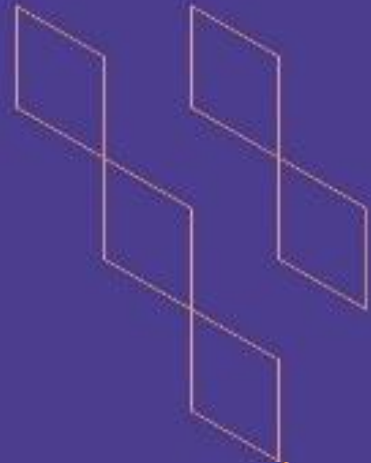




T-104
2022

Course Specification



Course Title: Cloud Business Applications
Course Code: IS1760
Program: Computer Information Systems
Department: Computer Information Systems
College: Computer Science and information technology
Institution: Al-Baha University
Version: T104 – V2
Last Revision Date: March 29, 2023



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A. General information about the course:

Course Identification

1. **Credit hours:** 3 Credit Hours (3, 0, 0) (Lecture, Lab, Tutorial)
(3 Contact Hours)

2. Course type

a. University College Department Track Others

b. Required Elective

3. **Level/year at which this course is offered:** Elective course (10th level/ 4th Year)

4. Course general Description

This course provides an introduction to cloud computing concepts, technologies, and architectures. It covers the key components of cloud infrastructure, cloud security, cloud architecture, cloud storage, cloud networking, cloud computing for business, cloud applications, cloud analytics, and cloud future trends. The course also examines the advantages and disadvantages of cloud computing, cloud adoption strategies, and cloud career opportunities.

5. **Pre-requirements for this course (if any): IS1507- IT Infrastructure**

6. **Co- requirements for this course (if any): None**

7. Course Main Objective(s)

Upon completion of this course, students will be able to:

- Understand the concepts and history of cloud computing.
- Analyze and evaluate cloud security risks and threats, and identify mitigation measures.
- Design and develop cloud applications and deploy them using cloud platforms.
- Discuss emerging cloud technologies and future trends.

1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	30	100%
2.	E-learning		
3.	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 		
4.	Distance learning		

2. Contact Hours (based on the academic semester)

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



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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Define cloud computing concepts and history.	K1	<ul style="list-style-type: none"> Lectures 	<ul style="list-style-type: none"> Quiz Midterm Final exam
1.2	Classify the types of cloud services and their advantages and disadvantages.	K2	<ul style="list-style-type: none"> Lectures 	<ul style="list-style-type: none"> Quiz Midterm Final exam
1.3	Identify the components of cloud infrastructure and their providers.	K3	<ul style="list-style-type: none"> Lectures 	<ul style="list-style-type: none"> Quiz Midterm Final exam
2.0	Skills			
2.1	Evaluate potential cloud security risks and threats	S1	<ul style="list-style-type: none"> Lectures Assignments 	<ul style="list-style-type: none"> Homework Quiz Midterm Final exam
2.2	Develop cloud applications using various cloud platforms	S2	<ul style="list-style-type: none"> Lectures Assignments 	<ul style="list-style-type: none"> Homework Quiz Midterm Final exam
2.3	Analyze cloud analytics concepts and tools	S3	<ul style="list-style-type: none"> Lectures Assignments 	<ul style="list-style-type: none"> Homework Quiz Midterm Final exam
2.4	Describe emerging cloud technologies and future trends in the industry	S4	<ul style="list-style-type: none"> Lectures Assignments 	<ul style="list-style-type: none"> Homework Quiz Midterm Final exam
3.0	Values, autonomy, and responsibility			
3.1	Interact in groups collaboratively	V1	<ul style="list-style-type: none"> Teamwork (Smaller group) 	<ul style="list-style-type: none"> Report Oral Presentation





C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to Cloud Computing	3
2.	Cloud Infrastructure	3
3.	Cloud Security	3
4.	Cloud Architecture	3
5.	Cloud Storage	3
6.	Cloud Networking	3
7.	Cloud Computing for Business	3
8.	Cloud Applications	3
9.	Cloud Analytics	3
10.	Cloud Future Trends	3
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Homework	Periodically	10 %
2.	Midterm	5	20 %
3.	Course Project presentation and report	8	10 %
4.	Final Exam	13	60 %

*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	<ul style="list-style-type: none"> Cloud Computing: Concepts, Technology & Architecture (The Prentice Hall Service Technology Series) Business in the Cloud: What Every Business Needs to Know About Cloud Computing Michael H. Hugos, Derek Hultzky, ISBN: 978-0-470-61623-9.
Supportive References	<ul style="list-style-type: none"> ACM (Association for Computer Machinery) Curricula Recommendations -http://www.acm.org/education/curricula-recommendations
Electronic Materials	<ul style="list-style-type: none"> Access to the Saudi Digital Library (SDL). Using the learning management system of the university – Rafid System (https://lms.bu.edu.sa/).
Other Learning Materials	Internet





2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Each class room size is provided with 20-25 seats which are more enough to accommodate registered students
Technology equipment (projector, smart board, software)	Smart boards AWS
Other equipment (depending on the nature of the specialty)	Needed Internet facility

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	<ul style="list-style-type: none"> Students Faculty Peer Reviewers Program Leader Course Coordinator 	<ul style="list-style-type: none"> Surveys (indirect). Direct feedback from students. Course evaluation by Peer Reviewers (indirect). Class visit by Program Leader (indirect) Comprehensive Course report (where we can find information about teaching difficulties and action plan, ...)
Effectiveness of students assessment	<ul style="list-style-type: none"> Faculty Peer Reviewers 	<ul style="list-style-type: none"> Surveys (indirect)
Quality of learning resources	<ul style="list-style-type: none"> Students Faculty Peer Reviewers Course Coordinator 	<ul style="list-style-type: none"> Surveys (indirect) Course evaluation by Peer Reviewers (indirect). Comprehensive Course report (where we can find information about difficulties and challenges about learning resources as well as consequences and action plan, ...)
The extent to which CLOs have been achieved	<ul style="list-style-type: none"> Faculty Program Leader Course Coordinator 	<ul style="list-style-type: none"> Student Results (direct) Comprehensive Course report (where we can find the CLO assessment results)
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Curriculum Committee Meeting
REFERENCE NO.	
DATE	March 30, 2023

