IE 48G.01 SP TP

Technology Development Engineering

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Lecture 1: Intro to Technology Development & Methodologies

Profit Organizations

☐ There are many types of organizations.











☐ We will talk about profit-oriented orgs.

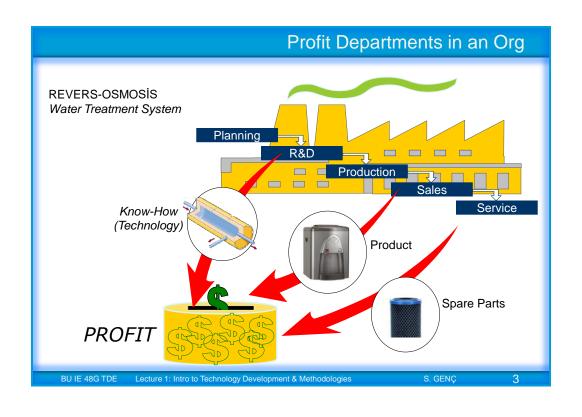


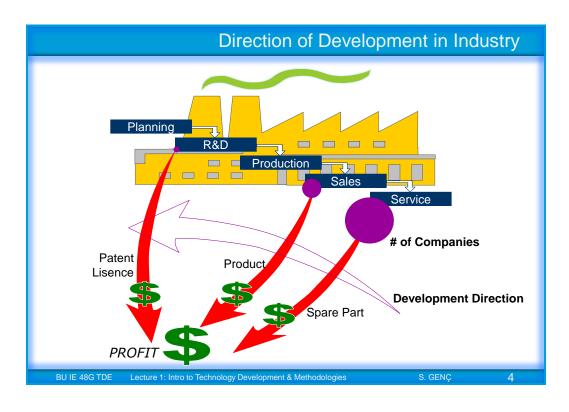
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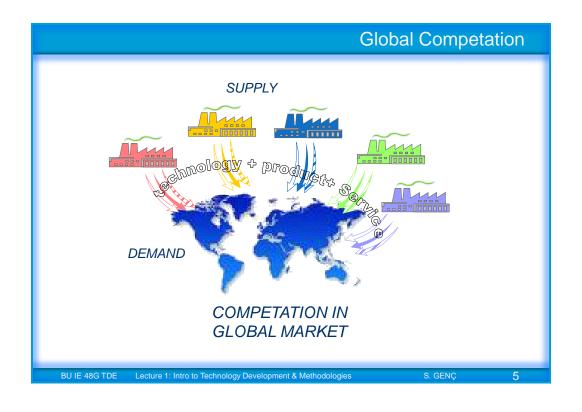
Lecture 1: Intro to Technology Development & Methodologies

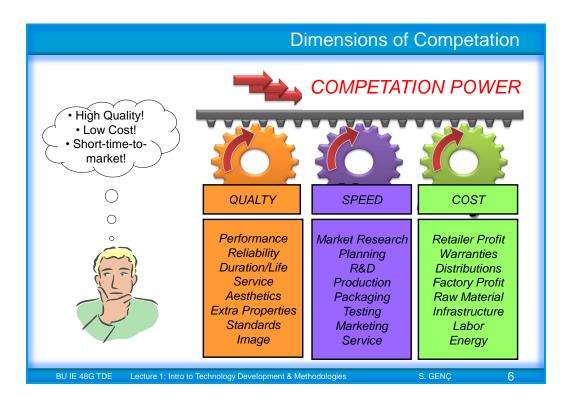
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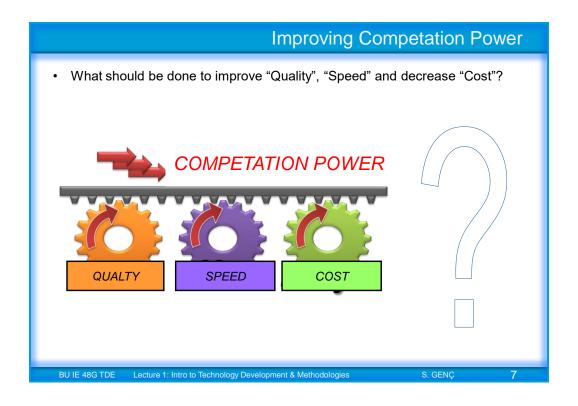
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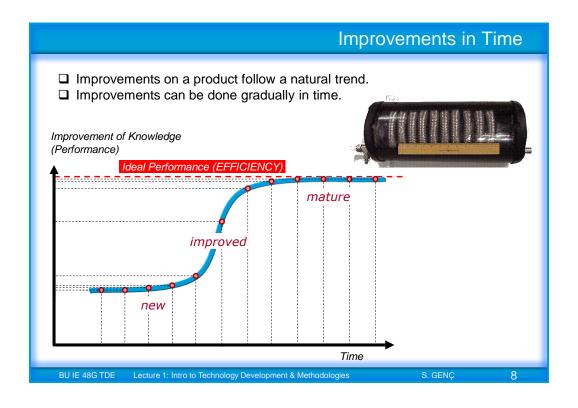


