





# **Course Specification**

- (Bachelor)

**Course Title: GUI Programming** 

Course Code: 313CIS-3

**Program: Bachelor of Information Systems** 

**Department: Information Systems** 

**College: Computer Science and Information Systems** 

**Institution: Najran University** 

**Version**: Course Specification Version Number

**Last Revision Date**: *Pick Revision Date.* 



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#### A. General information about the course:

1. C	ourse Identifica	tion				
1.	Credit hours: ( 3	)				
3(2	2,1,0)					
2.	Course type					
A.	□University	□College	⊠ Depa	rtment	□Track	Others
В.	⊠ Required			□Electi	ive	
3.	Level/year at w	hich this cours	e is offered	l: ( Leve	el 6/Year 3)	
4.	Course General	Description:				
and cor ard dar as	d UI principals. I mponents, Eve chitecture. In a tabases for appli HTML/CSS/Javas	t focuses on G nt handling, ddition, GUI ication throug Script and Java	UI controls Charts, tdesign, GU h a carefully FX/.NET en	and cor transfor II user y selecte	mposite UI mation, a interaction ed program	of GUI programming components, layout nd Client —server working through ming language such
5.	Pre-requiremen	ts for this cou	rse (if any):			
6.	Co-requisites fo	r this course (i	f any) •			

#### 7. Course Main Objective(s):

The main objective of the course is to introduce the concepts: Computer Networks. Addressing and Data Comm.

- Describe GUI fundamentals, events, dialog boxes, client-server architecture, data access, web application, web application
- Develop an application using html/css/JavaScript
- Create charts and transformations and screens.
- Demonstrate Event handling mechanism.
- Develop application for data access.
- Develop teamwork and research skills in the implementation of computer interface webpages





## 2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	50	100%
2	E-learning		
	Hybrid		
3	<ul> <li>Traditional classroom</li> </ul>		
	<ul><li>E-learning</li></ul>		
4	Distance learning		

#### 3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	Lectures	20
2.	Laboratory/Studio	20
3.	Field	
4.	Tutorial	10
5.	Others (specify)	
Total		50

# 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 under	standing		
1.1	Describe GUI fundamentals, events, dialog boxes, client-server architecture, data access, web application, web	K1	Lecture	Tests, Quizzes, and Assignments
1.2				
2.0	Skills			



Code	Course Learning Outcomes	Code of PLOs aligned with the program	Teaching Strategies	Assessment Methods
2.1	Develop an application using html/css/JavaScript	S1	Lecture, Lab	Tests, Quizzes, Assignments, and Lab
2.2	Create charts and transformations and screens	S1,S4	Lecture, Lab	Tests, Quizzes, Assignments, and Lab
2.3	Demonstrate Event handling mechanism	S2	Lecture, Lab	Tests, Quizzes, Assignments, and Lab
2.4	Develop application for data access	S4	Lecture, Lab	Tests, Quizzes, Assignments, and Lab
3.0	Values, autonomy, and responsibility			
3.1	Develop teamwork and research skills in the implementation of computer interface webpages	V1	Problem solving in a group	Assignment and presentation
3.2				

#### **C.** Course Content

No	List of Topics	Contact Hours
1.	Introduction to user interface design concept	5
2.	Understand and apply fundamental UI design principles while programming desktop UI components	5
3.	HTML Basics	5
4.	HTML Advance	5
5.	CCS concepts and application	5
6.	Java programming language review	5
7.	Java Script with HTML basics	5
8.	Event handling using Java Scripts	5
9.	interface evaluation (e.g., user studies, cognitive models)	5
10.	Develop application for data access	5
	Total	50



#### **D. Students Assessment Activities**

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz	3	10
2.	Midterm	6	20
3.	Assignment	5	10
4.	Lab Activities	1-10	10
5.	Lab Final	11	10
6.	Final Exam	12	40

<sup>\*</sup>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	Text Book:  HTML5 – TutoialPoint.com (pdf)  JavaScript Tutorial – TutorialPoint.com (pdf)  Developing User Interfaces (1998), by Dan R. Olsen, Jr. Morgan Kaufmann; ISBN 1558604189.  Java: The Complete Reference, Ninth Edition by Herbert Schildt, Oracle Press, Mc-Graw Hill Education ( Publisher), 2014
Supportive References	
Electronic Materials	https://www.W3school.org https://www.cs.umd.edu/users/ben/goldenrules.html http://tutorials.jenkov.com/javafx/fxml.html https://www.javatpoint.com/java-swing https://www.javatpoint.com/java-awt https://www.w3schools.com/js/js_intro.asp https://www.w3schools.com/html/default.asp
Other Learning Materials	

# 2. Required Facilities and equipment

Items	Resources
facilities	
(Classrooms, laboratories, exhibition rooms,	ClassRoom & Laboratory
simulation rooms, etc.)	



Items	Resources
Technology equipment (projector, smart board, software)	data show, PCs.
Other equipment (depending on the nature of the specialty)	Routing and switching Lab

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Indirect
Effectiveness of Students assessment	Students, Faculty	Indirect
Quality of learning resources	Students, Faculty	Indirect
The extent to which CLOs have been achieved	Students, Faculty	Indirect
Other		

Assessors (Students, Faculty, Program Leaders, Peer Reviewers, Others (specify)
Assessment Methods (Direct, Indirect)

#### **G. Specification Approval**

COUNCIL /COMMITTEE	17th Department Council
REFERENCE NO.	14460810-0976-00017
DATE	10/02/2025

