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Civil engineering is considered as the first discipline of the various branches of engineering after military engineering, and includes the designing, planning, construction, and maintenance of the infrastructure.

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Building Engineering - An Introduction. In general, the Environment is considered as our surroundings. It can be natural or man-made. Sometimes, it can be a combination of the above two. The Built Environment is the surrounding created by man. However, it may be with the help of the natural environment.

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- Use of probability in civil engineering: it forms one of the core concepts which are used extensively. - Soil dynamics: no doubt, the texture of the soil is crucial for laying down the foundation. - Advanced hydraulics: one has to be mindful of the type of water system which is used and the way it is set up as well.

## **Civil Engineering Free Online Courses |Free Video Lectures ...**

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1.012 introduces students to the theory, tools, and techniques of engineering design and creative problem-solving, as well as design issues and practices in civil engineering. The course includes several design cases, with an emphasis on built

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facilities (e.g., buildings, bridges and roads).

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## **Civil and Environmental Engineering | MIT OpenCourseWare ...**

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What is Civil Engineering? One of the oldest engineering disciplines, civil engineering is the applied science of physics and mathematics to address the infrastructural needs of human civilization. This includes construction engineering, bridge engineering, highway engineering, and the basic maintenance of roads, canals, dams, and buildings.

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## **Lecture Notes | Introduction to Transportation Systems ...**

This course provides an introduction to how science and engineering can be exploited to design materials for many applications. The principles behind the design and exploitation of metals, ceramics, polymers, and composites are presented using examples from everyday life, as well as from existing, new, and future technologies.

## **Introduction to engineering courses - College of ...**

Civil engineering is a professional engineering discipline that deals with the design, construction, and maintenance of the physical and naturally built environment, including public works such as roads, bridges, canals, dams, airports, sewerage systems, pipelines, structural components of buildings, and railways.

## **Civil engineering - Wikipedia**

The Civil Engineering Program prepares graduates for local, regional or world-wide employment in the engineering profession or placement in a graduate school. The program affords students opportunities to meet and interact with practicing engineers, businesses and government agencies;

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