

الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جامعة ـ صنعاء كلية الحاسوب وتكنولوجيا المعلومات وحدة ضمان الجودة

#### **Course Specification of Information Systems Strategies**

Course No ( ..... )

2020/2021

Head of Department	Vise Dean for Qulity Assurance	Dean of the Faculty	Dean of Development center and Quality Assurance
Assoc. Prof. Mansour N. Ali	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad



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# Course Specification of Information Systems Strategies

I. C	I. Course Identification and General Information:					
1	Course Title:	Information Systems Strategies				
2	Course Code & Number:					
			C.	Н		TOTAL
3	Credit hours:	Th.	Seminar	Pr	Tr.	
		3	-	-	-	3
4	Study level/ semester at which this course is offered:	3 <sup>rd</sup> Level /2 <sup>nd</sup> semester				
5	Pre –requisite (if any):	Information System Fundamentals				
6	Co –requisite (if any):	None				
7	Program (s) in which the course is offered:	Information System				
8	Language of teaching the course:	Arabic/English				
9	Study System	Term l	oased syste	m		
10	Mode of delivery:	Full Time				
11	Location of teaching the course:	Faculty of Computer and Information Technology			ormation	
12	Prepared By:	Dr. Mokhtar Mohammed Ghilan				
13	Date of Approval					

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### II. Course Description:

This course explores the issues and approaches in managing the information systems function in organizations and how the IS function integrates / supports / enables various types of organizational capabilities. It addresses issues relating to defining the high-level IS infrastructure and the systems that support the operational, administrative and strategic needs of the organization. The course focus on the concept of alignment between the IS strategy and organization strategy.

III. C	Course Intended learning outcomes (CILOs) (maximum 8CILOs)	Referenced PILOS (Only write code number of referenced Program Intended learning outcomes)
a.1	Show understanding of the various functions of IS and its impact on the organizational operations.	A2
a.2	Recognize the important of alignment between the information systems strategy and organization strategy	A2
b.1	Design information systems strategic plan.	B1,B4
b.2	Integrate the information systems strategy with the organization strategy	B4
c.1	Choose appropriate tools and technique to develop and implement effective information systems strategy.	C1

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c.2	Employ the new technologous organization strategy	C3			
d.1	Work effectively as indivi	dual and with a team.		D1	
d.2	Engage in a life-long self communicate effectively	D2			
(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:					
Cour	Course Intended Learning Teaching strategies Assessment Strategies Outcomes				
various fu impact on	a1- Show understanding the various functions of IS and its impact on the organizational operations.  Lecture  Discussion  Written example reports, quize rep			ms, oral exams, zzes	
<b>a2-</b> Recognize the important of alignment between the information systems strategy and organization strategy		Lecture Discussion	Written exareports, quiz	ms, oral exams, zzes	

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Teaching strategies Assessment Strategies Outcomes			
<b>b1-</b> Design information systems strategic plan.	Interactive Lecture Presentation	Written exams, oral exams, reports, quizzes	

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	Group discussion	
<b>b2-</b> Integrate the information systems strategy with the organization strategy	Interactive Lecture Presentation Group discussion	Written exams, oral exams, reports, quizzes

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:			
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies	
<b>C1-</b> Choose appropriate tools and technique to develop and implement effective information systems strategy.	Interactive Lecture Presentation Group discussion	Reports and oral exams	
C2- Employ the new technology in a managed way to achieve the organization strategy	Interactive Lecture Presentation Group discussion	Reports and oral exams	

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
<b>d1-</b> Work effectively as individual and with a team	Lectures Presentation	Discussion and oral exam

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	Group discussion	
<b>d2-</b> Engage in a life-long self-learning, develop leadership skills and communicate effectively with various organizational stakeholders		Discussion and oral exam

# **IV. Course Content:**

# A – Theoretical Aspect:

Order	Units/Topics List	Learnin g Outcome s	Sub Topics List	Numbe r of Weeks	contac t hours
1	The Evolving Role of Information Systems and Technology in Organizations: A Strategic Perspective	a1,a2	<ul> <li>Introduction to course</li> <li>Information Systems (IS), Information Technology (IT)</li> <li>'Digital Disruption': The Impact of IS/IT</li> <li>A Three-era Model of Evolving IT Application in Organizations</li> <li>A Classification of the Strategic Uses of IS/IT</li> <li>Success Factors in Strategic Information Systems</li> <li>A Portfolio Management Perspective on IS/IT Investments</li> <li>What Is an IS/IT or Digital Strategy?</li> <li>From Strategic Alignment to Strategy Co-evolution</li> </ul>	2	6

