

Bachelor of Vocation – Healthcare Management (Semester 1)

Undergraduate Curriculum Framework 2022(UGCF)

DISCIPLINE SPECIFIC CORE COURSE –DSC- 1- Evolution of Indian Healthcare

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course(if any)
		Lecture	Tutorial	Practical/ Practice		
DSC-1 Evolution of Indian Healthcare	4	3	1	0	Class XII Pass	NA

Learning Objective

Create basic awareness of evolution of Indian Healthcare, indigenous system of medicine, historical development of hospitals in India and different systems of Medicine available.

Learning outcomes

1. Students will understand the historical development of the Indian healthcare system, including key milestones, policies, and reforms that have shaped its evolution.
2. Analyze the socio-economic and political factors that influenced the establishment and growth of healthcare infrastructure in India.
3. Evaluate the impact of various national healthcare programs and initiatives on improving access, affordability, and quality of healthcare services in India.
4. Understand the role of public and private sectors in the provision of healthcare services and the dynamics of their interactions in the Indian context.
5. Investigate the integration of traditional medicine systems (e.g., Ayurveda, Siddha, Unani) with modern healthcare practices and their contribution to India's healthcare landscape.

Syllabus

Unit-1(10 Hours)

History of Indian Healthcare-Healthcare in Ancient Period & Medieval Period, history and introduction of Ayurveda, Yoga, Naturopathy, Unani, Siddha & homeopathy, role of AYUSH-integration of 6 indigenous systems of medicines practiced in India.

Unit 2(10 Hours)

Evolution of Hospitals in India-hospitals in ancient India, historical development of hospitals, Systems of medicine, Modern medicine, changing concept of hospitals, present status of hospitals (public & private) in India, Classification of Hospitals, Hospital as a System, Hospital Organization, Overview on Healthcare facilities.

Unit 3(10 Hours)

Introduction - Healthcare Delivery System in India-Definition of Health, healthcare delivery system in India, Importance of Voluntary health agencies and health programs in delivering healthcare in India, Dimension of health, Spectrum of health, Determination of health and Indicators of Health, Levels of prevention, and modes of intervention for diseases and condition .

Unit-4(5 Hours)

Introduction to Hospital Departments: Detailed Clinical services, Detailed Support Services, and Detailed Utility Services.

Unit-5(10 Hours)

Current Trends in Healthcare Industry- Healthcare Industry – An Overview, Changing Healthcare – Determinants, Current Trends , Medical Tourism or Medical Value Travel, Public private partnership (PPP), Information Technology and Health Care, Telemedicine, Video Conferencing, Bioinformatics, Robotic Surgery, Health Insurance and TPA's.

Practical component (if any) -N/A**Essential/recommended readings -**

1. Kumar, S., & Kishore, J. (2016). Public healthcare in India: Historical background and current realities. Jaypee Brothers Medical Publishers.
2. Mukhopadhyaya, G.(1967).History of Indian Medicine: Vol.1.Indian Medical Research Institute.
3. Ramani, K. V. (2006). Hospital management (2nd ed.). Tata McGraw-Hill Education.
4. Goel, S. L., & Kumar, R. (2004). Management of hospital (Vols. 1–4). Deep & Deep Publications.

Suggestive readings -

1. Rao, M. (2017). Public health in India: Evolution and challenges. Orient Blackswan.
2. Gupta, I., & Bhatia, M. (2010). Health system in India: Crisis and alternatives. Indian Council of Social Science Research.
3. Duggal, R. (2004). Health care in India: Changing paradigms. Centre for Enquiry into Health and Allied Themes (CEHAT).
4. Business Journals, Healthcare status reports

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

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DISCIPLINE SPECIFIC CORE COURSE - DSC – 2 : Human Body Basics- Anatomy and Physiology

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course(if any)
		Lecture	Tutorial	Practical/ Practice		
DSC-2 Human Body Basics- Anatomy and Physiology	4	3	1	0	Class XII Pass	NA

Learning Objectives

1. Understand the basic anatomical terminology and body planes necessary to describe the structure and organization of the human body.
2. Identify and describe the major anatomical systems of the human body, including the integumentary, skeletal, muscular, nervous, cardiovascular, respiratory, digestive, urinary, and reproductive systems.
3. Recognize the anatomical features and functions of various organs and tissues within each system, and their interrelationships in maintaining homeostasis.

