

# UNIVERSITY INSTITUTE OF COMPUTING

## Agile Methodology (24CAT-656)

## Unit-2- Syllabus

Unit-2	Agile	Lecture Hours:10
<b>Agile Project Management</b>	Project Management introduction, Agile Scrum, Project management methodology, Selection of right project management methodology, Continuous integration and continuous delivery (CI/CD) in agile development.	
<b>Scrum</b>	Scrum framework, Scrum Roles, Agile Kanban, Agile Vs. Scrum. Product Backlog, Scrum Practices, Process flow of Scrum Methodologies,\	
<b>Agile Design</b>	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.

# Selection of right project management methodology

- There are lots of factors that will impact which project management methodology is right for your project, team, and organization. Here's a quick breakdown of some of the key considerations that can help you decide:
- **Cost and budget:** What sort of budget are you working with? Is there room for that to change if necessary, or is it essential that it stays within these predetermined limits?
- **Team size:** How many people are involved? How many stakeholders? Is your team relatively compact and self-organizing, or more sprawling, with a need for more rigorous delegation?
- **Ability to take risks:** Is this a huge project with a big impact that needs to be carefully managed in order to deliver Very Serious Results? Or is it a smaller-scale project with a bit more room to play around?

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- **Flexibility:** Is there room for the scope of the project to change during the process? What about the finished product?
- **Timeline:** How much time is allotted to deliver on the brief? Do you need a quick turnaround, or is it more important that you have a beautifully finished result, no matter how long it takes?
- **Client/stakeholder collaboration:** How involved does the client/stakeholder need — or want — to be in the process? How involved do you need — or want — them to be?



# THANK YOU