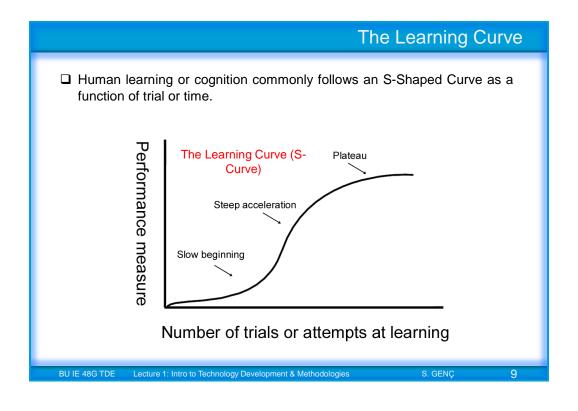


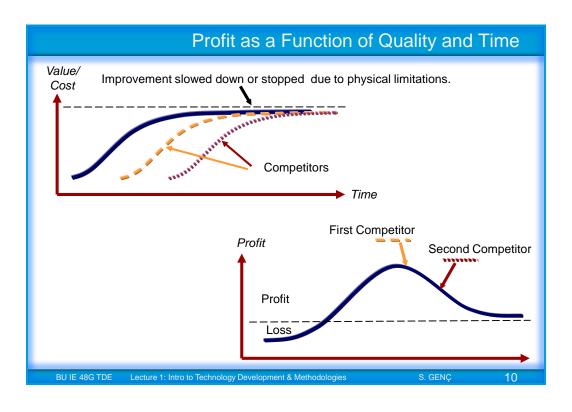


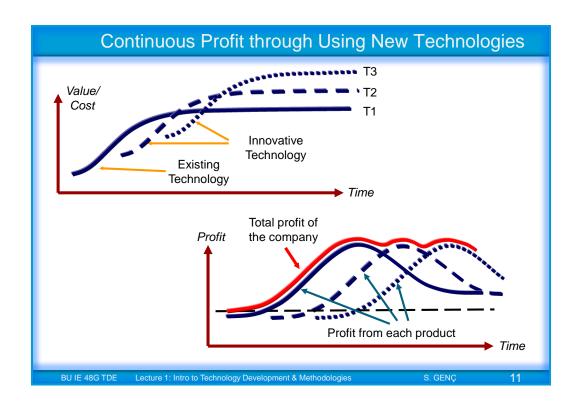


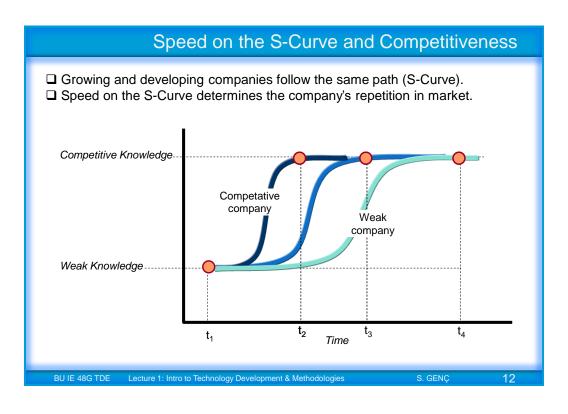




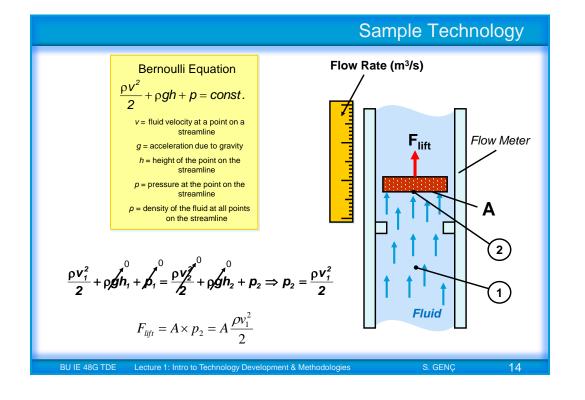


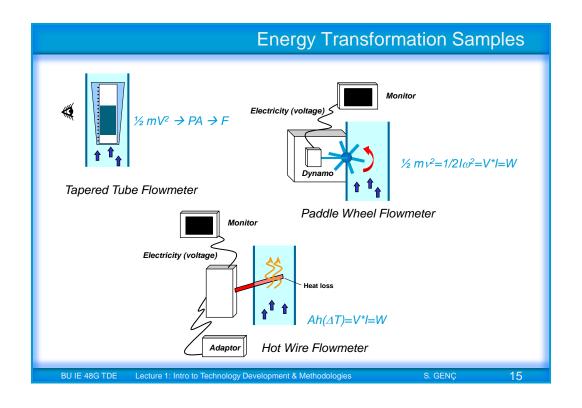


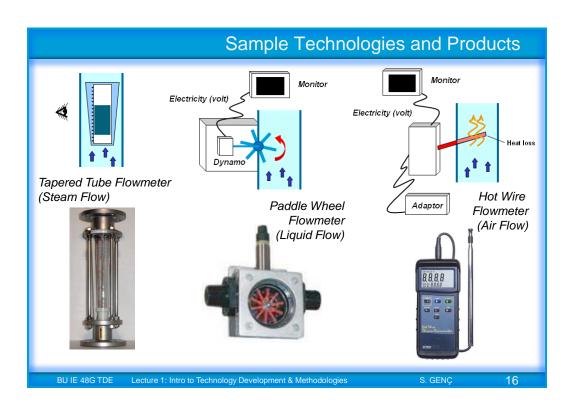


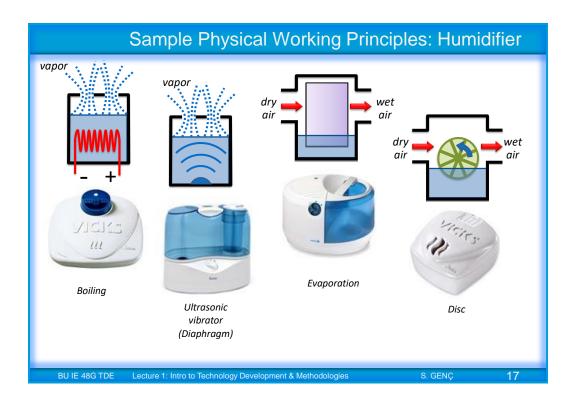


	Technology
 □ Technology is making, usage or knowledge of physical or chemical principles or methods in order to solve a question or to perform a specific function. □ The primary concern during technology development is to make the system work, not to lower the cost! 	
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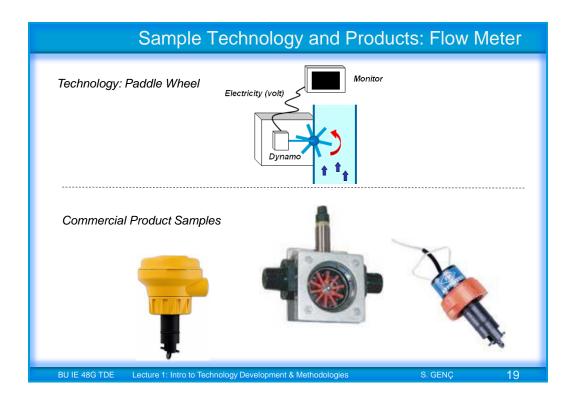


