



Sreenivasa Institute of Technology and Management Studies (SITAMS)
(Autonomous – NAAC Accredited)
Murukambattu, Chittoor - 517127, Andhra Pradesh.

Date : 21-8-2020

**Webinar
On**

Material Science and Importance of Developing Composite Materials

The screenshot shows a webinar slide with a red background. The title is "Composite materials". The text on the slide includes: "A composite material is a combination of two materials with different physical and chemical properties.", "When they are combined they create a material which is specialised to do a certain job, for instance to become stronger, lighter or resistant to electricity.", "They can also improve strength and stiffness.", "The reason for their use over traditional materials is because they improve the properties of their base materials and are applicable in many situations." A Venn diagram shows three overlapping circles labeled "Metal", "Ceramic", and "Polymer", with the intersection labeled "Composite". Below this is a diagram of the "Manufacturing process for carbon fiber composite material" showing carbon fiber and casting paper being combined and heated to form a composite material used in an aircraft. A chat window on the right shows a "Top chat replay" with several messages from participants.

Combination of two or more materials is called composite material. The greatest advantage of composite materials is strength and stiffness combined with lightness. By choosing an appropriate combination of reinforcement and matrix material, manufacturers can produce properties that exactly fit the requirements for a particular structure for a particular purpose. Dr. Elammaran Jayamani is the resource person for this event.

