



# SNS COLLEGE OF TECHNOLOGY

Coimbatore-35

An Autonomous Institution

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



***DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING***

**SOFTWARE ENGINEERING**

**(Agile UX/UI)**

UNIT 2 – AGILE DEVELOPMENT

TOPIC – AGILE PRINCIPLES

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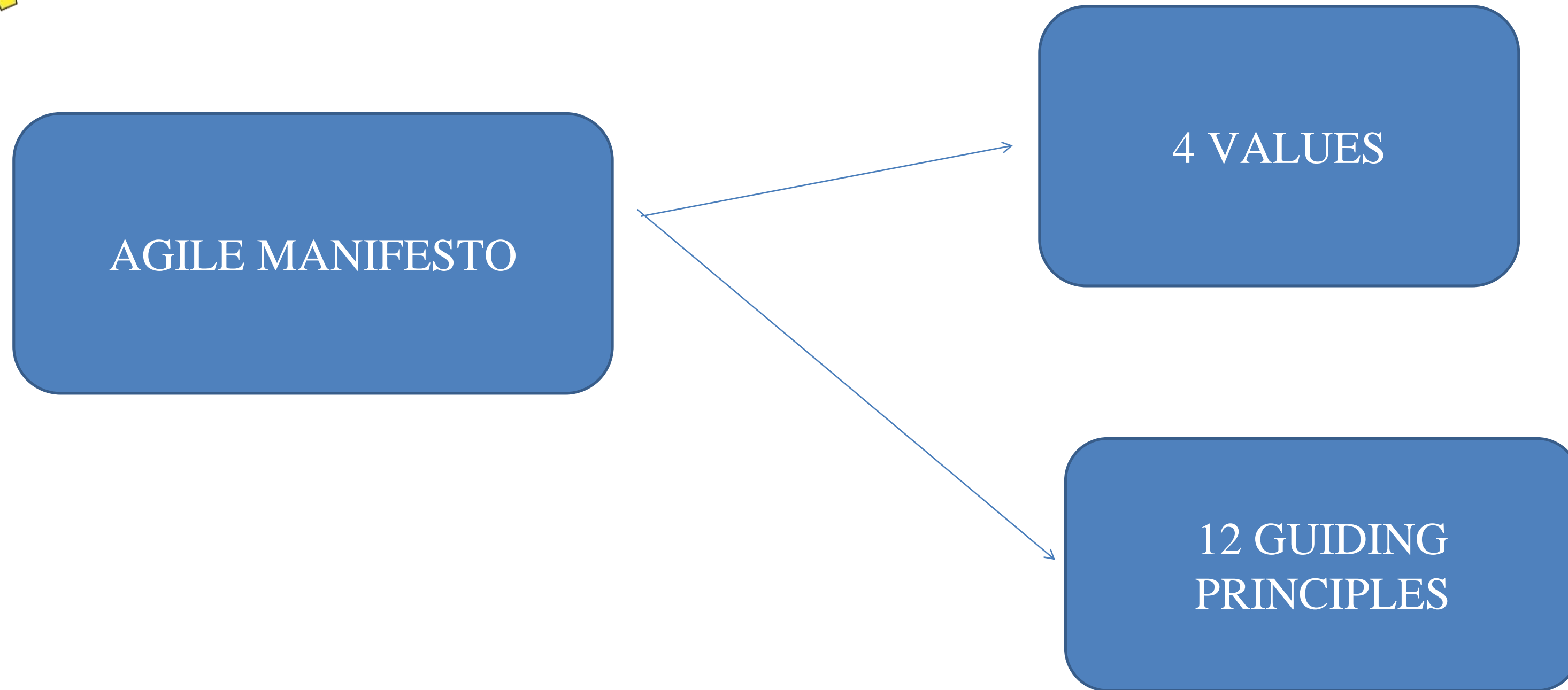
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# AGILE METHODOLOGY





# Agile Principles 1

**Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.**

- *Satisfy Customer*
- *Early and continuous Delivery*
- *Valuable Software*



## Agile Principles 2.

**Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.**

*Main objective of the agile software development is to give a competitive edge to customer by implementing evolving requirements at any point of time throughout the project*



## Agile Principles 3.



**Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.**

- *Frequent delivery leads to frequent feedbacks*
- *Frequent testing and continuous integration leads to delivering quality deliver*
- *Frequent delivery helps to keep the business engaged/active during the development phase*



## Agile Principles 4.

**Business people and developers must work together daily throughout the project.**

- *Daily face to face interactions with the business representative*
- *Frequent software delivery and demo will results in frequent engagement with business*
- *Frequent interaction will help business to fine tune their requirements based on development teams suggestions*



## Agile Principles 5.



**Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.**

*Agile software development emphasizes on team culture; concentrates more on factors which build trust in the team. Agile strongly believes that these are the reasons for team's/software's success*



## Agile Principles 6.

**The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.**

*Agile development encourages face to face conversations as it is better compared to e-mail/ phone/ communicator. It avoids many mis-understandings and confusions*





## Agile Principles 7.



**Working software is the primary measure of progress.**

In Agile development, progress & success is measured by working software (i.e. the component of software which ready to get delivered to customer / delivered to customer)



## Agile Principles 8.

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

*Agile development progresses in very consistent; neither slow nor fast. Total team is responsible and accountable for the same*



## Agile Principles 9.



### **Continuous attention to technical excellence and good design enhances agility**

*We know that agile development focuses on extrinsic quality (customer satisfaction & Product quality) and along with this it takes care of intrinsic quality as well by following best agile development practices*



## Agile Principles 10.



**Simplicity--the art of maximizing the amount of work not done--is essential.**

*Agile development always keeps software simple, workable and easy to maintain. Traditionally developed software products are complex due to cumbersome design, requirements etc.*



## Agile Principles 11.



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

- *Agile development believes that best architectures, requirements, and designs emerge from self-organizing teams as there are no hierarchies involved here.*
- *The team is empowered to organize themselves to be more effective and efficient. Transparency, inspect, adapt, Continuous planning, Continuous customer feedback and customer collaboration makes team self-organizing*



## Agile Principles 12.

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

- *In traditional software development approach, team will be waiting till the end of the project to conduct post-project review. But agile software development emphasizes continuous review.*
- *Team member can give feedback to team member or to process @ any point of time by writing it in post- it/face to face.*
- *Inspecting and adapting continuously solves many of the repetitive issues experienced by many teams and projects.*