



# The Islamia University of Bahawalpur

Baghdad-ul-Jadeed Campus

## Course Plan

DEPARTMENT OF STATISTICS

Class: BS\_Ist

Session: 2020-2024(Evening)

Instructor	Nadia Khan	Email: nadiakhan1470@gmail.com
Course Title	Introduction to Computer	Program BS
Course Code	01103	Credit Hours 4

Lecture	Monday + Tuesday (01:00 pm to 03:00 pm)
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### 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:

Introduction to Computers, The Internet and World Wide Web, Application Software, The System Unit, Input Devices, Output Devices, Storage, System Software, Communications, Databases, Computer Security and Safety, Ethics, and Privacy.

### Methods of Teaching

- Assigned readings
- Group activities & Discussion
- Student-Directed Teaching

Resource Material	Books Prescribed: Introduction to Computer, Peter Norton 6 <sup>th</sup> Edition	
	2.Reference Book	
	1. Computers: Information Technology in Perspective, 9/e by Larry Long and Nancy Long, 2. Prentice Hall, 2002 / ISBN: 0130929891 3. An Invitation to Computer Science, Schneider and Gersting, Brook	
	Handouts provided	
	Web Resources	Web resources will be recommended time to time
Office Help Hours	Wednesday (01:00 pm to 03:00 pm)	
Grading	Exam _____ Mid- Exam (30%) Final Exam (50%) Problem Session/Assignments (20%)	
Problem Session		

### SEQUENCE OF TOPICS TO BE COVERED

Lecture Date	Session #	Topics (outline of main topics and sub topics)	Tutorial /Laboratory
Week 1	1 & 2	Overview: Introduction to Computer A brief history of Computer. Components of Computer, Components and peripherals necessary to assemble a basic modern PC system. Five Generations of Computer Computer lab: Different font Styles and Size	Question & Answer Session/General Discussion related to the Topic

Week 2	3 & 4	Computer input devices ,Computer output devices Computer Specifications. Lab activity: What are bold and italics examples Computer Network Topologies. 1.Mesh Topology 2. Star Topology   3. Bus Topology 4. Ring Topology   5. Hybrid Topology Lab activity: Change the size of selected text How increase and decrease text size in MS office.	
Week 3	5 & 6	Ring Topology, Mesh Topology, Hybrid Topology Computer Programming Languages Difference Between Low-Level Languages and High-Level Languages, Natural Programming Languages.	
Week 4	7 & 8	Characteristics of Computer Programming Languages Introduction to Data Mining, Needs of Mining, Objectives of Mining, Evaluation of Data Mining.	
Week 5	9 & 10	<b>Quiz</b>	All Covered Topics
		Types of High-Level Languages Procedural languages, Non-Procedural languages and Object- Oriented languages. Data Base, Data Base Administrator, Data Base Management system. Characteristics of good DB.	Question & Answer Session/General Discussion related to the Topic
		Microsoft Word Activity Operating System, Objectives of Operating System , Functions of Operating System Types of Operating System.	
		MS Power Point , General Program Shortcuts Computer Network Topologies. 1.Mesh Topology   2. Star Topology 3. Bus Topology   4. Ring Topology 5. Hybrid Topology Lab activity: How we enter wateramark , header ,footer , insert page number in MS office?	
		Ring Topology, Mesh Topology, Hybrid Topology	
Week 8	15	<b>Quiz</b>	All Covered Chapters
Week 8	16	Lab activity: MS Excel Course/Discussion from session 1- 16	
<b>Mid Term Exam</b>			
Week 9	17 & 18	Software Development Life Cycle (SDLC) Phases of SDLC, 6 basic SDLC methodologies Waterfall model, What is spiral SDLC? Introduction to Software engineering, Software Engineering Terms, Principles of Software Engineering.	Question & Answer Session/General Discussion related to the Topic

Week 10	19 & 20	Common data types. Computer Graphics, Applications of Computer Graphic, Uses of Computer Graphics. Source Code and Object Code.	
Week 11	21 22	Control Structure, Types of Control Structure. How do Computers help us in Communication  Types of Computers Communication: Email, Video Chat, SMS, IRC, Video Chat.	
		Quiz	
Week 12	23 24	Basic types of Computer Memory, Types of Main Memory, Primary Memory, Secondary Memory. Problem Solving Techniques Program, Algorithm, Flowchart Flowchart guidelines	Question& Answer Session/General Discussion related to the Topic
Week 13	25 & 26	Flowchart Symbols Number Systems Binary Number System Octal Number System Decimal Number System	
Week 14	27 28	Hexadecimal Number System Networking, Purpose of Networking Computer Network Types, OSI in Networking.	
		Quiz	All Covered Chapters
Week 15	29 & 30	Social and legal issues A computer network is mainly of four types Internet and Working of the Internet Intranet and Working of an Intranet Key Differences Between Internet and Intranet Similarities Between Internet and Intranet. Language Processor.	Question& Answer Session/General Discussion related to the Topic
Week 16	31	Revision of all covered topics & Quiz Debugging in Computer Types of Errors Errors in Compute : Logical Errors, Run-Time Errors, Syntax Errors.	
	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%
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**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**