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Mechanical Theory - an overview | ScienceDirect Topics
The fundamental subjects of mechanical engineering usually include: Mathematics (in particular, calculus, differential equations, and linear algebra) Basic physical sciences (including physics and chemistry) Statics and dynamics Strength of materials and solid mechanics Materials engineering, ...

Mechanical engineering - Wikipedia
Mechanical engineering requires a lot of study, theory, and practice. For some universities, this means up to 24 hours per week with tutors. For others, it means lots of self-study and, therefore. high levels of motivation.

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Continuum mechanics - is a branch of mechanics that deals with the mechanical behavior of materials modeled as a continuous mass rather than as discrete particles. Control theory - in control systems engineering is a subfield of mathematics that deals with the control of continuously operating dynamical systems in engineered processes and machines.

Glossary of mechanical engineering - Wikipedia
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