Learning outcomes

1. Demonstrate a comprehensive understanding of anatomical terminology, body planes, and directional terms used in describing the human body.
2. Identify and describe the structures and functions of the major anatomical systems in the human body.
3. Explain the relationships between different organs and tissues within each anatomical system and how they contribute to overall physiological processes.

4. Analyze and compare anatomical variations in different individuals and how they may influence health and disease.

Syllabus

Unit-1(10 Hours)

Introduction to Human Biology: – Cell structure and function, Cell, Tissues, Organ and organ systems.

Unit-2(15 Hours)

Organ Systems-1:- Skeletal System - Bones, cartilage, tendons and ligaments ; Muscular System - Skeletal muscles and smooth muscles throughout the body; Circulatory System - Heart, blood vessels and blood;

Unit-3(10 Hours)

Organ Systems-2 :- Digestive System - Mouth, esophagus, stomach, small and large intestines ; Excretory System: - Kidneys, ureters, bladder and urethra; Reproductive System: Male & Female Reproductive System ; Lymphatic/Immune System - Lymph, lymph nodes and vessels, White blood cells, T- and B- cells.

Unit-4(10 Hours)

Organ Systems-3 : - Nervous System - Brain, spinal cord and peripheral nerves ; Respiratory System - Nose, trachea and lungs. Endocrine System: - hypothalamus, pituitary, thyroid, pancreas and adrenal glands, etc ;

Practical component (if any)-N/A

Essential/recommended readings-

1. Chaurasya ,B.D.(2019).Human Anatomy .CBS Publishers & Distributors.
2. Jain, A. K. (2014). Human anatomy and physiology. Avichal Publishing Company.
3. Murugesh, N. (2012). Basic anatomy and physiology. Satya Publishers.

Suggestive readings -

1. Khurana, I. (2018). Essentials of medical physiology. Elsevier India.
2. Sembulingam, K., & Sembulingam, P. (2016). Essentials of medical physiology (7th ed.). Jaypee Brothers Medical Publishers.
3. Textbooks, and on-line reference and training Materials

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DISCIPLINE SPECIFIC CORE COURSE –DSC- 3 : Medical Terminology-1

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course(if any)
		Lecture	Tutorial	Practical/ Practice		
DSC-3 Medical Terminology-1	4	3	1	0	Class XII Pass	NA

Learning Objectives

Includes structure, recognition, analysis, definition, spelling, pronunciation, and combination of medical terms from prefixes, suffixes, roots, and combining forms.

Learning outcomes

1. Students will be able to understand the building blocks of medical terms and can understand the meaning of the terms by breaking the terms into various parts.
2. Students will be able to identify the different terms used for various systems which will strengthen the vocabulary being used in hospitals.

Syllabus

Unit-1 (12 Hours)

Building Blocks of Medical Terminologies- Introduction to Medical Terminology- Importance in healthcare settings; Roots- Word Roots and Combining Forms; Prefixes- Number, position, time, negation; Suffixes- Conditions, procedures, specialties; Pronunciation and Spelling Rules; Plural forms of medical words.

Unit-2 (12 Hours)

General Body Terminology and organ systems- Integumentary system, Skeletal and muscular systems, Nervous system, Cardiovascular and lymphatic systems, Respiratory system, Digestive system, Urinary system, Reproductive system, Endocrine system, Sensory organs (eye, ear), Anatomical Positioning and Body Planes.

Unit-3 (12 Hours)

Pharmacology: Prescriptions and OTC medications, Routes of Administration, Medication actions and effects, abbreviations.

Unit-4 (9 Hours)

Application, Abbreviations, and Case Interpretation: Medical Abbreviations and Acronyms, Common abbreviations used in prescriptions, diagnostics, and charting, Interpreting Medical Records, Decoding physician orders, lab reports, and discharge summaries.

Practical component (if any) –

N/A

Essential/recommended readings -

1. Bharadwaj, K. (2021). Medical terminology: A living language. Emmess Medical Publishers.
2. Sathish, K. (2016). Medical terminology made easy. Jaypee Brothers Medical Publishers.
3. Raman, V., & Raman, A. (2015). Medical terminology and clinical procedures. Paras Medical Publisher.

Suggestive readings -

1. Arora, R., & Arora, S. (2014). Medical terminology simplified. Pee Vee Publishers.
2. Reference texts and online Materials
3. STEDMAN'S Medical Dictionary.

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.