# Agile and Scrum

## Agile Methodology

Agile is a flexible and iterative approach to software development that emphasizes collaboration, customer feedback, and continuous improvement. It promotes adaptive planning and encourages rapid and flexible responses to change.

## Scrum Framework

Scrum is a popular Agile framework used to manage complex projects. It divides work into small, manageable iterations called sprints, typically lasting 2-4 weeks. Key roles in Scrum include:

- Scrum Master: Facilitates the Scrum process and removes obstacles.

- Product Owner: Defines project goals and prioritizes the backlog.

- Development Team: Delivers the product increment.

## Scrum Process

1. Product Backlog: A prioritized list of tasks and features.

2. Sprint Planning: The team selects tasks for the sprint.

3. Daily Stand-up: A short meeting to discuss progress.

4. Sprint Review: Demonstration of completed work.

5. Sprint Retrospective: Reflection on improvements for the next sprint.

Scrum helps teams deliver high-quality software efficiently while adapting to changing requirements.