

Course Description Template for Computer Science

First Year – Second Semester

Performance Review of Higher Education Institution ((Academic Program Review))

Course Description

This course description provides a summary of the main characteristics of the course and the learning outcomes expected from the student to achieve, demonstrating whether they have made the maximum use of the available learning opportunities. It must be linked to the .program description

1. Educational Institution	Ministry of Higher Education and Scientific Research / Al-Zahrawi University
2. University Department / Center	College of Pharmacy
3. Course Name / Code	Computer Science CSC17
4. Programs in which it is included	Bachelor of Pharmaceutical Sciences
5. Available Forms of Attendance	Daily Attendance
6. Semester / Year	Second Semester / First year
7. Total Number of Study Hours	٤٥ hours per course
8. Date of preparing this description	2025-2026

Course Objectives: This course aims to provide students with a strong foundation in Computer Science by introducing core concepts of computer systems, programming fundamentals, algorithms, data representation, software development, and problem-solving techniques. The course also focuses on developing logical thinking, analytical skills, and practical knowledge required to understand modern computer technologies and their applications in real-world environments.

9. Learning Outcomes, Teaching and Learning Methods, and Evaluation

A. Knowledge and Understanding

- Explain the fundamental concepts of Computer Science and Information Technology.
- Understand computer hardware, software, operating systems, and networking basics.
- Describe programming concepts, algorithms, and data structures.
- Understand problem-solving methods using computational thinking.
- Explain the ethical and professional responsibilities in computing.

1. Subject-Specific Skills

- Develop programming skills using modern programming languages.
- Apply algorithms and logical thinking to solve computational problems.
- Design and implement simple software applications.
- Use computer applications, databases, and development tools effectively.
- Analyze and debug software errors using systematic approaches.

Teaching and Learning Methods

- Theoretical lectures using PowerPoint presentations.
- Practical demonstrations and laboratory activities.
- Interactive classroom discussions and teamwork activities.
- Homework assignments, projects, and research tasks.

2. Evaluation Methods

- Midterm and final examinations.
- Practical programming tests.
- Classroom participation and presentations.
- Assignments, projects, and homework.

Thinking Skills

- Applying analytical and critical thinking in solving computer problems.
- Developing logical reasoning through programming exercises.
- Enhancing creativity in software and system design.
- Using teamwork and communication skills in technical projects.

3. General and Transferable Skills

Enable students to apply computing knowledge in practical environments.
Improve communication and teamwork skills.
Develop self-learning and research abilities.
Prepare students for professional and academic development in Computer Science.

11. Course Structure					
Weeks	Hours	Required Learning Outcomes	Unit Name / Course or Topic	Learning Methods	Evaluation Method
1	3	Knowledge	Introduction to Computers and Operating Systems	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
2	3	Knowledge	Introduction to Microsoft Office 2010	and PowerPoint Presentations	Group discussion, oral exams, and assignments
3	3	Knowledge	Creating and Saving Documents in Microsoft Word	whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
4	3	Knowledge	Formatting Text, Fonts, and Paragraphs	whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
5	3	Knowledge	Inserting Tables, Pictures, and Shapes	whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
6	3	Knowledge	Page Setup and Printing	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
7	3	Knowledge	Headers, Footers, and Page Numbers	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
8	3	Knowledge	Spell Check, Templates, and Cover Pages	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
9	3	Knowledge	Introduction to Microsoft Excel .	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments

10	3	Knowledge	Data Entry and Working with Cells	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
11	3	Knowledge	Basic Calculations and Functions	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
12	3	Knowledge	Formatting and Creating Charts	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments

13	3	Knowledge	Introduction to PowerPoint	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments
14	3	Knowledge	Creating Slides and Designing Presentations	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments Group discussion, oral exams, and assignments
15	3	Knowledge	Inserting Pictures, Effects, and Animations	Whiteboard and PowerPoint Presentations	Group discussion, oral exams, and assignments

12. Infrastructure	
Required Readings:	References: • Shelly Cashman Series: Microsoft Office 2010 Gary B. Shelly, Misty E. Vermaat. Cengage Learning, 2011. • Microsoft Office 2010 Step by Step Joyce Cox, Joan Lambert. Microsoft Press, 2010. • Microsoft Word 2010 Complete Gary B. Shelly, Thomas J. Cashman, Misty E. Vermaat. Cengage Learning, 2011. • Microsoft Office 2010: Introductory Concepts and Techniques Gary B. Shelly, Misty E. Vermaat. Cengage Learning, 2010. • Microsoft Office 2010 Product Guide Microsoft Corporation, 2010.
Special Requirements (Workshops, Journals, Software, Websites):	Electronic Websites: Microsoft Press Store: Books, eBooks, online resources
Social Services (Guest Lectures, Professional Training, Field Studies, Others)	• Organizing workshops and training courses in computer applications and Microsoft Office programs for graduates. • Conducting field visits to computer laboratories and information technology centers. • Arranging visits to software companies and computer maintenance centers.

13. Admission:	
Prerequisites	Admission according to the central plan
Minimum Number of Students	/

Maximum Number of Students	Admission exceeds the capacity plan.
-----------------------------------	--------------------------------------

Name of the Instructor:

Assistant lecturer Maryam Raheem