Engineering Composites Syllabus:

Introduction to Composites, Reinforcements, such as Glass, Boron, Carbon, Organic Ceramic and non-oxide, Matrix Materials, such as Polymers, Metals and Ceramics, Interfaces including Wettability and Bonding, study of Polymer Matrix Composites, Metal Matrix Composites, Ceramic Matrix Composite, Carbon Fiber Composites including Processing, Interface bonding and Structure and properties, Multifilamentary Superconducting Composites, Self-Lubricating Composites, Micromechanics and Macromechanics of Composites, Strength and fracture of Composites, Fatigue and Creep of Composites.

References:

Textbook (required)

Supplementary Textbooks:
6. Additional Reading: Books, journals and handouts, as assigned