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2	An Overview of Strategic Management and the IS/IT Strategy Implications	a1,a2	<ul> <li>Digital Strategies for the 21st Century: Building a Dynamic Capability to Leverage IS/IT</li> <li>The Evolving Nature of Strategic Management in Organizations</li> <li>Scope of Strategy Development</li> <li>A Framework for Strategy Formulation</li> <li>Where to Compete</li> <li>How to Gain an Advantage?</li> <li>What Assets do We Have? What Assets are Required?</li> <li>How to Change - the Need for Dynamic Capabilities</li> <li>Strategy Implementation</li> </ul>	1	6
3	Establishing an Effective Process for Developing Information Systems and Technology (or Digital)Strategies	a2,b1,b2	<ul> <li>The Evolution of the JS/IT Strategy Process: From Technology Deployment to Strategic focus</li> <li>The Business Context for Developing and Managing the Strategy</li> <li>Establishing an Effective Process: Continuous and Flexible</li> <li>Setting the Scope for the Strategy</li> <li>A Framework for IS/IT Strategy Formulation</li> <li>Other Deliverables from the IS/IT Strategy Process</li> </ul>	2	6
4	IS/IT Strategic Analysis: Achieving Alignment with	a1,b1,c1 ,c2	- Understanding the Current Situation	2	6

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	Business Operations and		-	The Business Operating		
	Strategy			Model: Processes, Activities		
	Strategy			and Key Entities		
			_	Organizational Environment		
			_	Examining the Existing IS/IT		
				Environment		
			_	Information and Systems to		
				Meet Current Business		
				Objectives: The Use of		
				Balanced Scorecards and		
				Critical Success factors		
			_	Process Analysis		
			_	Redesigning Processes		
			-	Understanding What It Means		
				to Innovate with IT		
			_	The Process of Digital		
				Business Innovation		
			_	The 'push' and 'pull' of		
				Innovating with IS/IT		
			_	Getting Management		
				Attention for Ideas and		
	Innovating with			Innovations		
5	Technology, Systems and	a1,b1,c2	_	Joining the Dots: the Search	2	6
	Information	41,51,62		for Ideas	_	
	Information		_	Innovating by Leveraging		
				information: Exploration and		
				Exploitation		
			_	The Big Data Challenge		
			_	Discovering Strategic IS/IT		
				Opportunities from		
				information		
			_	Building an Analytic		
				Capability		
			-	Achieving and Sustaining		
	Exploiting Information	.4 .2 .4		Advantages across the Value		
6	Systems for Strategic	a1,a2,b1		Disciplines	2	3
	Advantage	,c1,c2	-	Exploring New Value		
				Propositions: Information		
				Product; and Services		

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2							
		rning Ou	itcomes				
В-	Practical Aspect: (i	f any)					
Numb	Number of Weeks /and Units Per Semester				14	42	
	Student Presentation	All	Collson	Consolidation			3
7	Determining the Business Information Systems Strategy	b1,b2,c1 ,c2	Forces Opport Value 0 Custon Manag Chain From V Networ The Int The Us Analys Busine Tools Formul Relatio A Fran Tools Effecti Identify Impact Establi Prioriti Investr Large 0 SBUs	ternal Value Chain tees of Value Chain is ses of Value Chain is ses Strategy and IS/for IS/IT Stratation and Techniquely strategy of the Business Strateshing the Reless for IS/ments  Organizations, Muland Stratashing and Stratashing the Reless for IS/ments	TT ategy Γheir iques Could egy ative	2	3

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4				
5				
Num	Number of Weeks /and Units Per Semester			

V. Teaching strategies of the course:
Lecture
Interactive lectures
Group discussion
Presentation

V	I. Assignments:						
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark			
1	- Analysis and design information systems plan for an organization	a1,a2,b1,b2,c1,c2,d1,d2	14 <sup>th</sup>	20			
2	- Presentation on topics related to the course	a1,a2,b1,b2,c1,c2,d1,d2	4 <sup>th</sup> -15 <sup>th</sup>	10			

VII	VII. Schedule of Assessment Tasks for Students During the Semester:							
No	Accessment Mathed	Week	Monte	Proportion of Final	Aligned Course			
No.	Assessment Method	Due	Mark	Assessment	Learning Outcomes			

