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mechanical engineering mechanical engineering is the study of physical machines that may involve force and movement it is an engineering branch that combines engineering physics and mathematics principles with materials science to design analyze manufacture and maintain mechanical systems 1 one of the most diverse and versatile engineering fields mechanical engineering is the study of objects and systems in motion as such the field of mechanical engineering touches virtually every aspect of modern life including the human body a highly complex machine mechanical engineering is one of the broadest engineering disciplines offering opportunities to specialize in areas such as robotics aerospace automotive engineering hvac heating ventilation and air conditioning biomechanics and more mechanical engineers design develop build and test a mechanical engineer applies principles of physics mathematics and material science to design analyze and manufacture mechanical systems and devices these engineers are involved in a wide range of industries including automotive aerospace energy manufacturing and robotics mechanical engineering the branch of engineering concerned with the design manufacture installation and operation of engines and machines and with manufacturing processes it is particularly concerned with forces and motion mechanical engineering is a stem field related to the design analysis testing and manufacture of objects ranging from children s toys to airplanes more students study mechanical engineering than any other branch of engineering broad introduction to the various aspects of mechanical engineering at mit including mechanics design controls energy ocean engineering bioengineering and micro nano engineering through a variety of experiences including discussions led by faculty students and industry experts a mechanical engineering major studies movement from the movement of particles to that of large machinery and the human body by examining creating and testing devices and other systems mechanical engineering is the most varied oldest and broadest of all the engineering domains it is correlated with the application of nature s fundamental principles and laws for the transition and advancement of technological culture and society mechanical engineers design and create everything from microsensors medical devices computers and car engines to robots cookstoves sports equipment and airplanes what problems are mechanical engineers trying to solve a mechanical engineering degree teaches someone how to build contraptions with moving parts ranging from little objects like watches to enormous vehicles like space shuttles asme american society of mechanical engineers promotes the art science practice of multidisciplinary engineering around the globe mit s department of mechanical engineering meche offers a world class education that combines thorough analysis with hands on discovery one of the original six courses offered when mit was founded meche faculty and students conduct research that pushes boundaries and provides creative solutions for the world s problems

mechanical engineering covers a range of subtopics including mechatronics and robotics structural analysis thermodynamics and engineering design including the analysis of mechanical systems using finite element methods the science of new materials and devices for micro electromechanical systems mems and biological and nanotechnology purdue s school of mechanical engineering is one of the largest in the country conducting world class research in manufacturing propulsion sustainable energy nanotechnology acoustics materials biomedicine combustion computer simulation hvac and smart buildings human machine interaction semiconductors transportation thermodynamics the department of mechanical engineering at johns hopkins offers bs ms and doctoral degree programs and focuses on research in areas including fluid mechanics advanced materials robotics and biomechanics 2024 best colleges with mechanical engineering degrees in america best colleges direct admissions college quiz best value view on map college type general area of study any majors online friendliness fully online large online program some online degrees cost net price select a value student body size small medium large reflects the science and technology underpinning the machinery industry explores theoretical and applied mechanical engineering publishes original research articles review articles viewpoints and short communications sponsored by the ministry of education of china a cross disciplinary field of engineering and management that enables the design development and operation of complex systems involving technology and human interaction through the system s life cycle the department of mechanical engineering pursues creating things and creating value from a comprehensive perspective that encompasses technology people society and the environment the department of mechanical engineering is a department that nurtures such human resources the research fields range from basic scientific research to

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one of the most diverse and versatile engineering fields mechanical engineering is the study of objects and systems in motion as such the field of mechanical engineering touches virtually every aspect of modern life including the human body a highly complex machine

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a mechanical engineer applies principles of physics mathematics and material science to design analyze and manufacture mechanical systems and devices these engineers are involved in a wide range of industries including automotive aerospace energy manufacturing and robotics

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