# SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

# DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

# COURSE NAME : 19CS302 AGILE SOFTWARE ENGINEERING

## II YEAR /III SEMESTER

## Unit 2- Agile Development

## Topic 2: Agile Manifesto and Principles

# Brain Storming

1. How to design a product with Iterative and incremental approach?

# Agile Manifesto

**Individuals and interactions** – In Agile development, self-organization and motivation are important, as are interactions like co-location and pair programming.

**Working software** – Demo working software is considered the best means of communication with the customers to understand their requirements, instead of just depending on documentation.

# Agile Manifesto

**Customer collaboration** – As the requirements cannot be gathered completely in the beginning of the project due to various factors, continuous customer interaction is very important to get proper product requirements.

**Responding to change** – Agile Development is focused on quick responses to change and continuous development.

# Agile-Principles

1. Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.
2. Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
3. Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
4. Business people and developers must work together daily throughout the project.
5. Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.
6. The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.

# Agile-Principles

7. Working software is the primary measure of progress.

8. Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.

9. Continuous attention to technical excellence and good design enhances agility.

10. Simplicity – the art of maximizing the amount of work not done – is essential.

11. The best architectures, requirements, and designs emerge from self-organizing teams.

12. At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly.

# Assessment 1

1. What is Agile model?

Ans : _____

2. List out the Agile-Manifesto and Principles?

Ans : _____

# References

1.Roger S.Pressman, Software engineering- A practitioner's Approach, 10th Edition, McGraw-Hill, 2017.

2.Ken Schawber, Mike "Agile Software Development with Scrum" Pearson Education, 2$^{nd}$ Edition, 2015.

# Thank You