



Course Specification

(Bachelor)

Course Title: Special Topics in Computer Science 2

Course Code: 575CCS-3

Program: Bachelor of Science in Computer Science

Department: Department of Computer Science

College: Computer Science and Information Systems

Institution: Najran University

Version: 2.0

Last Revision Date: August 2022

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A. General information about the course:

1. Course Identification

1. Credit hours: (3)

3 (3, 0, 1) [Theory, Lab, Tutorial]

2. Course type

A. ☐ University ☐ College ☒ Department ☐ Track ☐ Others
B. ☒ Required ☐ Elective

3. Level/year at which this course is offered: (Level 10/Year 5)

4. Course General Description:

This course presents specific novel topics, concepts, problems, or emerging technologies in the Computer Science field. This course will be guided by its instructor. The topics are selected by the instructor of the course based on his knowledge of the latest developments in Computer Science along with the previous courses taken by the students. All topics of the course should be in one field that has been chosen in that semester.

5. Pre-requirements for this course (if any):

574CCS-3 (Special Topic in Computer Science 1)

6. Co-requisites for this course (if any):

None

7. Course Main Objective(s):

The main objective of this course is to introduce and deeply explain some subjects which have not been demonstrated in previous semesters. Students will have the ability to explore more beyond the subjects and figure out new concepts in the field of computer science.

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100%
2	E-learning		





No	Mode of Instruction	Contact Hours	Percentage
3	Hybrid <ul style="list-style-type: none"> Traditional classroom E-learning 		
4	Distance learning		

3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	45
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	15
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	Know the concepts and components of modern topics presented.	K ₁	Lectures Case studies presentations	Written Exam Homework assignments Class Activities Quizzes
1.2	Know the mechanism of work systems and ideas of the topics of the course.	K ₁		
1.3				
2.0	Skills			
2.1	Think of scientific methodology in the topics of the course.	S1	Lectures Case studies Individual presentations Brainstorming	Quiz , midterm exam, final exam, Homework assignments
2.2	Offer solutions to the problems of the topics presented.	S2, S5		
2.3	The function most implementations in practice.	S4, S5		
2.4				
3.0	Values, autonomy, and responsibility			





Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
3.1	Work in discussion groups and practice subject activities.	V1	Small group discussion Brainstorming Presentation	Assignments
3.2	Gain leadership skills in the implementation of the topics presented.	V1, V2		

C. Course Content

No	List of Topics	Contact Hours
1.	Determined by the course instructor.	
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
Total		60

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	3 rd , 6 th and 11 th week	15%
2.	Assignments	5 th and 10 th week	15%
3.	Midterm Exam	10 th week	20%
4.	Final Exam	16 th week	50%

*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	Determined by the instructor
Supportive References	
Electronic Materials	
Other Learning Materials	

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture Rooms and lab with 30 seats.
Technology equipment (projector, smart board, software)	Desktop/ Laptop computer Multimedia Projector Smartboard
Other equipment (depending on the nature of the specialty)	

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Collecting students' suggestions to facilitate more during the class.	Students	Verbal discussion
Student's questionnaire once during the semester about course learning outcomes.	Students	Indirect Survey
Achievement percentage of course learning outcomes, direct evaluation using CLO assessment sheet	Course Instructor	Direct evaluation using CLO achievement calculation
Teaching strategies	Quality unit	Indirect
Assessment methods	Quality unit	Indirect
Instructor performance	Quality unit	Indirect
Course content	Quality unit	Indirect

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

Assessment Methods (Direct, Indirect)



G. Specification Approval

COUNCIL /COMMITTEE	Computer Science Departmental Council
REFERENCE NO.	14440203-0185-00002
DATE	1st Sep, 2022

