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many composites used today are at the leading edge of materials technology with performance and costs appropriate to ultrademanding applications such as spacecraft but heterogeneous materials combining the best aspects of dissimilar constituents have been used by nature for millions of years

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composite materials with more than one distinct layer are called composite laminates typical engineered composite materials include reinforced concrete and masonry composite wood such as plywood reinforced plastics such as fibre reinforced polymer or fiberglass ceramic matrix composites composite ceramic and metal matrices metal matrix

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in materials science advanced composite materials acms are materials that are generally characterized by unusually high strength fibres with unusually high stiffness or modulus of elasticity characteristics compared to other materials while bound together by weaker matrices

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an important step towards improving performance while reducing weight and maintenance needs is the integration of composite materials into mechanical and aerospace engineering this subject

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the composites engineering certificate will allow you to predict the deformation response of composite materials using micromechanics and classical lamination plate theory clpt evaluate various construction methods laminated sandwich skin and stringer 3d fabric architectures and select the appropriate method for a given application

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when it comes to the definition of a composite engineer role they mean engineering specialists that implement various composite components for instance carbon fiber resins or glass fiber based substances to build such structures as bridges spacecraft imitation granite and even edifices

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mme1141 this module introduces the student to materials used in engineering applications the overall aim is to help the student achieve an understanding of the properties of various classes of materials such as ceramics metals alloys polymers and composites so that the student can select appropriate materials for the engineering application

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