

**Allied Healthcare and Sciences**

**COURSE TITLE: Anatomy – I**

**COURSE CODE: 20AHS101**

**Program Name: Common across all B.Sc. Health Science Technology programs**

Introduces the students to the basics of Human Anatomy, which is the fundamental basis for healthcare practice.

Parameter	Need
Global	3
National	4
Regional	1
Local	1, 5

**Program Outcomes (POs):**

- PO4. Ability to identify physiological states of different biological systems of the human body using relevant medical technological tools.
- PO5. Ability to understand and analyze the state of health in the body through the diagnostic findings of the medical technology.

**Program Specific Outcomes (PSOs):**

- PSO1. Demonstrate sound understanding of the parts of the human body, their relation to each other, and their functions.
- PSO2: Demonstrate skills relevant to diagnostic roles within a medical workup for patients with respect to anatomical anomalies.

**Course Outcomes (COs):**

- 1. To learn the terminology of the subject and basic knowledge of cells & tissues and to understand anatomy of human body.
- 2. To develop an understanding of the structure and function of organs and organ systems in normal human body

**COURSE TITLE: Physiology – I**

**COURSE CODE: 20AHS102**

**Program Name: Common across all B.Sc. Health Science programs**

Introduces the students to the basics of physiology which is the fundamental for healthcare

Parameter	Need
Global	3
National	4
Regional	1
Local	1, 5

**Program Outcomes (POs):**

- PO4. Ability to identify physiological states of different biological systems of the human body using relevant medical technological tools.
- PO5. Ability to understand and analyze the state of health in the body through the diagnostic findings of the medical technology.
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**Program Specific Outcomes (PSOs):**

- PSO1. Demonstrate sound understanding of the functioning of different biological systems within the human body and their inter-relations.
- PSO2: Demonstrate skills relevant to diagnostic roles within a medical workup for patients with respect to anatomical anomalies.

**Course Outcomes (COs):**

- 1. To integrate basic knowledge of cells, tissues, blood, physiological functions and diseases of system
- 2. To develop an understanding of the function of organs and organ systems in normal human body.
- 3. To explain the physiological systems of the human body

**COURSE TITLE: Introduction to Anesthesia Technology– I**

**COURSE CODE: 20ATDSE01**

**Program Name: B.Sc. in Anesthesia Technology**

Introduces the students to the basics of anesthesia which is the fundamental for healthcare

Parameter	Need
Global	3
National	4
Regional	1
Local	1, 5

**Program Outcomes (POs):**

- PO4. Ability to perform duties associated with the role of anesthesia technologist
- PO5. Ability to understand and analyze the physiological states of patients under anesthesia and their requirements

**Program Specific Outcomes (PSOs):**

- PSO1: Demonstrate sound understanding of the concepts, methods & practices of anesthesia administration including the technological basis of patient maintenance
- PSO2: Demonstrate skills related to the monitoring of patient states during the anesthesia procedure, ability to identify complications, and resuscitation methods.

**Course Outcomes (COs):**

- 1. To practice within the scope of the professional standards of Anesthesia technology
- 2. To understand the standards for anesthesia practice and specific protocols

**COURSE TITLE: Introduction to Cardiac Care Technology– I**

**COURSE CODE: 20CTDSE01**

**Program Name: B.Sc. in Cardiac Technology**

Introduces the students to the basics of Cardiac care, which is the fundamental for healthcare

Parameter	Need
Global	3
National	4
Regional	1
Local	1, 5

**Program Outcomes (POs):**

- PO4. Ability to perform duties associated with the role of cardiac technologist
- PO5. Ability to understand and analyze the physiological states of the cardiovascular systems of patients, and their requirements

**Program Specific Outcomes (PSOs):**

- PSO1: Demonstrate sound understanding of the concepts, methods & practices of anesthesia administration including the technological basis of patient maintenance
- PSO2: Demonstrate skills related to the monitoring of patient states during the anesthesia procedure, ability to identify complications, and resuscitation methods.

**Course Outcomes (COs):**

- 1. To understand and get familiarized to cardiac care, noninvasively - ECG and TMT.
- 2. To understand and acquire the knowledge in non-invasive echocardiography, cardiac invasive in adult and pediatric, hardware and biomedical technology in Cath - Lab, clinical.

**COURSE TITLE: Nutrition in Life Cycle and Dietetics**

**COURSE CODE: 20NDDSE01P**

**Program Name: B.Sc. in Nutrition and Dietetics**

Introduces the students to the basics of nutrition which is the fundamental for wellbeing

Parameter	Need
Global	3
National	4
Regional	1
Local	1, 5

**Program Outcomes (POs):**

- PO4. Ability to develop specific nutritional plans for individual needs to optimize health states.
- PO5. Ability to understand and analyses the nutritional requirements of individuals and groups based on their physiological states and functions.

**Program Specific Outcomes (PSOs):**

- PSO1. Demonstrate sound understanding of the concepts, methods & practices in preparation of natural foods in different demographic groups
- PSO2: Demonstrate skills relevant to preparation of food while retaining maximum nutritional benefit.

**Course Outcomes (COs):**

- 1. To gain the practical knowledge of displaying raw and cooked food and learn their nutritive value
- 2. To acquire the knowledge of preparation of recipes for the therapeutic hospital diets

**COURSE TITLE: Principles of Human Nutrition**

**COURSE CODE: 20ND202**

**Program Name: B.Sc. in Nutrition and Dietetics**

Introduces the students to the basics of nutrition which is the fundamental for wellbeing

Parameter	Need
Global	3
National	4
Regional	1
Local	1, 5

**Program Outcomes (POs):**

- PO4. Ability to develop specific nutritional plans for individual needs to optimize health states.
- PO5. Ability to understand and analyses the nutritional requirements of individuals and groups based on their physiological states and functions.

**Program Specific Outcomes (PSOs):**

- PSO1. Demonstrate sound understanding of the different types of nutrients present in natural foods, and their gross and cellular effects on biological systems
- PSO2: Demonstrate skills relevant to identifying the nutrients present in different foods, and the assessment of their amounts and nutritional value in the body.

**Course Outcomes (COs):**

- To gain basic knowledge of the different nutrients and their role in maintaining health of the community.
- To develop skills in qualitative analysis and quantitative estimation of nutrients.