



Template of Course Specification

Faculty: CIT
Department: IT
Program: BIT

I. General information about the course:					
1. Course Title:	Advanced IT				
2. Course Code and Number :	IT313				
3. Credit Hours: 3	Lecture	Seminar/Tutorial	Practical	Training	Total
	2		2		4
4. Study Level and Semester:	Level 4 / Semester 7 or 8				
5. Pre-requisites (if any):	IT221 - Information Technology Management				
6. Co-requisites (if any) :	IT121 - Fundamentals of I.T IS223 - System Analysis and Design				
7. Program in which the course is offered	BIT				
8. Teaching Language:	English				
9. Study System :	Semester Based				
10. Prepared by :	Team member				
11. Approval date :					
12. Approved by:	Department				

II. Course Description:
This Course is designed to cover the main IT infrastructure, IT resources within organizations and describe managerial aspects of IT infrastructure & resources in organizations. Also covers the global systems, new emerging trends & technologies in IT & IS, IT Controls & security issues.
III. Course Aims
This Course aims to:
<ol style="list-style-type: none"> 1. Make students Identify & control the main IT resources and infrastructure needed in digital world. 2. Describe the business perspectives of Information Technology & Information Systems. 3. Explain and compare the major systems defining the digital firms in global market 4. Provide skills to develop a suitable IT-IS infrastructure using new trends and technologies. 5. Train students to Monitor IT infrastructure & IT strategies and apply IT Solutions in an organization.

VI. Course Intended Learning Outcomes (CILOs) :	
Knowledge and Understanding:	
Alignment of CILOs (Course Intended Learning Outcomes) to PILOs (Program Intended Learning Outcomes)	
Knowledge and Understanding PILOs	Knowledge and Understanding CILOs
After completing this program, students would be able to:	After completing this course, students would be able to:
A1. Show knowledge and understanding in computing and mathematics appropriate to the IT discipline	a1. Know IT infrastructure essential components, types of Information Systems, services, support & needs
A2. Understand the professional, ethical, and social responsibilities	a2. Understand IT Strategies & IT Solutions development process, essential communication networks, Mobile Computing Technology & Mobile Enterprise Applications, wireless revolution in today's business world
A3. Recognize the need for and an ability to engage in continuing professional development	

Intellectual Skills :	
Alignment of CILOs (Course Intended Learning Outcomes) to PILOs (Program Intended Learning Outcomes)	
Intellectual Skills PILOs	Intellectual Skills CILOs
After completing this program, students would be able to:	After completing this course, students would be able to:
B1. Analyze a problem, and identify and define the computing requirements appropriate to its solution	b1. Identify technical, business, management components, security & ethical challenges of the global system, different IT Strategies
B2. Analyze the impact of computing on individuals, organizations, and society, including ethical, legal, security, and global policy issues	b2. Analyze the drawbacks, requirements, decision making scenarios and suggest the best optimal solution
B3. Integrate IT-based solutions into the user environment	b3. Explore New Emerging Trends & Technologies, available IT Solutions suitable to enhance organization's performance
B4. Identify and analyze user needs and take them into account in the selection, creation, and administration of computer-based systems	

Professional and Practical Skills	
Alignment of CILOs (Course Intended Learning Outcomes) to PILOs (Program Intended Learning Outcomes)	
Professional and Practical Skills PILOs	Professional and Practical Skills CILOs
After completing this program, students would be able to:	After completing this course, students would be able to:
C1. Use current techniques, skills, and tools necessary for computing practice	c1. Apply the best optimal IT Solutions, IT Strategies to improve the organizational performance
C2. Use and apply the current concepts and practices of the core information technologies	c2. Apply the best of new emerging trends and technologies to benefit organization
C3. Demonstrate the best practices and standards and their application	
C4. Develop, implement, and evaluate a computer-based system, process, component, or program to meet desired needs	c3. Develop a strong application-network controls and secure IT Infrastructure for an organization, the perfect plan in managing projects

Transferable (General) Skills :	
Alignment of CILOs (Course Intended Learning Outcomes) to PILOs (Program Intended Learning Outcomes)	
Transferable (General) Skills PILOs	Transferable (General) Skills CILOs
After completing this program, students would be able to:	After completing this course, students would be able to:
D1. Function effectively on teams to accomplish a common goal	
D2. Communicate effectively with a range of audiences	
D3. Assist in the creation of an effective project plan	d1. Write project - technical report and present projects/assignments

VI. Alignment of CILOs to Teaching and Assessment Strategies

First: Alignment of Knowledge and Understanding CILOs

Knowledge and Understanding CILOs	Teaching Strategies	Assessment Strategies
a1. Know IT infrastructure essential components	Lectures	Written Exam
a2. Understand IT Strategies & IT Solutions development process	Group Discussions	Observation
	Lab sessions	Report/Screen shots
	Brain Storming	Viva/Direct Questions
		Quiz

