

COURSE NAME : 19CST201-Agile Software Engineering

III YEAR/ V SEMESTER

Topic: Agile Development Process

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AGILE DEVELOPMENT UNIT-II

Fundamentals of Agile: Introduction and background - Agile Manifesto and Principles - Agile vs. Traditional software development – Extreme Programming – Agile Process Models – kanban – Agile Tool(JIRA, GITHUB and Jenkins).





AGILE METHODOLOGY

- Process for developing software
- Agile means
 - Ability to move quickly
 - Responding swiftly to change





What is Agile ?

- NON AGILE METHOD
- A project can take several months or years to complete and the customer may not get to see the end product until the completion of the project
- Allocate extensive periods of time for requirements gathering ,design ,development, testing and user acceptance testing before finally deploying the project





AGILE METHOD • It have Sprints or iteration which are shorter in duration (which can vary from 2 weeks to 2 months) during which determined pre features are developed and delivered



- Framework for managing work with an emphasis on software development
- Software development **ITERATIONS** (within time boxed)

Scrum Master

SCRUM

SCRUM key Roles Scrum Product Owner

Development Team



Sprints (typically two weeks)









Example of AGILE software development

- **Product** –MS Word
- Features All the features provided by MS Word and any other features requested by the marketing team
- **Duration** -10 Months









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ADVANTAGES

- The delivery of software is unremitting
- Customer satisfaction is more here ullet
- Changes of the product are done easily and on time ullet
- The daily interactions are required between the business people and the developers. Attention is paid to the good design of the product

DISADVANTAGES

- Documentation is less
- Unknown risks may occur due to the lack of risk analysis which may leads to unexpected outcome rarely