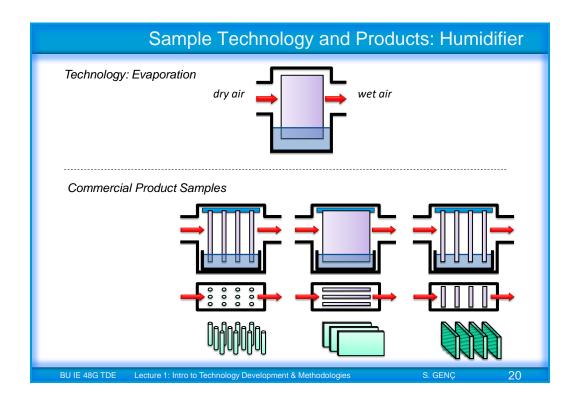


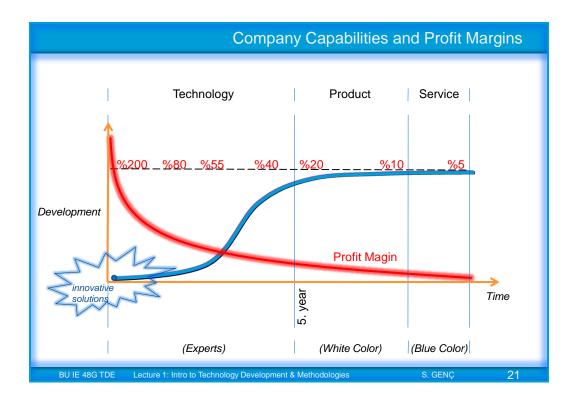


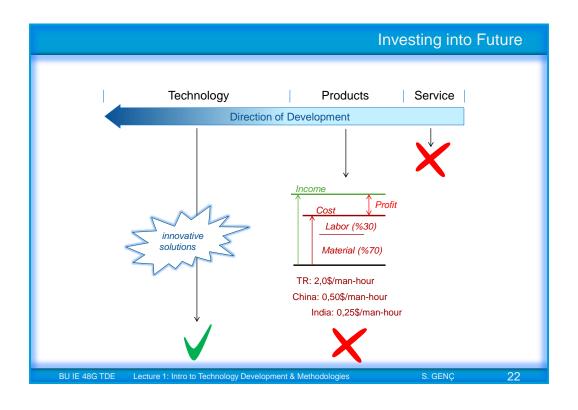


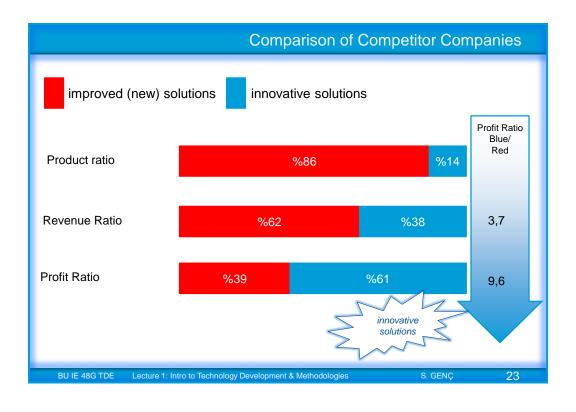


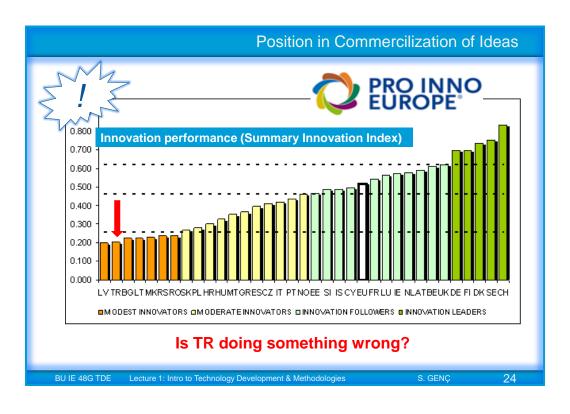


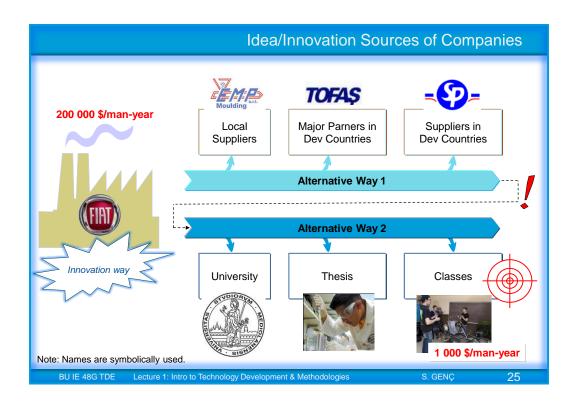


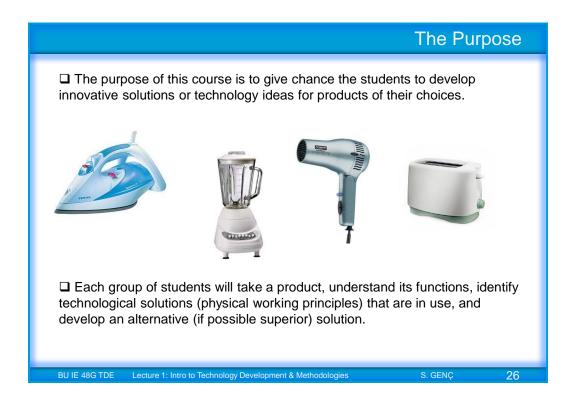


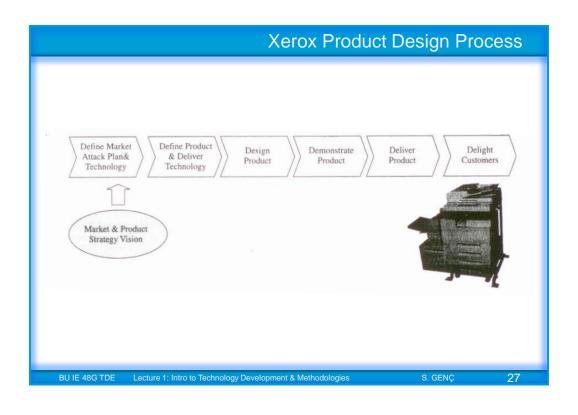


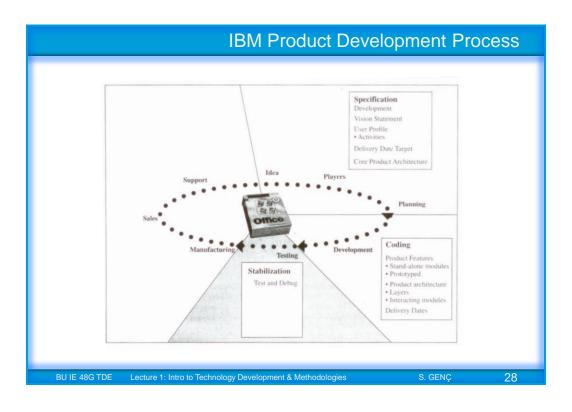


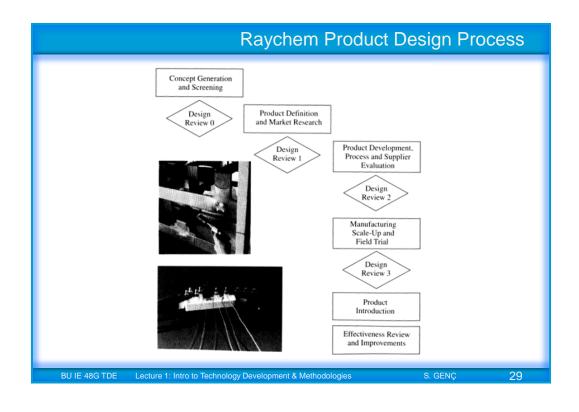


