



IIT KHARAGPUR



NPTEL ONLINE
CERTIFICATION COURSES

Case Studies for Industry 4.0 & IIoT

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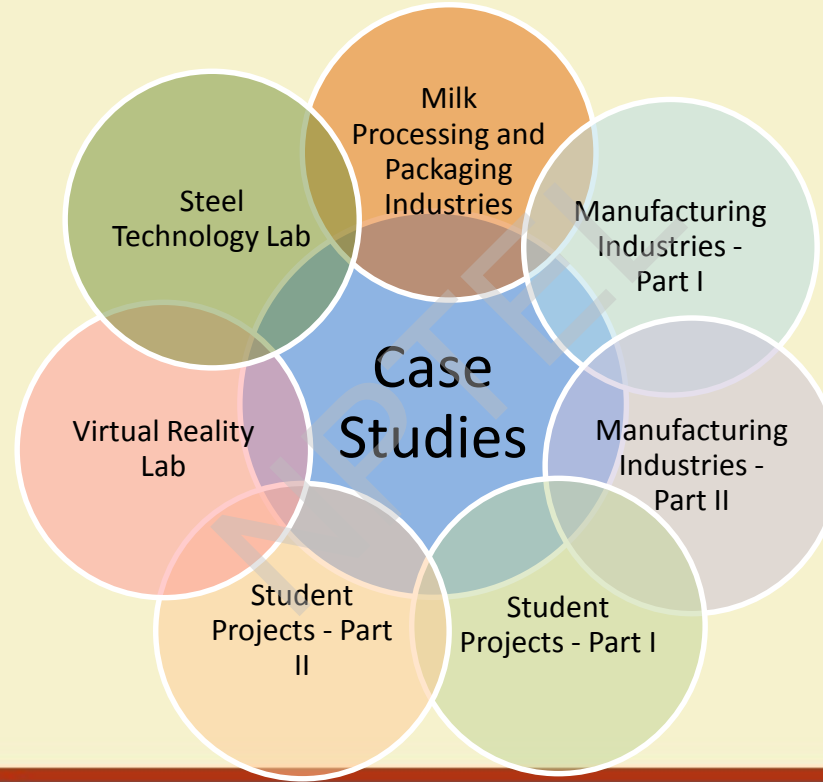
Why are Case studies necessary?

- Case studies provide in-depth knowledge and clarity of concepts regarding the research topic.
- Case study
 - enables a researcher to closely examine the data
 - within a specific context
 - follows certain procedures
 - provides quantitative and qualitative analysis of the data

Why are Case studies necessary? (contd.)

- Case studies explore and investigate real-life phenomenon through detailed analysis of related events.
- Generally, in a case study, a small geographical area or a very limited number of individuals, are selected as the subject matter.

Different Case Studies



Points to ponder ... (for all case studies)

- Transformation of existing processes for Industry 4.0 adoption
- Assessment of existing processes
- Target objectives
- Transformation project management ... setting objectives, schedule, budget
- Sensors, actuators, networks, interoperability, automated fault detection & maintenance, feedback control,

Points to ponder ... (for all case studies)

- Sensors, actuators, networks, interoperability
- automated fault detection & maintenance
- feedback control
- analysis of data (real time & non-real time)
- reduction of health hazards of workers
- improvement in overall efficiency

References

- [1] Case Study as a Research Method, URL: <http://psyking.net/htmlobj-3837/>.
- [2] Swanbornhttps, URL: <http://uk.sagepub.com/sites/default/files/upm-binaries/>.

Thank You!!

