

**SKILL BASED III**  
**APPLICATION OF COMPUTER IN BIOLOGY**

Sem	Sub. Code	Category	Lecture		Theory		Practical		Credit
			Hrs/ week	Hrs/ sem.	Hrs/ week	Hrs/ sem.	Hrs/ week	Hrs/ sem.	
V	21SBC5A	Skill Based	2	30	2	30	-	-	2

**COURSE OBJECTIVES:**

The objective of this course is to have a firm foundation of the fundamentals and applications of computer and their application in modern field, to know the importance of computers.

**COURSE OUTCOMES**

After the completion of this course, the student will be able to

CO Number	CO Statement	Knowledge Level (K1 – K4)
CO1	To learn about Fundamentals of Computers	K1
CO2	To understand the process involved Basics of internet and emailing	K3
CO3	To gain information on Ms word	K2
CO4	To understand the Histograms and graph	K4
CO5	Know to handle the different style of presentation	K4

(\*CO-Course Outcomes

Knowledge Level: K1-Remember; K2-Understand; K3-Apply; K4-Analyze).

**MAPPING WITH PROGRAMME OUTCOMES:**

COS	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	M	M	S	S	M
CO2	M	S	M	S	M	S
CO3	M	M	S	M	M	M
CO4	S	S	M	S	S	S
CO5	S	S	M	M	S	M

(S-Strong; M-Medium; L-Low)

**Total Hours:30**

## **UNIT-I**

### **Fundamentals of Computers**

**5 Hours**

Classification, Computer organization, Input devices, Processing unit, Output devices, external storage devices, System Software, Language, flowcharting examples.

## **UNIT-II**

### **Internet and Mailing**

**5 Hours**

Internet introduction, applications, scope and objectives, the World Wide Web, Browsing, working and downloading, search engines.

## **UNIT-III**

### **Ms Word**

**7 Hours**

MS Word introduction, The Screen and its Elements, Creating a new document – starting on a new blank document, starting a new document from a template, Writing and simple formatting, page layout, pictures and graphics, tables, Quitting Microsoft word.

## **UNIT-IV**

### **MS-Excel**

**6 Hours**

MS-Excel-Introduction, Features-Opening of Spreadsheet, Components of an Excel work book, Entering data and saving a new work book, Mathematical calculations, Moving and copying data, Deleting and adding rows and columns, Aligning data, Creating a graph, Closing the work book, Quitting Microsoft Excel.

## **UNIT-V**

### **MS-Powerpoint**

**7 Hours**

MS PowerPoint introduction, The Screen and its Elements - the office buttons, Quick access, ribbons and tabs, thumbnails, note field, status bar, view buttons, normal view, slide sorter, slide show, zoom. Basic tasks in Power Point, Initial tasks, Putting content in the presentation.

**TEXT BOOKS:**

S.NO.	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	E.Balagurusamy	Programming in BASIC	Tata McGraw Hill,	1991

**REFERENCE BOOKS:**

S. NO.	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	Bartee	Digital Computer Fundamentals	Tata McGraw Hil	1990
2.	Horowitz, Shahni, Rajasekaran	Fundamentals of Computer algorithms	Gottfried	2001
3.	Gottfried	Programming with Basic	Tata McGraw Hill	2004

**WEB SOURCES:**

- <https://library.ku.ac.ke/wp-content/downloads/2011/08/Bookboon/Office-programs/microsoft-office-word.pdf>
- [www.mta.ca/uploadedFiles/Community/Administrative\\_departments/Human\\_Resources/Training\\_and\\_professional\\_development/Classroom/Excel%20Training%20-%20Level%201.pdf](http://www.mta.ca/uploadedFiles/Community/Administrative_departments/Human_Resources/Training_and_professional_development/Classroom/Excel%20Training%20-%20Level%201.pdf)
- <https://library.ku.ac.ke/wp-content/downloads/2011/08/Bookboon/Office-programs/microsoft-office-powerpoint.pdf>

**SYLLABUS DESIGNER**

- Dr.K. Shoba, Assistant Professor of Bio-Chemistry