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primary function of an engineering material is to withstand applied loading without breaking and without exhibiting excessive deflection. The major classifications of engineering materials include metals, polymers, ceramics, and composites.

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Materials
Typical properties of
engineering materials
like steel, plastics,
ceramics and
composites

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packaging material and
as an electrical insulator.
Ceramics are non-
metallic solids made up

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of inorganic compounds like nitrides, oxides, and carbides. It possesses electrical, magnetic, chemical and thermal properties. These materials are used in electronic controlled devices, computers, and aerospace field.

Engineering materials -
Classification, properties
and ...

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manufacturing purposes in an organized way.

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begin to use analytical thinking from chemistry , physics , and engineering to understand ancient, phenomenological observations in metallurgy and mineralogy .

Materials science -
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assurance for all aspects of soil drilling, sampling, testing, materials acceptance, construction control, and soils engineering services performed by or for Main Office, Regional Geotechnical, or Regional Construction groups.

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Materials engineering is an interdisciplinary field involving the properties of material (matter) and its applications to various areas of science and engineering.

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Materials engineering is
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the application of those

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processes to science and engineering. During its early years, materials engineering was concerned with metal alloys, ceramics, polymers and exotic materials. In recent years, materials engineering has been involved with nanoscience and nanotechnology.

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NYU MRSEC

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fireproofing, and other

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The Materials

Laboratory is housed in the CE Department and it is primarily used to support CE 33200

Mechanics of Deformable Bodies, and is adequate for attaining the SOs associated with this course. Supporting electronic control, data acquisition and computer software systems are available.

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Additional equipment for the static, dynamic and fatigue testing of materials include testing machines ...

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