



TEAM - BATCH 3
EVOLUTION OF ENGINEERING

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What is engineering

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Mechanical engineering

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Ancient era

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Mediaeval era

5

Modern era



What is Engineering

Engineering is the designing, testing and building of machines, structures and processes using maths and science.

Why do u study engineering??

- Improve the world. As an engineer, you will contribute to society in a unique way, be helping to invent and develop infrastructure that improves people's lives.
- From medical engineering to civil engineering, what you do at work will make an impact that you can be proud of.



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.
- It is one of the oldest and broadest of the engineering branches

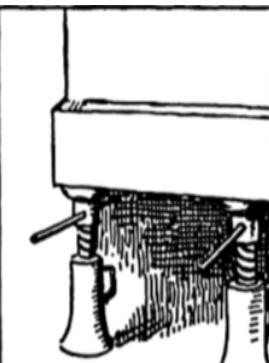




Inclined plane



Wedge



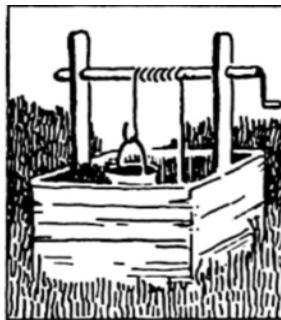
Screw

ANCIENT ERA

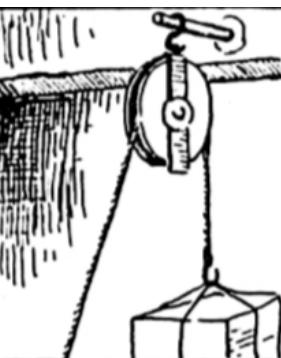
- A simple machine uses a single applied force to do work against a single load force.
- Ignoring friction losses, the work done on the load is equal to the work done by the applied force.
- The six classic simple machines were known in the ancient era wedge and the inclined
- plane -prehistoric times Wheel along with axle -5th millennium
- BC Lever-3000 Bc Pulleys -2nd millennium BC



Lever



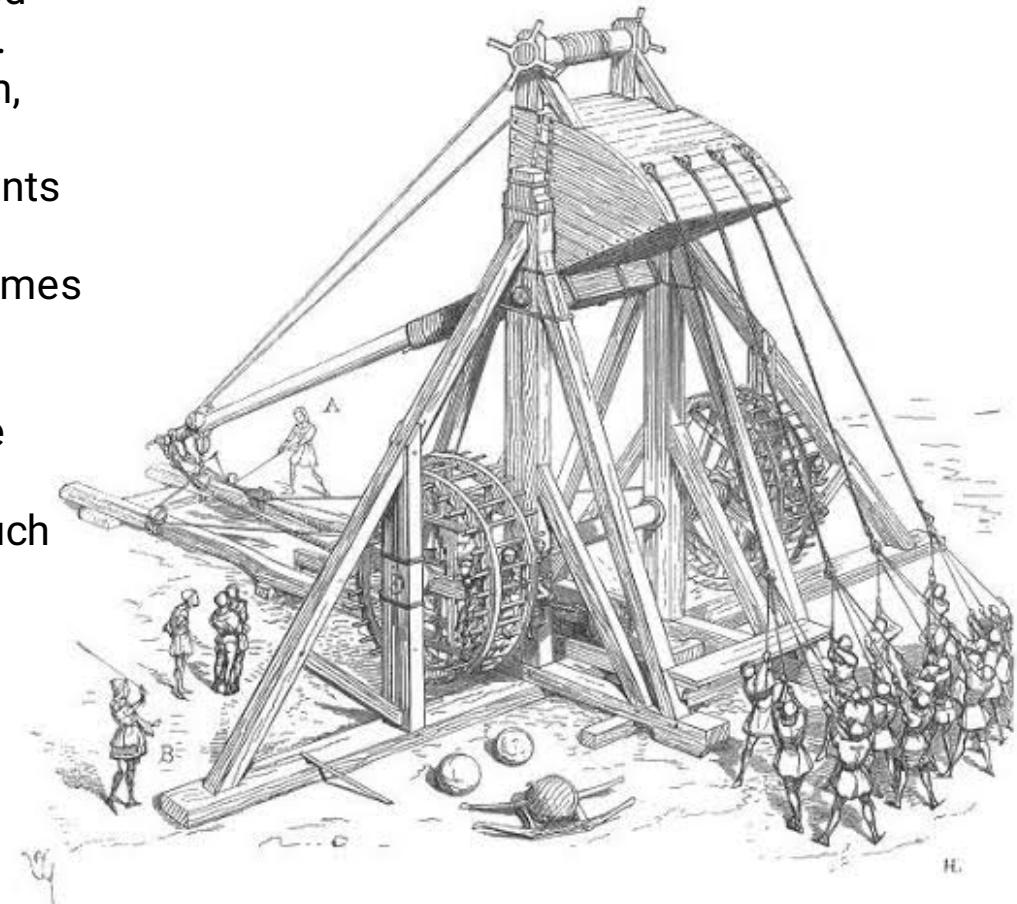
Wheel and axle



Pulley

Medieval Time

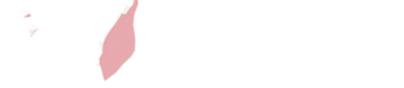
- During the medieval period, mechanical engineering continued to develop, with advances in water-powered machinery, such as the water wheel and the windmill.
- These machines were used to power mills, grind grain, and pump water.
- Some of the key mechanical engineering advancements during this period include:
- Steam engine: The steam engine was invented by James Watt in the 1770s and was a major breakthrough in mechanical engineering.
- Textile machinery: The textile industry was one of the first industries to be mechanized
- Machine tools: The development of machine tools, such as the lathe and milling machine
- Transportation: The Industrial Revolution saw the development of new modes of transportation



Modern Era

- The inventions of Thomas Savery and the Scottish engineer James Watt gave rise to modern Mechanical Engineering.
- The rise of CAD software has reduced design times and allowed for precision manufacturing.
- Engineers are able to simulate the forces and stresses of designs through computer programs.
- Because of the increased complexity of engineering projects, many disciplines of engineer collaborate and specialize in sub fields One of these collaborations is the field of robotics, in which electrical engineers, computer engineers, and mechanical engineers can specialize in and work together.





Thank You!



M E C H

