

UNIVERSITY INSTITUTE OF COMPUTING

Agile Methodology (24CAT-656)

Unit-2- Syllabus

Unit-2	Agile	Lecture Hours:10
Agile Project Management	Project Management introduction, Agile Scrum, Project management methodology, Selection of right project management methodology, Continuous integration and continuous delivery (CI/CD) in agile development.	
Scrum	Scrum framework, Scrum Roles, Agile Kanban, Agile Vs. Scrum. Product Backlog, Scrum Practices, Process flow of Scrum Methodologies,\	
Agile Design	Agile Daily Stand-up, Sprint Review meeting vs Daily Stand-up meeting in Agile, Definition of Done, Agile Design, Retrospective in Agile development.	

• TEXT BOOKS

T1 David J. Anderson and Eli Schragenheim, Agile Management for Software Engineering: Applying the Theory of Constraints for Business Results, Prentice Hall, 2003.

T2 Hazza and Dubinsky, Agile Software Engineering, Series: Undergraduate Topics in Computer Science, Springer, 2009.

T3 Agile Software Development Ecosystems by Jim Highsmith, Addison-Wesley 2002, ISBN 0201760436.

• REFERENCES

R1 Craig Larman, Agile and Iterative Development: A Managers Guide, Addison-Wesley, 2004.

R2 Kevin C. Desouza, Agile Information Systems: Conceptualization, Construction, and Management, Butterworth-Heinemann, 2007.

Daily Stand-up

- A daily stand-up is a daily status meeting among all team members and it is held roughly for 15 minutes.
- Every member has to answer three important questions –
 - What I did yesterday?
 - What I'll do today?
 - Any impediment I am facing.../ I am blocked due to...
- Daily stand-up is for status update, not for any discussion. For discussion, team members should schedule another meeting at a different time.
- Participants usually stand instead of sitting so that the meeting gets over quickly.

Daily Stand-up

DAILY STAND-UP MEETING



3 Main Questions

1. What I did yeasterday?
2. What I'll do today?
3. What's in my way?

Why Stand-up is Important?

- The benefits of having a daily stand-up in agile are as follows –
- The team can evaluate the progress on a daily basis and see if they can deliver as per the iteration plan.
- Each team member informs all about his/ her commitments for the day.
- It provides visibility to the team on any delay or obstacles.



Who Attends a Stand-up?

- The scrum master, the product owner, and the delivery team should attend the stand-up on a daily basis.
- Stakeholders and Customers are encouraged to attend the meeting and they can act as an observer, but they are not supposed to participate in stand-ups.
- It is the scrum master's responsibility to take note of each team member's queries and the problems they are facing.

Geographically Dispersed Teams

- Stand-ups can be done in multiple ways, in case the agile team members are operating from different time zones –
- Select a member on a rotational basis, who can attend the stand-up meeting of teams located in different time zones.
- Have a separate stand-up per team, update the status of the stand-up in a tool such as Rally, SharePoint, Wikis, etc.
- Have a wide variety of communication tools ready like conference call, video conferencing, instant messengers, or any other third-party knowledge sharing tools.

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Definition of Done

- **User Story**
- A user story is a requirement which is formulated in a few sentences in everyday language of an user and it should be completed within an iteration. A user story is done when
- All the related code have been checked-in.
- All the unit test cases have been passed.
- All the acceptance test cases have been passed.
- Help text is written.
- Product Owner has accepted the story.

Definition of Done

- **Iteration**
- An iteration is a time boxed collection of user stories / defects to be worked upon and accepted within the release of a product. Iterations are defined during iteration planning meeting and completed with an iteration demo and review meeting. An iteration is also termed as a **sprint**. An iteration is done when
- Product backup is complete.
- Performance has been tested.
- User stories have been accepted or moved to the next iteration.
- Defects have been fixed or postponed to the next iteration.

Definition of Done

- **Release**
- A release is a major milestone that represents an internal or external delivery of working, tested version of the product/system. A release is done when
- System is stress tested.
- Performance is tuned.
- Security validations are carried out.
- Disaster recovery plan is tested.



THANK YOU