

APPLICATIONS OF COMPUTER AND SOFTWARE IN NUTRITION RESEARCH

Sem	Subject Code	Category	Lecture		Theory		Practical	Credits
III	POCFN3SS	Self-study paper	Hrs/sem	Hrs/Per week	Hrs/sem	Hrs/Per week	-----	2

COURSE OBJECTIVE:

To enable the students to

1. To learn the computer peripherals in the operation of computers
2. To understand the computer network in sharing of information through computers
3. To acquire the skills in the applications of windows in documentation, data analysis and presentation

COURSE OUTCOMES

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	Introduction of Computers	K1, K2
CO2	To understand about the operating systems and MS Office	K2, K3
CO3	Learning about the computer networks	K2, K3
CO4	Learn to introduction and basics of multimedia	K2, K3, K4
CO5	To understand application of computers in nutrition research	K2, K3, K4

Knowledge level: K1 – Remember, K2-Understand, K3- Apply, K4-Analyse.

MAPPING WITH PO

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

S-Strong; M-Medium, L- Low

UNIT – I

INTRODUCTION TO COMPUTERS

History of Development of Computers, I/O devices – memories – RAM and ROM, Types of Computers- Main Frame, Minis, Micros and Super Computer Systems, Binary numbers, Bits, Bytes, CPU, Input and Output Devices, Main and Auxiliary Stage Devices, Software and Hardware

UNIT – II

OPERATING SYSTEMS AND MS OFFICE

Introduction to Operating Systems, Windows Applications MS Word, MS Excel. MS Access and MS PowerPoint

UNIT – III

COMPUTER NETWORKS

Different operating system – MS DOS – Basic commands – MD, CD, DIR,TYPE and COPY CON commands – Networking –LAN, WAN, Intranet, Extranet, Servers, Modem, Fibre Optics Basics of HTML, WWW, URL, TCP/IP

UNIT-IV

MULTIMEDIA

Introduction of multimedia, Basic Elements, Hardware, Applications of Multimedia, Authorizing Tool. E-mail ID creation – Sending messages – Attaching files in E-mail

UNIT – V

APPLICATION OF COMPUTERS IN NUTRITION RESEARCH

Power point presentation, Nutrient and Diet calculations, Nutrition Education and Counseling, Nutrition softwares and Websites, e-Journals in Food Science and Nutrition, Use of SPSS .

TEXT BOOKS:

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1	Balagurusamy. E	Computing Fundamentals and C Programming	Tata McGraw Hill Education Private Limited, New Delhi	2008
2	Bansal.S.K	Text Book of Information Technology	APH, Publishing Corporation.	2014

REFERENCE BOOKS:

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1	Andrew S. Tanenbaum	IV Edition, Computer Networks,	Education and Dorling Kindersley Publishers, Delhi.	2009

TEACHING METHODOLOGY

- Chalk and board teaching
- Study Assignment method
- Active learning method
- Group discussions
- Online classes – Googlemeet and Zoom
- Notes given and classes taken by using Microsoft PPT and Microsoft word
- Gmail, Youtube
- Seminars
- Other Group activity

SYLLABUS DESIGNER:

- Ms. R. TAMILSELVI, Head and Assistant Professor, Department of Foods and Nutrition