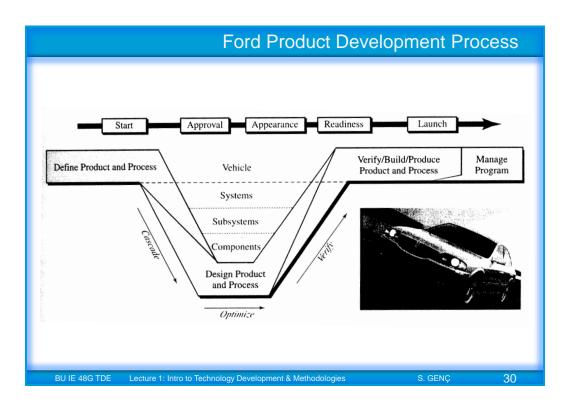


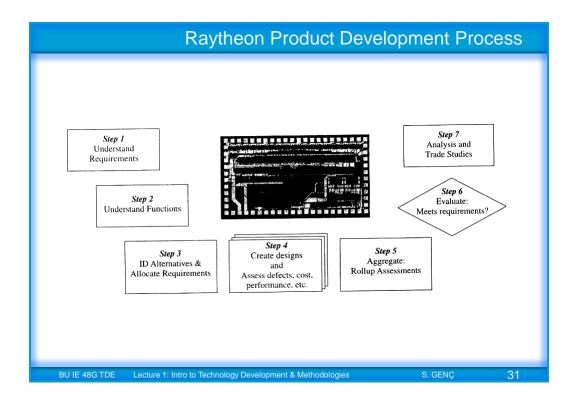


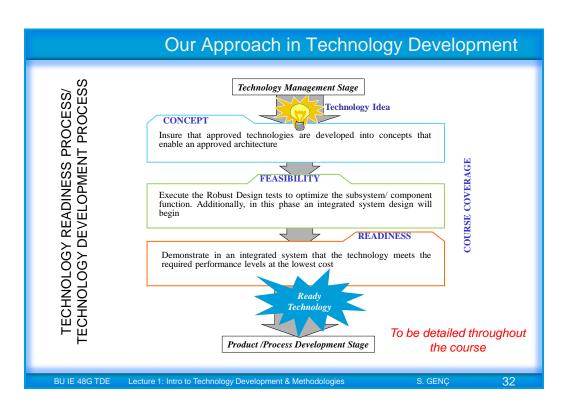












Homework #1

1) Study sample (mostly used) physical or chemical working principles in products or processes in practice. (Try to find at least 5 principles).

For example: Bernoulli Equation (characterizes liquid or gas flow in pipes)

2) Take sample products, identify some functions, and identify corresponding working principles behind them. (try to find at least 5 product functions and principles).

For example: Nozzle - Conditioning fluid flow (increasing velocity) - Bernoulli Principle



Nozzle



Pressure Velocity

Water

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Bernoulli's Principle

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