Course Specification
(Bachelor)

Course Title:	Various concepts
Course Code:	170CIS -2
Program	Technical support
Department:	computer
College:	Applied college
Institution: :	Najran University
Version:	*Course Specification Version Number*
Last Revision Date:	٢٠٢٤-١٠-٢

Table of Contents

A. General information about the course:

1. Course Identification

1. Credit hours: (2)					
2. Course type					
A.	☐University	☐College	☐Department	☐Track	☐Others
B.	☐Required		☒ Elective		
3. Level/year at which this course is offered: (level 5)					
4. Course General Description:					
This course Introduces the main concepts of Artificial Intelligent, internet of things, Mobile Computing, Parallel Databases, Data science , Robotics , cyber security , cloud storage, parallel programming and hologram technology					
5. Pre-requirements for this course (if any)**:**					
6. Co-requisites for this course (if any)**:**					
7. Course Main Objective(s):					
1. **Understand the basic concepts of artificial intelligent and robotics** 2. **Understand the basic concepts of internet of things** 3. **Understand the basic concepts of parallel database and programming** 4. **Build a good background for future study in computer science.**					

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	2 hours per week	95%
2	E-learning		5%
3	Hybrid • Traditional classroom • E-learning		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	**Lectures**	28
2.	**Laboratory/Studio**	
3.	**Field**	
4.	**Tutorial**	
5.	**Others (specify)**	
Total		28

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	**Define the main concepts of artificial intelligent and robotics**	K1=I	**Lectures/discussions in forums**	**Discussion-based evaluation**
1.2	**Processing the data related to computer science methods**	K2= I		**evaluation Practical tests**
...\.3	**recognize of parallel programming and databases**	K3 = M		**Application duties research**
2.0	**Skills**			
2.1	**The ability to understand, process and prepare data**	S1= M	**Discussion and dialogue style / problem solving behavior / scientific statement style / workshop style / group**	**Tests and assignments**

Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
			activities / cooperative education / case study style	
2.2				
...				
3.0	**Values, autonomy, and responsibility**			
3.1	Respects others in various work environments and takes responsibility for decision-making	V1=P	Individual and group activities cooperative education Worksheet	Note cards
3.2	Practice and Innovation in work professionally in computer science	V2=P		
...				

C. Course Content

No	List of Topics	Contact Hours
1.	Artificial intelligent	4
2.	Internet of things	4
3.	Computing Mobile	2
4.	Parallel database	2
5.	Data science	2
6.	Robotics	2
7.	Parallel Programming	4
8.	Hologram technology	2
9.	review	2
10.	Parallel Programming	4
11.	Hologram technology	2

Total		28

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Assignments	4 , 6 , 8	10%
2.	Midterm exam	8	20%
3.	Homework and Quizzes	11	20%
4.	The final exam	End of semester	50%
5.	Total		100%

*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	
Supportive References	Black board
Electronic Materials	http://lib.nu.edu.sa/DigitalLibbrary.aspx
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	A classroom equipped with a projector (image and sound) and a smart board
Technology equipment (projector, smart board, software)	Business automation lab equipped with computers and connected to the Internet
Other equipment (depending on the nature of the specialty)	Electrical connections to use when necessary

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Head of the department and Departmental Council discussions	Directly
Effectiveness of Students assessment	Students	End term Questionnaire
Quality of learning resources	instructor	Direct (software) CLO assessment
The extent to which CLOs have been achieved		
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	