Head of Department

Vise Dean for Qulity
Assurance

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1	Assignment (1)	14 <sup>th</sup>	20	20%	a1,a2,b1,b2,c1,c2,d1,d2
2	Assignment (2)	4 <sup>th</sup> - 15 <sup>th</sup>	10	10%	a1,a2,b1,b2,c1,c2,d1,d2
3	Mid-Exam	8 <sup>th</sup>	20	20%	a1,a2,b1,b2
4	Final Exam	16 <sup>th</sup>	50	50%	a1,a2,b1,b2,c1,c2

## VIII. Learning Resources:

- Written in the following order: ( Author Year of publication Title Edition Place of publication Publisher).
- 1- Required Textbook(s) ( maximum two ).
  - Joe Peppard & John Wardthe, (2016), Strategic Management of Information Systems: Building a Digital Strategy 4 Edition, Wiley.
  - 2- Essential References.
  - 1- Robert D. Galliers, Dorothy E. Leidner, Boyka Simeonova ,(2020), Strategic Information Management: Theory and Practice, 5 Edition, Routledge.
  - 2- Carol V. Brown, (2012), Managing Information Technology, 7 edition, Pearson.
  - 3- Electronic Materials and Web Sites etc.
    - 1. <a href="https://www.tutorialspoint.com/management\_information\_system/business\_objectives\_of\_mis.htm">https://www.tutorialspoint.com/management\_information\_system/business\_objectives\_of\_mis.htm</a>
    - 2. https://planningtank.com/project-management/strategic-information-system

IX. Course Polices					
Base	d on University Regulations				
1.	(Class Attendance):				

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	A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic. If the absent is more than 25% of a course total contact hour, student will be required to retake the entire course again.
2.	(Tardy):
	For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he/she will be considered as absent.
3.	(Exam Attendance/Punctuality):
	A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.
4.	(Assignments & Projects):
	In general one assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.
5.	(Cheating):
	For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6.	(Plagiarism):
	Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he/she will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.
7.	(Other policies):
	- Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room.
	- Mobile phones are not allowed in class during the examination.
	<ul> <li>Lecture notes and assignments might be given directly to students using soft or hard copy.</li> </ul>

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## **Faculty of Computer & Information Technology**

# Department of Information System

# **Program of Information System**

#### **Course syllabus of Information Systems Strategies**

Course No ( ..... )

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# 2020/2021

# **Template for Course Plan (Syllabus)**

I Information about Faculty Member Responsible for the Course:							
Name of Faculty Member		Office Hours					
Location& Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail							

II.	II. Course Identification and General Information:					
1-	Course Title:	Information Systems Strategies				
2-	Course Number & Code:					
			C.I	Н		Total
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	
		3	•	-	-	3

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4-	Study level/year at which this course is offered:	3 <sup>rd</sup> Level -2 <sup>nd</sup> semester
5-	Pre -requisite (if any):	Information System Fundamentals
6-	Co –requisite (if any):	None
7-	Program (s) in which the course is offered	Information Systems
8-	Language of teaching the course:	Arabic/English
9-	System of Study:	Term based system
10-	Mode of delivery:	Full Time
11-	Location of teaching the course:	Faculty of Computer and Information Technology

### **III. Course Description:**

This course explores the issues and approaches in managing the information systems function in organizations and how the IS function integrates / supports / enables various types of organizational capabilities. It addresses issues relating to defining the high-level IS infrastructure and the systems that support the operational, administrative and strategic needs of the organization. The course focus on the concept of alignment between the IS strategy and organization strategy.

### IV. Intended learning outcomes (ILOs) of the course:

- Brief summary of the knowledge or skill the course is intended to:
  - 1. Show understanding the various functions of IS and its impact on the organizational operations
  - 2. Recognize the important of alignment between the information systems strategy an organization strategy
  - 3. Design information systems strategic plan.

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- 4. Integrate the information systems strategy with the organization strategy.
- Choose appropriate tools and technique to develop and implement effective inform systems strategy.
- 6. Employ the new technology in a managed way to achieve the organization strategy.

