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Computer Science Lectures By ER-Deepak Garg

SOFTWARE ENGINEERING

Software Engineering separately consists two words i.e. **Software** and **Engineering**.

To understand **Software Engineering** we have to understand **Software** and **Engineering** first.



What is Software :-

Software :- It refers to a program or set of programs and applications used to manage and control various functions of a device such as a **Computer**. Unlike hardware, which represents a physical part of device, **Software** is virtual.

OR

Computer programs and associated documentation. Software products may be developed for a particular customer or may be developed for a general market. **By Ian Sommerville.**

OR

Software is 1) Computer programs that when **executed** provide desired features, function, and performance 2) Data structure that enable the programs to adequately manipulate information, and 3) Descriptive information in both hard copy and virtual forms that describes the operation and use of programs. **By Roger S. Pressman.**

Software :- It is more than just a program code. A program code which serves some computational purpose. Software is considered to be collection of executable programming code, associated libraries and documentation.

Software, when made for a specific requirement is called **Software product**.



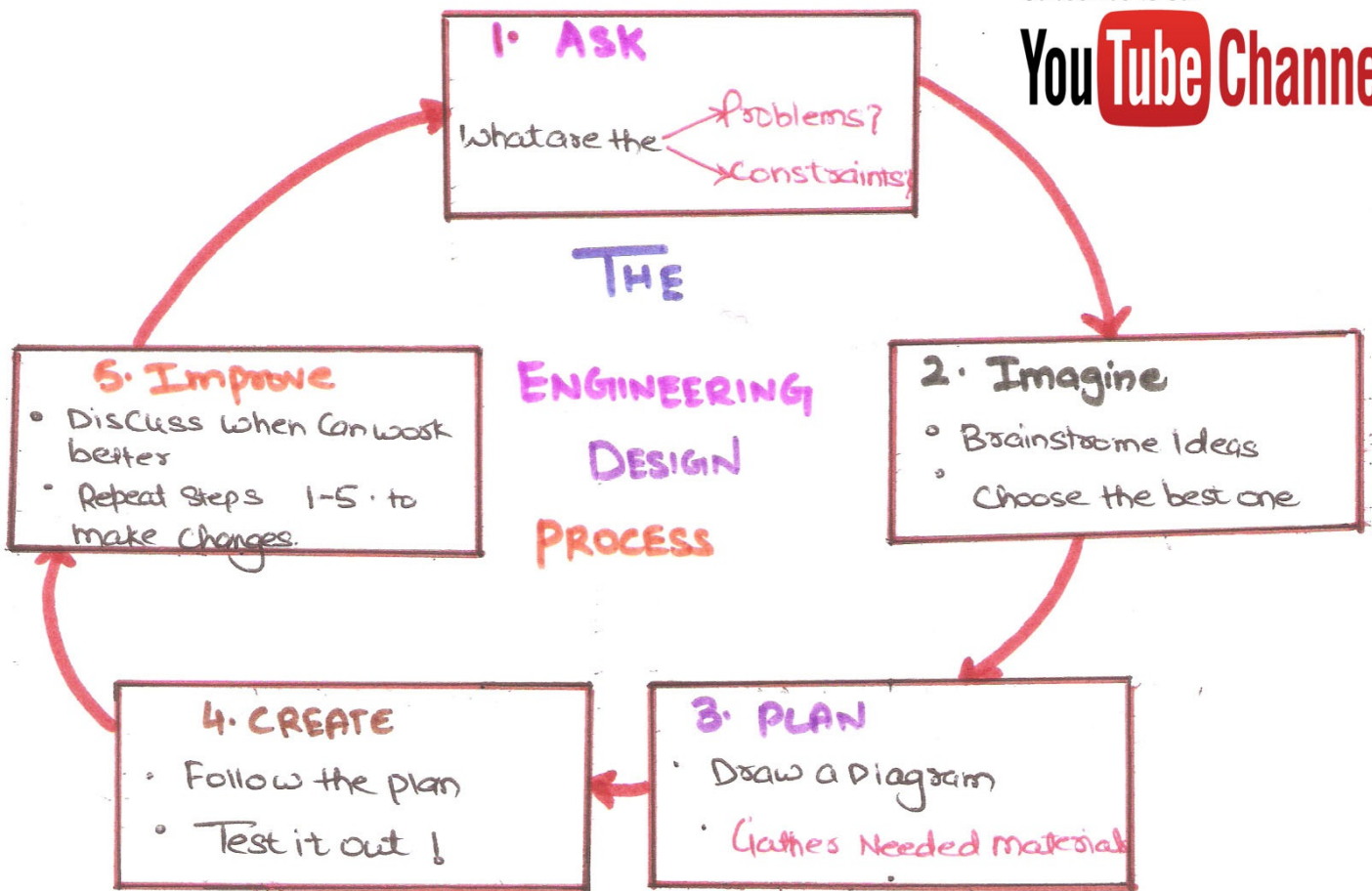
What is Engineering? :-

Engineering is all about developing products, using well-defined, scientific methods and principles.

OR

Engineering is the application of scientific knowledge to solve problems in the real world.

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What is Software Engineering ?

It is an **Engineering Branch** associated with Development of Software product using well-defined **Scientific Principles, Methods, and procedures**. The outcome of Software Engineering is an efficient and reliable Software product.

So In Brief



Engineering forces us to focus on **Systematic, Scientific** and well defined processes to produce a **Good Quality Product**.

The application of a Systematic, disciplined, Quantifiable approach to the Development, operation and maintenance of Software, and the study of these approaches, that is, the application of Engineering to Software.

