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Offered by Peter the Great St. Petersburg Polytechnic University. The course is aimed at university-level students of all engineering backgrounds, who would like to learn the basics of modern biomedical engineering, including the development of human-robotic interfaces and systems such as bionic prosthetics. The course is covering the practical basics of almost everything that a modern ...

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The purpose of the third edition remains the same as the first and second editions, that is, to serve as an introduction to and overview of the field of biomedical engineering. Many chapters have undergone major revision from the previous editions with new end-of-chapter problems added.

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Biomedical engineers (also called bioengineers) use their knowledge of science and math to help solve health problems. Biomedical engineers develop materials, processes, and devices that help prevent or treat disease or rehabilitate patients.

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Biomedical Engineering (BME) is a cross between engineering principles and biology and is used in designing healthcare-related initiatives. It combines the problem solving of engineering with biological principles to discover new medicines, build innovative therapies, and create new medical equipment that can improve our quality of life.

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