

Unit 1

First Grade

Phases Discovery phase: understand the customer and their business Design phase: create a solution Development phase: build the solution Testing phase: verify the solution Deployment phase: release the solution Methodologies Waterfall model: sequential phases Agile model: iterative and incremental DevOps: continuous integration and deployment Tools and Frameworks Project management: Jira, Asana, Trello Version control: Git CI/CD: Jenkins, Travis CI, CircleCI Cloud: AWS, Azure, Google Cloud Success Metrics Project: On-time delivery, Budget adherence Customer: Satisfaction, Adoption rate Team: Productivity, Collaboration	Key Concepts Requirements gathering: understanding what the customer needs System architecture: high-level design of the system Software development: writing the code Testing: verifying the code works as expected Deployment: releasing the solution to production Maintenance: ongoing support and updates Challenges Communication: ensuring everyone is on the same page Scope creep: managing changes without derailing the project Resource allocation: balancing workload and team size Risk management: identifying and mitigating potential issues	Project Phases Overview 1. Discovery Phase Goal: Understand the problem and requirements. Activities: Stakeholder interviews, Requirements gathering, Feasibility study. Deliverables: Project charter, Requirements document. 2. Design Phase Goal: Create a detailed plan for the solution. Activities: System architecture design, UI/UX design, Database design. Deliverables: System architecture, UI/UX prototypes, Database schema. 3. Development Phase Goal: Build the solution components. Activities: Coding, Integration, Testing. Deliverables: Functional software components. 4. Testing Phase Goal: Verify the solution meets requirements. Activities: Unit testing, Integration testing, User acceptance testing. Deliverables: Test reports, Bug fixes. 5. Deployment Phase Goal: Release the solution to production. Activities: Deployment, Monitoring, Support. Deliverables: Live solution, User training materials.	Key Concepts 1. Requirements Functional requirements: What the system should do. Non-functional requirements: How the system should perform (e.g., security, performance). Business requirements: High-level goals and objectives. 2. Architecture System architecture: High-level design of the system. Software architecture: Detailed design of the software components. 3. Development Coding: Writing the source code. Integration: Combining different components. Testing: Verifying the code works as expected. 4. Deployment Release: Putting the solution into production. Monitoring: Tracking the system's performance. Support: Assisting users with issues.	Challenges 1. Communication Misunderstanding requirements. Lack of stakeholder involvement. 2. Scope Creep Adding features without proper planning. 3. Resource Constraints Limited budget or team size. 4. Risk Management Identifying and mitigating potential issues.
Project Phases 1. Discovery Understand the problem and requirements. Activities: Stakeholder interviews, Requirements gathering. 2. Design Create a detailed plan for the solution. Activities: System architecture design, UI/UX design. 3. Development Build the solution components. Activities: Coding, Integration. 4. Testing Verify the solution meets requirements. Activities: Unit testing, Integration testing. 5. Deployment Release the solution to production. Activities: Deployment, Monitoring.	Key Concepts 1. Requirements Functional requirements: What the system should do. Non-functional requirements: How the system should perform. 2. Architecture System architecture: High-level design of the system. Software architecture: Detailed design of the software components. 3. Development Coding: Writing the source code. Integration: Combining different components. 4. Testing Unit testing: Testing individual components. Integration testing: Testing how components work together. 5. Deployment Release: Putting the solution into production. Monitoring: Tracking the system's performance.	Project Phases Overview 1. Discovery Phase Goal: Understand the problem and requirements. Activities: Stakeholder interviews, Requirements gathering. 2. Design Phase Goal: Create a detailed plan for the solution. Activities: System architecture design, UI/UX design. 3. Development Phase Goal: Build the solution components. Activities: Coding, Integration. 4. Testing Phase Goal: Verify the solution meets requirements. Activities: Unit testing, Integration testing. 5. Deployment Phase Goal: Release the solution to production. Activities: Deployment, Monitoring.	Key Concepts 1. Requirements Functional requirements: What the system should do. Non-functional requirements: How the system should perform. 2. Architecture System architecture: High-level design of the system. Software architecture: Detailed design of the software components. 3. Development Coding: Writing the source code. Integration: Combining different components. 4. Testing Unit testing: Testing individual components. Integration testing: Testing how components work together. 5. Deployment Release: Putting the solution into production. Monitoring: Tracking the system's performance.	Challenges 1. Communication Misunderstanding requirements. Lack of stakeholder involvement. 2. Scope Creep Adding features without proper planning. 3. Resource Constraints Limited budget or team size. 4. Risk Management Identifying and mitigating potential issues.
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section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

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notes 323 nuclei and radioactivity physics module 7 atoms and nuclei z explain the growth and decay of radioactivity in a sample z calculate the half life and decay constant of a radioactive substance and z explain the uses of radioactivity in various fields 26 1 the atomic nucleus soon after the discovery of nucleus in an atom by rutherford in 1911

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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