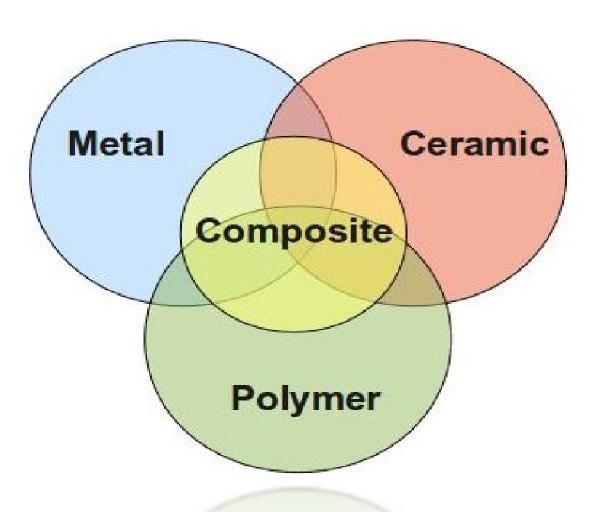
#### **HISTORICAL BACKGROUND**







## **CLASSIFICATIONS**

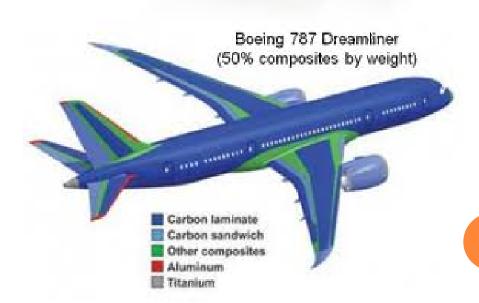












### **ADVANCED MATERIALS**

Semi conductors

**Biomaterials** 

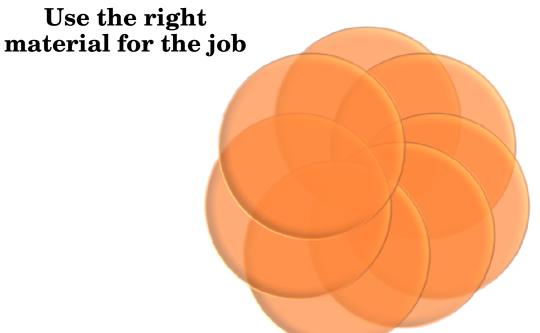
**Smart Materials** 

Nano Materials

#### **CURRENT MATERIAL NEED**

- Materials for Nuclear Facilities
- Lighter and Stronger Materials for Transport
- Solar Cells
- Batteries
- Recycling

#### **SUMMARY**



Understand the relation between properties, structure and processing

Recognize new design opportunities offered by material selection

