



**COURSE NAME : 19CST201-Agile Software Engineering**



**III YEAR/ V SEMESTER**

**Topic: Kanban Process**

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# Kanban Process Models



- Agile Kanban is Agile Software Development with Kanban approach.
- In Agile Kanban, the Kanban board is used to visualize the workflow
- Provides easy access to everyone involved in the project.
- Facilitates communication as and when necessary.
- Progress of the tasks are visually displayed.
- Bottlenecks are visible as soon as they occur.



# Workflow



- Visualize your Work
- Work in progress
- Work efficiency

1. Initially is used as a scheduling system for manufacturing originating from Toyota Production System (TPS)
2. In 1940 Toyota introduce the “just in time” (pull system) manufactures.
3. Pull system allow you to begin new work only either customer demand or good required by next step within production process.



# Kanban Software Tool



- JIT principle by matching amount of working progress (WIP) to team capacity.
- WIP is more flexible planning option
- Faster output
- Clearer focus
- Transparency throughout develop cycle.



# Four Principles



- Start with what you do now.
- Agree to pursue increment evolutionary changes
- Respect current process roles and responsibilities
- Encourage acts of leadership at all leave.



# Properties



- Visualize workflow
- Work limit in progress
- Manage flow
- Make process policies explicit
- Improve collaboratively
- Feedback loops