

OBJECTIVES : To enable students to understand

- various tissues and organs of the body and their functions.
- different systems of the body and their functions.
- importance of hormonal and nervous regulation of body .

COURSE:

UNIT I: Circulatory System :

1. Blood – composition, formed elements of blood :

- i. Erythrocytes – structure, variations in number , development and disintegration.
- ii. WBC and Its function, leucocytes-structure, classification, variation in number, development and functions.
- iii. Blood platelets – structure, function.

Function of Blood : Nutritive, excretory, respiratory, hormone transport, regulation of body temperature, defence against infection, maintenance of water balance, coagulation blood .(briefly)

2. **Circulation :**Heart : Structure, - Blood pressure, Blood Vessels – Structure, transfusion – blood groups. Circulation – systemic pulmonary, portal, coronary.

UNIT II: Digestive System : Definition of digestion .

- a. Mechanical disintegration – structure and movement of mouth, Pharynx, esophagus, stomach and intestines.
- b. Chemical action – Digestive glands – their position in the body, Action of secretions – salivary gland, gastric gland, pancreas, liver , gall bladder and intestinal gland.
- c. Absorption.

UNIT III: a.Excretory System :

- i Kidney – structure, functions , structure of nephron, Formation of urine and micturition, action of hormones .
 - ii. Skin – structure and function.
- b. Respiratory System : Structure of respiratory organs, mechanism and chemistry of respiration Abnormal types of Respiration – Anoxia and Asphyxia .

UNIT IV: Reproductive System : Anatomy of Male and Female reproductive organs, puberty changes, menstrual cycle, hormones .

UNIT V : Regulatory System :

1. Nervous System : a.Brain, spinal cord and meninges, structure and functions. Autonomic nervous system. b. Special senses: Perception of vision, taste, smell, touch, and hearing.
2. Endocrine System : location, secretions and disorders of various endocrine glands.

References :

1. Best & Taylor ; The Living Body.
2. Robert J.Bredy ; Programmed Text Book for various systems.
3. Pearce E; Anatomy & Physiology for Nurses, Oxford University Press, Madras 1979.
4. Text book of Physiology, Subrahmaniam S & M. Kutty.
5. Langley L.C.Outline of Physiology ; Mac Graw Hill Co., New York 1971.
6. Illustrated Physiology : Mc Naught & Calendar E & S.Livingstone ; London 1970.

ST.JOSEPH'S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM

Time:2 Hrs/Week COMPUTER APPLICATION IN HOME SCIENCE Max. Marks:50

OBJECTIVES: To enable students to:

- Acquire knowledge about computer fundamentals
- Learn and use the applications of MS office (MS Word, Excel, Power point in access)
- Apply the skills learnt to situations in Home Science

COURSE:

UNIT – I: Introduction to windows: Desktop settings and creating shortcuts. Start menu, how to launch programs using start menu. Recycle bin, task bar, windows accessories
M.S.WORD. Creating, saving and closing a document. Opening an existing document, page set up, spell check. Tables, selecting in tables. modifying table structure. Edition text, text formatting, headers and footers. Bullets and numbering. Borders and shading, auto correct, auto text. Creating styles, columns, printing.

UNIT – II: MS EXCEL & MS POWERPOINT:

MS EXCEL: Starting parts of excel screen. Quitting excel. Selecting a cell, entering data in a cell. Editing, clearing and formatting data in a cell. Inserting and deleting rows and columns, charts, formulae and simple statistical applications.

MS POWERPOINT: Starting and quitting power point. Creating of presentation. Use of design templates, slide show. Inserting clip art, application of special effects, setting up a slide show.

UNIT – III: Page Maker:

Page maker basics, working with a publication, the drawing tools, the text tools, importing graphics, transformations, utilities, working with large amounts of text, the story editor.

UNIT – IV: CorelDraw:

Coreldraw concepts, exploring the work area, drawing and shaping, working with text, using writing tools blending, exporting, distorting, importing, exporting & ole.

UNIT- V: Internet:

Creating a mail ID, sending mails, browsing, surfing the net.

Books: course material would be provided.