Second: Alignment of Intellectual Skills CILOs

Intellectual Skills CILOs	Teaching Strategies	Assessment Strategies
b1. Identify technical, business, management components, security & ethical challenges of the global system, different IT Strategies	Lectures	Written test Quizzes
b2. Analyze the drawbacks, requirements, decision making scenarios and suggest the best optimal solution	Lab sessions	Lab technical report
b3. Explore New Emerging Trends & Technologies, available IT Solutions suitable to enhance organization's performance	Case study	Report
	Assignment	

Third: Alignment of Professional and Practical Skills CILOs		
Professional and Practical Skills CILOs	Teaching Strategies	Assessment Strategies
c1. Apply the best optimal IT Solutions, IT Strategies to improve the organizational performance	Lab sessions	Technical Report Worksheets
c2. Apply the best of new emerging trends and technologies to benefit organization	Homework	Report + Presentation
c3. Develop a strong application-network controls and secure IT Infrastructure for an organization, the perfect plan in managing projects	Group Discussions	Observations

Fourth: Alignment of Transferable (General) Skills CILOs		
Transferable (General) Skills CILOs	Teaching Strategies	Assessment Strategies
d1. Write project - technical report and present projects/assignments	Grouping Tips Notes Case Study	Presentation Observation Report

VII. Course topics and sub-topics (theoretical and practical) with contact hours and alignment to CILOs

Topics/Units of Course Contents					
First: Theoretical Aspects					
No.	Course Topics/Units	Sub-topics	No. of Weeks	Contact Hours	CILOs
1	Introduction	<ul style="list-style-type: none"> Overview of IT Management concepts 	1	3	a1, a2
2	Telecommunications, the Internet, and Wireless Technology Advanced	<ul style="list-style-type: none"> Telecommunications & networking in today's business world Global Internet Wireless revolution 	1	3	a2
3	Mobile Computing & M-Commerce Advanced	<ul style="list-style-type: none"> Mobile Computing Technology Mobile Financial Services (MFS) Mobile Enterprise Applications 	1	3	a2
4	Development Process – Developing Business/IT Strategies	<ul style="list-style-type: none"> Planning Strategies – Scenario approach Implementing Challenges 	1	3	b1, b2
5	Development Process – Developing Business/IT Solutions	<ul style="list-style-type: none"> Developing business systems Implementing Business Systems 	1	3	b2,b3
6	Enhancing/Supporting Decision Making	<ul style="list-style-type: none"> Real world case: Information, Decisions, and Management Information Quality Business Intelligence in Enterprise 	1	3	b2, b3
7	MID TERM EXAM				

8	IT Controls, Asset Protection, and Security	Business control principles, appl. Control, network controls and security, additional control & protection measures, control for e-business appl., effective control]	1	3	b3, c1, c2
9	Security & Ethical Challenges	<ul style="list-style-type: none"> ▪ Security, Ethical, Societal Challenges of IT ▪ Security Management of IT 	1	3	c3
10	Managing Global Systems	Global Business/IT Strategies Global Business/IT Applications Global IT Platforms Global Data Access Issues Global Systems Development	1	3	b1
11	Managing Projects	The importance of PM Selecting projects Managing Project risk	1	3	c3
12	New Emerging Trends & Technologies	Contemporary hardware platform trends Contemporary software platform trends	1	3	b3, c2
13	New Emerging Trends & Technologies	Data Management and Storage Management issues	1	3	b3, c2
14	Revision		1	3	d1
15	FINAL EXAM				
Total number of weeks and hours			15	42	

I. Teaching Strategies
Lectures
Group Discussions
Case study
Assignment
Homework
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Second: Practical/Tutorial/Clinical Aspects				
Write up practical/tutorial/clinical topics				
No.	Practical/Tutorial/Clinical topics	No. of Weeks	Contact Hours	CILOs
1	N/A			
2	N/A			
3	N/A			
4	N/A			
5	N/A			
6	N/A			
7	N/A			
8	N/A			
9	N/A			
Total number of weeks and hours				

II. Tasks and Assignments :				
No.	Task/Assignment	CILOs	Week due	Mark
1	Assignment 1	c1, c2, c3, d1	10	5 %
2	Assignment 2	c1, c2, c3, d1	12	10 %

III. Learning Assessment:					
No.	Assessment Tasks	Week due	Mark	Proportion of Final Assessment	Aligned CILOs
1	Assignments + Reports	12	25	25%	c1, c2, c3, d1
2	Quiz 1 & Quiz 2	4 & 9	5	5%	a1, a2
3	Mid term exam	7	20	20%	b1, b2, b3
5	Final Exam	15	50	50%	All course ILO's
Total			100	100%	

