Department of Agriculatural Statistics & Social Sciences
College of Agriculture
INDIRA GANDHI KRISHI VISHWAVIDYALAYA
Raipur (Chhattisgarh) 492 012

Practical Manual on Introduction to Computer Applications

Prepared by:

Er. Sweta Ramole M.K. Pradhan



Department of Agricultural Statistics & Social Sciences
College of Agriculture
INDIRA GANDHI KRISHI VISHWAVIDYALAYA
Raipur (Chhattisgarh) 492 012

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Dr. S.K. Patil Hon'ble Vice Chancellor IGKV, Raipur (C.G.)

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Dr. O.P. Kashyap Dean, Faculty of Agriculture College of Agriculture, Raipur (C.G.)

Prepared by

Er. Sweta Ramole M.K. Pradhan

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Title : Introduction to Computers

Objective : To introduce the basic structure, concepts and applications of a

Computer

1. Draw the block diagram of a computer.

- 2. Define and draw the diagram of the following components of the computer
 - CPU

ALU

• HDD

RAM

ROM

3. State and classify the different memory units.

b. Function/Application

6. Mention the Category and Applications of the given I/O Devices

S.No.	Device	Input/Output	Applications
1.			
1.	Scanner		
2.	MICR		
3.	OCR		
4.	Joystick		
5.	Mouse		
6.	Bar code reader		
7.	Stylus	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
8.	Graphical Tablet		
9.	Printer		
10.	VDU		

7.	What is the difference between virus,	worm and	vaccine	? Name 5	viruses,	worms	and
	vaccines.		and a		*		

S. No.	VIRUS	WORM	VACCINE
1.			
2.			
3.			
4.			
5.			

6. State the various types of software with examples.

Title

: Operating Systems

Objective

: 1. To understand the importance and functions

of Operating System.

2. To acquaint the environment of different

operating system

1. What is command prompt? Write commands to change command prompt to your name.

2. Compare DOS and Windows on the following criterions

Steller		DOS CHIEROL RE ELIM	WINDOWS
	reducible and fundaments of	missi have bed	of the second
a	Ease of use	是"所取"。2.54x.1	
	in the first of the	AND THE REAL PROPERTY OF THE PARTY OF THE PA	
		The second second	c. ob
			1 2 2
Ä-	Dypt spin to the comment	C. Get Car	a management again
6		111	
	A STATE OF THE STA		
		100	
b	Memory requirement		
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			17 4 m 15 6 6 6 1
			10.5
		3.0	
С	Interface		
			100 mg
			T No.
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	The second second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A STATE OF S
	The second second		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
d	Number of tasks that can be		
	performed		The same with
	The state of the s		
	The State of the s		42 2 3
	me it specific		A STATE OF THE STA
	The state of the s		1,20

3. Write the command/steps to do the following tasks in

4. DOSWINDOWS

	Task to be performed	DOS Command	WINDOWS steps
H	Create a directory		
2	Create a text file		
en en	Change date and time		
4	Delete a file		
20	Delete a folder		

0	Copy a file	1 T.	
1			

10	9	∞	7
Rename a file	List the files	Change the directory	Rename a file
			1,700

5. What do you mean by Desktop. Draw and explain its anatomy.

Title : Introduction to Word Processor (MS WORD)

Objective: To give hands on experience of the various tools of MS

WORD

- 1. Write an application to The Dean of your college for grant of two days leave to attend a family function.
 - a) Insert date at the top right corner
 - b) Make the line spacing 1.5
 - c) Give the heading as Application
 - d) Centre and underline the heading

2. Invite all your classmates	to your housewarming	g ceremony using ma	ilmerge feature of
MS WORD.			
A MAN TO THE STATE OF THE STATE			
	4 70 10		
			44.5
			11
			19
			All hope

3. Create your Curriculum Vitae and insert your recent photograph with signature in the top right corner. edjelyk

4. Create the following Table in MS WORD.

R.No	Name	Physics		Chemist	ry	Maths
		Prac	Theory	Prac	Theory	
101	Savita Kumari	35	32	46	44	98
102	Angela Phillips	44	44	43	38	76
103	Ritu Sinha	45	38	32	40	87
104	Charu Priya	43	40	44	49	88
105	Manoj Sharma .	32	38	38	46	79
106	Punit Awasthi	44	38	40	43	90
107	Alka Mishra	38	40	45	32	97
108	Pawan Singh	40	49	37	44	76
109	•Rohit Kapoor	49	46	44	38	86
110	Sanjana Kumar	46	43	45	40	77

