



# **SNS COLLEGE OF ENGINEERING**

Kurumbapalayam (Po), Coimbatore – 641 107

**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade  
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 3: Agile vs. Traditional software development





# Brain Storming



1. What are all the principles of Agile?
2. What are all the manifesto of Agile?



## TRADITIONAL SOFTWARE DEVELOPMENT

It is used to develop the simple software.

In this methodology, testing is done once the development phase is totally completed.

It provides less security.

It provides less functionality in the software.

## AGILE SOFTWARE DEVELOPMENT

It is used to develop the complicated software.

In this methodology, testing and development processes are performed concurrently.

It provides high security.

It provides all the functionality needed by the users.





## TRADITIONAL SOFTWARE DEVELOPMENT

It is basically used by freshers.

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Development cost is less using this methodology.

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It majorly consists of five phases.

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It is less used by software development firms.

## AGILE SOFTWARE DEVELOPMENT

It is used by professionals.

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Development cost is high using this methodology.

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It consists only three phases.

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It is normally used by software development firms.





# Agile Vs Traditional SDLC Models



- Agile is based on the **adaptive software development methods**, whereas the traditional SDLC models like the waterfall model is based on a predictive approach.
- Predictive teams in the traditional SDLC models usually work with detailed planning and have a complete forecast of the exact tasks and features to be delivered in the next few months or during the product life cycle.



## Conti...



- Predictive methods entirely depend on the **requirement analysis and planning** done in the beginning of cycle.
- Any changes to be incorporated go through a strict change control management and prioritization.
- Agile uses an **adaptive approach** where there is no detailed planning and there is clarity on future tasks only in respect of what features need to be developed.



## Conti...



- There is feature driven development and the team adapts to the changing product requirements dynamically.
- The product is tested very frequently, through the release iterations, minimizing the risk of any major failures in future.
- **Customer Interaction** is the backbone of this Agile methodology, and open communication with minimum documentation are the typical features of Agile development environment. The agile teams work in close collaboration with each other and are most often located in the same geographical location.





# Assessment 1



1. Compare and contrast Agile vs Traditional Software Development process.

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<sup>nd</sup> Edition, 2015.

**Thank You**