

**WRITING CONTENT**

**SOFTWARE DEVELOPMENT PROCESS**

**ACTIVITIES**

**Chapter 1**  
Introduction

**Write : the Research Issue(s), Motivation(s), Problem Statement, Objective(s) and Methodology**

**Chapter 2**  
Literature Review

**1. Engineering requirements** → **Field Study**  
 ▪ Investigate problems  
 ▪ Elicit user requirements

**Literature Study**  
 ▪ Review existing systems

**Chapter 3**  
User and Systems Requirements

**2. Design Requirements Modeling** → **Requirement Analysis**  
*Draw Requirements Modeling*

Scenario-based models  
 Class models  
 Behavioral models  
 Flow models

**Requirement Strategies**  
 Flow-oriented modeling  
 Behavioural modeling  
 Pattern-based modeling  
 WebApp modeling

**3. Design Conceptual Model** → **Elements of Design Models**  
*Draw Design Model*

Data/Class design elements  
 Architectural design elements  
 Interface design elements  
 Component-level design elements

**4. Design Testing** → **Testing Elements**  
*Describe testing elements and strategies*

Verification  
 Validation  
 Effectiveness  
 Efficiency  
 Robustness etc

**Testing Strategies**  
 Unit testing  
 Integration testing  
 Validation testing  
 System testing etc

**If Testing for Web Applications\***

Content Testing  
 Interface Testing  
 Navigation Testing  
 Component Testing  
 Configuration Testing  
 Performance Testing  
 Security Testing

**Chapter 4**  
Prototype Development and Testing

**5. Develop Prototype** → **Use of Softwares /Applications**  
*Describe use of softwares/applications and show screenshots*

E.g.: LINUX, Ubuntu, Microsoft.NET, Visual Basic, PHP etc

**Screenshots**  
 E.g.: Log in Interface, Users Interface, etc

**6. Test Prototype** → **Testing Procedures**  
*Describe the testing activities*

Who is the participants?  
 Where the testing is conducted?  
 How the testing is conducted?

**Testing Results**  
 What is the data findings?  
 What do you learn from the data findings?  
 How do you conclude the data findings with the system?

**Chapter 5**  
Conclusion

**Write : Research objectives revisited, Scope or Limitation, Future Work or Enhancements**

**7. Present Prototype** → **An Assignment and CD**  
*Present the prototype*

A Comb-binding assignment  
 A CD which consists of word.doc of assignment and the prototype

**Slides Presentation**  
 A slide presentation

**PHASE 1**

**PHASE 2**