

T-104 2022

Course Specification

Course Title: IT Infrastructure

Course Code: IS1507

Program: Computer Information Systems

Department: Computer Information Systems

College: Computer Science and Information Technology

Institution: University of Al-Baha

Version: 1

Last Revision Date: 25/05/2023





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A. General information about the course:

Со	urse Identificati					
1.	Credit hours:	3 Credit Hours (3, 0, 0) (3Contact Hours)	(Lecture	e, Lab, Tutorial)		
2. (Course type					
a.	University □	College □	Dep	partment⊠	Track□	Others□
b.	Required ⊠	Elective□				
	Level/year at whered:	nich this course	is	Level: 8 Th /Ye	ar 3	
Info and infr kno who orga IT i role solu	ormation Technolo communication neastructure solution whedge and skills ose special focus is anizational process of frastructure capales that require intentions. The course	an introduction to I gy. It covers topics etworks, with an or as enable in an orga that they need for or s on hardware and s ses and software so bilities and limitation focuses strongly of tinuity, and the role	s relate verall unizati commo system olution ons. It al veno n Inter	ed to both computed to both computed to both context. It gunicating effections software techns that require intalso prepares the dors of IT infrastruct-based solution	rices and system rices and capal gives the student vely with profest all to a colory and for depth understate the students for tructure components, computer	ns architecture bilities that IT nts the essionals designing anding of the organizational onents and and network
	·	ts for this cours	`			
6.	Co- requiremen	ts for this cours	se (If a	any): none		
7. (Recognize the cIllustrate attribute	nceptual IT infrastrurrent trends in IT	infras	tructure	T System mod	lel
	o Availability o Performance o Security					
	• Diagram how	various compone	nts fit	into the IT infra	structure	
	o Data center o Servers o Networks o Storage	the impact of virtu	ıalizo#	ion on IT infract	gicture	





1. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1.	Traditional classroom	30 Hours	100%
2.	E-learning		
3.	HybridTraditional classroomE-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	model - Support existing operations K1 Lecture		-Midterm exams - Final Exam	
1.2	Realize the current trends in IT Infrastructure. Ability to demonstrate basic knowledge and understanding of essential facts, concepts, principles, and theories relating to how Information technology is being currently used, and how it fits into a business enterprise		Lecture	-Midterm exams - Final Exam
2.0	Skills			
2.1	Employ traits that make IT Systems valuable (nonfunctional attributes: o Availability o Performance o Security	S1	Lecture	-Midterm exams - Final Exam
2.2	Evaluate how various components fit into the IT infrastructure o Data center o Servers	\$3	Lecture	-Quiz - Final Exam



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	o Networks o Storage o Compute o Operating Systems o End User Device			
3.0	Values, autonomy, and responsibility	/		
3.1	Manage attributes of IT Systems	V2	Course project	Report & Slides presentation

C. Course Content

No	List of Topics	Contact Hours
1.	Introduction to IT Infrastructure Models	1.5
2.	IT Systems Models	1.5
3.	Attributes of IT Infrastructure and its Components	1.5
4.	Availability	1.5
5.	Performance	1.5
6.	Security	3
7.	Data Centers	3
8.	Servers	3
9	Networking	1.5
10	Storage	3
11	Compute	3
12	Operating Systems	3
13	End User Devices	3





D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Midterm Exam	6th week	20%
2.	Quiz	8th week	10%
3.	Course project (report and presentation)	10th week	10%
4.	Final Exam	11th week	60%
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	IT Infrastructure Architecture - Infrastructure Building Blocks and Concepts Second Edition [Hardcover] SjaakLaan Hardcover: 438 pages Publisher: Lulu.com (February 24, 2013) Language: English ISBN-10: 1291250794 ISBN-13: 978-1291250794
Supportive References	 Computer Science Curriculum 2013 – http://cs2013.org ACM(Association for Computer Machinery) Curricula Recommendations - http://www.acm.org/education/curricula-recommendations Communications of ACM (Association for Computer Machinery) - http://cacm.acm.org/ Journal of the ACM - http://jacm.acm.org/ ACM SIGCSE (Special Interest Group on Computer Science Education) bulletin -http://www.sigcse.org/Bulletin ACM Transactions on Computing Education (TOCE) - http://toce.acm.org/
Electronic Materials	 Access to the Saudi Digital Library (SDL). Using the learning management system of the university – Rafid System (https://lms.bu.edu.sa/). ACM (Association for Computer Machinery) web site - http://www.acm.org/ ACM SIGCSE (Special Interest Group on Computer Science Education) resource web site - http://www.sigcse.org/SIGresources IEEE Computer Society web site - http://www.computer.org/portal/web/guest/home Intel The Journey Inside web site (has a collection of interactive, online lessons about technology, computers, and society) – http://educate.intel.com/en/TheJourneyInside/ Google Code University Curriculum Resource web site - http://code.google.com/edu/resources/index.html
Other Learning Materials	None





2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	A classroom or lecture hall with whiteboard for 25 students.
Technology equipment (projector, smart board, software)	A digital image projection system with connection to desktop computer. High-speed Internet connection
Other equipment (depending on the nature of the specialty)	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	StudentsPeer Reviewer	Survey (indirect)Peer review (direct
Effectiveness of students assessment	 Students Exam Evaluation	Survey (indirect)Exam Review (direct)
Quality of learning resources	FacultyStudents	Survey (indirect)
The extent to which CLOs have been achieved	FacultyCourse Coordinator	Exams (direct)Exit Exams (direct)
Other		

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify) **Assessment Methods** (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	
REFERENCE NO.	
DATE	25/05/2023