### **V. Course Content:**

Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

### A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	The Evolving Role of Information Systems and Technology in Organizations: A Strategic Perspective	1 <sup>st</sup> ,2 <sup>nd</sup>	6
2	An Overview of Strategic Management and the IS/IT Strategy Implications	3 <sup>rd</sup>	3
3	Establishing an Effective Process for Developing Information Systems and Technology (or Digital)Strategies	4 <sup>th</sup> ,5 <sup>th</sup>	6
4	IS/IT Strategic Analysis: Achieving Alignment with Business Operations and Strategy	6 <sup>th</sup> ,7 <sup>th</sup>	6
5	Mid-Exam	8 <sup>th</sup>	1
6	Innovating with Technology, Systems and Information	9 <sup>th</sup> ,10 <sup>th</sup>	6
7	Exploiting Information Systems for Strategic Advantage	11 <sup>th</sup> ,12 <sup>th</sup>	6
8	Determining the Business Information Systems Strategy	13 <sup>th</sup> ,14 <sup>th</sup>	6

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9	Student Presentation	15 <sup>th</sup>	3
10	Final Exam	16 <sup>th</sup>	2
	Number of Weeks /and Units Per Semester	16	45

B – Pra	B – Practical Aspect: (if any)				
Order	Topics List	Week Due	Contact Hours		
1					
2					
7					
	Number of Weeks /and Units Per Semester				

VI. Teaching strategies of the course:
Lecture
Interactive lectures
Group discussion
Presentation

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VII.As	VII. Assignments:					
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark		
1	- Analysis and design information systems plan for an organization	a1,a2,b1,b2,c1,c2,d1,d2	14 <sup>th</sup>	20		
2	- Presentation on topics related to the course	a1,a2,b1,b2,c1,c2,d1,d2	4 <sup>th</sup> -15 <sup>th</sup>	10		

VIII. Schedule of Assessment Tasks for Students During the Semester:					
Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment	
1	Assignment (1)	14 <sup>th</sup>	20	20%	
2	Assignment (2)	4 <sup>th</sup> -15 <sup>th</sup>	10	10%	
3	Mid-Exam	8 <sup>th</sup>	20	20%	
4	Final Exam	16 <sup>th</sup>	50	50%	

## IX. Learning Resources:

- Written in the following order: ( Author Year of publication Title Edition Place of publication Publisher).
- 1- Required Textbook(s) ( maximum two ).

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1- Joe Peppard & John Wardthe, (2016), Strategic Management of Information Systems: Building a Digital Strategy 4 Edition, Wiley.

#### 2- Essential References.

- 1- Robert D. Galliers, Dorothy E. Leidner, Boyka Simeonova, (2020), Strategic Information Management: Theory and Practice, 5 Edition, Routledge.
- 2- Carol V. Brown, (2012), Managing Information Technology, 7 edition, Pearson.

#### 3- Electronic Materials and Web Sites etc.

1-Materials on the internet

#### X. Course Polices

**Based on University Regulations** 

#### 1. (Class Attendance):

A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university Clinic. If the absent is more than 25% of a course total contact hour, student will be required to retake the entire course again.

#### 2. (Tardy):

For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he/she will be considered as absent.

### 3. (Exam Attendance/Punctuality):

A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.

### 4. (Assignments & Projects):

Head of Department	Vise Dean for Qulity	Dean of the Faculty	Dean of Development center and Quality
	Assurance		Assurance
Assoc. Prof. Mansour N. Ali	Dr. Anwar Al-Shamiri	Dr. Nagi Al-Shibani	Assoc. Prof. Dr.Huda Al.Emad

**Rector of Sana'a University** 



الجمهورية اليمنية وزارة التعليم العالي والبحث العلمي جامعة - صنعاء كلية الحاسوب وتكنولوجيا المعلومات وحدة ضمان الجودة

	In general one assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.
5.	(Cheating): For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.
6.	(Plagiarism):  Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proofed a plagiarism of a student, he/she will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.
7.	<ul> <li>(Other policies):</li> <li>Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room.</li> <li>Mobile phones are not allowed in class during the examination.</li> <li>Lecture notes and assignments might be given directly to students using soft or hard copy.</li> </ul>

جنة الإشرافية					
التوقيع		الصـــفة	الاســـم	م.	
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		نانب عميد مركز التطوير الأكاديمي وضمان الجودة	أ.م.د. احمد مجاهد	7	
		ممثل المركز في الكلية	د. حسين الأشول	4	
		نانب رنيس الجامعة للشؤون الأكاديمية	أ.د. إبراهيم المطاع	ź	

Head of Department	Vise Dean for Qulity Assurance	Dean of the Faculty	Dean of Development center and Quality Assurance
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Rector of Sana'a University