



The Islamia University of Bahawalpur
Baghdad-ul -Jadeed Campus
Course Plan
DEPARTMENT OF STATISTICS

Class: MSc 1 (Morning) Session: 2020 -2022(M)

Instructor	Alia Munawar		Email: aliamunawar80@gmail.com	
Course Title	Application of computer		Program	MSc 1
Course Code	21105		Credit Hours	2+1
Lecture	Wednesday (10:00 am to 12:00 pm) &Thursday(10:00 am to 12:00 pm)			
Course Objective: This course focuses on a breadth-first coverage of computer science discipline, introducing computing environments, general application software, basic computing hardware, operating systems, desktop publishing, Internet, software applications and tools and computer usage concepts; Introducing Software engineering and Information technology within the broader domain of computing, Social issues of computing.				
Course Outcomes: At the End of this course you would be able to:				
<ul style="list-style-type: none">Understand the introduction of computing environmentUnderstand the breath-first coverage of coverageUnderstand the computer usage concept				
Methods of Teaching <ul style="list-style-type: none">Assigned readingsGroup activities & DiscussionStudent-Directed Teaching				
Resource Material	Books Prescribed: .			
	2.Reference Book			
		1. Computers: Information Technology in Perspective, 9/e by Larry Long and Nancy Long, 2. Prentice Hall, 2002 / ISBN: 0130929891 3. <i>An Invitation to Computer Science</i> , Schneider and Gersting , Brook		
	li	Handouts provided		
	Web Resources			
	Web resources will be recommended time to time			
Office Help Hours	Wednesday (10:00 am to 12:00 pm) &Thursday(10:00 am to 12:00 pm)			
Grading	Exam _____ Mid- Exam (30%) Final Exam (50%) Problem Session/Assignments (20%)			
Problem Session				
<u>SEQUENCE OF TOPICS TO BE COVERED</u>				
Lecture Date	Session #	Topics (outline of main topics and sub topics)	Tutorial /Laboratory	
Week 1	1 & 2	Overview: Computer Applications Business, Banking, Insurance, Education, Marketting, Healthcare, Military and Communication.	Question & Answer Session/General	
Week 2	3 & 4	SDLC Graphical Representation Planning, defining, designing, building, testing and deployment.		

Week 3	5 & 6	Computer memory management structure. Computer memory units.	Discussion related to the Topic
Week 4	7 & 8	Primary memory, Secondary memory and Cache memory. Overview of software engineering and information technology	
Week 5	9 & 10	Quiz	All Covered Topics
		Operating system Functions of operating system, type of operating system.	Question & Answer Session/General Discussion related to the Topic
		Introduction to Database What is database, what is DBMS, characteristics of DBMS . Topologies .	
Week 6	11 & 12		
Week 7	13 &14	Programming Languages High-level Language and low- level Language	
Week 8	15	Data Mining Needs of data mining and evaluation of data mining.	
		Quiz	All Covered Chapters
Week 8	16	Course/Discussion from session 1- 16	
Mid Term Exam			
Week 9	17 & 18	Problem solving techniques Program, Algorithm and Flowchart. Flowchart symbols and limitations.	Question & Answer Session/General Discussion related to the Topic
Week 10	19 & 20	Number System Binary number system, decimal number system, octal number system, Hexadecimal number system, Basic logic operations.	
Week 11	21 & 22	Computer Graphics Applications and uses	
		Quiz	All Covered Chapters
Week 12	23 & 24	Networking Usage and types LAN , WAN , PAN ,MAN. Internet and intranet.	Question& Answer Session/General Discussion related to the Topic
Week 13	25 & 26		
Week 14	27 & 28	Debugging Syntax error, Logical error and Run-time error. Artificial intelligence.	

		Quiz	All Covered Chapters
Week 15	29 & 30	Data types. Scientific or Exponential Notations.	Question& Answer Session/General Discussion related to the Topic
Week 16	31	Revision of all covered topics & Quiz	
	32	Course/Discussion from session 1- 32	
Final Term Paper			

Student Evaluation criteria:

Attendance	5%
Presentation / Assignments/Case study	5%
Surprise Test/Sudden Test , Quizzes	5%
Class Participation	5%
Mid Term Paper	30%
Final Term paper	50%
Total	100%

Student Responsibilities:

Students must attend their classes. Failure to attend the class may result in failure in the course. Students must also arrive on time and remain in the class for the entire period. Cellular Phones and Beeper must be Turned off (Proper classroom decorum [behavior] adopts, Course outlines and calendars explain requirements and assignments, students are responsible for knowing what they say. Students are also responsible for doing all assigned work on time. Excessive absences (more than 03) will result in “F Grade”. Students may prepare Sketchbook for taking notes and for references.

Instructor/Tutor

Approved by:

Dean/ Chairman/ HOD/Subject Specialist/Program Coordinator