# Course Description Form

| 1. Course Title: |
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| Computer Science |

| 2. Course Code: |
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| 3. Semester / Year: |
| --- |
| First Semester / Second Stage / Academic Year 2025–2026 |

| 4. Date of Description Preparation: |
| --- |
| September 22, 2025 |

| 5. Attendance Modes: |
| --- |
| Morning – Evening |

| 6. Total Study Hours / Units: |
| --- |
| 30hours / 2 units (or 45 hours / 3 units) |

| 7. Course Instructor: |
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| Name: Hasanen Sahib Mohammed       Email: hasanen.alsafar1997@gmail.com |

| 8. Course Objectives |
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**Knowledge Objectives**
- Define basic computer concepts and terminology.
- Explain the relationship between hardware and software.
- Differentiate between data and information.
- Analyze the components of operating systems and application programs.

**Skill Objectives**
- Prepare structured academic reports using word-processing software.
- Deliver oral and written presentations using presentation software.
- Apply internet and email skills for research and communication.
- Participate effectively in class discussions and collaborative activities.

**Value Objectives**
- Demonstrate ethical values in the use of technology for the benefit of society.

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| • Respect diversity and differences of opinion within a positive classroom environment.<br>• Contribute to community and awareness activities through the use of technology.<br>• Practice self-criticism and reflection in light of academic values. | |

## 9. Teaching and Learning Strategies

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| **Teaching and Learning Strategies**<br><br>1. Interactive lectures to present theoretical concepts of computers.<br>2. Practical workshops on programs such as (Word, PowerPoint, Internet, Email).<br>3. Group projects to prepare reports or short presentations.<br>4. Individual research assignments on topics such as *Cloud Computing*.<br><br>**Note:**<br>A combination of the following strategies can be mentioned depending on the course:<br><br>• Using interactive lectures to present theoretical concepts in …… while engaging students in discussions and motivational questions.<br>• Employing blended learning by combining classroom lectures with online activities or digital content, including recorded recitations, digital lectures, virtual discussions, and online assessments.<br>• Guiding students to read essential references from …… books and analyze them within coursework to enhance deep understanding.<br>• Assigning students presentations on selected topics from …… to develop summarization, explanation, and communication skills.<br>• Conducting practical workshops in …… to provide opportunities for practicing research and applied skills.<br>• Enhancing collaborative learning through group projects or organized interpretive discussions to develop dialogue and teamwork skills.<br>• Assigning students individual or group research projects on topics of …… using scientific methodology and academic documentation.<br>• Training students on analytical and writing exercises that require deriving concepts and meanings and linking them to real-life situations.<br>• Conducting discussions based on Qur'anic values.<br>• Engaging students in community service activities related to the Holy Qur'an, such as education or awareness, to strengthen the practical impact of knowledge in society.<br>• Encouraging self-reflection by writing personal reflections that connect what the student has learned with their behavior or attitudes in life. | |

| 10. | | Course Structure | | | |
|-----|-----|-----|-----|-----|-----|
| Week | Hours | Intended Learning Outcomes | Unit / Topic | Learning Method | Assessment Method |
| 1 | 2-3 | Familiarize with the course and its objectives | Introduction to Computer Science | Lecture + Discussion | Preparation |
| 2 | 2-3 | Understand principles of networks | Network Basics | Lecture + Exercise | Preparation |
| 3 | 2-3 | Learn about networks | Computer Networks | Lecture | Preparation |
| 4 | 2-3 | Methods of protection from digital intrusions | Cybersecurity | Lecture + Exercise | Homework |
| 5 | 2-3 | Practical application | Microsoft Excel | Lecture + Practical Exercise | Test |
| 6 | 2-3 | Practical application | Microsoft Excel | Lecture + Practical Exercise | Preparation |
| 7 | 2-3 | Practical application | Microsoft Excel | Lecture + Discussion | Assignment |
| 8 | 2-3 | E-banking services | E-Commerce | Lecture + Exercise | Preparation |
| 9 | 2-3 | E-banking services | E-Commerce | Lecture | Short Quiz |
| 10 | 2-3 | Common hardware problems and solutions | Computer Troubleshooting | Lecture | Preparation |
| 11 | 2-3 | Common hardware problems and solutions | Computer Troubleshooting | Discussion + Presentations | Student Presentation |
| 12 | 2-3 | Understand principles of artificial intelligence | Artificial Intelligence | Lecture | Preparation |
| 13 | 2-3 | Examples of artificial intelligence | Artificial Intelligence | Lecture | Report |
| 14 | 2-3 | Review | General Course Review | Discussion | Midterm Exam |
| 15 | 2-3 | Final assessment | Final Exam | Written | Exam |

## 11.　　Course Evaluation

- Attendance and class participation: 5 marks
- Assignments and reports: 5 marks
- Quizzes and practical tests: 5 marks
- Midterm exam: 25 marks

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| • Final exam: 60 marks | |

| 12. | Learning and Teaching Resources |
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| 1-Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", 3rd Edition (2020)<br>2- FunAlan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete", 16th Edition (2020).<br>3- Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", Ist Edition (2024)<br>4- Microsoft Office 2019 Step by Step 1st Edition by Curtis Frye & Joan Lambert<br>5-COMMITTEE "الخضر على الخضر بحاث أساسيات الحاسوب<br>5 2016<br>6-2005 " الدكتور عادل عبد النور. "مدخل إلى عالم الذكاء الاصطناعي | Prescribed Textbooks: |
| • Modern Operating Systems – Andrew S. Tanenbaum<br><br>• Database System Concepts – Abraham Silberschatz<br><br>• Computer Science: An Overview – J. Glenn Brookshear | Main References (Sources) |
| • Computer Fundamentals – P.K. Sinha<br>• Introduction to Computers – Peter Norton | Recommended Supporting Books and References (Scientific Journals, Reports, etc.) |
| • GeeksforGeeks – Algorithms and Data Structures section<br>• IEEE Xplore – Academic Articles<br>• SpringerLink – Books and Scientific References | Electronic References and Websites |

مصادقة عميد الكلية

مصادقة رئيس القسم