5. Write steps to write the following expression in MS Word .

a)
$$(1+x)^n = 1 + \frac{nx}{1!} + \frac{n(n-1)x^2}{2!} + \cdots$$

b)
$$x_1, x_2 = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

c)
$$(a+b)^2=a^2+b^2+2ab$$

d)
$$2H_2+O_2 \uparrow = 2H_2O$$

Title

: MS Excel

Objective

- : 1. To study the various day to day tasks that can be performed using EXCEL
 - 2. To introduce the concept of object linking and embedding (OLE)
- 1. Enter the following data in MS Excel (Copy it from the table created in question 4 of Unit 3)

RNo	Name	Physics		Chemis	stry	Maths
		Prac	Theory	Prac	Theory	
101	Savita Kumari	35	32	46	44	98
102	Angela Phillips	44	44	43	38	76
103	Ritu Sinha	45	38	32	40	87
104	Charu Priya	43	40	44	49	88
105	Manoj Sharma	32	38	38	46	79
106	Punit Awasthi	44	38	40	43	90
107	Alka Mishra	38	40	45	32	97
108	Pawan Singh	40	49	37	44	76
109	Rohit Kapoor	49	46	44	38	86
110	Sanjana Kumar	46	43	45	40	77

a. Insert a sub column in the column Physics and Chemistry Calculate the total of Physics and Chemistry .

- b. Calculate the total and percentage.
- c. Arrange the data in order of merit.

- e. Give the title Physics to the graph.
- f. Draw a column graph to compare the total marks.

g. Give the title graph Result to the graph .

Objective: To acquaint the powerful formula feature of EXCEL

3. Mention the different categories of formulas that are inbuilt in Excel with some examples.

Objective: To performed statistical Operations on Data

4. Given the values of a and b

a: 2,3,4,5,6,7,8,9

b: 9,3,6,5,4,8,2,7

Calculate

a) (a+b)²

b)(a-b)²

c) a^2-b^2

d)(a+b)³

e)(a-b)³

f)a³+b³

g) a³-b³

5. The following table shows the grouped data, in classes, for the heights of 50 people.

height (in cm) - classes	frequency
120 <- 130	2
130 <- 140	5
140 <- 150	25
150 <- 160	10
160 <- 170	8

a) Calculate the mean of the heights of the 50 people.

b) Calculate the standard deviation of the heights of the 50 people.

6. Heights (in inches) of Fathers (X) and their sons(Y) is as follows

X:65 Y: 67

a) Calculate r using following table format

b) Use absolute and relative address while calculating the values

	Α	В	C	D	E
1	x	У	x ²	y ²	ху
2	637				
3	Seek.	Jan Barrier	1 100		
	F (-)	Thy Market			
	10		in:		
12	100			1 40	4
M	Σx	Σγ	Σx²	Σy²	Σχγ

c) Use the following formula to calculate correlation coefficient r

$$\frac{\sum xy - \frac{(\sum x)(\sum y)}{n}}{\sqrt{(\sum x^2 - \frac{(\sum x)^2}{n})(\sum y^2 - \frac{(\sum y)^2}{n})}}$$

d) Draw a graph representing the correlation coefficient.

7. Enter the following data in MS Excel

Economics	65	45	52	60	62	70	55	45	49	59
Maths	75	70	55	65	60	69	80	65	59	61

N is 10(Number of students)

a) Draw a graph showing regression curve

b) If marks in Maths is 89 what will the marks in Economics

Title

: MS Access

Objective

: To create update and use a database (MS Access)

1. Create a database in MS Access containing the following fields

Field name	Data Type	Length
a) Name	Text	25
b) Age	Number	3
c) Address	Text	50
d) Date of Birth	Date	
e) Percentage	Number	2.2
f) Division	Text	8
g) Personal information	Memo	

Title : MS Power point

Objective : To create and give an effective presentation using Power Point

1. Create a powerpoint presentation on operating systems containing ten slides.

a) Introduction

e) DOS Commands

g) Features of Windows

Title : Principles of programming

Objective: To teach the concepts of creation of algorithm and flowchart

1. Explain the different elements of the Flowchart given below:

a. _____

- b.
- c. ______
- d.
- е.

f.

the average.	

3. Write an algorithm and draw the flowchar	rt to find the roots of a Quadratic equation.

4.	Write an algorithm and draw the flowchart to find the 100 th term of the given se								
	2+5+8+11+								

	Total Marie Committee Comm
5. Draw the flowchart to find the minimum	of three given numbers.
	The state of the s

Title : Internet

Objective : To teach the concepts of internet

1. What is www? Explain web browsers and enumerate five commonly used web browsers.

2. 1	Write steps to create an	email account in Yah	oo/Gi	mail			
			00,0				
				virgini e			
,							
1 7							

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