IV. Learning Resources :	
(Author, (Year), Book Title, Edition, Publisher, Country of publishing)	
Textbooks-not more than 2	
1.	James A. O'Brien & George M. Marakas, (2011), Enterprise Information Systems, 13th Edition, Mc. Graw Hill, USA.
2.	K.C.Laudon & J.P.Laudon, (2012), Managing the Digital Firm, 12 th Edition, Pearson Prentice Hall, USA.
Essential References-not less than 4	
1.	Efraim Turban , (2011), Information Technology for Managements, 8th Edition, Wiley publications, USA.
2.	Ellrn F.Monk , (), Concepts in Enterprise Resource Planning, 2 nd Edition.
3.	Raymond Mcleod & George P.Schell, (),M.I.S by, 10 th Edition, Pearson Prentice Hall, USA.
4.	Carroll W. Frenzel & John C. Frenzel, (),Management of IT, 4 th Edition, Thomson Course Technology.
Electronic Materials and Web Sites	
www.myMISlab.com	

V. Course Policies (To be determined by Faculty Deanship):	
Based on university regulations, the following aspects should be figured out:	
1.	(Class Attendance) :
2.	(Tardy) :
3.	(Exam Attendance/Punctuality) :
4.	(Assignments & Projects) :
5.	(Cheating) :
6.	(Plagiarism) :
7.	(Other policies) :

Template of Course Syllabus

Faculty : TIC

Department: IT

Program : BIT

I. General information about the course instructor :							
Name	(Facilitator)	Office Hours (3 Hours Weekly)					
Location & phone number	USTY	Sat	Sun	Mon	Tue	Wed	Thu
Email							

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2.	Course Code and Number :	IT313				
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		Theoretical	Seminar/Tutorial	Practical	Training	
		3				3
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8.	Teaching Language:	English				
9.	Instruction location:	N/A				

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III. Course Intended Learning Outcomes (CILOs) :

1. a1. Know IT infrastructure essential components, types of Information Systems, services, support & needs
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3. b1. Identify technical, business, management components, security & ethical challenges of the global system, different IT Strategies
4. b2. Analyze the drawbacks, requirements, decision making scenarios and suggest the best optimal solution
5. b3. Explore New Emerging Trends & Technologies, available IT Solutions suitable to enhance organization's performance
6. c1. Apply the best optimal IT Solutions, IT Strategies to improve the organizational performance
7. c2. Apply the best of new emerging trends and technologies to benefit organization
8. c3. Develop a strong application-network controls and secure IT Infrastructure for an organization, the perfect plan in managing projects
9. d1. Write project - technical report and present projects/assignments

IV. Course Contents				
Theoretical Aspect:				
No.	Course Units	Sub-topics	Week due	Contact Hours
1.	Unit-1	1. Introduction – Overview of IT Management concepts 2. Telecommunications, the Internet, and Wireless Technology Advanced 3. Mobile Computing & M-Commerce Advanced	Week 3	9
2.	Unit-2	4. Development Process – Developing Business/IT Strategies 5. Development Process – Developing Business/IT Solutions 6. Enhancing/Supporting Decision Making	Week 6	9
3.	Unit-3	7. IT Controls, Asset Protection, and Security 8. Security & Ethical Challenges 9. Managing Global Systems	Week 9	9
4.	Unit-4	10. Managing Projects	Week 11	6
5.	Unit-5	11. New Emerging Trends & Technologies	Week 13	6
		12. Revision	Week 14	3
Total number of weeks and hours			14	42

Second: Practical/Tutorial/Clinical Aspects :			
Write up practical/tutorial/clinical topics			
No.	Practical/Tutorial/Clinical topics	No. of Weeks	Contact Hours
1.	N/A		
2.	N/A		
3.	N/A		
4.	N/A		
5.	N/A		
6.	N/A		
7.	N/A		
8.	N/A		
9.	N/A		
Total number of weeks and hours			

V. Teaching Strategies
<ol style="list-style-type: none"> 1. Lectures 2. Group Discussions 3. Case study 4. Assignment 5. Homework 6. Brain Storming

VI. Tasks and Assignments			
No.	Task/Assignment	Week due	Mark
١.	Assignment 1 + report	WEEK 12	10
٢.	Assignment 2 + report	WEEK 14	15

VII. Learning Assessment:				
No.	Assessment Tasks	Assessment day & date	Mark	Weight
1	Quiz 1	WEEK 3	5	5%
2	Quiz 2	WEEK 5		
3	Mid term exam	WEEK 7	20	20%
4	Assignment – 1	WEEK 12	10	10%
6	Assignment – 2	WEEK 14	15	15%
7	Reports	WEEK 14		
8	Final Exam	WEEK 15	50	50%
Total				

VIII. Learning Resources
SKOOB TXET James A. O'Brien & George M. Marakas, (2011), Enterprise Information Systems, 13th Edition, Mc. Graw Hill, USA.
K.C.Laudon & J.P.Laudon, (2012), Managing the Digital Firm, 12th Edition, Pearson Prentice Hall, USA.
SECNEREFER Efraim Turban , (2011), Information Technology for Managements, 8th Edition, Wiley publications, USA.
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IX. Course Policies (To be determined by Faculty Deanship)	
1.	Class Attendance :
2.	Tardy :
3.	Exam Attendance/Punctuality:
4.	Assignments & Projects:
5.	Cheating:
6.	Plagiarism:
7.	Other policies: