Informatics - The next step

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Informatics: The collection, classification, storage, retrieval and analysis of data.

Utility of Informatics

An organization may have ample data, however without informatics, it cannot be interpreted as meaningful information. The organization can apply data mining methods and tools to generate meaningful results. These results ultimately help in the process of creating visual graphs such as a line graph in order to extrapolate and obtain results on the target problem.
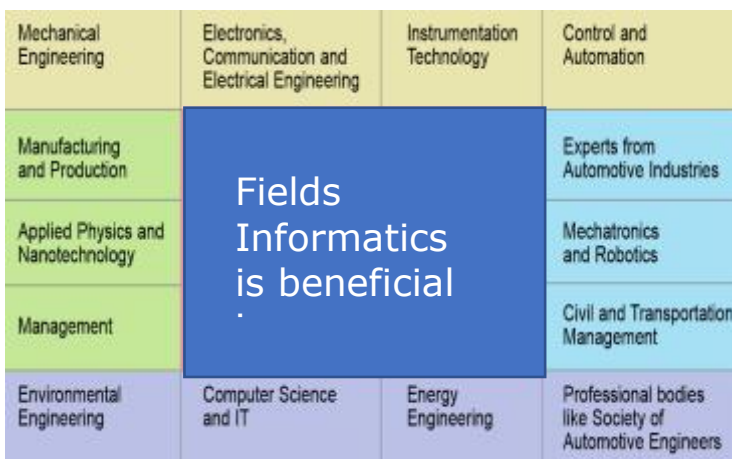
Importance to you

Your organization may have many goals and ideas, however without doing research, the organization has lesser chances to succeed. Informatics does not guarantee that your organization will succeed, however it will provide interpretable information which will help in forming a bias on whether to execute a plan in the organization or not.

Fields that Informatics is useful in

Mechanical Engineering	Electronics, Communication and Electrical Engineering	Instrumentation Technology	Control and Automation
Manufacturing and Production	Fields Informatics is beneficial.		Experts from Automotive Industries
Applied Physics and Nanotechnology			Mechatronics and Robotics
Management			Civil and Transportation Management
Environmental Engineering	Computer Science and IT	Energy Engineering	Professional bodies like Society of Automotive Engineers

Informatics

Advantages

1. Unorganized data is given meaning.
2. Informatics can be applied to almost any field.
3. An objective without a goal or research can be very deadly.

Disadvantages

1. Gathering data is an expensive process.
2. Informatics and analysis is costly
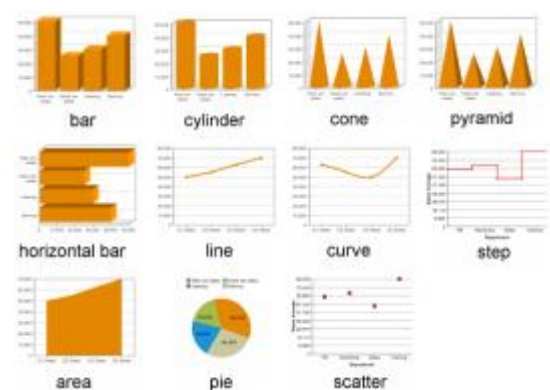3. Analysis is not an autonomous process.

Data Mining Methods

Tools that help in Informatics

- R Studio
- Unix
- Jupyter Notebook Python module
- Excel
- SQL
- Many others!

Graphs

Types of visual interpretations of information