

Computer 1st Year

New Syllabus 2026

Chapter: 01

Lecture No: 02

**Introduction to Software
Development**

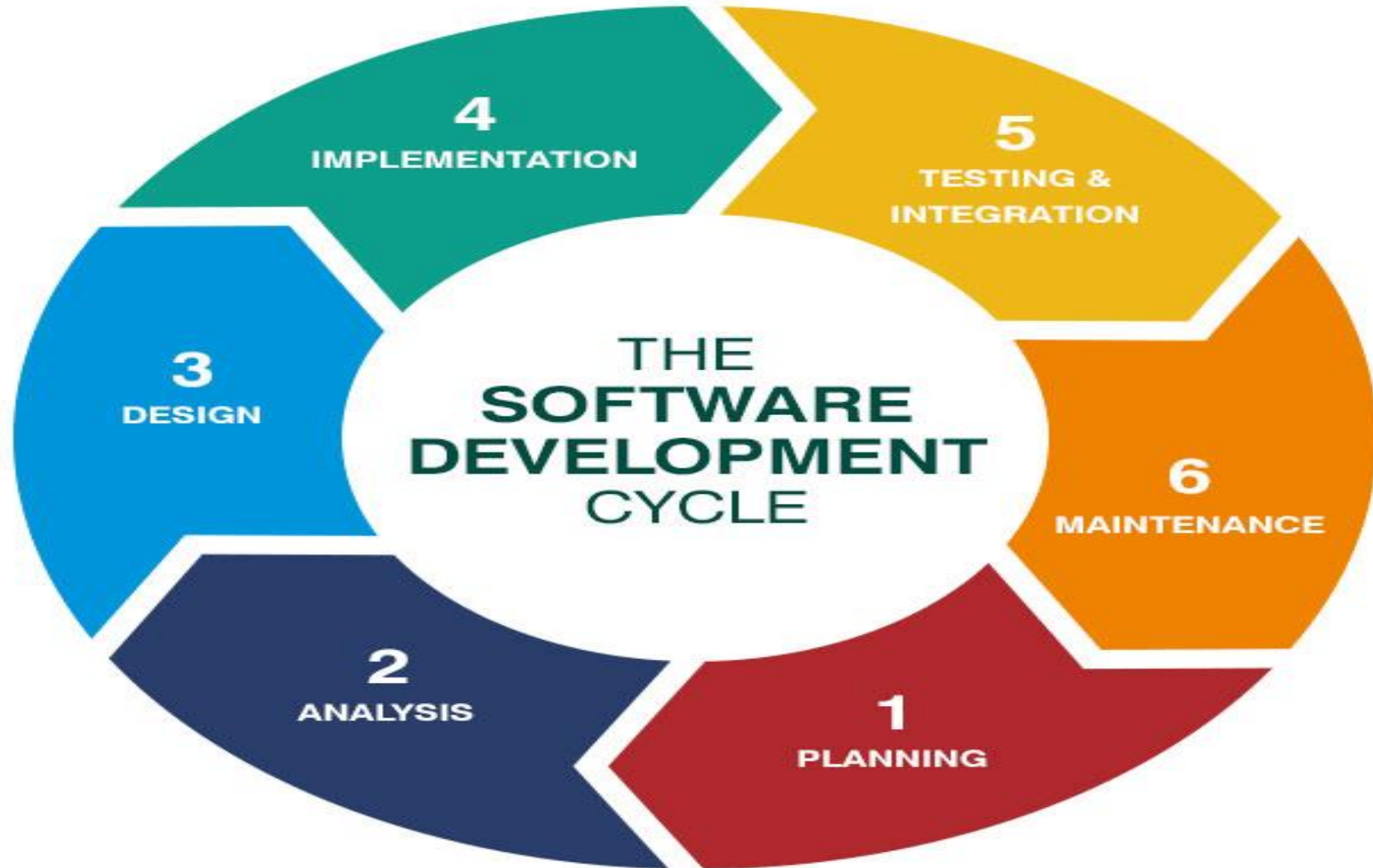
Topic Name:

Software Development Process

Software Development

- Software development is the process of creating computer programs that are made to do specific tasks.
- This process includes writing code, testing code, fixing problems, and deployment.

Software Development



Software Development Process

- **Writing Code:**
- **Testing Code:**
- **Fixing Problems:**
- **Deployment:**

Writing Code

- The process of creating program instructions using a programming language to perform specific tasks.

```
function getIngredients() {  
    // ...  
}  
  
function combineIngredients(ingredients) {  
    // ...  
}  
  
function makeBurger() {  
    const ingredients = getIngredients();  
    combineIngredients(ingredients);  
}
```

Testing Code

- The process of checking the program to see if it works correctly and produces the expected results.



Fixing Problems

- The process of finding and correcting errors or bugs in a program.



Deployment

- The process of making the completed software available for users to use.



Importance of Software Development

- Software development is important because it helps to solve problems and makes our lives easier.
- It makes work faster, easier, and more accurate.
- It is used in many fields like education, business, and healthcare.

framework in Software Development?

- In software development, a framework is a ready-made set of tools, ideas, and practices that helps in building software applications.
- It provides pre-built components and architectures so that developers don't have to write everything from scratch.

Advantages of Software Development Frameworks

- Frameworks save time by providing pre-written code for common tasks.
- Developers can focus on specific features instead of repeating basic work.
- They make development faster and more efficient.
- Frameworks ensure consistency in code structure.
- They make code easier to manage and maintain.

Example: Django (Web Framework)

- Django is a web framework. We can use it to create a website, as it already provides features like user login, database management, and templates for pages. It works like a pre-designed blueprint for building a house, saving time by not starting everything from scratch.



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