Course Specification
(Bachelor)

Course Title:	**Computer Assembly and Operation**
Course Code:	155 CIS-3
Program	**Technical support**
Department	**Computer Department**
College:	**Applied College**
Institution	:Najran University
Version	: 3
Last Revision Date:	1-10-2024

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (3 hours)					
2. Course type					
A.	☐University	☐College	☒ Department	☐Track	☐Others
B.	☒ Required		☐Elective		
3. Level/year at which this course is offered: (2nd semester.)					
4. Course General Description:					
Comprehensive knowledge of computer core components and how to assemble it. It also covers security topics as viruses and antivirus types and effects ,and computer support and backup ,finally cover how to handle the computers safely and security					
5. Pre-requirements for this course (if any)**:**					
NO					
6. Co-requisites for this course (if any)**:**					
NO					
7. Course Main Objective(s):					
This course introduce student to all core computer components and follow a step-by-step guide to know assembling a PC and RAM, Windows installation and BIOS also, it enable students to know how to set up and install common peripheral devices safely.					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3 hours per week	100%
2	E-learning		
3	Hybrid • Traditional classroom • E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	30
2.	**Laboratory/Studio**	30
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
1.1	Knows the core of computer components	K2	Lecture Individual and group discussion	Exams Assignments
1.2	Describes how to setup and install common peripheral devices	K1	Lecture Individual and group discussions	Exams Assignments
…				
2.0	**Skills**			
2.1	Assemble computer	S2	Lecture Brainstorming Lecture Small group work	Exams Group reports Exams Assignment
2.2	Install and configure windows	S3	Lecture Brainstorming Lecture Small group work	Exams Group reports Exams Assignment
…				
3.0	**Values, autonomy, and responsibility**			
3.1	Demonstrate projects and assignments in team work to assemble computer and operate it.	V2	Small group work Group Presentation Projects	Group report
3.2				

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Core Hardware Components • motherboard • processor	4
2.	Core Hardware Components • memory • storage	4
3.	Core Hardware Components • expansion slots • power and cooling system	4
4.	Peripherals and connecters • peripherals types and there characteristics • connector types and characteristics	6
5.	Computer Assembling • Case • Motherboard • Memory	6
6.	Computer Assembling • Hard Disk Drive (HDD) • Floppy Disk Drive (FDD) and removable storage devices	4
7.	Computer Assembling • CD and DVD • Display System • Audio System	4
8.	Computer Assembling • Mouse and Keyboard • Modem and Printer • Ports and Jacks	4
9-	Hard Disk Drive (HDD) • Data organization on the disk • Tracks/Sectors/Cylinders • Characteristics of HDD	4
10-	BIOS files	4
11-	Buying and configuring workstation	3
12-	Mobile devices	4

13-	Security threats	3
14-	Computer support and backups	3
15-	Environmental and safety	3
Total		60

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Middle-Term Exam	8	20%
2.	Assignments	From 2 to 12	10%
3.	Practical Exam	16	20%
4.	Final exam	17	50%
5.			

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	A+ Guide to Managing and Maintaining Your PC. By Jean Andrews, 8 th Edition
Supportive References	
Electronic Materials	
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture rooms should be large enough to accommodate the number of registered students
Technology equipment (projector, smart board, software)	Black Board/Data Show
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	***Student***	***Questioners***
Effectiveness of Students assessment	Staff committee	Cross checking
Quality of learning resources	Faculty Administration	Review and check the results
The extent to which CLOs have been achieved	Quality management in the department	A review of the measurement of learning outcomes
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify)

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	